

The Redstone Rocket

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VOL. XII; NO. 12

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

July 31, 1963

Happy
Birthday

MANY HAPPY RETURNS!

General McMorrow Says...

A Birthday Salute To AMC Family

General Besson Says...

UNITED STATES ARMY MISSILE COMMAND
OFFICE OF THE COMMANDING GENERAL
REDSTONE ARSENAL, ALABAMA

1 August 1963

TO ALL PERSONNEL OF THE U. S. ARMY MISSILE COMMAND:

The Army Missile Command is proud to be part of the Army Materiel Command team which is celebrating its first anniversary on August 1.

As one of the seven major subordinate commands of the parent organization, the Missile Command has contributed a number of significant achievements which have helped the Army's field forces to maintain a high state of readiness.

But we dare not pause to recount our achievements. We must push steadily forward to keep pace with the rapidly advancing technology of modern warfare.

We must continue to emphasize research and help push back the frontiers of knowledge, and further strengthen the bonds of the Army-industry team that has figured so prominently in our successes.

Our first year on the Army Materiel Command team has been a good one. As we go into another year prospects for the future are even brighter.

F. J. McMorrow
Major General, USA
Commanding

You might say that the Army Missile Command was born one of septuplets.

Every one of the infants survived. Not only did they live, but all are healthy and growing, as they observe a collective first birthday.

The other six members of the "family" are the Weapons Command, the Munitions Command, the Supply and Maintenance Command, the Mobility Command, the Electronics Command and the Test and Evaluation Command, all major commodity commands of the U. S. Army Materiel Command, activated a year ago tomorrow, Aug. 1, 1962.

The Army Missile Command used to be the Army Ordnance Missile Command and was a part of the Ordnance Corps. The Missile Support Command was the Army Ordnance Missile Support Command.

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UNITED STATES ARMY MATERIEL COMMAND
OFFICE OF THE COMMANDING GENERAL
WASHINGTON 25, D. C.

1 August 1963

TO ALL PERSONNEL OF THE U. S. ARMY MATERIEL COMMAND:

Today, the U. S. Army Materiel Command celebrates its first anniversary. One year ago we became operational, utilizing the reservoir of talent available from the Technical Services to fill most of our manpower requirements. The success we have achieved to date has been largely due to the drive and dedication of this highly skilled civilian and military workforce.

Our first order of business was to mold six different organizations into one—and to do this without interrupting the day-to-day materiel support of our Modern Army. This we have accomplished. All elements of the command are operational. We have introduced project management on an authoritative basis. And the materiel support of the Army has continued without disruption during this major reorganization of the Army's logistical system.

As we begin our second year of existence, I want to extend my personal appreciation to each of you for your support and assistance. With your continued dedication and zeal, I am confident we will meet the challenges of the future.

F. S. BESSON, JR.
Lieutenant General, USA
Commanding



LET'S CELEBRATE—Birthdays and birthday parties go together like peaches and cream—or missiles and rockets. When the artist was asked to come up with a picture showing the Missile Command's first birthday he naturally thought of a party. Since he couldn't sketch everyone in the Command he had to settle with the first table. From bottom left the celebrants

are: Col. C. R. Graham, Col. J. M. Loomis, Col. N. P. Dennis, Col. R. W. Van Wert, Col. D. F. Shepherd, Col. I. O. Drewry, Col. T. W. Cooke, Brig. Gen. H. P. Persons, Maj. Gen. F. J. McMorrow, Col. C. W. Eifler, Col. F. L. Furphy, Col. R. B. Braid, Col. E. V. Lau, E. C. Duckett, Col. O. M. Hirsch, Col. B. R. Luczak, and Col. W. W. Holmes.

The Redstone Rocket

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Rocket Ruminations

Words ought to be a little wild for they are the assault of thoughts on the unthinking.
—John Maynard Keynes

Boating Is Wonderful, If—

You need only watch weekend traffic heading out of Huntsville for nearby lakes and you will believe statistics showing a great increase in boating.

Since so many Redstone Arsenal employees are among the water enthusiasts, we feel called upon to again emphasize the need for full observance of rules of safety.

Use of common sense appears to span these rules. Wearing life preservers should be an automatic operation for any boatsman; pushing too close to another boat at high speed is not a recommended way to have fun; putting too many people in a boat is a sure invitation for trouble.

Remember, too, that all the danger isn't going to be on the water. Hauling boats along the highway can be a trial and tribulation to other motorists.

You'll win thanks of the non-boating motorist if you give him a chance to get around you on slow-moving stretches.

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PRESIDENT VISITS TWICE—President J. F. Kennedy came to Redstone Arsenal twice during the year since the Army Materiel Command was organized. His first visit was in August last year. He stopped by on Armed Forces Day to deliver a public message on one leg of a trip that took him to Nashville, Muscle Shoals, here and on to Washington. The crowd surges around him.

A BIRTHDAY SALUTE TO AMC FAMILY

(Continued From Page 1)

The Ordnance Corps has been around since the year the Declaration of Independence was signed—1775.

On its face, the Arsenal changed little when "Ordnance" disappeared from sight here as the AMC organization was activated. Internally, things changed quite a bit.

One of the most significant changes felt here was the establishment of Project Managers for missile systems. The Missile Command was activated with 19 missile systems—seven under project managers and the rest under commodity managers.

The project and commodity managers report to their respective deputy commanding general for land combat or air defense systems, except the Nike Zeus Project Manager. He reports directly to the Army Materiel Com-

mand.

Lt. Gen. Frank S. Besson Jr., Commanding General of the Army Materiel Command, said the project manager concept vests "... in a single individual, group or organization the sole line authority and responsibility for accomplishing the objective of his particular program ..."

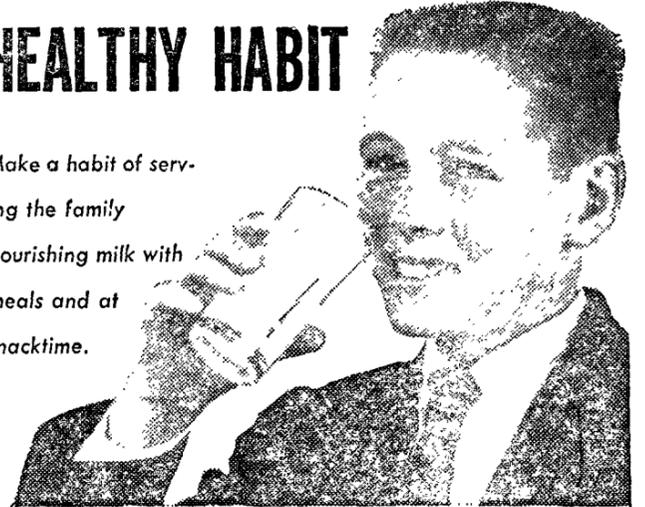
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This meant that the project manager here had the authority and responsibility to shepherd his missile system all the way from foal to field.

When reorganization was announced Maj. Gen. Francis J. McMorro, the Missile Command's Commanding General, assured the military and civilian employees here, as well as the vast contractor team, that "... a Missile Command by any other name is still the Missile Command and our mission is still the same—to provide the finest, most advanced missiles that technology can devise."

A YEAR REVIEWED

From here on out we're going to trace chronologically some of the changes and new things that have happened to the Missile Command since the Wednesday morning in 1962 when the technical services—symbolized by the bomb, the wheel and the signal flags—were merged into the Army Materiel Command.

Among the early changes were the names of the mission operating elements. Field Service Operations became Supply and Maintenance Directorate; Industrial Operations became the Directorate of Procurement and Production; and Research and Development Operations became the Directorate of Research and Development.

And while organizational decisions continued throughout the month, a decision of another kind was called for by Dr. Billy Graham who spoke at the Redstone airfield on the hot afternoon of Sunday, Aug. 26 while 35,000 people sat on the ground to hear his message.

Gen. McMorro said in September that the reorganization had progressed far enough for him to announce that some 1,200 civilian and military personnel would be transferred from the old operating elements to the project managers' offices.

Eight missile systems were singled out for Project Managers. They were Zeus, Hercules, Pershing, Sergeant, Hawk, Mauler, Lance and FABMDS.

The Sergeant Missile System, in celebration, scored three
(Continued on Page 5)

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Inertial Guidance, Navigation To Be Centralized

National President To Join Local AFGE Celebration

John F. Griner, national president of the American Federation of Government Employees, will be the featured speaker Friday evening at the local AFGE lodge's celebration banquet.

The visit here will be Griner's first since his election to head the national organization which now numbers about 130,000 federal employees. The local lodge, No. 1858, has the largest membership in the national organization.

Griner is expected to arrive in Huntsville late tonight. Tomorrow he is scheduled to visit and confer with key officials at the Army Missile Command, Army Missile Support Command, Ordnance Guided Missile School and Marshall Space Flight Center.

(See NATIONAL on Page 4)

British Missile Propellant Experts Are Visiting Here

A group of seven British missile propellant experts today (Wednesday) are continuing their two-day visit to the Army Missile Command.

The group is headed by Dr. Barry H. Newman, of the Defense Research Staff of the British Embassy in Washington. The officials are visiting the Missile Command to see and discuss various aspects of propellant work.

Others in the group include Dr. Ronald Campbell, G. J. Spickernell, Kenneth Silman, N. J. Morris, Stuart Gordon, and H. M. Darwell.

The group will visit the Research and Development Directorate Laboratory, Thiokol Chemical Co. and Rohm & Haas.



TOPS—The Army Missile Command's venerable Redstone Missile—its Commanding General—and the Redstone Arsenal Soldier of the Month. Together they celebrate the Command's first birthday. Aug. 1 marks the first anniversary of the establishment of the Army Materiel Command. This picture was taken in the lobby of the Missile Command Headquarters Building. Maj. Gen. F. J. McMorrow talks over the occasion and congratulates Pfc. Nolan Rayborn who is Soldier of the Month. With Pfc. Rayborn is his wife, Mildred.

Army-wide research and development of inertial guidance and navigation systems has been centralized at the Army Missile Command.

The action will lead to the establishment of an Army Inertial Guidance Management Technology Center at Redstone Arsenal.

The purpose of the center is to coordinate all Army research and development programs in the area of inertial guidance, navigation, stabilization and control, and to assist other Army agencies in both the management and technical aspects of the programs.

Lt. Gen. Dwight Beach, Chief of Army R&D, earlier this year directed that the center be established at the Missile Command.

The assignment to establish the center was given to the Army Inertial Guidance and Control Laboratory under the direction of Jess B. Huff. The laboratory is a part of the Missile Command's Directorate of Research and Development. At present, research and development work on inertial systems and components is done by several Army commands and agencies, who were ordered to coordinate all Army work in the field within the newly organized center.

Plans are for the center to participate with other commands in establishing the initial technical requirements for future programs, preparing the requests for proposals, and assist in evaluating the proposals and selecting the contractors. The center will also assist in the preparation of the technical development plan and furnish later assistance during the program definition phase.

Technical interchange between the various Army specialists on inertial guidance and navigation will be through a technical panel on inertial guidance which will meet quarterly to review the status of current programs, discuss problem areas, assess the state-of-the-art, establish future programs and requirements, and attack the problem of inertial testing techniques and performance specifications.

The first meeting of the technical panel was conducted last week at the Army Missile Command under the chairmanship of William V. Gudaitis, deputy director of the Inertial Guidance and Control Laboratory.

The center also has the responsibility for establishing a management and technology file on inertial systems and components. Work has started on an automatic retrieval system for this data. Once the system is available, an engineer at the center will be able to obtain all information on programs, systems, or components at the push of a button or the insertion of a punched card.

In addition, the center is de- (See INERTIAL on Page 4)

General Besson Grants Birthday Interview

Lt. Gen. Frank S. Besson, Commanding General of the U. S. Army Materiel Command, was interviewed by a radio correspondent for an AMC birthday program. Following is a partial transcript of the interview:

General Besson, you are observing today the first anniversary of the establishment of the Army Materiel Command. Will you tell us, General, how the Materiel Command came into being?

Gen. Besson: When the Department of the Army was reorganized last June to make it more efficient and effective, the Army Materiel Command came into being to manage all of the Army's wholesale materiel operations. Up to that time, providing the Army with weapons and equipment it needs to move, shoot and communicate was a task divided among six of the Army's technical services. That is the Quartermaster, Chemical, Ordnance, Signal, Transportation and Engineer agencies.

Does the Army Materiel Command do the work then, that was formerly performed by the technical services?

Gen. Besson: Yes, insofar as it applied to the materiel producing functions. We are responsible for all necessary research and development, testing, procurement, production, supply, maintenance and the operation of several laboratories, arsenals, proving grounds, depots, test facilities and procurement activities.

Simply stated, our mission in life is to cut the time it takes to get a weapon or new piece of equipment from the hands of the PhD's into the hands of the PFC's, and to do it by the most economical means.

Can you give us an idea of the size of your operation?

Gen. Besson: Our job, as you might surmise, is a big one. We are responsible for annual expenditures of around \$8 billion and we started with an inventory of weapons and equipment valued at \$23½ billion dollars. We employ some 177,000 people, military and civilian, in some 250 installations and activities throughout the country.

General Besson, as a result of the past year's activities, then, has the Army Materiel Command already accomplished what it set out to do?

Gen. Besson: Yes, I believe it has. We molded six different organizations into one and we have done this without interrupting the day-to-day support of our modern Army. We are adopting new and more efficient supply procedures and we are concentrating our research and development effort on what is really necessary in eliminating the frills and nice-to-have categories.

In short because of the centralizing of the management of Army materiel, the job is being done more efficiently and more economically than was possible in the past.

General, what would be an example of two of some of your major accomplishments during the year?

Gen. Besson: For one thing, we have taken several significant steps in eliminating overlapping of functions and duplication of activities. To cite just one illustration, we inherited 71 procurement offices in 41 different cities. We have begun a consolidation of such organizations with note worthy results. By combining procurement functions in Chicago, Los Angeles, and San Francisco, for example, we are saving over one half million dollars annually. More dramatic perhaps, is our work in the procurement field. Our efforts are geared to three areas: buying only what we need, buying at the lowest sound price, and reducing operating costs. We were given a cost reduction goal this past year of \$227 million and have exceeded that goal by \$25 million with an estimated savings of \$250 million for the past year.

In the next coming year our goal is approximately \$450 million.

AMSC Grants Lodge 1858 Exclusive Recognition

The U. S. Army has approved exclusive recognition of Lodge 1858 of the American Federation of Government Employees covering the U. S. Army Missile Support Command, Col. Thomas W. Cooke, AMSC Commander, and Dennis Garrison, AFGE president, said July 23.

Exclusive recognition means the AFGE local lodge will represent all eligible civilian employees of the Missile Support Command (approximately two thirds) in major negotiations and labor management relations.

The approval of exclusive recognition is based upon the fact that 59.8 per cent of the civilian employees of AMSC are bonafide members of AFGE.

Lodge 1858 has 1,526 bonafide

members among 2,552 persons eligible for membership.

The local lodge is the largest of more than 2,000 lodges which make up the American Federation of Government Employees.

The request was forwarded for approval to the Department of the Army with the endorsement of Maj. Gen. F. J. McMorrow, Commanding General, Army Missile Command, and Colonel Cooke.

The granting of exclusive recognition is based on President Kennedy's Executive Order 10988, which authorizes organized groups within the Federal services to be recognized on an informal, formal or exclusive basis.

Col. Cooke and Garrison said that Lodge 1858 has met all the (See EXCLUSIVE on Page 4)



INVITATION—Martha Perkins presents an invitation to her co-worker in P&P Documentation Branch, Paul Bolden, to attend the Lodge 1858, AFGE celebration banquet Friday evening. Bolden, the Missile Command's only holder of the Medal of Honor, and his wife will be the Lodge's honored guests at the affair. Mrs. Perkins is chairman of the hostesses for the banquet.

INERTIAL

(Continued From Page 3)

signed as the principal contact point for industry or other government agencies seeking information on current programs or future requirements. The center in turn, will coordinate with similar centers established by the Air Force, Navy, NASA, and the Federal Aviation Authority.

Other specialized facilities proposed as the result of the new assignment include an electric-power sled capable of testing inertial components and systems under accurately-controlled linear acceleration forces from 0 to 200 g's, and a digital-analog simulation facility which can be used to study and run performance tests on new inertial systems and components.

NATIONAL

(Continued From Page 3)

The banquet Friday will begin at 6 p.m. with a social hour in the Ft. Raymond W. Jones Armory, S. Memorial Parkway, followed by dinner and dancing. A highlight of the affair will be a presentation to Dennis Garrison, local lodge president, by Col. Thomas W. Cooke, commander, Army Missile Support Command, granting exclusive recognition to Lodge 1858.

Griner will remain in Huntsville overnight to attend the AFGE state convention here Saturday.

Alley, Dykes Participate In Meeting

The Army Missile Command's Directorate of Research and Development will be represented by two papers at the 19th meeting of the Interagency Chemical Rocket Propulsion Group at St. Paul, Minn. The meeting will be held July 30 through Aug. 1.

Both papers will be given by chemists from the Directorate's Propulsion Laboratory. Bernard J. Alley will talk about spectrophotometric studies of polybutadiene polymers, which are used extensively as binders to hold solid propellant castings together.

Hiram W. H. Dykes will present a paper on the application of thin-layer chromatography to composite double-base propellants. This is a method of separating different compounds in a solution, and is still relatively new in the field of solid propellants.

Alley received the MS degree in chemistry from the University of North Carolina, while Dykes received the BS degree in chemistry from Spring Hill College in Mobile. Both have been with the Propulsion Laboratory since the mid-1950's.

The interagency meetings are represented by all branches of the military, plus NASA and ARPA. The St. Paul meeting will be a



HIRAM W. H. DYKES



BENARD J. ALLEY

Working Group on Analytical Chemistry. The two papers from the Propulsion Laboratory are two of about 50 selected for the three-day meeting.

EXCLUSIVE

(Continued From Page 3)

requirements specified in the executive order, primarily that more than half of the employees of AMSC are members of the lodge.

The type of recognition accorded Lodge 1858, is the highest level of recognition called for in President Kennedy's executive order, which provides organized groups exclusive representation in the conduct of labor relations for civilian employees.

AFGE Lodge 1858 originally requested exclusive recognition on March 21, 1963.

To insure that more than half of the AMSC personnel were bonafide members of Lodge 1858, a neutral third party was engaged by the Army to verify and certify that all persons claiming membership were duly qualified and official members in good standing.

British Double Contingent At Missile Command

The British contingent of the Army Missile Command's Mauler Project Office more than doubled in size this week.

Four additional members of the Mauler management team arrived at Redstone Arsenal from the United Kingdom to study development of the frontline anti-aircraft missile system.

Already on hand at the Missile

Command were three British military officers: Lt. Col. Dennis Ewart-Evans, Maj. E. N. Clist, and RAF Squadron Leader A. McL. Cobban.

Just-arrived members of the team include Maj. D. P. Ballard, and Warrant Officers G. Pratt, R. Hammond and D. A. Betts. All are accompanied by their families.

Members of the international Mauler team are under supervision of Col. Ewart-Evans, who is serving as Assistant Project Manager for Mauler.

Mauler Project Manager for the Missile Command is Col. Norman T. Dennis.

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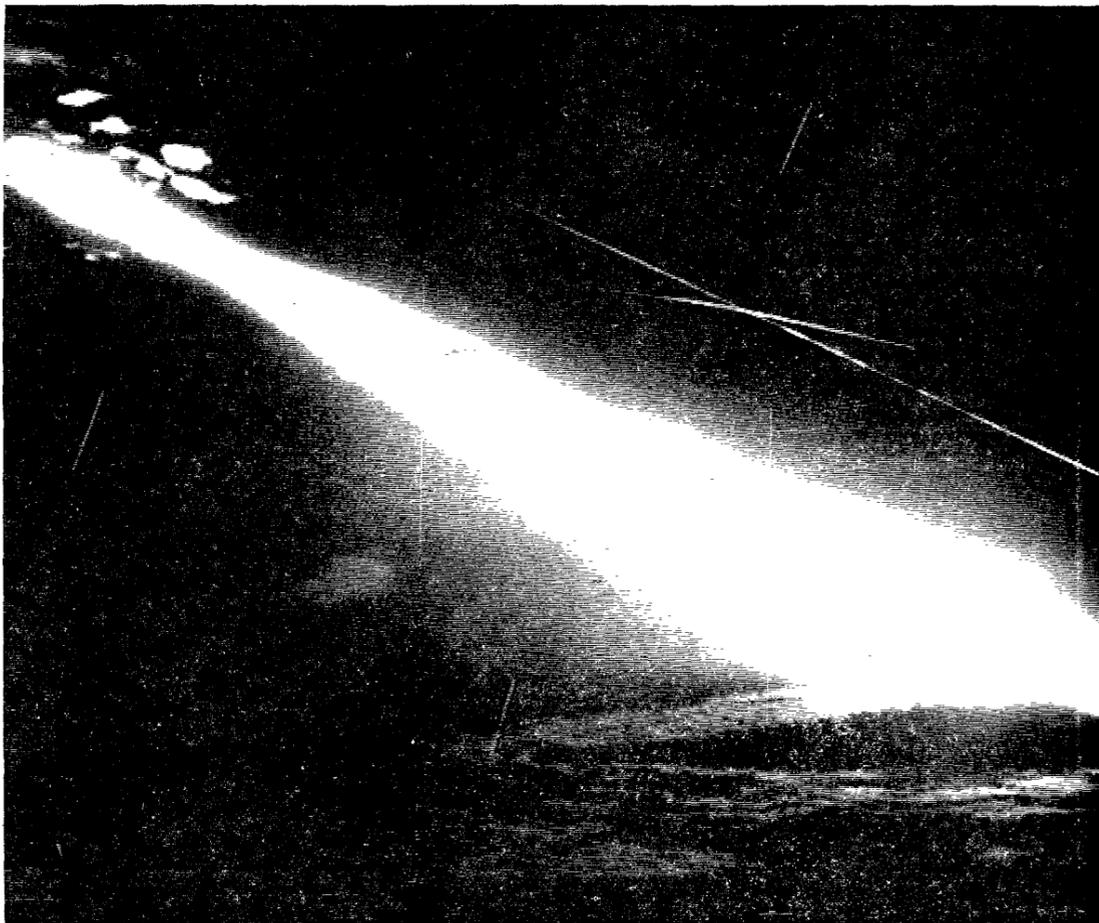
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DEATH OF A BIRD—Life is short and full of violence when you provide target practice for a firing squad as this little bird does. It is a Firebee target guided missile managed by the Army Missile Command to provide live targets for training the Army's missilemen. After each flight the dents are knocked out, damaged parts are replaced, and the target is sent aloft for more punishment. In this picture you see the beginning of the 28th flight by a missile that refused to give up. No other Firebee had survived more than 25. Minutes later it was pieces of scrap metal lying on the desert floor at White Sands Missile Range. Its luck had run out.



HISTORIC INTERCEPT—An X in the sky marks the intercept of an ICBM-boosted target vehicle by the Nike Zeus. A spot of light, created by a spotting charge in the Zeus nose, indicates the moment of intercept. The Army announced seven such intercepts during the year.

the Engineering Division of the Directorate of Procurement and Production, was elevated to the top position. He succeeded Col. H. H. Wishart, who was reassigned as Commanding Officer of Picatinny Arsenal.

JFK VISITS

The Missile Command was not yet two months old when it was host to President John F. Kennedy. He made his first visit to the Arsenal on Sept. 11, and thousands of Missile Command employees turned out on a blazing hot day to line his inspection route. It was the first look at the President for almost every Arsenal employee. In less than a year he was to visit the Arsenal again.

Accompanying the President were Vice President Lyndon Johnson, Secretary of Defense Robert McNamara, Secretary of the Army Cyrus Vance, Director of the Budget David Bell and British Defense Minister Peter Thornycroft.

A new single-starred flag was added to the Command in September when Brig. Gen. Howard P. Persons, Jr., a combat artilleryman and qualified parachutist became Deputy CG, Air Defense Systems.

Gen. Persons had been Commander of the 32nd Artillery Brigade (Air Defense) in Germany prior to being assigned to the Missile Command in July.

Another new Director was named in mid-September. Col. Robert W. Van Wert, who had been Dep-

uty Director of Supply and Maintenance, was elevated to the top position.

And about this time production began on the M-72 LAW. The first of the lightweight, one-man weapons was presented to Gen. McMorrow. The presentation was made by Maj. P. A. Pencola, the LAW Commodity Manager. The LAW is the Army's first "pocket rocket." It comes ready for use in a carrying case slightly over two feet long and provides the soldier with a weapon to destroy tanks, armored vehicles, concrete bunkers and log emplacements.

On Oct. 3 the Missile Command's ocean going birdwatch ship, the American Mariner, calculated astronaut Wally Schirra's impact point in the Pacific.

IN A WORD, "BUSY"

And, in early October, Col. O. M. Hirsch was named Acting Deputy Commander, Land Combat Systems. Col. Hirsch, who was Project Manager for Pershing and Commodity Manager for Lacrosse, took overall responsibility for all Land Combat Systems. These included Lance, Pershing, Sergeant, and the Commodity Managed systems; Redstone/Corporal, Honest John/Littlejohn, aircraft weapons/LAW and the anti-tank weapons. He capsuled his job for a Redstone Rocket reporter as "busy."

Mid-October saw the naming of two new Commodity Managers. Col. Daniel F. Shepherd was named chief of Target Missiles/Multi-system Test Equipment, and Lt.

Col. Frank C. Gay took over the Honest John/Littlejohn Office.

Also in October, the Pershing proved it was the kind of missile that didn't need the complex of concrete pads at Cape Canaveral. The Pershing was fired from sandy, unprepared soil using tactical equipment and this foretold a big event for the Pershing that was to come before the month was over.

On Oct. 31, a full month before planners had said it would happen, the first items of Pershing equipment were ready for acceptance by the Army.

While the Orlando, Fla., sun glistened dully off the olive drab missile, Col. Hirsch told a mass meeting of Martin-Marietta employees that the event represented a "significant achievement for the Army and the entire contractor team." He was seconded by Gen. Persons and Col. William J. Macpherson, Commandant of the Ordnance Guided Missile School.

SERGEANT JOINS RANK

While the Pershing—named after a famous general—was getting sworn in at Orlando, a Sergeant attracted as much attention 2,000 miles away. The Sergeant, another of the Army's new ballistic missiles, underwent its first tactical firing at White Sands Missile Range during October. On hand for that event were Gen. McMorrow, Col. John Aber, then Sergeant Project Manager; and representatives of the Federal Republic.

(Continued on Page 6)

A BIRTHDAY SALUTE TO AMC FAMILY
(Continued From Page 2)

straight successes during engineering-service tests.

And, about this time, the new Martin Road extension was opened to the cheers of harassed Redstone motorists.

The first new Army missile system to get underway after the reorganization was the Lance—it had been called Missile B. The Missile Command chose the Chrysler Corp. and the Chance-Vought Division of Ling-Temco-Vought to conduct program definition studies on the system which would replace the Honest John and the Lacrosse.

At the end of a 60-day program definition phase, Chance-Vought was given the go-ahead to develop the missile and its equipment under the technical direction of Col.

W. W. Holmes and his project management staff.

Lance was envisioned as a "new way of doing some things" in keeping with the "new look" of the Army. Among other things it became the first major Army system to use the program definition concept for the total system, the first major missile system to base R&D contract incentive fees on the entire R&D phase and the first major system to use across-the-board, PERT/COST management techniques which moves the computer out of the lab and into the front office where the managers are concerned with money, manpower and minutes.

During the first week of September, Col. E. V. Lau, Chief of

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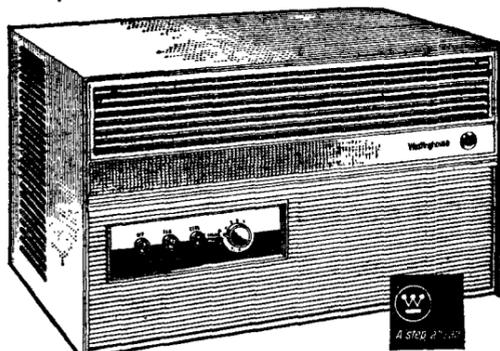
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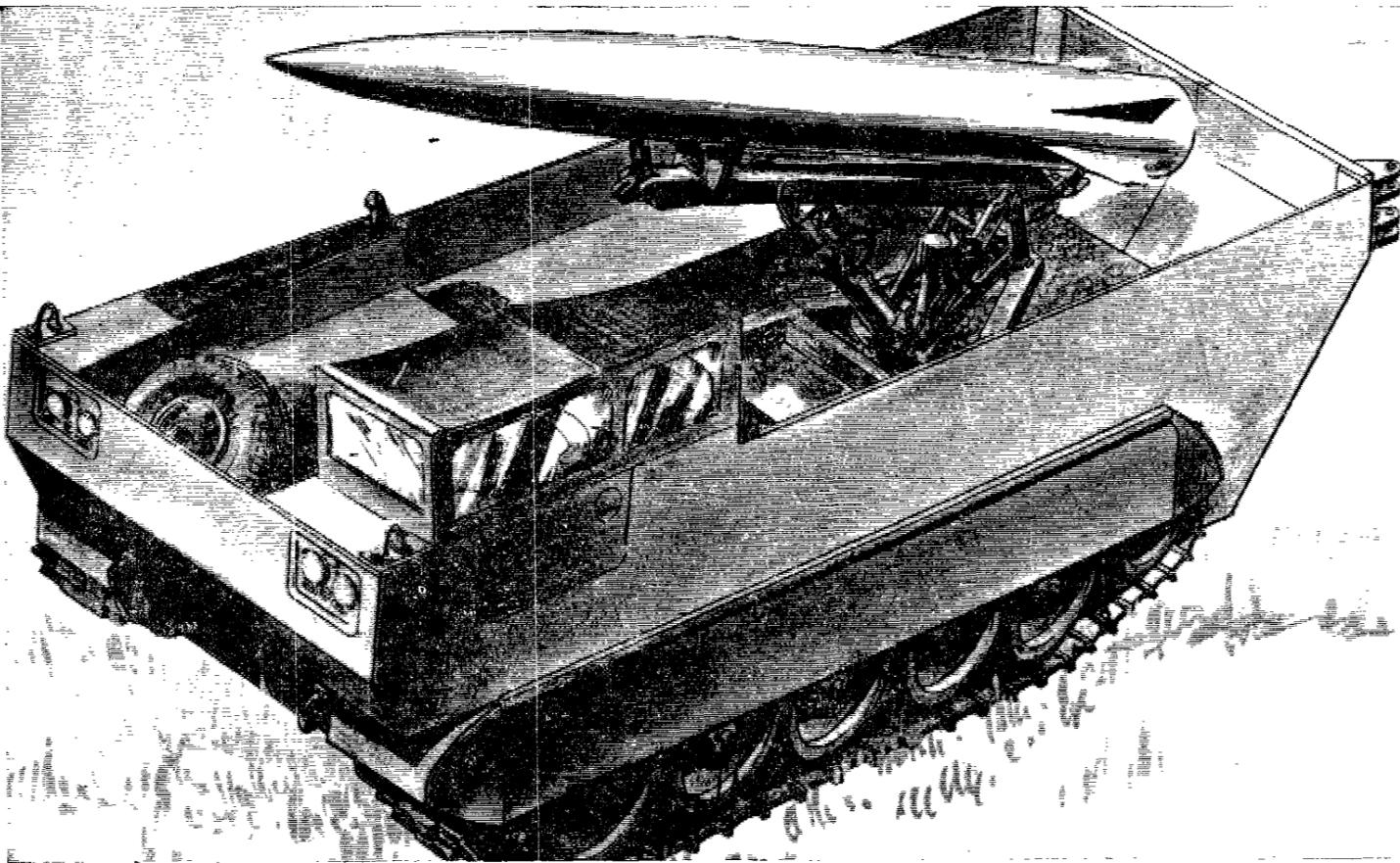


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LANCE MISSILE—During the year the public received an artists impression of the configuration of the new Lance missiles being developed by Army Missile Command scientists and engineers.

A BIRTHDAY SALUTE TO AMC FAMILY

(Continued From Page 5)

lic of Germany who had a very definite interest in the missile that would pull rank on their Corporals.

The German government announced during the day that they would buy the Sergeant for deployment as a part of the NATO defense. While the Germans were rechristening the Sergeant the "Unteroffizier," many people around the Missile Command were referring to their mobile ballistic missile as "The Last Argument of Kings."

And it was during October, when the Cold War took a sudden turn, that Missile Command personnel deployed to Florida to support air defense missile systems moved in during the Cuban crisis.

Gen. McMorrow was host to the Commanders Conference of the Materiel Command on Nov. 15-16. Nearly 50 persons, including Gen. Besson and the commanders of the Missile Command's six sister commands, attended the first big round table session at Redstone Arsenal.

In late November the Missile Command dedicated its new \$850,000 Computation Center which, among other things, can feed on hot firing data fed to it via microwave transmission from Redstone Arsenal's test ranges.

Just behind the Computation Center, work was underway on a new \$4,000,000 Research and Development Building which will give the Missile Command even greater capabilities to build better Army missiles.

ZEUS SCORES

Twice within the month of December the Nike Zeus launched smashing thunderbolts from man-

made Mount Olympus on tiny Kwajalein Island in the mid-Pacific. Two successful intercepts of ICBM launched targets were announced.

Kwajalein, unique among the world's launching sites, is on one edge of the Nike Zeus' hemispherical operations. Zeus missiles launched from Kwajalein are sent to intercept target nose cones boosted to ICBM range and velocity from Vandenberg Air Force Base on the California coast 5,000 miles away. The first intercept occurred in July, 1962.

During the last week of December the Zeus had nailed a target accompanied by decoys.

On Dec. 31 the Sergeant Project Manager's office underwent a top level change when Col. J. Mort Loomis was named to succeed Col. Aber as Project Manager. Col. Aber was retiring from the Army after 27 years.

And, on Jan. 11 Gen. McMorrow voiced the theme of the Missile Command when he told the Florida Chapter of the American Ordnance Association that in five years the Army had transferred missiles "from the hands of the PhD's to the PFC's." He added, "There were voices raised not long ago which contended soldiers simply could not master the complexities of missilery . . . what has happened is that in a few brief years the Army has developed and fielded a family of missiles tailored for a specific job and capable of providing a flexible response."

While some Pershing tests were being carried on in January at the launch pads among the palm trees, other test crews from the Missile Command were slogging

the bird through the snows of Alaska 120 miles south of the Arctic Circle, in temperatures ranging from 65 to 125 degrees—below zero.

NIKE X ARRIVES

In mid-January the Nike Zeus Project Office got the go-ahead for a new and more advanced version of the long-range ICBM killer. Secretary of Defense McNamara told Congress he was requesting money for the Nike X System. The new system would be based on the principles and basic hardware of the Nike Zeus System, but would have greater capabilities. Among other things, it would add a new radar—the MAR (Multi-function Array Radar) and the Sprint Missile which would be shorter and faster than the 48-foot Zeus. Nike Zeus testing was to continue—and, before the first anniversary of the Materiel Command rolled around, a lot more was to be heard about its tests in the tropical skies over Kwajalein Island.

On Jan. 31, the Missile Command celebrated an anniversary of another kind. It was the fifth birthday of the launching of Explorer I, the Free World's first satellite. The 18.13 pound "baby moon" was put up by the Army in 1958 and is still circling the earth, though mute because of frazzled batteries. It was launched by a Jupiter C which was a modified version of the Redstone Missile.

In late January, Col. B. R. Luczak—Deputy to Gen. Persons—became Nike Hercules and Ajax Project Manager. He succeeded Lt. Col. Joseph Baer who retired from the service.

On Feb. 15 it was announced that Col. Charles Eifler, a former Commandant of the Ordnance Guided Missile School, would become Deputy Commander of the Missile Command for Land Com-

bat Systems. Col. Eifler had recently been nominated for Brigadier General.

The Army in late February said the Sergeant would be moved to tiny San Nicholas Island off the coast of California to undergo firing tests in a salt laden atmos-

phere. It would be the first tests for the missile at sea level. They were successful. Previous tests had been held at altitudes in excess of 4,000 feet.

During the first week in March the Army designated the Nike Zeus Project Office as a Class II Activity—making five major organizations at Redstone Arsenal. The Project Office would report directly to Gen. Besson, chief of the Army Materiel Command. The change underlined the importance attached to the development of an anti-ICBM system.

The Department of Defense said on Mar. 13 that the Sergeant would be deployed to units of the Army in Europe beginning in the spring. The Sergeant was pulling rank on Corporal which had been in the field in Europe for six years.

A week later the Martin-Marietta Co. was named as contractor for the Sprint Missile which will be a major part of the Nike X Anti-missile System.

While the Sergeant was being tested on the West Coast, the Pershing Project Office announced its system would make an overland run from the Martin plant in Orlando to the firing site at Cape Canaveral—a distance of about 60 miles.

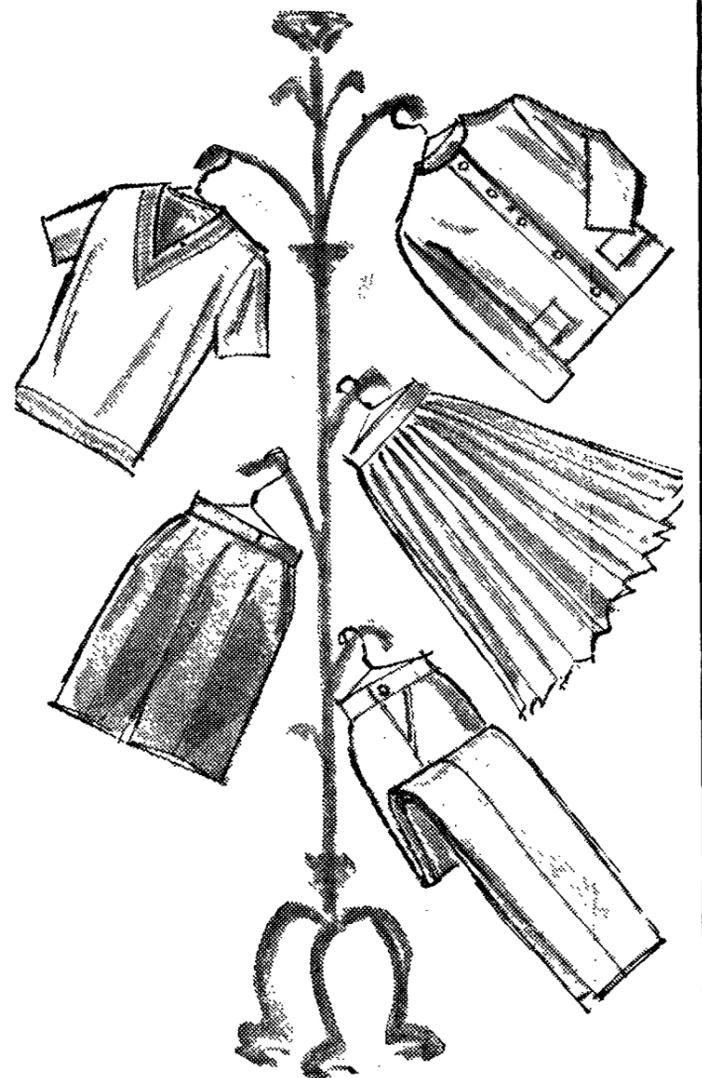
The first action photos of the Shillelagh were released about the first of April. They showed the torpedo-like missile during a successful firing at White Sands Missile Range.

And, on Apr. 4 the Nike Zeus, which had already intercepted three Atlas-launched targets, tried one launched by a Titan I from Vandenberg Air Force Base. The results were the same—a success-

(Continued on Page 7)

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ful intercept.

TRAFFIC SURVEY

It was about this time that the Missile Support Command took a hard look at the Arsenal's traffic problem in order to figure out what should be done. Among other things, the survey revealed that the opening of the new Main gate less than a year earlier hadn't significantly decreased traffic in the other gates. But, it did absorb the increasing traffic that averaged 45 new registrations a day. It discovered that one of the main reasons for traffic problems was the fact that the car pool average was only 1.5 persons per car.

Late in April the Pershing bore out what Gen. McMorrow had said earlier — that the Missile Command was taking missiles out of the hands of PhD's and putting them in the hands of PFC's.

It was on Apr. 17 that the needle-nosed "Long Tom" of Army ballistic missiles truly went tactical. A Pershing firing battery from Ft. Sill took the system through a successful firing at Cape Canaveral. But first they ran it through a tactical road march over five miles of some of the roughest Florida countryside that could be found on Cape Canaveral.

The Missile Command got its third new director in late March. He was Col. Daniel Shepherd who was named Director of Research and Development on the transfer of Col. R. W. Burkett to the Weapons Command. Col. Shepherd had headed up the Multi-system Test Equipment/Target Missiles Commodity Office.

Lt. Col. Willis Clark of the Mauler Project was named MTE/TM Commodity Manager.

The Sheridan-Shillelagh Project Office's Missile Engineering Division was established at Redstone Arsenal in early May. The Project Office was established and transferred to the Weapons Command at Rock Island Arsenal, Ill.

JFK CALLS AGAIN

Armed Forces Day, 1963, will be remembered a long time by a lot of Redstone Arsenal employees and people who live in the Huntsville area. President Kennedy made his second visit in less than a year—and the Arsenal was opened to the public for the first time during a Presidential visit. The President spoke to about 10,000 persons.

On June 1, the officer who had seen the Hawk Missile System through most of its NATO-Hawk phase retired. He was Col. Harry Murray, a veteran of 30 years service who had been the NATO-Hawk Liaison Officer before becoming the Project Manager.

Col. Murray was succeeded by Col. Charles Graham, a 22-year veteran.

President Kennedy had twice seen Redstone Arsenal, home of Army missiles, during the year but on June 5 he saw the hometown team in action. Under a searing sun at White Sands Missile Range, the President witnessed a perfect program. In quick succession he saw an Honest John smack a hillside target seven miles away and set it ablaze; a Littlejohn arrive in helicopter transport, emplace and flash away; a Sergeant trace a curling contrail in the sky as it sped up-range to a target; a Hawk gobble a drone jet fighter plane, a Hercules kill another Hercules 15 miles up and a Nike Zeus shake the desert floor as it bolted from a launch cell in a thundering finale.

The Nike Zeus Anti-missile Missile System during the month of June tagged Titan I and Atlas launched targets over Kwajalein Island. These were successes five and six announced for the system.

As its first birthday was drawing near, the Missile Command lifted the wraps slightly on the Lance. A classified engineering concept review was held at Redstone in mid-June and included a demonstration of full-scale operational mockups of the surface-to-surface weapon system.

SHAPING UP

On June 26 a new word, "Chez Pup," came into the Redstone Arsenal vocabulary. The word stood for the biggest emergency evacuation project ever to be held

at Redstone Arsenal.

The purpose of Chez Pup (pronounced Shape Up) was to test the effectiveness of the Arsenal's passive defense plans.

The big test was to come a month later on an unannounced date.

Nike Zeus topped the news again on July 17th with the announcement of its seventh intercept of a target vehicle launched by an ICBM. The announcement of the seventh intercept came just two days before the anniversary of the first intercept on July 19, 1962.

And during the same week the first Pershing missile unit to be trained for deployment with the system made its debut at Ft. Sill.

July 18th was Chez Pup day—and to make the whole operation more realistic it rained the proverbial felines and canines. Some 20,000 Arsenal employees cleared their desks and locked their safes when the siren blew at 4 p.m. and filed off the Arsenal. But, for nearly 100 troops and

dependents the siren meant the beginning of a night and day in two igloos deep in the Arsenal.

And, on July 24, as the first year of the Missile Command drew to a close, one of its youngest missile systems made news. The announcement was made that the Mauler, designed as a traveling companion for the front line soldier, had made its first guided flight. The firing was conducted at White Sands Missile Range.

A BUSY YEAR

Hardware had made the news the first year but it hadn't told the story of the management changes and improvements that marked the passage of the Missile Command's first 12 months. Behind the headlines men and women, in and out of uniform, were learning the ropes of project management and getting on with the business at hand. And while the vertically-organized project staffs were tending their high priority assignments, the Missile Command's functional organization was providing the base on which the new structure was built.

In the Command's directorates, there were new programs and new



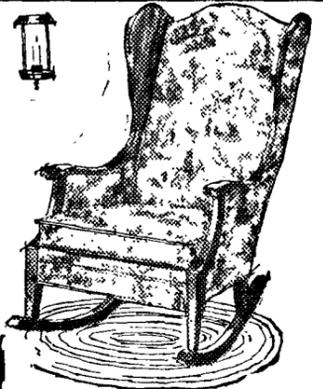
MAYOR MEETS GEN. BESSON—Maj. Gen. F. J. McMorrow, Commanding General of the Army Missile Command, introduces Lt. Gen. Frank S. Bessen, Commanding General of the Army Materiel Command, to Huntsville's Mayor R. B. Searcy.

tasks, management improvements were names that became familiar and studies. TOW and AADS-70 (Continued on Page 9)

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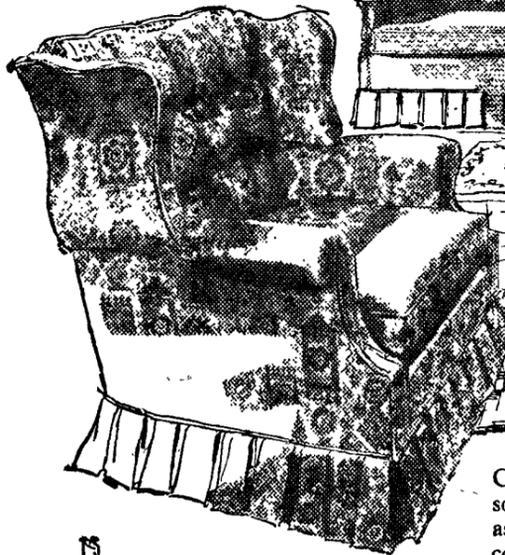


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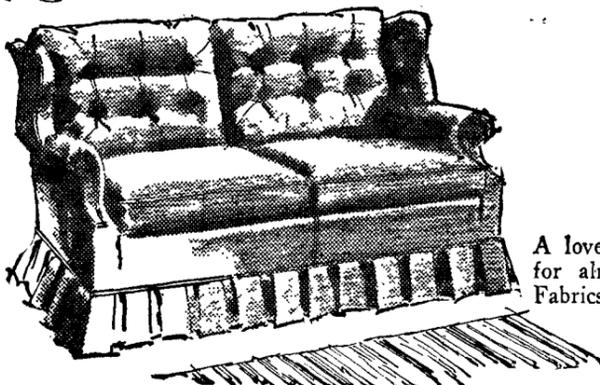
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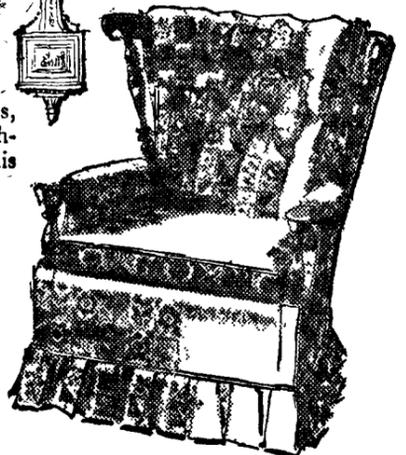
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Scoreboard

The Redstone Rockets had a busy weekend when they took on the Huntsville Mets and the Huntsville Hawks July 19 and 21 respectively.

July 19th Bob Gawelok turned in a fine pitching performance by allowing the Huntsville Mets only two runs on four hits. The Mets picked up their runs in the third inning when pitcher Dick doubled and scored on a third strike and a wild throw.

The other run came in the seventh (7) when Lewis, the Mets Second sacker tripled and scored on an error.

Redstone's runs were pretty much spread out. They came about usually when a man was walked. The walk was followed by back to back singles. The Mets couldn't control the Rockets bats. Final score Redstone (7) Huntsville Mets (2).

HUNTSVILLE METS

ab	r	h
Newby, cf	3	0
Ruff, ss	3	0
Backer, ss	1	0
David, 1b	3	0
Sanders, rf	4	0
Bobby, 3b	4	0
Seay, c	4	0
Zet, 2b	2	0
Lentis, 2b	2	1
Perry, lf	2	0
Person, lf	2	0
Dick, p	1	1
Reedus, p	2	0
TOTAL	33	2

REDSTONE ROCKETS

ab	r	h
Sabourin, rf	2	2
Davis, c	5	1
Anderson, ss	3	1
Gebhard, 2b	3	0
Woletz, lf	4	0
Burkes, lf	1	0
Aughtman, 3b	4	0
Edmonds, 1b	3	1
Lyles, 1b	0	0
Parker, rf	2	2
Adcock, rf	1	0
Gawelko, p	2	0
TOTAL	30	7

Mets 0 0 1 0 0 1 0 0-2
Rockets 1 2 0 1 1 0 0 2X-7

On July 21st Redstone coming from behind in the sixth inning

overcame a four run lead by the Huntsville Hawks by scoring six runs in the inning. Redstone also got three more runs the following inning to bring the score to 11-6 in favor of the Rockets.

The Hawks made two last bids, one in the seventh inning and the other in the ninth but neither effort failed to materialize. The result was another victory for the Rockets. Final score Redstone (12) Huntsville Hawks (8).

HAWKS

ab	r	h
Nip, ss	5	1
Bennie, cf	4	1
Brooks, 2b	4	1
Helden, c	5	0
Benfold, 3b	3	3
Lightford, lf	4	1
Moore, 1b	4	0
Miller, rf	4	0
Miller, B., p	3	1
Flattop, p	1	0
TOTAL	37	8

ROCKETS

ab	r	h
Aughtman, 3b	3	2
Sabourin, c	4	3
Anderson, ss	3	2
Gebhard, c	5	2
McNutt, cf	5	2
Woletz, lf	3	0
Edmonds, lb	2	0
Lyles, 1b	2	0
Parker, rf	4	0
Downing, p	1	1
Drabczyk, p	1	0
TOTAL	33	12

Hawks 0 1 0 0 5 0 1 0 1-8
Rockets 1 0 0 1 6 3 1 0 X-12

July 23 saw Redstone take on the Hartselle Packers in what proved to be the Rockets closest contest of the season. The Rockets in the third inning were ahead by 3-1 but in the top half of the fifth the Packers came up with three runs to go ahead 4-3.

In the bottom of the sixth Redstone managed to squeeze in two more runs to go ahead 5-4.

The Packers batting in the top of the seventh failed to score and the Rockets chalked up another victory. Although the Packers got only four runs there were only two hits. This was due to the excellent pitching of Starter Pfc Glenn Richter and Ed Drabczyk who came in as relief in the fifth

JUNIOR GOLFERS BEAT THE PRO

Junior Golfers sponsored by the Golf Group of the Redstone Arsenal Officers Wives Club played an "I Beat Mac" (the pro) tournament last Thursday at the Redstone Arsenal Golf Course.

Two beat James McClure: Charles Graham and Dan Schors-ten.

The younger members of the group had a dog fight. Winners were Buster Cobb, Timmie Thompson, Rita McClure, Wayne Poole and Dianne McClure.

NOTICE MILITARY AND DEPENDENTS

Individuals or teams interested in fall season bowling should start teams or leagues now to prepare and plan for fall. Competition begins in September. It is planned to have two leagues nightly Monday through Friday, first league to begin at 6 p.m. and second league to start at 8:30 p.m. Election of league officers and formations of teams should be completed before Sept. 1. The Redstone Arsenal Bowling Lanes will assist in forming teams or leagues.

PACKERS

ab	r	h
Morgan, 3b	3	1
Long, ss	4	0
Wallace, 2b	2	0
White, c	2	0
Lindsay, cf	3	0
Stephensen, lb	3	0
Speegle, rf	2	1
Segars, lf	3	1
Luter, p	2	1
TOTAL	24	4

ROCKETS

ab	r	h
Aughtman, 3b	3	1
Davis, 1b	3	1
Anderson, ss	3	1
Gebhard, 2b	2	0
McNutt, cf	3	1
Woletz, lf	3	0
Sabourin, c	2	1
Parker, rf	3	0
Richter, p	1	0
Drabczyk, p	1	0
TOTAL	24	5

Hartselle Packers	0 0 1 0 3 0 0 XX-4
Redstone Rockets	0 0 3 0 0 2 X XX-8

Next Weeks Schedule
The Rockets will play host to Fort Campbell here July 29th and Aug. 30. The time will be 7:15 p.m. Check the Rocket for future sports highlights.

Softball Scoreboard

Hq. STC 4-Co. "A" OGMS-3
Officers 18-Hq. UTC-4.
291st MP 7-Hq AMC-0.
Co. "B" OGMS 19-Med. Det.-6.
All other games were postponed because of rain.

LEAGUE STANDINGS

TEAM	W	L	PCT	G.B.
Hq AMSC	23	3	.885	3½
Co "A" OGMS	20	7	.741	6
Officers	18	10	.643	10½
Med. Det.	13	14	.481	10½
Hq AMC	13	15	.481	11½
Co "B" OGMS	12	15	.444	12
291st MP Co.	11	14	.423	12
Hq UTC	8	18	.308	15
Hq. STC	7	20	.25	16½

Bowling

MEN'S SUMMER LEAGUE

Team	Won	Lost
Raiders	23	5
Pin Blasters	20	8
291st	17	11
Ohms	14	10
Hq's STC	10	14
Section-Ates	10	18
Celler Dwellers	11	17

High Team 3 Games:
Raiders-2750
High Team Game:
Raiders-979
High Ind. 3 Game:
Gozdecki-638
High Ind. Game:
Gozdecki-271

MIXED COUPLES LEAGUE Friday Nites

Team	Won	Lost
Team No. 1	19	9
Team No. 2	19	9

Pistol Team Keeps Adding Trophies To Post's Case

The Redstone Arsenal Pistol team has had a busy month. On the 4th of July they competed in the South Central Regional Pistol Championship winning the center fire team match in the expert class, and brought home the trophy for the high post, camp or station team.

Firing members of the team were Capt. Peter G. Neilson, headquarters and Headquarters, School Training Command; SFC Wesley Johnson, Co. C, School Training Command; SFC Elmer Biel, Medical Detachment, and PFC Stephan Mihalak, Headquarters Det., Army Missile Support Command.

PFC Mihalak placed in the expert class in individual match competition.

Capt. Neilson won five points on two seconds in the sharpshooters class, losing the grand aggregate by one point.

PFC Donald Stadelman won five firsts in the marksman class.

At Shreveport La., for another regional match, PFC Milalak won five first places in the expert class; PFC Stadelman won four places in the marksman class and Capt. Neilson won five firsts, two seconds, and four thirds in the sharpshooter class including first in the grand aggregate.

In the match at Redstone Arsenal, M/Sgt. Ronald Martin, Headquarters, Army Missile Command, took second with the .22 pistol in the master class.

Shooting as an expert, PFC Mihalak won several places and Capt. Neilson won all matches in the sharpshooter class with PFC Stadelman shooting second.

The match was won by Capt. Army Advance Marksmanship

participate in the COUNCIL Internationale du Sporte Militaire (CISM) at Helsinki, Finland as a member of the U. S. Team.

SFC Biel, team captain, stated that the team will be at Camp Perry, Ohio Aug. 1-10 for the annual National Matches.

Nike Zeus Successfully Performs

The Army said Friday its Nike Zeus anti-missile missile system performed successfully in a test firing at White Sands Missile Range.

The 48-foot missile was launched from a cell at the desert launch site.

Col. I. O. Drewry, the Nike Zeus Project Manager, said the flight went according to plan. Test objectives were met.

The Nike Zeus ground radar and computer equipment put the missile through a series of maneuvers, including a number of severe dives.

Both the main propulsion system and the third stage "jet head" of the missile were fired during the flight.

Continued testing of the Nike Zeus equipment will aid in development of the new Nike X anti-missile system, said the Army. The Nike X system will be an advanced version of the Nike Zeus with even greater effectiveness.

Western Electric is the Nike Zeus and Nike X prime contractor.

Smallbore Riflemen Shoot In South Central Matches

The Smallbore Rifle team from Redstone Arsenal brought home 16 awards in the South Central Prone Regional Match at Asheville, N. C. July 20-21.

Master shooter S/Sgt. Obie S. Mueting, took the 100 yard any site first award.

Sharpshooter SP5 John R. Violette brought back six firsts: the 50 meter iron sight match; the 100 yard iron sight match; the iron sight aggregate; the 100 yard any sight and the any sight aggregate to sweep the field for the grand aggregate.

Marksmanship CWO Harley G. Win-

terrowd also brought home six firsts: the 50 yard iron sight; the Dewar iron sight, the NRA (50 yard and 50 meter total), the iron sight aggregate, the Dewar any sight and the grand aggregate.

Marksmanship SP5 Nicholas DiMona had three firsts: the 50 yard any sight, the 50 meter any sight and the any sight aggregate.

The team members are in Company B, School Troop Command with exception of CWO Winterrowd who is in Headquarters and Headquarters of the School Troop Command.

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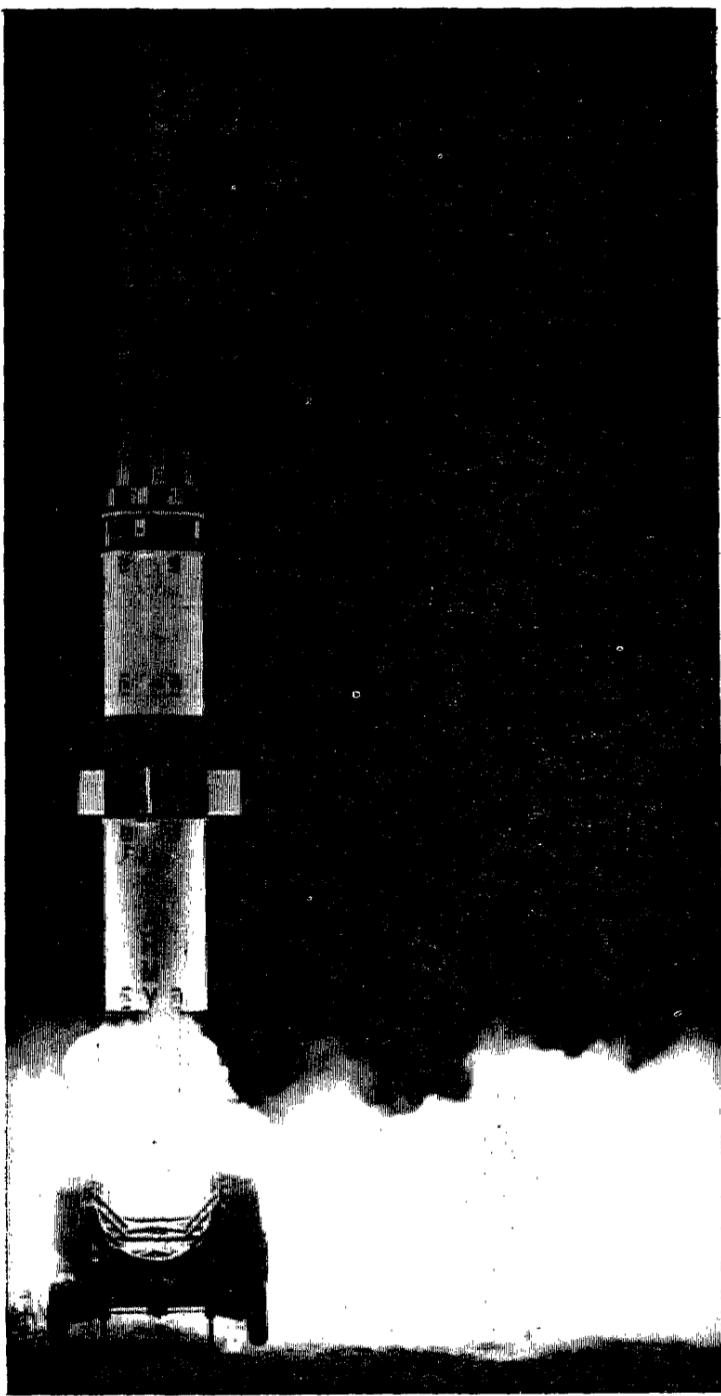
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PERSHING HAS BUSY YEAR—From successful Operation Deep Freeze testing in Alaska, Pershing missiles moved to Panama for tropical tests. In the meantime, the tests at Cape Canaveral continued to set records for successful firings.

A BIRTHDAY SALUTE TO AMC FAMILY
(Continued From Page 7)

in the R&D Directorate and other places as well. R&D found itself deeply involved in specialized research tasks, much of it highly classified. At P&P there was a continuing stress on making the portion of the defense dollar allotted Army missiles go further in emphasis on standardization and value analysis, breakout and assistance to small business. Typical of the ef-

fort was a study conducted during the year by the DOD and Internal Standardization Office of the directorate. A year long examination of missile items in stock had tangible results: elimination of duplicate and obsolete items, substantial cost saving in yearly maintenance and storage costs.

This was also the year of ADRES, the Army Data Retrieval Engineering System, kicked off by P&P's value engineers and given enthusiastic welcome by industry. Great things were predicted for the automated system which provides design engineers readily available information on thousands of missile parts.

Best friend of the missileman in the field, the Command's Directorate of Supply & Maintenance embarked on several projects aimed at providing the soldier even better equipment and services.

A review board for procurements amounting to \$100,000 or more consisting of highly exper-

enced specialists was established and publication of a maintenance digest containing the latest information on missile system maintenance begun. As up to date as a newspaper, the digest is sent directly to missile units thus shortcutting the lag time from publication to dissemination.

S&M also came to the aid of the soldier—and his time-pressed commander—by reviewing and revising preventive maintenance service check lists which tabulate the checks a maintenance man and operator must make to assure their weapon system is in top operating condition.

An immediate result: elimination of many man-hours formerly required in checkout of certain operational systems.

And so it went in the first year of the Army Missile Command.

Crammed with significant events and studded with achievements, it was an exciting 12

months. The names had been changed, the reorganization accomplished, the mission remained and "the finest, most advanced missiles that technology can devise" were being provided. The Missile Command in short, got on with the job.

ENGINEERING JOBS UP 8%

Engineering jobs in the Federal Government increased almost 8 percent between October 1959 and October 1960, to move into second place among major fulltime white-collar occupational groups. Totaling 101,626 on October 31, 1960, they accounted for 6.8 percent of the nearly 1.5-million white-collar jobs. This and other Federal employment data was published in the fifth edition of "Occupations of Federal White-Collar Workers" published by the Civil Service Commission.

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SOCIAL ^{and} CLUB EVENTS

Yacht Club Sponsors Trip

The Redstone Yacht Club sponsored a boat cavalcade to Chattanooga last weekend with seventeen boats carrying approximately 50 people participating.

During the overnight trip, the boats visited Lake Chicamauga and the Hamilton County Park where some of the party stayed.

The others stayed at the Lake Shore Lodge—a boatmotel.

Reports afterward were that the water was smooth and the rain missed the party although once or twice they were sprinkled lightly.

PAN-HELLENIC TEA

Girls planning to attend college this year, and their mothers, are invited to a Huntsville-Madison County Pan-Hellenic tea and fashion show from 2 to 4 p.m., Saturday, Aug. 5 in the Huntsville Community Center.

Sixteen sororities will have booths at the event where girls

Capt. Bauer, Mrs. Scott Win At Bridge

Eight tables were in play at the Monday Party Bridge group meeting last week at the Squirrel Hill Officers Club.

Capt. Hugh A. Bauer was high for the men; Mrs. Robert Scott for the women.

Scoring seconds were Mrs. Eugene Krembs and Mrs. H. A. Matthews.

Reservations to play with the group may be made with Mrs. Jerry Maloy, 877-3933.

can meet representatives of the various groups and discuss sorority life on different college campuses.

POST EXCHANGE OBSERVES 68TH ANNIVERSARY

It seems like the week for birthdays.

While the Missile Command was getting ready to celebrate its first birthday this past week the Post Exchange service was celebrating its 68th—and giving away free coffee and cake at the Redstone Arsenal outlets.

The PX birthday was July 25. The service was started back in 1895. Today it is active around the world.

Beside passing out coffee and cake, the PX also held sales at its stores.

And 17 PX employees received service pins. Fifteen 5-year pins were awarded, while 10-year pins went to Rosie Hewett in the Troop Area PX and to Walter Moore who operates a PX mobile unit.

PURDUE ALUMNI PLAN CHAPTER

Alumni of Purdue residing in the Huntsville area are planning to organize a local alumni chapter.

Former students of Purdue are urged to call Bill Corcoran, 539-0794, or R. J. Schwinghamer, 876-5243, so that their names may be added to the Purdue alumni roster.

As soon as this listing is completed, Mr. Corcoran said, an organizational meeting will be scheduled.



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Materiel Command Procurement Offices Save \$17.3 Million

Maj. Gen. E. J. Gibson, Director of Procurement and Production, reported a cut in cost-plus-fixed-fee contracts to half the amount experienced under the former Technical Service organization, to Lt. Gen. Frank S. Besson, Jr., Commanding General, Army Materiel Command.

The report covers the first year of AMC operation. AMC, the largest and most complex element created by the recent reorganization of the U. S. Army, celebrates its first anniversary Aug. 1.

Upon activation, AMC embarked on a program to reduce CPFF contracts by shifting to firm fixed price and other types of contracts with incentive features. The reduction went from 43 per cent of total dollars under procurement to 19 per cent.

"In keeping with the principle of buying at the lowest sound cost—one of the areas of the DOD Cost Reduction Program—the Army Materiel Command has continually emphasized and concentrated on fostering price competition in as many procurement actions as possible," the report states. "The results of this effort

for the first ten months of FY 1963, ending April 30, 1963, are noteworthy. Almost 34 per cent of the AMC procurements placed during this period were on the basis of price competition.

"Documented net savings during the most recent three-month period amounted to \$17.3 million attributable to the efforts of AMC procurement offices to seek price competition for those items which were previously procured sole source.

These savings reflect a reduction of approximately 37 per cent over prices previously paid for the same items. An additional one million dollars were saved in the shift from non-competitive to competitive procurement of replenishment repair parts. The percentage of savings here is approximately 24 per cent.

"The emphasis by AMC on increasing competitive procurement has, at the same time, increased the placement of contracts resulting from formal advertising, the preferred method of procurement," the report continued.

"In its continuing effort to obtain the best possible purchase of needed materiel at the minimum

cost, the Army Materiel Command proposed and received approval during its first year from Department of Defense for a system of making 'multi-year' purchases of major Army procurement items.

The purpose of this process of combining more than one fiscal year's purchases into one purchase is: (1) A more economical purchase results, (2) the increased quantity and dollar value results in an increase in the number of firms interested in bidding, thus permitting a reduction in sole procurements.

"Initial purchases under the 'multi-year' plan have been accomplished for 8,393 five-ton trucks and repair parts, and for 9,175 engines and spares for the five-ton trucks. Since bidders were required to quote on a single year quantity as well as the multi-year, the savings resulting by the use of the latter system were indicated as \$209,825 on the trucks and \$1,175,752.62 on the engines, for a total savings of \$1,385,567.62," the report stated.

J. B. Galloway, Thiokol, Studies Defense-Industry

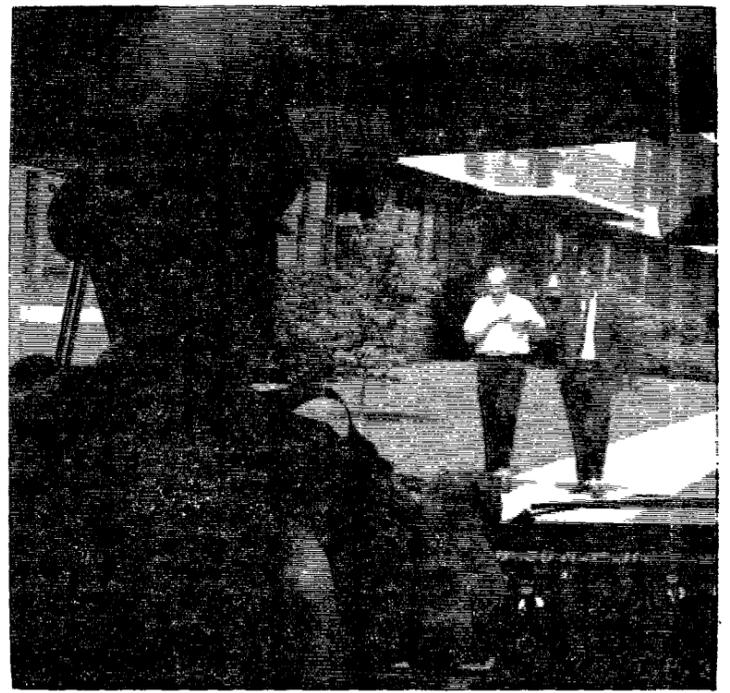
J. B. Galloway, Technical Director, Thiokol Chemical Corporation Alpha Division's Huntsville Plant, has been selected for membership on a joint Industry-Defense Department Study Team.

The team will prepare recommendations on program management for the Secretary of Defense. Other members of the team are James N. Davis, Deputy Assistant Secretary of Defense, Chairman; and Stanley Pace, Vice President, Thompson Ramo Wooldridge. The team will prepare a summary paper to be completed by the end of July.

Set up jointly by Thomas D. Morris, Assistant Secretary of Defense Installations and Logistics, and E. V. Huggins, Vice-Chairman of the Defense Industry Advisory Council, the study team will base its reports and recommendations in part from information gleaned from the findings and recommendations of many other contributing study groups from the defense industry.

The group's final paper will include a definition of program management, a statement of the problem, quantitative data to show the scope of the problem and analysis of the cause of the problem, and a delineation of approaches which can be taken to resolve the problem.

The Treasury estimated that eight million Americans now regularly purchase Series E Savings Bonds through the Payroll Savings Plan where they work. Their purchases average \$160 million worth of Series E Bonds a month.



WHERE ARE YOU—Drive along with this man and in one day you'll see lots of sights on Redstone Arsenal. He's our inquiring **WHERE ARE YOU** photographer who, as you have guessed from the captions in this series of pictures, has a streak of ham in him. This is also the second time he's managed to get in his own picture—more ham. Know what building this is? **CLUE:** It houses a directorate and a missile system project office. Answer on page 16.

Auburn Dean Will Talk To Engineers

The local chapter of the Alabama Society of Professional Engineers will feature Fred H. Pumphrey, dean of the Auburn University Engineering School, as guest speaker at the August dinner meeting.

Chapter members, registered engineers, Auburn Engineering School Alumni, and all Huntsville

area engineers are invited to hear Dean Pumphrey discuss the subject: "Engineers and Engineering Education."

Reservations are made by calling Randy Neal, 876-1963 or Jim Webb, 876-6323, of the Zeus Project Office on or before Aug. 6. The meeting will begin at 7:00 p.m., Aug. 8 at the HIC cafeteria.

During 1962 owners of U. S. Savings Bonds amassed a total of almost \$1.4 billion in interest on Series E Bonds which they still hold.

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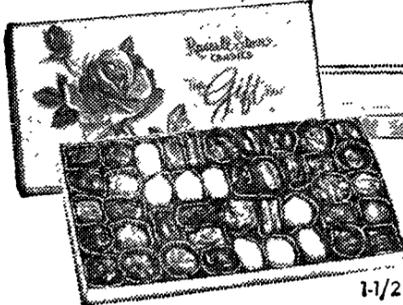
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Management Information Sets Up AMC 5 Year Plan

A five-year master plan to gather data and information throughout the Army Materiel Command will be operating under standard systems specifications by FY 1968, according to a year-end report.

The goal of the AMC Management Information System is to make the greatest use of machines for "decision-making" purposes and for providing necessary in-

formation to Department of the Army and Department of Defense.

Project SPEED (System-wide Project for Electronic Equipment at Depots) is an integrated system for the major operations which lend themselves to automation. Automatic data processing equipment was approved by the Secretary of Defense in December,

1962, for installation in six depots. Programming for the new system is accomplished by a task force composed of depot representatives.

The on-site readiness review conducted by the Army Comptroller in May, 1963, approved installation of equipment at the initial six depots, to be operational in the first quarter, FY 1964. Extension of the project to additional depots is under consideration.

An Interim Project Management Procedure has been installed to provide uniform project management reporting and control while the system is being develop-

ed. Target for completion and installation of the procedure in selected project areas is FY 1964.

A Major Items Data Agency was established within AMC July 1, 1963, responsible for maintenance of logistics data on PEMA and other selected items.

MIDA will improve item management by computing gross requirements for all major items, receiving world-wide asset data, and storing data on reportable items, plans, procurement status, rebuild status, world-wide assets and net requirements.

A complete standard system of operation for procurement dis-

tricts for contract administration has been installed. Further expansion of the mechanized processes into the secondary support area of property administration, civilian personnel accounting, and external reports is planned during FY 1964.

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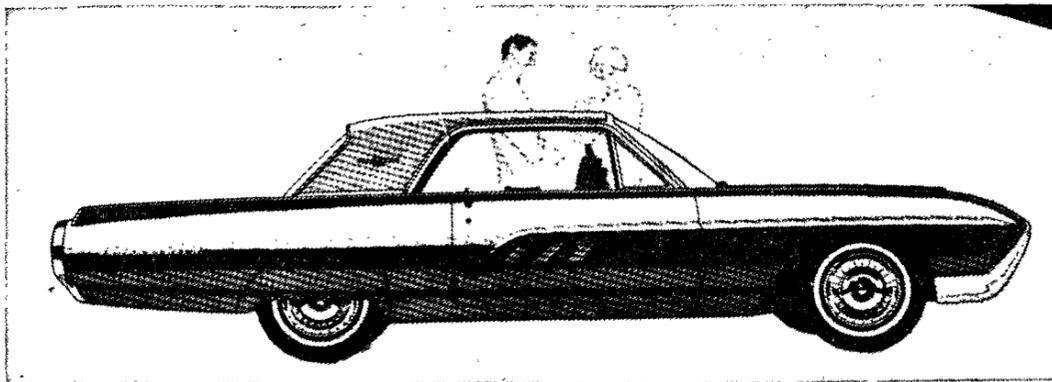
Astronomical Group To Hear Dr. A. Ehmert

Dr. Alfred Ehmert, head of the Institute for Physics of the Stratosphere Department, Max-Planck-Institute for Aeronomy, Lindau, near Gottingen, Germany, will address the Rocket City Astronomical Association Thursday, Aug. 8. The address will be at the University of Alabama Center auditorium, at 8 p.m. His subject will be "Astronomical Implications of Cosmic Ray Results."

Dr. Ehmert was born March, 1910, at Crailsheim, Germany. He completed his studies in Physics at Stuttgart and received his doctorate in Engineering there in 1936. He was head of a laboratory for cosmic ray studies at Friedrichshafen for a few years and then entered the private Institute for Stratospheric Studies of Professor Regener at the same location. In 1954, Dr. Ehmert was appointed associate professor of physics at the Technical High School at Stuttgart and in 1958 he was appointed associate professor of Geophysics at the University of Gottingen. From Gottingen he came to his present position at the Max-Planck-Institute.

Dr. Ehmert's scientific work dealt with cosmic rays, especially the time-variation problems and physics of the atmosphere such as radiation, atmospheric zone, transportation problems and finally with the propagation of low frequency radio waves from transmitters and from lightning.

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Air Defense Systems Will Take Over New Quarters

Moving men will be busy on Redstone Arsenal this week as the Army Missile Command expands into new quarters.

Brig. Gen. Howard P. Persons, Jr., the Deputy Commanding General for Air Defense Systems, and the Mauler Missile System Project Office are moving from the Missile Command Headquarters Building to Bldg. 4488, a three-story, three-wing building a half-mile away. Multi-System Test Equipment/Target Missiles Office will also make the move.

Presently the building is jointly occupied by the Missile Command and administrative offices of the Marshall Space Flight Center.

The MSFC offices, which have been located in the Army building since the Space Flight Center was activated on Redstone Arsenal in 1960, will move into a new administrative and laboratory building just completed by MSFC.

The shifts this weekend will consolidate all of the Missile Command's air defense systems in one building. The Hawk and Nike Hercules Project Offices, as well as the Directorate of Procurement and Production, are already located in Bldg. 4488.

The Missile Command's land

combat systems offices will remain in the Command Headquarters Building.

Maj. Gen. F. J. McMorrow, Commanding General of the Missile Command, said the move is not a reorganization of the Command. He said it would allow more functional utilization of office space.

Largest Cash Award Here Divided By 8

Eight former employees of the Army Ballistic Missile Agency have shared in the largest civilian cash award ever made at Redstone Arsenal.

A total of \$2,000 was divided among the group.

Receiving the awards recently were Calvin B. Droke, Alfred C.

Conder and Lester K. Walker, now employed by the Army Missile Command on the Arsenal.

Others receiving the awards were John A. Daly, Joe A. Hamil, Jr., Benjamin J. Herman and H. D. Trexler, employed by the National Aeronautics and Space Administration at Redstone Arsenal; and Elwood D. Lowrie, who resides in California.

The awards were made for the employees' work while they were members of a Jupiter Missile Sys-

tem Ground Support Equipment Task Group. The amount of each award was pro-rated according to the time each was a member of the Task Group.

As participants of the Task Group, the eight were responsible for the quick solution of critical technical problems involved in the delivery of Jupiter ground equipment.

Of the total award, the Missile Command approved \$300, the Office, Chief of Ordnance \$200, and the Secretary of the Army \$1,500.

AMC PROGRESS INCLUDED ON ALCOA PEMIERE

The Army Materiel Command will receive television coverage by the Aluminum Company of America on Aug. 1, AMC's first anniversary.

The film will show many of the items researched, developed and produced by the Army Materiel Command. Use of weapons and equipment by troops in the field is emphasized in the special "Defense" film, to be shown on ABC-TV.

At the Service Club

By: Brenda Hanson

Wednesday night has been set aside for the progressive Dance Instructions. David Izen will take over the Main Lounge Wednesday night at 7 p.m. to teach. At the recent Buddy Bair Dance, the results of the dance classes was obviously on display. If you are one of the people who would like to learn to dance but hesitate to come to class, don't hesitate any longer. Some of the people who go in to a class without any knowledge of any dances, turns out to be the best dancers. If you are interested and would like more information, call the Service Club at 876-4531.

Then the program for Friday night brings on a Table Tennis Contest. The contest is open to all men who would like to enter. It's an excellent chance to display your adroitness and talent at this game. The contest will begin at 8 p.m. Prizes will be given to the winner.

Saturday night we have planned a program that is after the hearts of all you men who enjoy home-made ice cream. Come at 7 p.m. and help us crank the freezers. That is one of the main essentials of making an ice cream party complete.

Sunday, Coffee and donuts will be served beginning at 9 a.m. This is an excellent way to get you off the launching pad. Climaxing the evening is the dance at 8 p.m. under the theme, "Jump Beat."

Jerry and the Ram-Rods will furnish the music for Sunday night dances seem to be one of our most popular programs. So get in on the fun.

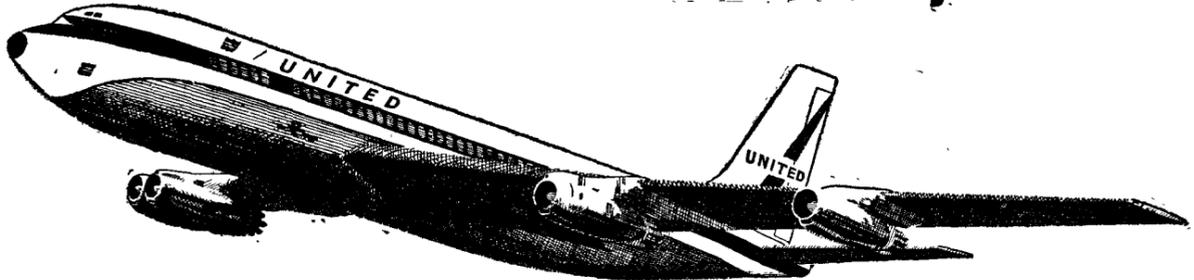
Monday is game night. We have a very nice selection of prizes. It could be your lucky night. Who knows?

Tuesday, we have scheduled a dance practice. Records will be played in the Main Lounge. If you would like to practice steps, join us at 7 p.m. We'll have refreshments.

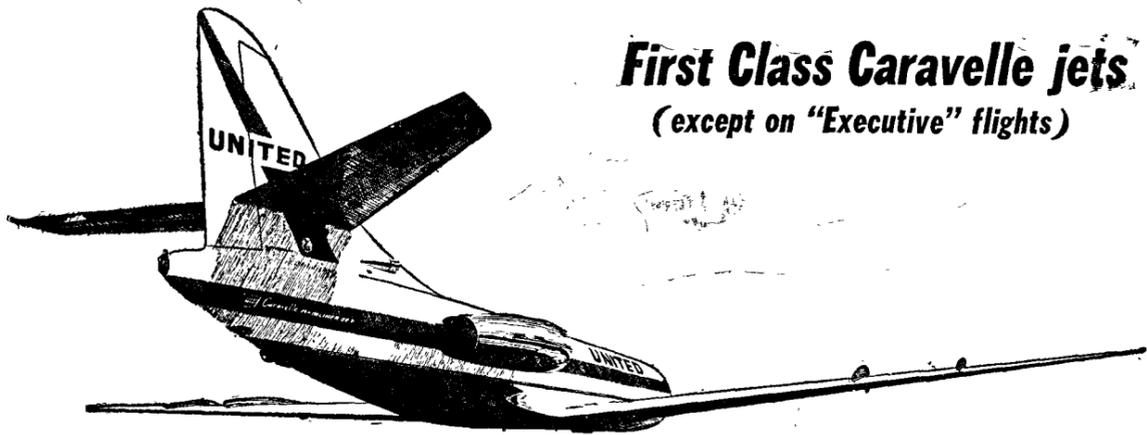
—Brenda

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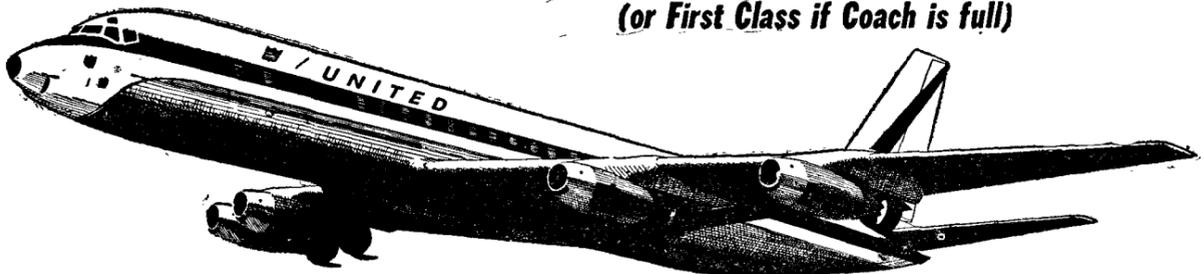
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Page 14 The Redstone Rocket — July 31, 1963

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FOR SALE—Newly reupholstered couch and chair, like new condition. Phone 539-0382. ttc

4. Mobile Homes

SEE OUR FULL LINE OF — Mobile Homes—or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. ttc

WE HAVE 2 — 35'x8' 1 bedroom mobile homes. These are both real nice and clean. Only \$1995.00, terms to suit your budget. Texas Auto and Mobile Home Sales, 1003 Meridian St., Phone 536-6121. ttc

5. Houses, Lots - Sale

GUNTERSVILLE LAKE LOTS FOR SALE—Contact W&W Land Co., 106 North Lincoln St., Huntsville. Phone 534-1451. ttc

WE CAN NOW BUILD you a three (3) bedroom brick veneer home fully completed to FHA or VA requirements on your lot with carport and storage for as little as \$49.77 per month, plus fire insurance, taxes, etc. No down payment and no closing cost. CORNELIUS REAL ESTATE & INS. CO., 521 N. Broad St., Guntersville, Ala. ttc

GUNTERSVILLE LAKE 100' Water front lots \$1250.00. inside lots \$500.00 only \$100.00 down \$20.00 mo. Ty Dorman Guntersville 582-3654 or Huntsville 876-3297 ttc

FOR SALE — Full brick G.I. nothing down, no closing cost. FHA min. down, 4 bedrooms and separate den, 2 ceramic tile baths, completely built-in kitchen, GE range, dishwasher and garbage disposal, central air condition in Southeast Huntsville. \$22,300.00. Phone 881-0152. Ensor Real Estate. ttc

NEW HOME Completely furnished, 3 bedroom and den, built-in G.E. range, garbage disposal, G.E. refrigerator, washer and dryer, 3 complete bedroom suites with mattress and springs, living room suite, breakfast room suite with 6 chairs (all new furniture). G.I., Nothing down, \$150.00 closing. FHA minimum down \$150.00, closing. Phone 881-0152, Ensor Real Estate Co ttc

FOR SALE — 3 bedroom brick, 2 baths, spacious den, living room-dining room, built-in kitchen, utility room, carport, central heating and cooling, ideally located in southeast section, shown by appointment. Phone 881-2305. ttp

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We build houses on your lot . . . 100% financed by us or VA and FHA financing. Built by Bonded Builders.

COLORED—If you have a good job and steady income you can own a home with payments as low as \$49.00 per mo. F.H.A., V.A., and F.H.A. for \$62.00 to \$86.00 per mo. 100% financing—built on your lot! Lots and homes in New Jerusalem and other parts of town.

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Phone 536-8537

FOR SALE BY OWNER—Lovely tri-level home approx. 1850 sq. ft. living area includes 3 bedrooms, den—approx. 18'x30', 2 ceramic baths, many extras. 1½ blocks from school. Buy FHA equity \$1800.00 and assume payments. Located 2202 Phillips Rd. (Lakewood), Phone 539-8551 or 534-3339. ttc

FOR SALE — 3 b.r. brick, 2 baths, large corner lot with fenced in back yard, near school. 3111 Pulaski Pike, \$17,800.00. phone 536-6776. ttc

JONES VALLEY—Tri-level brick, spectacular view, 4 bedrooms, 3 baths, den, utility room, all electric with dishwasher and air conditioning, 2400 sq. ft., priced and shown by appointment. owner, phone 881-1954. ttc

6. Pets

FREE OR REDUCED PRICES to good homes; 4 small standard dachshunds. AKC, championship bloodlines, all permanent shots. Also puppies, both miniature & small std. Terms available. Call 539 8328. ttp

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Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.

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C. J. Waite Insurance Agency

Price "BUSTER'S" From ROBINSON

1956 CHEVROLET
6 cyl., o'drive, newly overhauled engine. Good Southern car. \$495.00.

1956 FORD
4 dr., red & white, radio, heater, auto. trans., local car. Real good car. \$495.00

1959 MERCURY
Monterey 2 dr., real clean, radio, heater, auto. trans. Beautiful solid white. Must sell. \$795.

1958 PLYMOUTH
Belvedere, 4 dr., radio, heater, clean as new. Gleaming solid black. \$795.00.

1958 CHEVY
Del-Ray, 6 cyl., straight drive. \$645.00.

1957 FORD
V-8, straight shift, O'drive, station wagon. Local car. Must sell. \$495.00.

1957 CHEVROLET
4 dr. Bel Air, V-8, radio, heater, clean Southern car. Must sell. \$595.00.

1956 CHEVROLET
V-8, stick shift, radio, runs and drives good.

Robinson Auto Sales

733 Madison Street

Phone 539-8551

Medical Association Head Will Receive Orientation

The president of the American Medical Association will meet Maj. Gen. F. J. McMorrow Thursday for an orientation of the Army Missile Command.

Dr. Edward R. Annis of Miami, Fla., will visit Missile Command's Commanding General prior to an address he is scheduled to deliver Thursday night to medical societies of Huntsville and Madison County. Medical authorities from throughout Alabama, Southern Tennessee, Eastern Georgia and Western Mississippi are expected to attend the banquet at the Huntsville Country Club.

The AMA official's visit to

Huntsville is sponsored by the Huntsville Journal Club. Members of the Huntsville-Madison County Medical Assn., are invited.

Accompanying Dr. Annis during his visit to the Missile Command will be Col. Harry C. McClain, Redstone Arsenal Post Surgeon, and Dr. Burton S. Shook, of the Occupational Health Services.

Following his tour of the Missile Command, Dr. Annis will visit Marshall Space Flight Center.

Dr. Annis was installed as the 117th president of the AMA on June 18, 1963. He is a graduate of the University of Detroit, where he took a Bachelor of Science degree in 1933. Five years later, he took his M.D. at Marquette School of Medicine.

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\$500		\$24.73	\$46.81
700		34.30	64.92
1000	\$40.05	48.76	92.30
1500	59.80	72.80	137.80
2000	78.96	96.13	181.96

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

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706 Heart of Huntsville Shopping Ctr.
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LOW PRICES

- 1963 PONTIAC BONNEVILLE Four-Door Hardtop with factory air and power. A demonstrator with only 4,000 miles. It's only \$3,800.
- 1962 BUICK 225 Convertible with factory air conditioning and power. Our family car. Cost \$5,400. Never has been licensed. New condition \$3,500.
- 1962 CHEVY IMPALA Coupe with power. Local car. Nice \$2,400.
- 1961 CHEVY IMPALA Four-Door with power and air—if desired—Perfect. Only \$1,975.
- 1961 OLDS Coupe with power. Extra nice. Air if wanted. Only \$2,150.
- 1961 FORD GALAXIE. Extra clean. Fordor. One-owner. Only \$1,700.
- 1961 CORVAIR MONZA Four-Door. Nice and clean. Only \$1,450.
- 1961 VOLKSWAGEN Sedan with red finish. Extra well-cared-for. \$1,385.
- 1960 OLDS. Four-Door with factory air. Power. Clean and nice. Only \$1,885.
- 1960 OLDS. Coupe with power. One owner. Extra new \$1,850.
- 1960 FALCON Tudor. A slick little car. Only \$995.
- 1960 AUSTIN-HEALY Sprite. Runs perfect. Only \$1,050.
- 1960 FORD Station Wagon Fordor. Extra new. SEE IT! Only \$1,500.
- 1960 PLYMOUTH BELVEDERE Coupe. Nice. Only \$1,300.
- 1960 BORGWARD Station Wagon. One owner. Only 27,000 miles at 30 miles per gallon. Make us an offer (over 60 days in stock). SPECIAL.
- 1959 PONTIAC Bonneville Sedan with factory air conditioning and power. It's a beautiful car!! Only \$1,750.
- 1959 RAMBLER Sedan with Economy-6 engine and automatic drive. Like new \$1,100.
- 1959 RAMBLER Sedan with "6" engine and gas-saving overdrive. Like new. \$1,100.
- 1959 FORD CONVERTIBLE with white finish. A BEAUTY!!! \$1,350.
- 1959 CHEVY IMPALA Coupe with shining black finish. BEAUTIFUL CAR. \$1,450.
- 1959 CHEVY BEL AIR 4-Door. Hurry! It's only \$1,095.
- 1959 CHEVY IMPALA Four-Door. Local car in good condition. Only \$1,195.
- 1959 CHEVY Sedan... a powder puff! \$1,375.
- 1959 STUDEBAKER LARK Coupe with automatic shift. Clean. Only \$850.
- 1959 VOLKSWAGEN sedan. Very nice. Only \$995.
- 1959 OLDS. Sedan with power. You'll like it for only \$1,380.
- 1958 FORD Tudor Coupe (old maid's car and its like new) \$750.
- 1958 PLYMOUTH BELVEDERE Coupe. Extra clean. Power. SEE THIS! \$680.
- 1958 PLYMOUTH BELVEDERE Sedan. Nice as they come. \$680.
- 1958 PLYMOUTH Fordor V-8 with straight stick. Completely reconditioned! New paint—tire—motor—seat covers. Locally owned. AAAA-1 Only \$680.
- 1958 FORD Fordor "6." Local car with 21,000 actual miles. SEE IT. \$780.
- 1958 EDSEL CONVERTIBLE (as is). \$295.
- 1958 CHEVYS—We have FIVE! They are NICE ONES. Prices start at \$680.
- 1957 OLDSMOBILE Coupe. De-catur car. Original. \$680.
- 1957 CHEVY CONVERTIBLE with V-8 engine. It's a honey, \$980.
- 1957 METROPOLITAN CONVERTIBLE COUPE. Only \$395.
- 1957 CHEVY BEL AIR HARD-TOP. New paint and it's READY!!! \$895.
- 1957 CADDY Sedan (many good miles in this one). Only \$1,180.
- 1957 FORD Tudor coupe (slick). Reduced to \$530.
- 1957 BUICK Coupe. White. Clean. Only \$650.
- 1957 BUICK Sedan. And its clean, too. \$650.

50—Yes! 50 More '56 And Older Model Cars—Some Extra Sharp 2nd Cars!

MAKE AN OFFER — OPEN 8:00 P.M.

MOBILE HOME SHOW THIS WEEK!

SEE THE 1963½ MODELS

- 50x10 FT. NATIONAL! NEW!! Has raised living room roof! WE HAVE TWO OF THESE MOBILE HOMES!
- 50x10 FT. KNOX!! Has raised roof and 1½ BATHS. YOU'LL WANT IT.
- 50x10 FT. NASHUA! LUXURY! ITS LOW PRICED!
- 50x10 RITZCRAFT!! The Very Best! If you want QUALITY the price will surprise you!
- 57x10 RITZCRAFT with THREE bedrooms. SEE IT TODAY!
- 57x10 FT. RITZCRAFT with 2 bedrooms and GIANT LIVING ROOM.
- 50x10 PONTIAC CHIEF (by Detroit). BRAND NEW MODEL.
- 55x10 NATIONAL! New Type Kitchen. ITS SNAZZY!
- 50x10 NATIONAL EXPAND ROOMS AND PORCH. A Beauty!
- 55x10 NASHUA THREE bedroom model. ITS ROOMY!

Low Down Payment — 7 Years To Pay!!

TEXAS AUTO AND MOBILE HOME SALES

1003 MERIDIAN STREET, NORTH

UNIVERSITY CENTER POSTS FALL SCHEDULE

The Huntsville Center of the University of Alabama has announced a tentative schedule of undergraduate courses that will be given during the Fall quarter of 1963.

The announced college level courses will permit students to pursue their college education in a variety of fields of study. In addition a number of special interest courses have been arranged to fulfill the needs of particular groups.

Dr. Charley Scott, Director of Instruction of the Huntsville Center, stated, "The University of Alabama through its Huntsville Center continues to carry out its responsibility to the community by providing an expanding offering of courses. All requests for other services and courses not now provided will be given most serious consideration."

Courses that are announced for the first time in several quarters or that are announced for the first time include elementary public speaking and general geology.

Day classes are being scheduled in accounting, English, mathematics, philosophy, French, history, and speech.

Evening classes are included from arts and sciences, chemistry, commerce and business administration, education, and engineering.

Special interest courses and seminars are being planned for day and evening sessions in digital computer fundamentals, government defense contracting, investments, art, current affairs, textiles and clothing, and data processing.

Interested students are advised that everyone must make application to the University of Alabama through the Huntsville Center Office of Admissions in order to be admitted to any course or seminar. Applications are being accepted now.

Additional information may be secured at Morton Hall at the University of Alabama Campus in Huntsville.

***** Births at Post Hospital *****

Dirk Heinrich Gruba, 7 lbs., 15 ozs., July 20, son of S/Sgt. and Mrs. George Gruba.

Marvin Paul Cooter, 6 lbs., 10 3/4 ozs., July 22, son of M/Sgt. Ret. and Mrs. Cloyd R. Cooter.

John Summerfield Vincent II, 8 lbs., 15 ozs., July 23, son of Capt. and Mrs. Jerome S. Vincent.

Ginny Lou Beistel, 5 lbs., 13 1/2 ozs., July 23, daughter of Pfc and Mrs. Timothy A. Beistel.

Keith Bryan Powell, 7 lbs., 8 ozs., July 24, son of 2/Lt. and Mrs. Thomas E. Powell.

***** Movie Schedule *****

WEDNESDAY, July 31
"The Nun and the Sergeant" (M-YP)

THURSDAY-FRIDAY, August 1-2
"Girls! Girls! Girls!" (F)

SATURDAY, August 3
"Pocketful of Miracles" (F)
First Performance 5:45 p.m.

SUNDAY-MONDAY, August 4-5
"The Raven" (M-YP)

TUESDAY, August 6
"The Castilian" (M-YP)

Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

ANSWER TO WHERE ARE YOU?

This is the front of Bldg. 4438, home of the Directorate of Procurement and Production, and the Hawk and the Nike Hercules Project Offices.

U. S. Savings Bonds offer savers an absolutely risk-free investment. The bonds pay a good return, guaranteed by the U. S. Government.

Management Science Creates Improvements

Continued emphasis on management improvement during FY 1963 generated more than 400 improvements reported by the U. S. Army Materiel Command's major subordinate commands, and other field organizations, with an indicated total savings of more than \$300 million.

These improvements have been plowed back to elements of AMC for their review and adoption for improving wherever possible.

The AMC Management Science Office has completed integration of the AMC Management Research Program nine months ahead of schedule.

"Substantial progress is being achieved under this program in terms of forward-looking and comprehensive analysis of major management problems in the long range as well as the short range

time frame." the year-end Management Science Office report to Lt. Gen. Frank S. Besson, Jr., Commanding General of the Army Materiel Command, stated. Tomorrow, the Command will celebrate its first birthday.

The AMC Board has been established as a deliberative agency of AMC to develop long range logistics concepts and objectives in selected problem fields. Two such studies have been completed and approved objectives established for AMC, namely, AMC-DSA Relationship 1963 through 1972, and Alternate Sources of Fuel and Power for Army Materiel Use.

In the short-range time frame, the Army Logistics Management Center, supported by contractual assistance as required, is exploring numerous areas of management and developing effective

Sergeant Battalion Scores Two Successful Firings

WHITE SANDS MISSILE RANGE, N. M.—The Army's newest Sergeant Missile Battalion has successfully fired two surface-to-surface Sergeant missiles during training exercises at White Sands Missile Range, the Army said today.

The missile firings were graduation exercises for the Fifth Missile Battalion of the 73rd Artillery. The unit came to White Sands to fire the missile following four months of classroom and field training at the U. S. Army Artillery and Missile School, Fort Sill, Oklahoma.

While at the school, the Battalion missilemen were given extensive training in the assembly, disassembly and tactical deployment of the Sergeant missile.

solutions which are making significant contributions to the effective performance of AMC's complex mission.

Commanded by Lt. Col. Walter M. Drozd, the unit is the third American Battalion to graduate from the Artillery and Missile School and will now be assigned as a completely tactical unit with the NATO defense forces in Europe.

Included in the battalion make-up are two firing batteries, "A" Battery commanded by Capt. George A. Stone, and "B" Battery commanded by Capt. Robert Lucas. In addition, the unit has a Headquarters and Headquarters Battery, commanded by Capt. Robert Dail, which provides the battalion with administrative support.

During the exercise, both firing batteries of the battalion fired a Sergeant missile.

The Sergeant Project is managed by Col. J. Mort Loomis, Project Manager and his staff from Headquarters at the Army Missile Command, Redstone Arsenal, Ala.

Your First



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