

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 3, 1958

AIR FORCE GETS COMBAT JUPITER IRBM

SOLID PROPELLANT TEST

High Thrust Motor Test of Rocket Held at ARGMA

The Defense Department has said that the Army has successfully test-fired, at Redstone Arsenal, Huntsville, Ala., a solid propellant rocket motor with a thrust of several hundred thousand pounds for very short duration.

The new rocket motor, developed by the Thiokol Chemical Corporation, was fired in a static test stand at 9:15 p.m., CDT, 26 Aug. 58.

The motor, a "booster," was described as capable of hurling an air defense missile to a very high altitude almost instantly.

The test was held at Range 5 at the Army Rocket and Guided Missile Agency, Brig. Gen. J. G. Shinkle, ARGMA Commander, personally supervised the test of the powerful new rocket motor.

Dr. W. M. Mebane of Thiokol Chemical Corporation was also present for the test.

INFORMATION ON ORBIT OF EARTH SATELLITE SLATED

A series of reports containing orbital information on the Army's Explorer earth satellite is being issued jointly by the Army Ballistic Missile Agency and the Astrophysical Observatory of the Smithsonian Institute, Cambridge, Mass.

Two reports have been issued thus far by the Research Projects Laboratory.

The tabulations of satellite positions, which constitute the bulk of the material in the series, have been calculated by the Observatory. The Computation of ABMA participated in certain aspects of the program.

Explorer IV was launched by ABMA on July 26.

JUPITER'S WEEK BUSY; GUIDANCE TEST SUCCESSFUL

Second Successful Fully-Guided Test

The Department of Defense announced that another fully-guided JUPITER Intermediate Range Ballistic Missile was launched from Cape Canaveral today by the U. S. Army.

The missile traveled its approximate full range over the Atlantic and functioned normally.

The JUPITER was developed by the Army Ballistic Missile Agency, Redstone Arsenal, Ala., for operational use of the U.S. Air Force. Today's firing was accomplished by the ABMA Missile Firing Laboratory.

This was the second successful firing of a fully guided JUPITER. The last test was conducted July 17, and the missile landed in the predetermined target area JUPITER employs an inertial guidance system.

The Army made no attempt to recover the heat-protected nose (See JUPITER'S on Page 2)

UGF 'FAIR SHARE' PLAN OUTLINED

Gen. Medaris Tells Of 100% Objective

Major General J. B. Medaris enjoined supervisors to make the 1958 Redstone United Givers Fund Campaign a success during an informal talk to the Campaign Executive Committee Friday.

The drive will formally open Sept. 15 with a meeting of solicitors and Agency chairmen in the Rocket Auditorium.

General Medaris commented upon the planning and organization for the annual drive and found it an improvement over prior years.

"We have been satisfied with the results in the past," he commented, "because we did not know the true situation — that greater response is obtained in other installations where the earning rate is lower.

"That is why we are asking every employe, this year, to give his Fair Share and why we desire 100 percent participation," the General declared.

The goals accepted by the Ex- (See UGF on Page 12)



ACCEPTING A MODEL of the JUPITER IRBM which was presented to the Air Force by the Army at the Army Ballistic Missile Agency Thursday, Maj. Gen. D. F. Callahan, Commander, Mobile Air Materiel Area (AMC) took note of the "hard work and the teamwork that made the weapon possible," and promised that the officers and men of the 864th Strategic Missile Squadron would make good use of this first tactical missile, "so that in the future Jupiter will be combat ready in the event of emergency."

AF TO TRAIN IN LAUNCH SITE AND FUELING METHODS

The first tactical JUPITER ARBM will be employed in the training of Air Force missile squadrons who will take the giant weapon system to the field.

Airmen will be trained in launch site procedures which include the checking of components and simulated flight testing using ground support equipment.

To meet the requirements, the (See AF TO on Page 2)

WHITE SANDS HITS PEAK IN ACTIVITY ON CONSTRUCTION

WHITE SANDS MISSILE RANGE, N.M. — Construction activity is nearing a peak at White Sands Missile Range, where a \$25,236,139 building pro- (See WHITE SANDS on Page 3)

864th SMS Under Intensive Training To Intergrate IRBM

(Pictures Inside)

The complex task of integrating the JUPITER Intermediate Range Ballistic Missile Weapons system into the Air Force family of weapons is in progress at the Army Ordnance Missile Command where the 864th Strategic Missile Squadron (IRBM-JUPITER) is undergoing intensive training with the giant missile that launched two full-scale nose cones which were recovered after reentry.

The 864th Squadron of the 704th Strategic Missile Wing is part of the Strategic Air Com-

mand's First Division commanded by Maj. Gen. David Wade and represents the Strategic Air Command's first IRBM Squadron. The Squadron is commanded by Col. William C. Erlenbusch.

Select officers and airmen were chosen by SAC. Personnel in the 864th were selected on the basis of technical ability, retentive capability and top proficiency in fields adaptable to the missile field.

Under the overall direction of Maj. Gen. J. B. Medaris, Com- (See 864TH on Page 9)



JUPITER IRBM shown above is being wheeled out of ABMA's Fabrication Laboratory prior to being turned over to the Air Force's 864th Strategic Missile Squadron at ceremonies held here. Eberhard Rees, Dr. von Braun's top assistant said that Missile No. 2 is "sticking its nose out and numbers three and four are waiting. Rees praised the military and civilian personnel at ABMA.



BRIG. GEN. J. A. BARCLAY is pictured as he told an audience of 600 persons at ABMA that, "It is appropriate to observe with this ceremony today the addition of this new weapon to our arsenal of democracy." ABMA's Commander presented the JUPITER IRBM to the Air Force.

AMSTERDAM IAC MEETING HELD

AMSTERDAM, Holland — The high intensity radiation at altitudes greater than 1,000 kilometers from earth's surface varies both in quantity and quality with latitude and altitude, Dr. Wernher von Braun told the IXth Annual Congress of the International Astronautical Federation.

Dr. von Braun is director of development operations of the Army Ballistic Missile Agency, Huntsville, Ala. He presented a paper summarizing the data received from EXPLORER IV, a scientific earth satellite, which (See AMSTERDAM on Page 4)



M/SGT. BILLY PITTMAN (left) of May, Oklahoma, shakes hands with Aibert Adams of Athens, Ala., as the latter turned over the first tactical JUPITER IRBM to the Air Force. Pittman representing the 864th Strategic Missile Squadron and Adams the Army Ballistic Missile Agency took part in the ceremony held yesterday at ABMA.

DELIVERY MONTH AHEAD OF PLAN

Missile Developed By ABMA Team

The Army last Thursday delivered to the Air Force the first tactical JUPITER Intermediate Range Ballistic Missile.

Delivery took place at Redstone Arsenal, site of the Army Ballistic Missile Agency which developed the giant weapon system. The Agency is an element of the US Army Ordnance Missile Command.

The combat-type missile was handed over to the 864th Strategic Missile Squadron (IRBM-JUPITER), now in training at the Arsenal.

The delivery was approximately one month ahead of schedule.

The JUPITER was fabricated in the Missile Agency, which has produced all JUPITER versions launched to date. Two research and development prototypes equipped with full-scale nose cones were successfully launched recently and both cones were recovered in undamaged condition by the U.S. Navy.

The JUPITER project was initiated by a proposal from the Guided Missile Development Division of Redstone Arsenal Sept. 18, 1955. The Army approved the project, with authorization from the Department of Defense, in November, 1955.

In July, 1957, the Army was instructed to furnish the JUPITER system to the Air Force for operational deployment. Delivery date for the first missile with initial operational capability was scheduled for Sept. 8, 1958.

The tactical version of JUPITER does not carry numerous (See DELIVERY on Page 2)

The Redstone Rocket

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Delivery

(Continued From Page 1)

telemetry and tracking equipment such as is employed in the development type missile.

The Army Ballistic Missile Agency was activated Feb. 1, 1956, for the purpose of carrying out the JUPITER development and to weaponize the Army's REDSTONE Ballistic Missile System. REDSTONE is deployed with NATO Shield Forces in Europe.

JUPITER, like REDSTONE, was developed by the military-civilian missile team at the Arsenal. Dr. Wernher von Braun is technical director and Brig. Gen. J. A. Barclay commands ABMA.

The Chrysler Corporation is the prime contractor for JUPITER production in the Government-owned Michigan Ordnance Missile Plant. The Ford Instrument Company supplies guidance and control systems, developed by the Missile Agency, and the Rocketdyne Division of North American Aviation supplies the rocket engines.

Jupiter's

(Continued From Page 1)

cone following the launching today. Cones have been successfully recovered from the past two JUPITER launchings. Analysis revealed that the JUPITER cone provides adequate protection to

AF To

(Continued From Page 1)

Army Ballistic Missile Agency fabricated the tactical missile so that each of its operating systems or sub-system can be functionally checked out, pneumatically, hydraulically or electrically.

While the major use of the missiles will be for conducting systems analysis and checkout, important to the training of crews, they will also be utilized as follows:

1. Fueling with propellants.
2. Mating of nose cone, aft section and thrust unit.
3. Movement over roads and highways.
4. Assembly and erection.
5. Removal and installation of components including the guidance and control systems, the rocket engine, and pneumatic components accessible to the crews.

the warhead during the critical reentry phase of flight.

Today's launching was a continuation of ABMA's "Operation Gaslight", a project which provides infrared and photographic measurements of the reentering nose cone, booster section and instrument compartment. A U.S. Navy ship with Army scientists and photographers aboard was in the target area when the missile's three sections reentered the atmosphere.



REPRESENTATIVE Robert E. Jones (center), Alabama Congressman, Thursday witnessed the presentation of the first tactical JUPITER IRBM to the Air Force by the Army Ballistic Missile Agency. From left to right are Maj. Gen. J. P. Daley, Director of Special Weapons, Office Chief of Research and Development, Department of Army; Brig. Gen. John W. Cave, Office Chief of Ordnance; Rep. Jones and Maj. Gen. D. F. Callahan, Commander, Mobile Air Materiel Area (AMC).

ARGMA'S ROLE IN HAWK TOLD HERE

Brig. Gen. Colby Tells Rotary Club

The Army's goal in management of missile programs is to "assure the American people and the soldier that the end product is a safe, reliable and rugged tool for defense," Brig. Gen. H. M. Colby, Deputy Commander of the Army Ordnance Missile Command told the Rotary Club of Huntsville yesterday.

Describing the roles of industry and science in the Army missile programs, Gen. Colby told of the development of the HAWK surface-to-air guided missile. This program is under cognizance of the Army Rocket and Guided Missile Agency.

ARGMA, he said maintains technical cognizance and supervision over the industrial contractor "to assure that he is coming along on proper time schedule, that his costs are reasonable, and that his end item can be used efficiently by troops."

The "pool" of Army weapons experience represented by elements of the Missile Command and the Ordnance Corps at large contributed to the success of HAWK. Less than two years from the time Ordnance received authorization, the first fully guided flight of HAWK took place and the missile knocked down a drone.

"For many years," Gen. Colby

said, "we have looked to industry for production capacity essential to meet the peak demands of war. Now, continuing a trend which began during World War II, we are turning more and more to industry for the solution of research and development problems."

"There has resulted a continual improvement in the blending of the special skills and capabilities of our arsenals and Ordnance districts with the wide diversification of talent represented by American industry. We have improved our scientific and technical competence to guide and as-

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STREET FLOOR TIMES BUILDING

White Sands

(Continued from Page 1)
 gram is under way in full swing. The biggest one-year expansion program in the post's 13-year history includes nearly 100 major and minor projects. Twenty-two prime contractors and scores of subcontractors are employing several hundred workers. Four projects costing \$3,113,521 were completed in July and August. Half a dozen more totaling \$1,411,318 are to be awarded to contractors in the next five weeks. Now in various stages of completion are some 40 major projects costing \$20,211,300 and nearly 50 minor projects totaling more than \$500,000. The \$25-million program was authorized by Congress last year for 1958. Another \$13-million program has been planned for WSMR in 1959, hiking the two-year total to \$38 million. Much of this expansion was planned even before the first Sputnik launching in the fall of 1957, but some has been speeded up since then. The buildup reflects the importance of the nation's guided missile and satellite programs and the vital role of WSMR in carrying out these

programs. The 4,000-square-mile land range is equipped with instrumentation and communication networks. The post has pre-flight research and testing laboratories and post-flight data reduction equipment. These and the necessary administrative facilities are being expanded along with housing, recreation and housekeeping facilities. Personnel strength of WSMR is pushing the 10,000 mark. It is due to increase even more as the new facilities are completed and placed in use. All branches of service and their guided missile contractors will use the new buildings and facilities in carrying out high priority research, development and testing programs. Biggest of the four projects completed during the last two months was a 134-unit Capehart family housing development. Cost was \$2,207,285. Contractor was BAJAC Inc., a subsidiary of the J. W. Bateson Co. of Dallas. Others completed were an engineering building for the Western Electric Complex, built by George A. Rutherford Inc., Albuquerque, at a cost of \$560,451; a missile handling building for the Army

Ballistic Missile Agency's Redstone Project, built by C. H. Leavell & Co. of El Paso for \$181,450, and an eight-room addition to the Post Elementary School, built by Frank Tatsch Const. Co. of Silver City at a cost of \$164,335. Now under construction are such projects as range instrumentation facilities, missile assembly buildings, warehouses, laboratories, shops, launching facilities, office buildings, control structures, enlisted men's barracks, officers' quarters, mess halls, a troop education building, a post exchange and a post cafeteria. Also being built are new streets, roads, parking areas and sidewalks and a new 75-unit Capehart housing development. The post's water, power and gas systems are being expanded to serve the expanded areas. Contracts to be awarded during the next few weeks will include special weapons assembly facilities, two instrument stations, two shop buildings, another missile assembly building and a new launching site. Scheduled to complete major projects during the next three months are C. H. Leavell, R. E. McKee and James P. Lockhart companies, all of El Paso; Pacific Iron & Steel Corp., Los Angeles; MacGuire-Glaser Co., Fabens, Tex.; Wylie Bros. Paving Co., Albuquerque; A. M. Campbell Const. Co., Tyler, Tex.; Burn Const. Co., Las Cruces, and Delta Steel Bldg. Corp., Dallas. Prime contractors with jobs to be completed by the middle of next year are J. W. Bateson Co., Pittsburgh-Des Moines Steel Co. and Midstate Const. Co., all of Dallas; Classen & Kistenmacher, J. E. Morgan & Sons and Hugh McMillan Inc., all of El Paso; H. B. Zachry Co. and Loyd Electric Co. of San Antonio; G. A. Ruther-

ford Inc., Albuquerque; Brodie-Enix Const. Co., Amarillo; and Holmes & Narver Inc., Los Angeles. One of the surest of all truths is that life will give you no more than you give it. —Norman Vincent Peale
 One of the busiest subcontractors is the Rocket Const. Co. of El Paso, which is handling cement and concrete work on 22 separate projects.
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Amsterdam

(Continued From Page 1)
was prepared by Dr. James Van Allen, Carl McIlwain and George Ludwig of the State University of Iowa.

Dr. Van Allen designated the radiation instrumentation carried in the EXPLORER satellites, launched by the Army for the IGY Committee of the National Academy of Sciences.

Reporting that EXPLORER IV, in its first two weeks of orbit, has confirmed the presence of high radiation first detected by EXPLORERS I and III, Dr. von Braun said:

"A low energy component is usually present with the relative number of high energy particles increasing as the magnetic equator is approached. Many of these particles have a range of greater than two grams per square centimeter; therefore, they must have energies which exceed six megavolts if electrons, or 40 megavolts if protons."

Radiation is measured by two small Geiger counters and two scintillation counters installed in EXPLORER IV, which was packaged by the Army Missile Agency.

One Geiger tube is sensitive to ionizing particles whose range is greater than one gram per square centimeter. The other Geiger tube has an additional absorber of 1.5 grams per square centimeter of lead. One scintillation detector is connected to a pulse amplifier and discriminator. The other detector is connected to a non-linear network and electrometer. These pulse and DC type scintillation detectors are shielded by two grams per square centimeter or more of material except for windows of 140/130 and of

one milligrams per square centimeter thickness respectively.

The flux of particles with ranges greater than one gram per square centimeter has now been measured to be approximately 3,000 per second per square centimeter per steradian at an altitude of 1900 kilometers above the magnetic equator. At least 60 percent of these particles can also penetrate 2.5 grams per square centimeter.

In addition to these penetrating particles there is a still higher flux of less penetrating particles. At higher altitudes the shorter range particles greatly predominate. Here the flux of particles with range greater than 0.14 grams per square centimeter at 2,200 kilometers is about 100,000 per second per square centimeter per steradian with a total energy flux of particles with range greater than one milligram per square centimeter of about 20 ergs per second per square centimeter.

This energy flux is similar to that recently measured in Aurorae at Fort Churchill, Canada where it was found to be primarily due to electrons in the energy range 5 to 100 kev.

The data which has been analyzed is consistent with symmetry about the eccentric magnetic dipole but is not consistent with equal intensities along magnetic field lines.

Both scintillation detectors exhibit rapid variations due to the changing aspect of the satellite. At high latitudes often more than 80 percent of the radiation comes from one hemisphere.

Highly penetrating radiations in excess of ordinary cosmic rays have not been observed at low altitudes. However, a flux of about 200 particles per second per square centimeter per steradian with a range between .14 and 2 grams per square centimeter has been measured at an altitude of 300 kilometers above Southern Canada.



MAYORS VISIT FAB LAB—Mayors from approximately one hundred Alabama cities listen to Verl Cummings in the Army Ballistic Missile Agency Fabrication Laboratory as he briefs them on the work of the Laboratory in development of Army missiles. The Mayors were in Huntsville at a Civil Defense meeting last week. As a part of their schedule, they visited the Army Ordnance Missile Command and the Ordnance Guided Missile School here. They also toured the static test stand area to see the mammoth tower where heavy guided missile engines are tested.

The spatial distribution of both high and low energy components of the radiation was very stable during the first two weeks EXPLORER IV was in orbit. A factor of two variation in the intensity would have been detectable in any region in which data has been obtained.

The separation of altitude effects cannot be properly done until perigee of the satellite's orbit has moved to the equator from its present position in northern latitudes. The first two week's data indicates an increasing intensity with altitudes at all latitudes with no indication of a leveling off.

EXPLORER IV was launched July 26 from Cape Canaveral, Fla. The Advanced Research Projects Agency, Department of Defense, assigned the satellite mission to the Missile Agency and the Jet Propulsion Laboratory. Both are elements of the US Army Ordnance Missile Command.

EXPLORER IV was launched July 26 from Cape Canaveral, Fla. The Advanced Research Projects Agency, Department of De-

Ordnance Missile Command.



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Our goal	30
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Our Goal	100
Days since last government vehicle accident—6.	
Our Goal	30

Civilian personnel have again obtained their goal of 30 days without a disabling injury. A new goal of 45 days has been established for the group. A short time ago civilian personnel fell one day short of achieving the 45 day goal. Keep up the good work.

There have been no disabling injuries reported for military personnel during the past twenty-four days. The military group is only six days short of their desired goal.

Time is the inevitable executioner; a thief who sneaks away with our youth.

—David Condon

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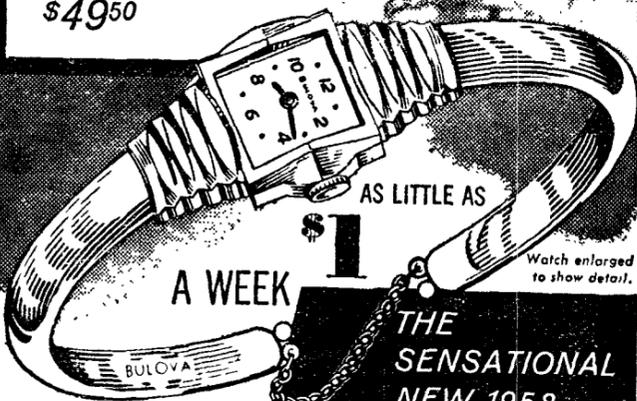
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MISSILE VIKINGS—The first class of officers and men of the Royal Norwegian Air Force has completed training at the U. S. Army Ordnance Guided Missile School at Redstone Arsenal, Ala. Here 2nd Lt. O. Newmann of Bergen, Norway (right) receives a diploma in the Nike-Ajax and Nike-Hercules surface-to-air missiles from Col. O. B. Engvik, (left) Norwegian air attache in the U. S. At center is Col. H. S. Newhall, commandant of the School.

NATO STUDENTS GET MEMBERSHIP IN LEGION CLUB

Commander Joe S. Foster of American Legion Post No. 37 last week extended membership privileges in the local clubhouse to the 300 officers and men of the 11 North Atlantic Treaty Organization countries now studying at the Ordnance Guided Missile School at the Arsenal.

Seven senior officers of the NATO contingent were guests at a dinner at the new Legion clubhouse and afterward were

introduced to members and guests during the nightly entertainment.

Foster, Vice Commander Joe Welsh, and others were hosts to Col. Asim Unayral of Turkey, Maj. Evjin Larsen of Denmark, Capt. Gerardo Keil of Italy, Capt. Werner Kothe of West Germany, Maj. George Morck of Norway, Lt. Didier Delvaux of Belgium, and Lt. Charles Rochecouart of France.

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Membership Rally To Be Held Sept. 10

The International Women's Club will hold a membership

rally punch Wednesday, Sept. 10, from 2-3:30 p.m. at the Redstone Room of the Officers Club, Bldg. 111.

The presence of all members

and the eligible newcomers are requested to assist in the planning of social events for the coming season.

If unable to attend please call the persons listed before noon, Sept. 8, 1958.

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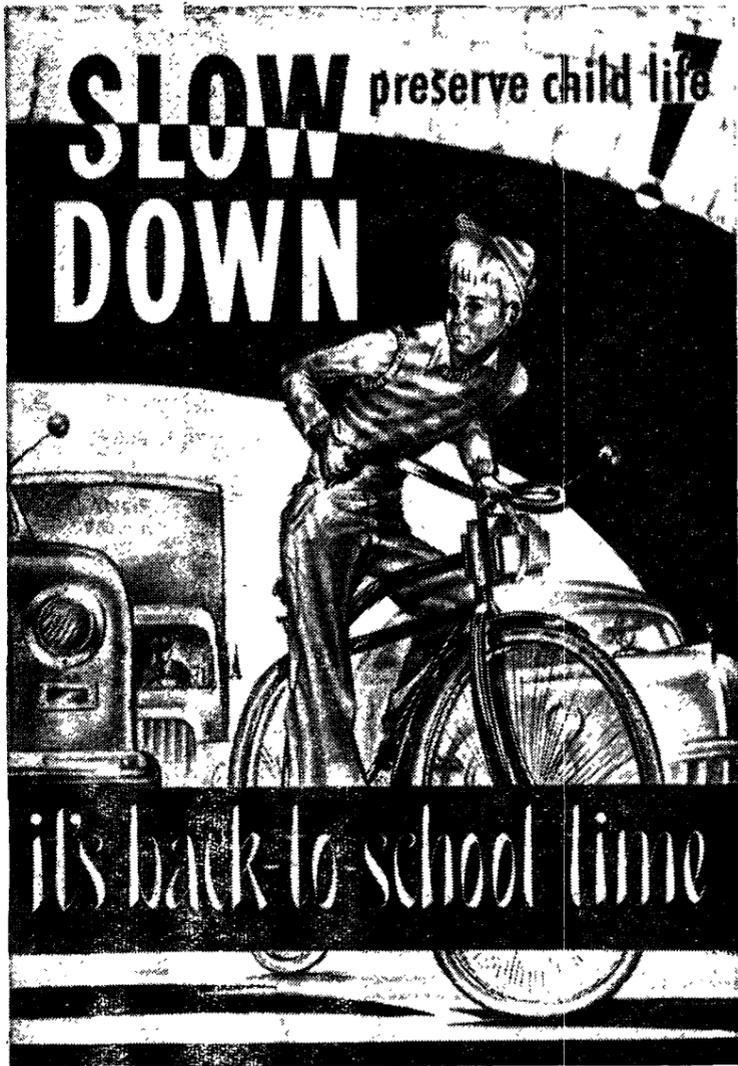
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An Open Letter To You

As I write this, I occasionally glance at my little daughter who is excited about starting to school. This will be her first year. Up to now she has been at home

where we could watch and try to keep her off the streets. NOW we are going to have to depend on the teachers, the School Boy Patrol, and YOU to watch out for her and the other children. The teachers and the patrol do an excellent job in watching after the children. But little children playing games become excited and without thinking may dart out

into the streets. Again the School Boy Patrol will not be at all intersections to guide them on their route between home and school. Fifteen miles per hour does seem to be slow, doesn't it? But this slow speed limit in school zones is posted for the most important reason: To protect your children and mine. So please drive slowly when passing a school zone and look toward the curb for any children that might be ready to run into the street.

When you leave the school zone (also before you get there) don't leave your alert and careful driving behind. Continue to be on the lookout for little children. If you see children waiting to cross the street, why not stop and let them cross in front of you if the road is clear of other cars? It won't cost you anything and will make you feel good inside when they smile at you. Try it and see.

Yours,
A Worried Parent

Workers Alerted on 'Back to School' Safety Program

After Labor Day almost one million potential casualties will appear on Alabama's streets and highways. This figure represents the children who will be reporting to the classrooms.

The Redstone Arsenal is conducting a "Back to School" safety campaign to alert its workers against the increased hazard to local children.

Posters have been placed throughout the arsenal to be a constant reminder to the workers to watch out for the children while driving to and from work. "Back to School" safety talks are being given by the supervisors of each department at the regular safety meetings, and an appeal is being made to drive carefully. The workers will receive Slow Down Let 'em Grow hand bills with their pay checks or find them on the windshields of their automobiles.

The arsenal's school buses have been inspected to insure that they

TEXT OF IRBM PRESENTATION BY GEN. BARCLAY

Fifteen years ago the 864th was activated as a member of the last E-24 Bomb Group. At that time

are in good operating condition and comply with state laws. Letters have been sent to parents living on the post asking them to instruct their children in school bus safety.

The arsenal has requested all radion stations within the immediate area to broadcast "Back to School" safety reminders during their early morning programs as a public service.

Through a united effort we hope to minimize the accident toll of our children during the school year 1958-59. It depends upon you.

You should become familiar with the "Back to School" safety program and support this program with your cooperation. Motorists are particularly urged to be alert when driving — Slow Down — preserve child life! It's back to school time.

a group motto of "the last shall be first" was selected. During its one and one-half years of combat duty in the Pacific, the 864th with its sister squadrons justified that motto and ended up with the best bombing record in the Pacific theater. Today the Air Force has recognized the worth of the 864th by reactivating it as the first U. S. Air Force Strategic Missile Squadron. In the days of World War II, the Ordnance Corps was assigned and carried out the mission of arming the 864th with its implements of destruction. Today the Ordnance Corps, in the form of this first tactical JUPITER missile, is continuing its tradition of arming the forces of the United States with weapons of destruction. It is with the guarantee of the Ordnance Corps and the Army that I turn over to you this missile which will insure that the 864th and its sister squadrons, who will also be armed with the JUPITER missile, will continue to carry out the tradition and record of superiority which they established in World War II.

Napoleon III acquired such skill in the art of lying that you could not even depend upon the exact contrary of what he said.

—Ralph Waldo Emerson

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TEXT OF ADDRESS BY GEN. MEDARIS ON IRBM TURNOVER

This is the day and the occasion towards which a major portion of our efforts have pointed since the Army was assigned the mission of developing an Intermediate Range Ballistic Missile System in November, 1955.

As usual, the day came a bit sooner than we had scheduled. The development team represented by the military and civilian personnel who comprise the Army Ballistic Missile Agency has generally managed to do this sort of thing throughout the program. They have met the requirements of the schedule, or they have reached pre-determined milestones ahead of schedule. So, in that sense, General Barclay, you are running true to form.

Most of those present here have shared in this effort. The Missile Agency has profited immensely from the full support of the en-

tire Ordnance Corps, the other Army technical services, the combat arms, its prime contractor and major sub-contractors, other agencies of my Command, and organizations inside and outside the Government who have in greater or lesser measure contributed to the success of the JUPITER program.

None of us close to the project ever doubted eventual success. When we launched the first prototype March 1, 1957, we knew that we had a good missile although more development effort lay ahead. The third launching, on May 31, 1957, confirmed our faith for on that occasion JUPITER traveled over 1,000 miles downrange — and demonstrated to the free world the sure availability of successful IRBM.

Of all the launchings to date, however, I consider that of July 17, 1958 the convincing evidence of the capabilities of the JUPITER System. The accuracy achieved through the perfect functioning of the inertial guidance system enabled our friends in the Navy to fish the full-scale nose cone out of the Atlantic and deposit it on board ship less than 90 minutes from liftoff at Cape Canaveral.

The delivery of the first JUPITER with initial operational capability today to the using service, the United States Air Force, is a fitting culmination though we realize full well that the task of production, of maintenance and supply when the system is deployed will remain with us so long as the weapon is useful in the national defense. I want to assure you, General Callahan, and you, Colonel Erlenbusch, that my organization stands behind its products, and that we will continue to be responsive to any needs which develop as you take JUPITER to the field.

We of the Ordnance Corps understand our responsibilities in the development and supply of advanced weaponry to the Army and its sister services. We are motivated by the single purpose of serving the national interest. We want only to provide the best weapons systems which man-

Army Sec. Brucker Cites Personnel On Safety Award

TO ALL PERSONNEL OF THE UNITED STATES ARMY

On 26 June I had the honor, in the name of the Army, of accepting the President's Safety Award for 1957. I want to express my appreciation to all personnel, military and civilian, who made this honor possible.

The efforts of our Army team in conserving human and material resources was emphasized by the winning of the award.

Particular credit should be given to commanders and safety personnel throughout the world who have integrated safe practices into all operations and activities of the Army without imposing on the realistic performance of duties.

The steady decline in the number of work hours lost and dollars wasted as a result of accidents indicates that we are cap-

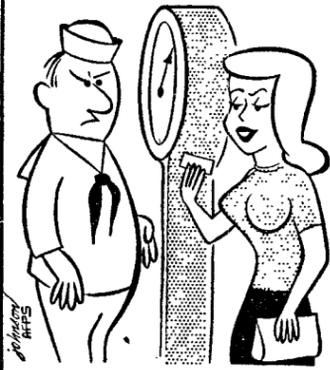
able to defend this country. That will continue to dominate our thinking and our considered actions as we advance further into the art of rocketry.

I believe that on this installation, we are epitomizing the type of fruitful, intelligent, and sincere cooperation which benefits all of the services and the country. The Air Force is ably represented here by the officers of the JUPITER Liaison Office and Colonel Erlenbusch, the officers and men of his Squadron.

The enthusiasm with which the Squadron has embraced its training indicates that the essential marriage of men and missiles will be a happy union. For our part, we are confident of our product, we know that JUPITER will fulfill every requirement as an operational weapon system. Incidentally, we expect to put major elements of the JUPITER missile to good future use in the expanding space program in which we are engaged. But our interest in space, and our assignments in this area, will never be permitted to interfere with our primary responsibility associated with the weapon.

My earnest congratulations go to General Barclay and the people of his Agency. They have carried out a complex and difficult assignment with efficiency and dispatch. They have upheld the finest traditions of the Ordnance Corps and the Army and, in doing so, have rendered magnificent service to the nation.

SNAFU



"SAYS YOU'RE A BIG SPENDER WITH WOMEN — AND THIS'LL GIVE YOU A LAUGH — IT HAS YOUR WEIGHT WRONG TOO!"

Rhymes of the Times

SUCCESS COMES TO HIM WHO NEVER DESISTS, AND AT HIS TASK PERSISTS, PERSISTS, PERSISTS.



When it's all said and done, the only person easy to deceive is yourself.

—Anonymous

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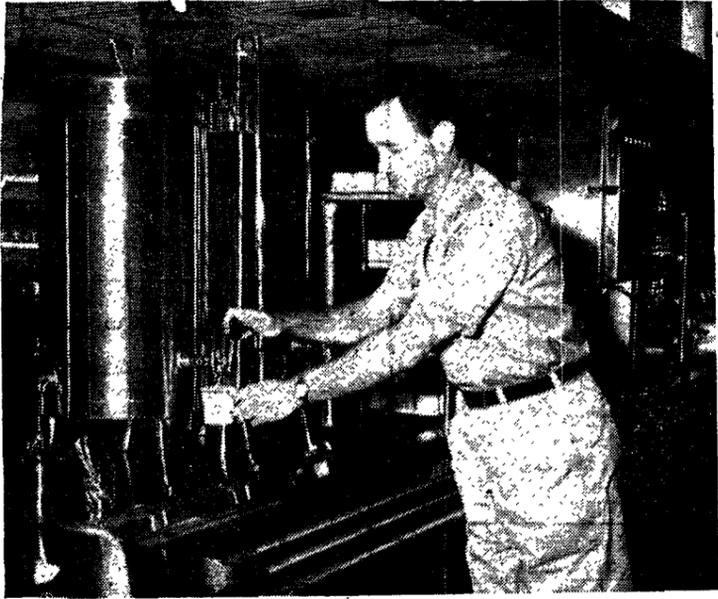
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JOCK MAHONEY
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CINEMASCOPE
in Eastman COLOR



NEW CAFETERIA — Col. Keith T. O'Keele, Redstone Arsenal Post Commander, drank the first cup of coffee at the opening of the new cafeteria of the Field Service Industrial Division area of the Army Rocket and Guided Missile Agency. Located in the center of Building 5681, the equipment for the cafeteria is valued at over 80 thousand dollars. Maj. David Robinson is the Post Exchange Officer. George J. Geiger is General Manager of the Exchange and Mathis Green is the Food Advisor. The cafeteria seats over 250 persons.

ARMY ENGINEERS LET CONTRACTS FOR POST HOUSING

Colonel R. W. Love, U.S. Army District Engineer at Mobile, Alabama, announced today the award of two contracts totaling

over half a million dollars for construction at Redstone Arsenal, Huntsville, Alabama.

The Harbert Construction Corporation of Birmingham, Alabama, will construct a large sewage treatment plant to serve the expanding facilities of the U.S. Army Ordnance Missile Command under a contract amount-

ing to \$317,500. The plant, which will have a capacity of 1,000,000 gallons per day, is scheduled for completion in August 1959.

The firm of Ashburn & Gray, Inc., of Huntsville, will construct off-site utilities and roads for the new Capehart housing project now getting under way at the Arsenal under a contract amounting to \$277,562. The job will include the construction of asphalt roadways, concrete curbs and gutters, drainage systems, an electrical distribution system, a pump house, and water, gas and tractor is expected to complete the work except for grassing by the end of March 1959.

A contract amounting to \$5,214,000 for the construction of the new Capehart project, which will provide housing for 316 military families at the Army Ordnance Missile Command, was signed earlier this month between the U.S. Army District Engineer at Mobile and Jupiter Homes, Inc., a corporation sponsored by the Daniel Construction Company of Birmingham.

Held at Club

Three tables of party bridge were held last Thursday afternoon at the Squirrel Hill Officers Club.

Taking high score for the afternoon was Mrs. P. D. Smith, second high, Mrs. R. E. Spragins, Sr., and low was Mrs. R. J. Straut.

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FAYETTEVILLE

864th SMS Trains With JUPITER IRBM at ABMA

(Continued from Page 1)
 Brig. Gen. J. A. Barclay commands ABMA.

The training cycle encompasses the various systems within the missile such as a propulsion, guidance control, fueling, all ground servicing equipment used in conjunction with the missile, the logistics support plan and the operational capabilities and limitations.

The addition of the JUPITER Weapons System into the Air Force inventory necessitated two separate but related training requirements: Training of individuals to perform the individual technical function of their particular specialty (individual training) and training groups of individuals to operate as a team or crew (crew training or Integrated Weapons System Training-IWST).

Members of the 864th Squadron initially underwent individual training on the Army's Redstone Ballistic Missile system. Conducted by the Surface-to-Surface, Ballistic Missile Branch of the U. S. Army Ordnance Guided Missile School, the individual training phase utilized the now famous Redstone Trainer, a full-scale "dummy" missile equipped with allied launching and ground service equipment.

Components of the trainer not only duplicate the missile equipment in internal and external appearance, but also allow crewmen to perform checkout, adjustment, fueling and even a "count-down" with a simulated firing.

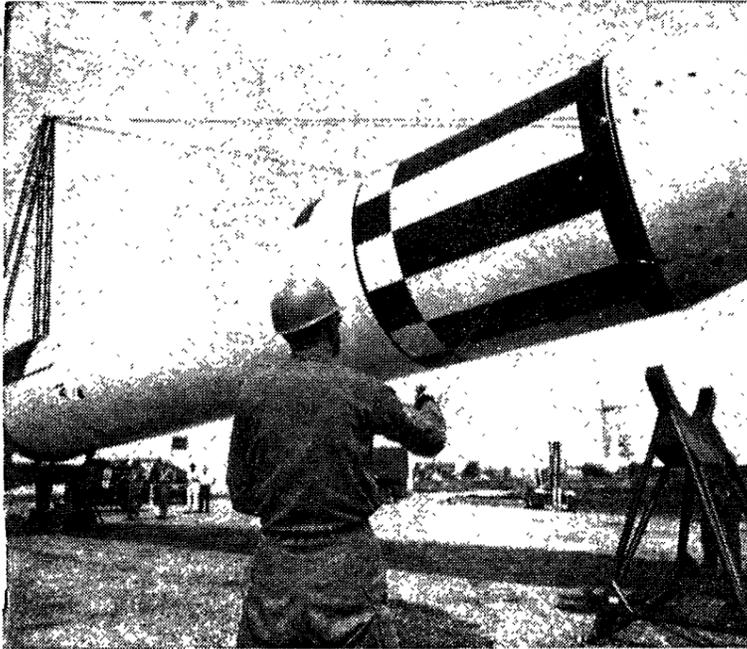
The commander is able to insert some 98 malfunctions into the system and thereby determine the ability of the missile crew to cope with them. During a given simulated launch he can examine a tape which records the action performed, whether it was performed in the correct sequence, the operator who performed it, and whether or not the "firing" was successful.

During the JUPITER individual training phase which recently began Air-missilemen will not only work and train with a JUPITER Handling Trainer, but will also have the following additional trainers: Fueling, Propulsion, Guidance, Boat Tail (Aft-Unit of missile), Launch Control Trailer, Electrical Equipment Trailer and the Fuel and LOX Service Trainers.

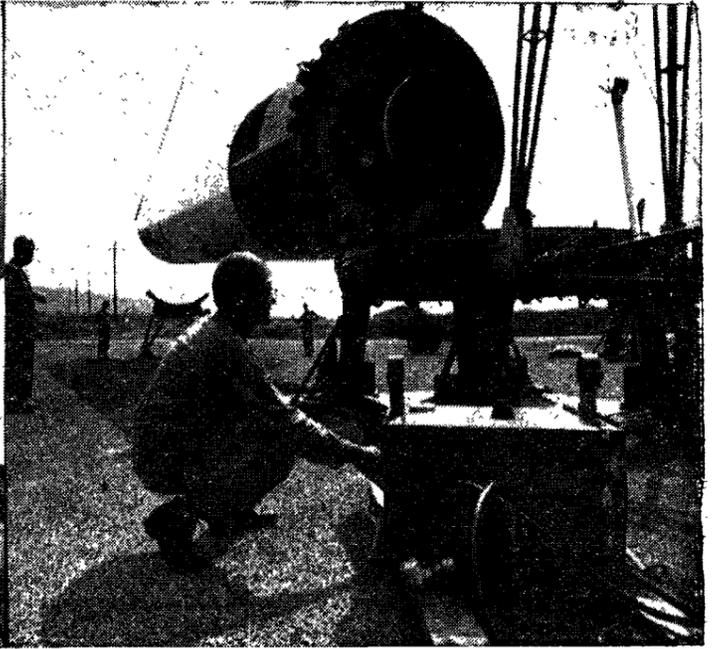
In addition to the instructors provided by the Missile Agency and the Guided Missile School, private industry experts representing contractors in such fields as guidance, propulsion, fueling and related missile systems instruct the students on their specialties.

Once the individual training has been completed the student then goes into the integrated weapons system training or crew training. Here launch crews, composed of one officer and eight Airmen, go out to one of the three JUPITER training sites at the Agency and conduct vertical check-out, fueling, launch-erection, countdown and all phases of the simulated firing sequence.

Personnel of the 864th are being trained to do jobs in the missile field which was closely allied with their previous training. For instance, a former aircraft electronic technician would be trained in guidance and control. Aircraft maintenance specialists become



THE JUPITER Intermediate Range Ballistic Missile which was developed and fabricated by the Army Ballistic Missile Agency is being used by the Air Force's 864th Strategic Missile Squadron in training at ABMA. S/Sgt. William Langley, Air Frame technician of the 864th checks the erection of the giant missile by use of the "A" frame, a piece of ground handling equipment developed by ABMA.



AIR FORCE PERSONNEL of the 864th Strategic Missile Squadron which will field the JUPITER Intermediate Range Ballistic Missile overseas work with lightweight erection equipment to erect the giant missile. Shown above are M/Sgt. Joe Pugh (front) and M/Sgt. Harold Kennedy (rear) who are in training at the Army Ballistic Missile Agency with the 864th. The Army, which fabricated and developed the JUPITER, delivered the first combat missile to the Air Force today.



STAFF SERGEANT KENNETH HAMMERBERG, Air-frame Technician, supervises the erection of the JUPITER Intermediate Range Ballistic Missile by use of lightweight erection equipment developed by the Systems Support Equipment Laboratory at the Army Ballistic Missile Agency. S/Sgt. Hammerberg is a member of the 864th Strategic Missile Squadron which is undergoing training at ABMA with the Army developed missile.



M/SGT. HAROLD T. KENNEDY of the 864th Strategic Missile Squadron of the Strategic Air Command's First Missile Division directs the erection of the giant JUPITER IRBM at the Systems Support Equipment Laboratory at the Army Ballistic Missile Agency where the Missile Squadron is in training. Light-weight erection equipment was developed at the ABMA laboratory. The Army Thursday delivered the first combat IRBM JUPITER to the Air Force.

 missile maintenance men. A jet engine expert would get rocket engine training.

A large majority of the Airmen and officers of the 864th are either veterans of the Korean War or of World War II. More than 50 percent of the classes maintain an average of 90 or better in classroom and laboratory assignments. There have been no

 eliminations due to academic failures.

The majority of the Airmen are on second or subsequent enlistments. Officers assigned to the Squadron have an average of 14 years service. The educational level of Airmen is high and a high percentage of them engage in off-duty educational courses ranging from mathematics to the principals of guided missiles.

When an Airman comes into this Squadron for training he knows what his future job assignment will be, for whom he will work, and that his eventual assignment will be overseas.

Since the inception of the Squadron training cycle, changes in manning have been effected. Where it previously required 68 persons and two mobile units for LOX servicing it now requires 16 persons and one unit.

"The initial training during the Redstone period enabled us to become acquainted with our people, know their capabilities and know where to place them in their jobs," said Col. Erlenbusch.

"The trainers and missile simulators have been invaluable in the training of our Airmen and in ascertaining their proficiency and aptitudes," he explained.

Patronize the Rocket Advertisers



THE FULL SCALE NOSE CONE of the JUPITER Intermediate Range Ballistic Missile is visible as the missile is placed on its transporter under the watchful eyes of S/Sgt. Kenneth Hammerberg of the 864th Strategic Missile Squadron, an Airman in training at the Army Ballistic Missile Agency. The Army, which developed the JUPITER IRBM, presented the first JUPITER IRBM with initial operational capability to the Air Force Thursday.



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Pentagon; MOAMA VIP's Attend the IRBM Ceremony

Maj. Gen. J. P. Daley, Director of Special Weapons, Office of the Chief of Research and Development, Department of the Army, arrived today to witness the presentation of the first tactical JUPITER IRBM to the Air training of Air Force Missile Squadrons.

Maj. Gen. D. F. Callahan, Commander, Mobile Air Material Area (AMC) accepted the giant missile which was presented by Brig. Gen. J. A. Barclay, Army Ballistic Missile Agency Commander. Maj. Gen. J. B. Medaris, commanding the Army Ordnance Missile Command, introduced the participants and honored guests.

Col. William C. Erlenbusch commands the 864th Strategic Missile Squadron (JUPITER-IRBM) which is in training here for deployment.

Gen. Daley was accompanied by Maj. Gen. F. S. Besson, Chief of Transportation; Brig. Gen. John W. Cave, Office Chief of Ordnance, and Col. J. R. Wendt, Director of Special Weapons and Requirements, Deputy Chief of Staff, Army Operations.

Col. H. W. Randall, Chief, Ballistic Missiles Division of the Air Force and Capt. W. H. Clift accompanied Gen. Callahan.

Chrysler Corporation, prime contractor for Jupiter, was represented by I. Minett, Group executive of Defense and Special Products Group and C. A. Brady, General Manager of the Missile Division.

L. F. Jeffers, President of Hapes Aircraft; Larry Brown, Program Manager, Ford Instrument Co.; S. K. Hoffman, Rocketdyne Division of North American Aviation; T. A. Knowles, President, Goodyear and R. H. Ames, Goodyear; and Elmer Warnken, President of the Cincinnati Test Laboratory were among the civilian contractor executives attending the presentation. All these firms are involved in the Jupiter program.

Also attending the ceremony held outside the Fabrication Laboratory at ABMA were: Brig. Gen. J. M. Colby, Deputy Commander, AOMC; Col. T. T. Paul, Jr., Deputy Commander ABMA; Col. H. W. McDonald, Chief, Jupiter Liaison Office; Col. E. J. McRay, Jr., Chief, Program Control Office; Col. C. A. Heath,

Chief, Industrial Division, ABMA; Col. H. S. Newhall, Commander, OGMS; Lt. Col. E. W. Jordan, DCS, Logistics; Lt. Col. B. O. Montgomery, Director, Support Operations Division, ABMA; Lt. Col. G. H. McBride, Deputy Director, Training Division, ABMA; Eberhard Rees, Deputy Director, Development Operations Division; and K. K. Dannenberg, Project Director - Jupiter, Development Operations Division.

Dr. Colin M. Hudson, OCRD; Col. D. W. Allison, Assistant Chief of Ordnance Office, Program Coordination; Col. W. B. M. Chase, Assistant Chief of Ordnance Office, Manpower; Lt. Col. Joseph A. Thornton, Office of Assistant Chief of Ordnance, Manpower; Lt. Col. John T. O'Hea, Guided Missiles System Branch; Capt. Thomas J. McGrath, Office, Assistant Chief of Ordnance, Manpower; Col. G. B. Daughton, C. O. 865th Strategic Missile Squadron (JUPITER); Lt. Col. T. B. Stewart, C.O. Det I, 704th Strategic Missile Wing; Lt. Col. Walter Mullane, Deputy Chief, Jupiter Project Office, ABMA and Lt. Col. W. F. Kaiser, Deputy Chief, Control Office, ABMA.

J. I. Spaugh, Chief, Financial Management, ABMA; D. L. King, Chief, Legal Office, ABMA; Arthur Rudolph, Technical Director, Development Operations Division, ABMA; Gerhard Heller, Deputy Director, Research Projects Office, ABMA; Werner K. Kuers, Deputy Director, Fabrications and Assembly Engineering Lab, ABMA; Hans Hueter, Director, Systems Analysis & Reliability Lab, ABMA; Karl L. Heinburg, Director, Test Lab, ABMA; Erich W. Neubert, Director, Systems Analysis and Reliability Lab, ABMA; R. F. Hoel-



FOUR MEN OF THE AMBA Research Projects Laboratory who work in the area of satellite heat control are, left to right: Donald Cochran, Gerhard Heller, Bob Naumann and Bill Snoddy. Another prominent member of this unit is Dr. Klaus Schocken, not shown. Heller is deputy chief of the Laboratory, and head of the Fluid and Thermodynamics Sections.

ker, Deputy Director, Aerobalistics Lab, ABMA; Helmut Hoelzer, Director, Computation Lab, ABMA; William A. Mrazek, Director, Structures and Mechanics Lab, ABMA; Col. S. C. Holmes, Assistant Chief of Staff, R & D, AOMC; Col. J. S. Jeffers, Assistant Chief of Staff, Industrial Operations Division, AOMC; Dr. C. G. Quarles, Chief Scientist, AOMC; R. W. Cuthill, Chief Engineer, AOMC; Col. C. F. Nooncaster, Assistant Chief of Staff, Support Operations, AOMC; Col. C. G. Patterson, Assistant Chief of Staff, Military Application

and Training, AOMC; M. F. Rankin, Plant Manager in Huntsville for Chrysler Missile Division, and Maj. Henry Del Mar, Chief Transportation Office, AOMC.

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TEXT OF JUPITER IRBM ACCEPTANCE BY GEN. CALLAHAN

General Medaris, Distinguished Guests, Ladies and Gentelemen:

It affords me great pleasure, General Barclay, to accept from you as Commander of the Army Ballistic Missile Agency, this JUPITER model as a symbol of the delivery to the United States Air Force of the first tactical JUPITER Intermediate Range Ballistic Missile.

I know that to you of the Missile Agency, this is indeed a proud day. You have worked long and hard to achieve this milestone in the development of JUPITER as an effective tool in the national defense. The fact that you were able to reach this objective in such relatively short time is a significant achievement in weapons research and development.

We of the Air Force are mindful of the historic relationship we have enjoyed with Army Ordnance. Your Corps has many times furnished us with the weapons and ammunition essential to our mission, JUPITER continues that tradition of service to the entire Defense Establishment. You have been responsive to our requirements—the great missile present here has been designed to our operational concept.

You may be assured that Colonel Erlenbusch and the officers and men of the 864th Strategic Missile Squadron will make good use of this first IOC-JUPITER as they progress into the advanced stage of their pre-deployment training. I know that the Squadron has implicit confidence in the weapon, representing as it does the broad experience and demonstrated capabilities of the Ballistic Missile Agency.

I want to extend my personal congratulations to General Medaris, who activated this Agency in February, 1956, and who provided the dynamic leadership essential to the fulfillment of his urgent mission.

This ceremony seems to me to provide striking proof, if proof is needed, of the unstinting cooperation which is constantly being demonstrated between the

AUCTION HOUSE, W. Holmes St. — auction every Thursday night. Furniture sold off the floor each day of the week. If you have anything to sell we will sell it for you on 20 per cent commission. Phone JE 6-2241. ttc

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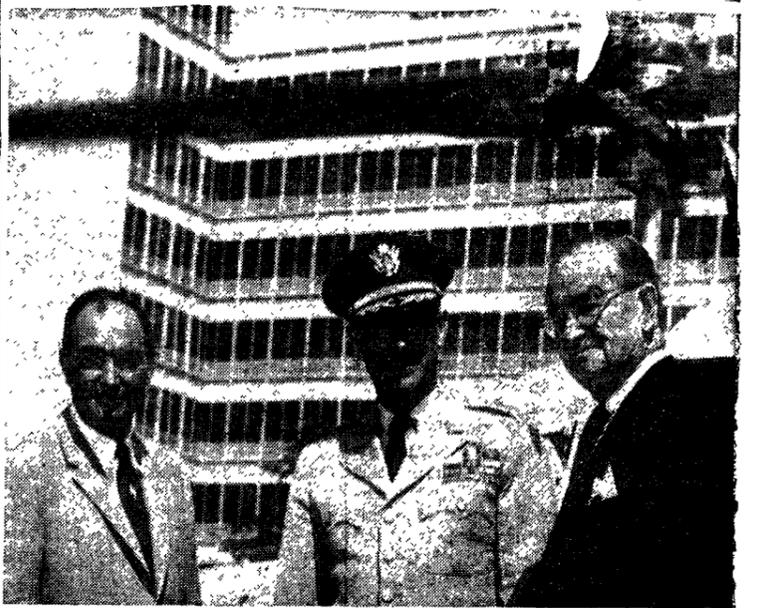
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ARMY MISSILE CHIEF VISITS NORTHROP — Maj. Gen. John B. Medaris, commanding general of the U. S. Army Ordnance Missile Command, Whitley C. Collins (right), president of Northrop Aircraft, Inc., and Dr. William Ballhaus, vice president and general manager of the Northrop Division of Northrop Aircraft, Inc., are shown as the general prepared to depart by helicopter from the Ambassador Hotel in Los Angeles to tour Northrop facilities at Anaheim and Hawthorne, California. General Medaris also was briefed on Northrop's capabilities in the missile field.

Army and Air Force as we move forward into the era when giant missile systems reach maturity. We have the same common goal — to serve the best interests of the nation — and that objective influences all our operations.

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HIGHWAY 31 SOUTH in city limits, brand new 3-bedroom house, with living, dining kitchen, carport, storage room, large terrace, gas heat, air conditioned. Extra large lot, only \$14,000, with FHA loan available.

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(Continued from Page 1)
 Executive Committee are proper, he observed, taking into consideration employees who do not live in Huntsville and Madison County, and recognizing needs of the military on post.

He emphasized that "our reputation in the community" will in large measure depend upon the campaign results.

"We should approach this objective with the same philosophy which has guided all our efforts—that what is to be done will be done expeditiously."

General Medaris pointed out employment on the Arsenal represents approximately one-half the population of Madison County. This requires, he stated, that the Arsenal should meet about 50 percent of the United Givers Fund budget for the county.

"The terrific impact of the Army's expansion here upon the community has created a very clear-cut responsibility for sup-

port of community endeavors," the General observed. "We have asked the community to help us; we must in like manner respond to the community's needs."

He told the group that "this community has withstood the impact of our expansion better than any other area I have ever seen. Granted there are some irritations, but the growth has been better controlled here than anywhere else."

The General said the Redstone drive has deliberately been separated from the community appeal so that "this is our own UGF drive" from which the communi-

ty will receive the Arsenal's contribution.

"Don't let up on the 'Fair Share' concept," he urged. "It is not unreasonable, we must face up to our responsibility properly, and tell every employe that the amount of money called for in the 'Fair Share' schedule is proportional to his income."

"If all give a 'Fair Share,' we would really establish our reputation locally as a desirable community asset."

Declaring that he is taking personal interest in the drive, the General admonished all supervisors and executives to do likewise.

"Let's get it over with prompt-

ly," he added. "Let's believe in what we are doing—charity begins at home and this is home. Our primary interest should be to improve the standards of the community, to increase the self-respect of those who need the community's help in misfortune."

He noted that a substantial amount of UGF funds supports youth activities and said Madison County has been successful to date in resisting the penetration of those "ills among youth which have beset metropolitan centers."

"We who are dealing so far out in the future with our projects," he continued, "owe a special debt to the less fortunate."

Executive Committee and Agen-

cy Chairmen attending the meeting were Alton R. Deschere, Rohm and Haas; S. A. Hymer, Rohm and Haas; William B. Hawkins, 7-MS; S. E. Kreger, OGMS; son M. Bolch, ARGMA; Lt. Col. J. L. Holley, Jr., ARGMA; Col. Owen T. McCloskey, RSA; Thurman C. Burns, RSA; C. T. Hereford, ARGMA; J. L. Abercrombie, Corps of Engineers; Richard B. Taylor, Thiokol; Gordon L. Harris, AOMC PIO; Col. Thomas Seigler, AOMC; J. C. Moquin, AOMC; V. C. Sorensen, ABMA; James F. Dowdy, ABMA; Lt. Col. Herman Rabinowitz, RSA; L. M. Brockman, Executive Secretary, UGF and S. H. Jones, Executive Secretary, UGF.

PERSHING MEET SLATED TODAY

A three-day conference on the Army's new Pershing solid propellant missile system will be held at the Army Ordnance Missile Command next week.

Maj. Gen. J. B. Medaris, Commanding General of AOMC, will open the Pershing Engineering Concept Review Wednesday at 9 a.m. About 200 people are expected to attend. General sessions will be held at the installation's Rocket Auditorium.

The meeting will bring together all agencies of the Army who are directly concerned with the Pershing system. Discussions will be held in such areas as research and development, production, training, deployment and maintenance.

The Pershing project was assigned to the Army Ballistic Missile Agency earlier this year. It will be a medium range, solid propellant, highly mobile missile which will eventually replace the nation's "workhorse" ballistic missile, the Redstone. Redstone was developed by Army Ordnance here and has been fielded with NATO Shield Forces in Europe.

Prime contractor for the Pershing system is the Martin Company, Orlando, Fla.

Col. G. G. Patterson, the Missile Command's Assistant Chief of Staff for Military Application and Training, will be in charge of the Pershing conference. Brig. Gen. J. A. Barclay is commander of ABMA, which also developed the Jupiter ballistic missile and is responsible for the Army's space program.

Prominent among visiting conferencees will be Col. C. E. Hobbrook, from the office of the Deputy Chief of Staff for Logistics, Washington; Col. M. W. Wood, office of the Deputy Chief of Staff for Operations; Col. M. B. Hudiberg, office for the Assistant Chief of Staff for Intelligence; Lt. Col. J. A. Ogle, office of the Chief of Research and Development. Col. K. H. Ewbank, Headquarters, Continental Army Command, Ft. Monroe, Va.; and Edward Uhl, general manager of the Martin Orlando division.

BIDS LET FOR HARDSTANDS IN OGMS CLASS AREA

Army Engineers have advertised for bids for the construction of two hardstands in the class area and one smaller hardstand in the unit training area at Redstone Arsenal, Huntsville, Alabama, for parking tactical vehicles used in the training program of the U.S. Army Ordnance Guided Missile School. Other facilities for the convenience of crews working with the vehicles will be constructed adjacent to the larger hardstands.

The work to be performed includes the construction of two hardstands 300 feet by 226 feet and one 290 feet by 75 feet; a drainage system; water and sanitary sewer lines; a small frame latrine building; an open frame shed with concrete slab floor; electrical work; and a security fence.

Bids for the job will be opened at the Corps of Engineers office, 2301 Grant Street, Mobile, Alabama, at 11 a.m., CST, on September 23, 1958.

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- Box (3 pairs-\$1.95 each) Hanes Nylons

● **PRIZES TO BE AWARDED FRIDAY, SEPT. 5TH**

- \$65.00 Ladies' Rotmoor Fall Suit
- \$15.95 Ladies' Fall Hat
- \$10.95 Margolin Handbag
- \$18.95 DeLiso Debs Shoes

● **PRIZES TO BE AWARDED SAT., SEPT. 6TH**

- \$65.00 Hart Schaffner & Marx Suit
- \$19.95 Man's Florsheim Shoes
- \$17.95 Ladies' Nelly Don Fall Dress
- \$10.95 Man's Dobb Felt Hat

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