

# The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Hartselle, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. VII; NO. 14

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

AUGUST 6, 1953

## THIOKOL TO BUILD PERSHING MISSILE

### Army and Martin Announce System Sub-contractors

The U. S. Army and the Martin Company of Orlando, Fla., have jointly announced the selection of four major sub-contractors for the Army's new solid propellant Pershing Missile System.

The Martin Co. is the prime weapon system contractor for Pershing, a selective range, two-stage inertially guided ballistic missile being developed under supervision of AOMC. As prime contractor, Martin is teamed with ABMA for research and development, reliability testing, and production of the missile and associated ground equipment.

Responsibility for the design, development, and production of the Pershing's propulsion system was awarded to Thiokol Chemical Corporation, Huntsville. Thiokol is one of the leaders in the solid propellant field and has considerable experience in the development of extremely large solid rockets.

Facilities at Redstone Arsenal are available and will be used by Thiokol for initial development of solid propellant rocket motors for Pershing. Thiokol is also producing the solid propellant rocket motor for the Army's new La-Crosse guided missile, which is in production at Martins Orlando plant.

A subcontract for the inertial guidance stable platform and associated equipment was awarded to Bendix Eclipse Pioneer Division, Teterboro, N. J. Pershing, with a "built-in" guidance system, is to be able to direct itself onto a target without possibility of outside jamming.

Bulova Watch Co., of Long Island, N. Y., was named subcontractor for Pershing's fusing and arming system.

Thompson Products Accessories Division of Cleveland, O., was awarded a subcontract for the manufacture of a transport, erector-launcher. This type of mobile unit is new and will per-

(See THIOKOL on Page 2)

## 'Going to Moon,' Youngster Asks Army For Rocket Engines

The following letter was received at Redstone Arsenal recently from a Massachusetts grade-school youngster:

"I am going to the moon. I am going to build a rocket ship. Please could you send me instructions? Have you any old engines?"

"My favorite TV programs are Superman and Popeye. Can I get these on the moon? Can we buy hamburgers on the moon, too?"

"Thank you for helping me.  
Donnie MacLean  
Front Street  
Hopkinton, Mass.

## GREEK STUDENT ARRIVES AT OGMS

### First Representative Of Contingent Here

(Photo Inside)

Arrival of the first representative of the Greek Air Force at the Ordnance Guided Missile School has been announced by Col. H. S. Newhall, Commandant, who noted that Greece is the eleventh NATO country to send students here.

Staff Sgt. George Kotsakis, of Athens, came to the "Space Academy" last week to take preliminary courses as an interpreter and prepare for the first class of Royal Hellenic Air Force students due late in August. The Greek sergeant has served with the Joint U. S.-Greek Military Aid Commission in Athens and during the past year prepared for his new post by translating seven U. S. missile textbooks into his native language.

Students from Belgium, Canada (See GREEK on Page 3)

## ABMA SATELLITE TRACKING TEAM PICKING UP EXPLORER IV SIGNALS

\* \* \*



GEN. TOFTOY GETS DISTINGUISHED SERVICE MEDAL Award Presented by Army Sec. Brucker

\* \* \*

\* \* \*

## Dinner, Monument Honor Gen. Toftoy on His 'Day'

### Ex-Army Secretary Pace Is Speaker

The unveiling of a monument to Maj. Gen. H. N. Toftoy in Huntsville's Big Spring Park and a dinner

attended by some 700 people in the Huntsville Electric Center Thursday night climaxed the celebration of "General Toftoy Day" by Huntsville citizens in tribute to the departing former Deputy Commander of the Army Ordnance Missile Command.

Frank Pace, who was secretary of the Army when Toftoy was promoted from colonel to brigadier general, was the principal speaker.

"Gen. Toftoy persisted and presented ideas of compelling brilliance," Pace said, commenting that Toftoy "is known properly as the father of the missile in the Army."

"He proves that it is possible to combine imagination and discipline. Advances in the development of rockets have opened up frontiers in space," Pace said, "just as development of atomic weapons opened the way to non-military use of the atom."

Gen. Toftoy thanked the planners of the dinner for having

(See DINNER on Page 2)

\* \* \*

A five-man satellite tracking team from the Army Ballistic Missile Agency's Guidance and Control Laboratory is listening intently as radio signals from the Army's new earth satellite Explorer IV are picked up during the satellite's orbits around the earth. The team has set up telemetry receiver equipment in a trailer at Redstone Arsenal to obtain orbital data from the new Explorer.

The interim Satellite Tracking Station, which was hurriedly set up in the last five weeks, was the first tracking station to pick up and report the first 106-minute pass of the latest Explorer.

T. A. Barr, Chief of the Antenna Laboratory, Guidance and Control, explained that two steerable antennas, located outside the telemetry trailer, are able to pick up signals from Explorer IV of 108.090 and 108.03 megacycles. These signals are transferred to magnetic tape and subsequently reduced to "strip charts" so that the information is recorded in graphic form.

The signal from Explorer IV has five distinctive tones which denote the five types of information being obtained regarding radiation in outer space.

John Gregory of Chrysler Corporation and Paul Swindall of ABMA head the operation of the receiving equipment which is obtaining valuable data to be forwarded to ABMA laboratories and to the State University of Iowa for evaluation.

Explorer IV's elliptical orbit, and its total concentration on radiation studies, were prompted by the findings of earlier Explorers. They detected high corpuscular radiation intensities — much greater than had been anticipated — at the higher altitudes. Explorers I and III encountered

(See SATELLITE on Page 2)

## GEN. TOFTOY GETS DISTINGUISHED SERVICE MEDAL

### Secretary of Army Makes Presentation

Secretary of the Army Wilbur M. Brucker last week presented the Distinguished Service Medal to Maj. Gen. H. N. Toftoy, former deputy commanding general of AOMC.

Gen. Toftoy assumed the duties of Commanding General, Aberdeen Proving Ground, Maryland, this week.

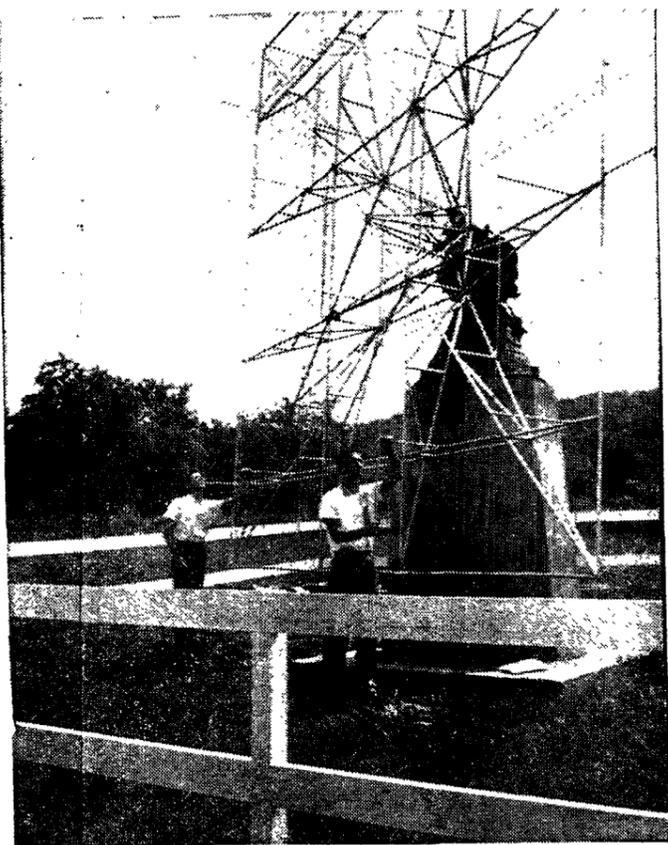
The ceremony took place in the office of the Secretary of the Army at the Pentagon.

The citation accompanying the DSM presentation follows:

"The President of the United States of America, authorized by Act of Congress July 9, 1918, has awarded the Distinguished Service Medal to Maj. Gen. Holger N. Toftoy, USA, for exceptional meritorious service in a duty of great responsibility:

Gen. Toftoy distinguished himself by exceptional meritorious service to the government in position of great responsibility 23 June 1945 to February 1958. As Chief of Technical Intelligence for Army Ordnance in Europe during the closing phases of World War II, Gen. Toftoy (then Colonel) recognized the wealth of German scientific and engineering knowledge that had developed the V-2 rocket at Peenemuende and foresaw it as a foundation for the envisioned guided missile program within the U. S. Army. In June of 1945 Gen. Toftoy was ordered to Washington to direct rocket and guided missile research and development for Army Ordnance. At this time, he personally implemented the selection of approximately 130 of the finest German rocket scientists to be brought to the United States and assigned them to the Research and Development Laboratories at Fort Bliss, Texas. This provided the U. S. Army with their unique contribution in the preliminary phases of research and development work in the missile program. In September 1954, Gen. Toftoy assumed command of Redstone Arsenal, Huntsville, Ala. He is credited with personally directing the program that has led to the acquirement of a complete guided missile team and a system of utilizing technical talent that has contributed immeasurably to guided missile technology in the United States. More recently he has been responsible for major initial decisions and follow-up on the development of a number of post-war rocket weapons, including the super Bazooka and the large Honest John. Atomic fire support by mobile rockets such as Honest

(See GEN. TOFTOY on Page 2)



TRACKING NEW SATELLITE — John Hendricks (left) and Fraser Williams, both University of Alabama students employed at the Army Ballistic Missile Agency, examine one of the two antennas that are picking up signals from the Army's newest satellite, Explorer IV. Hendricks and Williams are members of a five-man team from ABMA's Guidance and Control laboratory which set up an interim satellite tracking station at Redstone. The students built a steering mechanism for the antennas which picked up signals from Explorer IV 93 seconds after it was launched recently by a Jupiter-C from Cape Canaveral, Fla.



GEN. TOFTOY DAY — At right, Maj. Gen. H. N. Toftoy's son and daughter, 2nd Lt. Charles N. Toftoy and Mrs. George Williams, are shown unveiling the plaque dedicated to the general during ceremonies honoring Gen. Toftoy. The plaque, located in Huntsville's Big Spring Park, was unveiled prior to a dinner in Gen. Toftoy's honor at the Huntsville Electric Center Thursday evening.

# The Redstone Rocket

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## GEN. TOFTOY

(Continued From Page 1)

John originated and reached fruition under his supervision. Through his efforts the Nike and Corporal guided missile systems were developed. His insight and management have contributed substantially to the development of Army missiles such as Nike-Ajax, Nike-Hercules and Hawk, which today are counted on to provide much of the air defense capability of North America. He secured appropriate technical objective and necessary resources for the early development stages of the Redstone far ahead of present widespread recognition of the military value of powerful ballistic missiles. It was a modified version of the Redstone, the Jupiter-C, that successfully launched Explorer I, the free world's first satellite on 31 January 1958. Through his continuous understanding devotion to duty and his keen ability for making sound decisions, he has earned the highest respect of personnel in scientific and engineering fields as well as that of his superiors and subordinate military associates. Gen. Toftoy's accomplishments reflect highest credit on himself and the military service."

## THIOKOL

(Continued from Page 1)

mit Pershing to be transported to an unprepared site, erected, and

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## SATELLITE

(Continued From Page 1)

radiation so heavy that their instruments were jammed — completely overwhelmed — at about 35,000 counts per second. In order to conduct an extensive investigation of radiation in space at latitudes not previously attained by American satellites, Explorer IV has equipment capable of detecting radiation several orders of magnitude higher.

The equipment which steers the antennas, 20 by 20 feet square aluminum devices, was built by John Hendricks, 25, and Fraser Williams, 20, both students of the University of Alabama employed at ABMA during the summer.

Hendricks, a former Army Specialist 3d Class and now a Electrical Engineering major, found his experience as an Army Radar Mechanic invaluable in building the antenna.

Williams, whose home is at 512 Alabama Avenue in Cullman, Alabama, is currently majoring in Physics at the University of Alabama. Both students had no idea that they would be working so closely with the Army's satellite program when they arrived here on June 5.

The students worked day and night in the past few weeks, gathered some "old junk and modified it," hooked it up and everything worked perfectly on the first try out, Barr explained.

The antennas, which weigh approximately 220 pounds, have ranges up to 4,000 miles and are geared for horizontal and vertical pickups. Ninety seconds after the Jupiter C launched Explorer IV from Cape Canaveral, Fla., at 10 a.m. Saturday, the ABMA Satel-

fired in a matter of minutes. With the new transport-erector-launcher, Pershing will have the mobility of smaller weapons in the Army's family of missiles. Operating on a "shoot and scoot" principle, Pershing will be both plane and helicopter transportable.

## DINNER

(Continued From Page 1)

chosen Pace to speak. Decorating the head table at the dinner was a model of the Army's Redstone missile and crepe paper and flower letters that spelled: "Good Luck, Mr. Missile."

The monument in the park, a metal plaque on a marble base, was unveiled by the general's children, Lt. Charles Toftoy and Mrs. Doris Williams.

To the people of Huntsville and surrounding communities, Toftoy expressed gratitude, saying:

"Your devoted efforts have been a real and tangible factor in the success of the Army's guided missile program. It was not a one-man show; it never would be. It took teamwork."

An album of testimonial letters from Wilber M. Brucker, Secretary of the Army; Maj. Gen. J. B. Medaris, Commanding General, AOMC; Huntsville Mayor R. B. Searcy; U. S. Rep. Bob Jones; State Rep. Roscoe Roberts, and many other civic and military officials was presented to the general.

A plaque on the monument dedicated to Gen. Toftoy reads:

"This plaque was placed here by citizens of Huntsville and Madison County, Alabama, in honor of Maj. Gen. H. N. Toftoy, USA, who was commanding general of Redstone Arsenal from September 1, 1954, to March 31, 1958.

"It was unveiled here on August 1, 1958, on the occasion of his transfer to the command of Aberdeen Proving Ground.

"Gen. Toftoy during his stay at Redstone made a significant contribution to this community, and he will be forever be enshrined in the hearts of local people as "Mr. Missile."

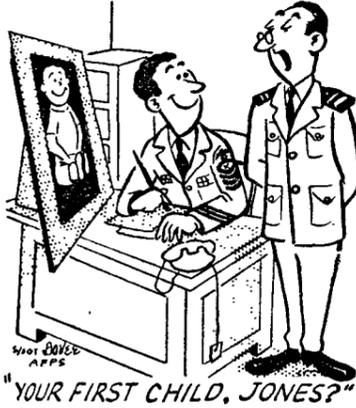
Gen. Toftoy received the Army's highest peacetime award, the Distinguished Service Medal, from Secretary Brucker in Washington, D. C., on Wednesday.

## READ THE WANTADS

lite Tracking Team had picked up the first signals.

The Tracking Team's telemetry receiver devices is also able to record the Doppler effect, that is to determine from the pitch of the signal the speed of the object being tracked.

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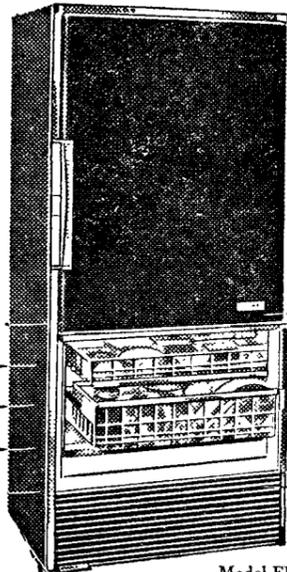
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**Red Cross Names Arsenal Chairmen**

Chairmen of the different American Red Cross services on the Arsenal have assumed their duties for the coming year, according to Miss Corris Knight, Field Director.

- They are:  
 Mrs. J. N. Jean, Chairman of Volunteers, Ext. 8548.  
 Mrs. J. M. Bishop, Co-chairman of Volunteers, Ext. 8747.  
 Mrs. D. J. Walsh, Chairman of Gray Lady Service, JE 6-7306.  
 Mrs. T. B. Stewart, Co-chairman of Gray Lady Service, JE 6-9834.  
 Mrs. H. N. Brownson, Chairman Staff Aides, Ext. 8848.  
 Mrs. H. V. Smith, Chairman

hunting and fishing. Congratulations, Johnnie, on having been selected the first Safety Supervisor of the Week!

\*\*\*\*\*

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\*\*\*\*\*

of Nurses and Nurses Aides, Ext. 8242.

All newcomers to Redstone Arsenal who are qualified in Red Cross Volunteer Work are asked to contact any of the above.

The next Bloodmobile visit will be on Monday, Aug. 11.

The Army has the problem of improving its ability to overcome obstacles, both natural and man-made. A rapid means of detecting and disposing of mines, for example, would as surely increase battlefield mobility as would a device for the more speedy bridging of a river.

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**IT'S GREEK TO MISSILE SCHOOL**—The first Greek to arrive for training at the Ordnance Guided Missile School is Staff Sergeant George Kotsakis (left) of the Royal Hellenic Air Force, shown as Lt. Col. Ernest W. Ewbank, OGMS, Assistant Commandant, added the Greek standard to the flag rack of the "Space Academy" where 11 NATO nations have sent students. An interpreter who has already translated seven U. S. missile texts into Greek, Sgt. Kotsakis comes from Athens and served there with the Joint U. S.-Greek Military Aid Commission. He precedes a group of his countrymen due in the next month.

**\* \* \* GREEK**

(Continued From Page 1)  
 ada, Denmark, France, Great Britain, Germany, Greece, Italy, Netherlands, Norway, and Turkey have swelled the OGMS faculty, staff, and student body to well past the 3,000 mark, making it the third largest educational institution in the state of Alabama.



**JOHN MYERS**

**Safety Supervisor Of Week Selected**

John Myers, Building & Grounds Section of Post Engineer, has been selected as the Safety Supervisor of the Week. This selection is made after an investigation which indicates that a fine record has been made by this employe. He has not had a disabling injury since his employment. Recently five employes who are under his supervision received pins for having completed five or more years without a disabling injury.

Johnnie has been employed by civil service for nearly 15 years, during which time he has earned the respect of those who are associated with him. His soft spoken words and politeness have a far reaching effect on those he supervises. He is presently a carpenter foreman. Johnnie says his safety supervision is simple. He studies the job to be done, gets the proper material and protective equipment, gives proper instructions and follows up to assure the job is being done according to plan. He believes that most employes want to work safely and will if given a chance. Good equipment, ladders, scaffolds, tools, etc. is a must in his crew.

Johnnie lives at Owens Cross Roads with his wife and three boys, Doyle 16, Robert 9 and Glenn 7. The boys all attend school at Owens Cross Roads.

Johnnie spends his spare time



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**MRS. TOFTOY COMPLIMENTED** — Mrs. H. N. Toftoy (left) was complimented last week with a luncheon at the Squirrel Hill Officers Club on Redstone Arsenal. The luncheon, held in the Redstone Room, was given by Mrs. George Williams, Mrs. Toftoy's daughter. General and Mrs. Toftoy will leave Huntsville this weekend to go to Aberdeen Proving Ground where he has been assigned as Commanding General.



**TOFTOY FAMILY AT PARADE**—This informal family picture of the Toftoys was made at the retreat parade held on the post to honor the general prior to his departure to assume command of Aberdeen Proving Ground. Left to right: Maj. Gen. H. N. Toftoy; daughter, Mrs. George Williams; Mrs. Toftoy; and their son, 2nd Lt. Charles N. Toftoy.

**MISS PATRICIA ANN HESS TO WED LESLIE BELROSE AT POST CHAPEL**

Miss Patricia Ann Hess, daughter of Lt. Col. and Mrs. Glenn Carroll Hess of Redstone Arsenal, will be married on Saturday, Aug. 16, to Leslie Howard Belrose, son of Mr. and Mrs. Howard Belrose of Sarina, Ontario, Canada.

The ceremony will take place at 3 p. m. at the Redstone Arsenal Post Chapel with Chaplain James Gocway officiating. The bride will be given in marriage by her father.

Miss Judy Kimbrell of Fort Campbell, Ky., will be maid-of-honor for the ceremony. Bridesmaids will be Jeanette Hanson of Villisca, Iowa, and Karen Hess of Knoxville, Iowa, both cou-

sins of the bride.

Duane Hess, brother of the bride, will serve as best man. Another brother, Marvin Hess, will serve as usher with a cousin, Darwin Nelson of Clarinda, Iowa.

Flower girl will be the bride's sister, Vicki Danny Ellenousch, son of Col. and Mrs. W. C. Ellenbusch of Redstone Arsenal, will serve as ringbearer.

Immediately following the ceremony a reception will be held at the Squirrel Hill Officers Club.

The bride has been a student for two years at Drake University, Des Moines. The groom completed his Master's degree in

**Mrs. Toftoy Feted At Club Luncheon**

Mrs. George Williams complimented her mother, Mrs. H. N. Toftoy, with a farewell luncheon at the Squirrel Hill Officers Club on Redstone Arsenal last week.

The luncheon was held in the Redstone Room.

A colorful gumdrop tree in a crystal bowl surrounded by pink roses was the centerpiece. Two small bouquets of pink roses, joined by a stream of bright new pennies, adorned each end of the long table.

A crystal cup holding tea leaves and the guest's fortune was at each place.

Following dessert, guests made a wish and tossed pennies from the table into the crystal centerpiece for good luck.

Twenty-three guests were included in the courtesy.

**Dance to Feature Island Costumes At Club Aug. 9**

South Sea Island garb—cool casual, and convincing—will be the theme at the Officers Club, Bldg. 7131, on Aug. 9, according to Lt. Col. Charles A. Michael, chairman of the Club Scheduling Committee.

Cocunut palms, dancing girls and a man-eating act will highlight the evening's entertainment.

Col. Michael says that during his years in the Fiji Islands, he learned that the Fijians are Melanesians with Polynesian Intermixture, which of course leaves the choice of costume for the event wide open!

Reservations, limited to 180 persons by floor space regulations, may be made by calling the Club Reservation Section, Ext. 7341.

music at the same institution. Col. Hess is a personnel assistant for administration at Redstone Arsenal, an element of AOMC.

The bride's maternal grandparents are Mr. and Mrs. Fred W. Fryer of Villisca, Iowa. Fraternal grandparents are Mr. and Mrs. Al Hess of Indianola, Iowa.

**READ THE WANTADS**

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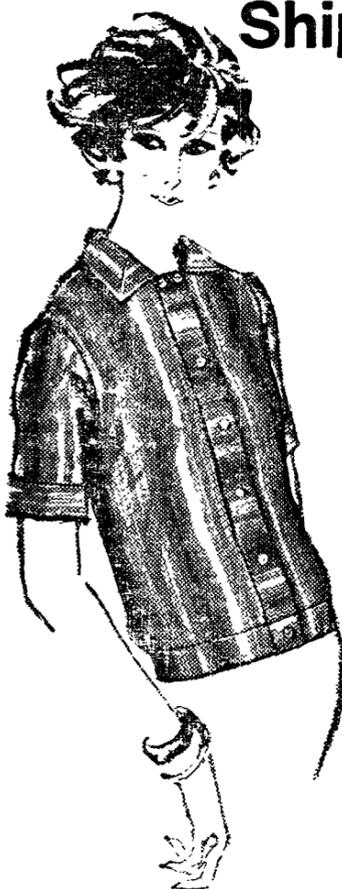
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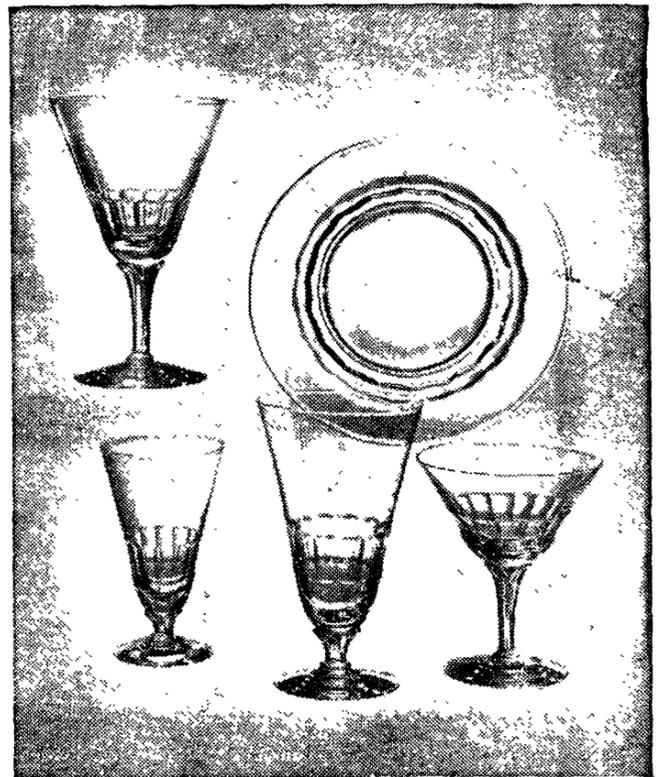
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Phone JE 4-7282

## BRUCKER PRAISES ARMY ON SUCCESS OF EXPLORER IV

The Secretary of the Army, Wilber M. Brucker, has congratulated Maj. Gen. J. B. Medaris, commanding the U. S. Army Ordnance Missile Command here, on the successful launching of Explorer IV, newest of the scientific earth satellites launched by the Army. Mr. Brucker's letter follows:

"It is a real thrill to be able to say, 'Congratulations — you've done it again!' The great Army missile team has once more achieved a magnificent success. The orbiting of Explorer IV on 26 July marks another tremendously significant forward step in American scientific advancement. It brings new honor to the United States Army and new world-wide prestige to our Nation.

"It is particularly deserving of recognition that Explorer IV was developed in so remarkably short a time in order to gain promptly further vital information on the high-level radiation first reported by Explorers I and III, and expand the scope of scientific investigation in this important field. It took unparalleled talent and devotion to 'turn the trick' and you and the people under your command proved more than equal to the task.

"With three out of four satellites successfully orbited, and not one failure recorded among the experimental flights of the great Jupiter Intermediate Range Ballistic Missile, you and your associates certainly have every right to be enormously proud.

"Please pass on my congratulations and best wishes to all the members of the Army Ordnance Missile Command, the Army Ballistic Missile Agency, the Jet Propulsion Laboratories, and all other agencies who had a part in these splendid accomplishments."

Brig. Gen. J. A. Barclay congratulated ABMA personnel and expressed appreciation to Jet Propulsion Laboratory, the State University of Iowa, contractors, and other Government agencies which participated in the program, and said,

"The pace of our programs is accelerating. Other unusual demands will be placed upon you. The country has come to expect this kind of performance from the Army's long-range missile development team, the finest in the Free World. I know that you will satisfy every expectation."

## Hawk Graduation Held; New Class Starts Today

The students of the second class of the HAWK New Equipment Training course were presented certificates of training during exercises at the New Equipment Training Center, Bldg. 5671, Redstone Arsenal at 10:00 a. m. Tuesday.

Approximately eighty key military and civilian personnel from the following installations

## EXPLORER IV IN 110 MINUTE ORBIT

### Satellite Travels 390,000 Mi. Daily

Early calculations by Army scientists indicate that EXPLORER IV, newest and largest of the U. S. earth satellites, is traveling through outer space at a velocity of 16,250 miles per hour and covers about 390,000 miles each 24-hour day in outer space.

The 38.43 pound satellite was launched at 10 A. M. EST July 26 by the JUPITER C rocket developed by the Army Ballistic Missile Agency, and Jet Propulsion Laboratory, both elements of the Army Ordnance Missile Command.

The project was authorized by the Advanced Research Projects Agency, Department of Defense, as a contribution to the Inter-

completed nine weeks of instruction on the HAWK Guided Missile System. The following agencies are represented: U. S. Army Guided Missile School, U. S. Army Air Defense School (CONARC), White Sands Missile Range; Aberdeen Proving Ground; Raritan Arsenal and the Army Rocket and Guided Missile Agency.

The HAWK New Equipment Training courses are conducted by representatives of the Raytheon Manufacturing Company under the provisions of a Research and Development Ordnance contract. The courses were planned and monitored by The Technical Training Branch, R&D Division, Army Rocket & Guided Missile Agency.

Nine vans of test equipment, three different radars and four HAWK missiles with their control center, launcher and loader are available for instructional purposes at the New Equipment Training Center.

The five sub-courses of instruction on the HAWK Missile System are conducted to train key military and civilian instructor, supervisory and maintenance personnel, and provide for the initial transfer of knowledge from the developer to appropriate military agencies.

It is planned for representatives of Raytheon Mfg. Co. to conduct another OPEN HOUSE at the New Equipment Training Center, Bldg. 5671 for interested personnel at Redstone Arsenal to inspect the HAWK facilities and equipment. The tentative date for this OPEN HOUSE is during the afternoon of 8 August 1958. Approximately 150 personnel attended OPEN HOUSE, on 6 June 1958, which was conducted by Raytheon instructors after the first class graduation of the HAWK courses.

The third class of the HAWK New Equipment Training courses begins nine weeks of instruction today, and eighty additional key personnel will be enrolled in this class.

national Geophysical Year with cooperation of the National Academy of Science whose IGY Committee directs the U. S. participation. EXPLORER IV reaches out to an apogee of 1,379.8 miles on each trip around the earth. Its perigee, or nearest point to earth, is approximately 160 miles. It completes each orbit in 110.224 minutes.

Instrumentation in EXPLORER IV is designed to investigate radiation in space. Four separate radiation counters are employed to collect data, which is flashed to ground stations by low-power and high-power radio beacons.

The equipment, Army observers said, is operating perfectly. Data is sent to Dr. James Van Allen at the State University of Iowa, who designed the radiation instruments, for evaluation of the information.

Three tracking systems are being employed to follow the earth satellite.

The Naval Research Laboratory utilizes an interferometer technique which compares signals received by 17 ground stations to the minitrack network. NRL reduces and evaluates the data and transmits it to agencies making orbital calculations.

A microlock system, developed by JPL, is also employed by a network established by the Army Missile Command. Doppler tracking is employed. It is based upon the change in frequency of the satellite's signals as it passes over a point on earth. The Ballistic Missile Agency is reducing this information and supplying it to other interested agencies.

Optical observations of EXPLORER IV are being carried on by the Smithsonian Astrophysical Observatory and makes use of "Moonwatch" teams and satellite tracking cameras. The Smithsonian also exchanges data with other agencies.



"You told me to bring a friend!"

## Coffee to Welcome Arsenal Newcomers

A Coffee Party will be held to welcome newcomers at 10 a. m. Tuesday, Aug. 12, at the Redstone Room, Squirrel Hill Officers Club.

The Hospitality Committee of the Redstone Arsenal Officers Wives Club is sponsoring the event. The Coffee will spotlight the various Club activities and provide the newcomers with an opportunity to meet the Club officers and various activity chairmen.

Wives of officers and wives of Officers Club associate members who have joined the Command since Jan. 21, 1958, are invited to attend. Reservations must be made not later than noon Monday, Aug. 11.

Reservations may be made by calling Mrs. A. H. Williams, Ext. 7753, Mrs. J. H. Longbottom, Ext. 7049, or Mrs. John Roby, Ext. 7953. For nursery reservations, call Ext. 8745.

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EXHIBIT—Some of the missiles and rockets located on the Arsenal in Bldg. 5415 are shown above. They were assembled by the 3353rd Research and Development Unit, headed by Lt. Col. R. Preston Watts, USAR. The building is kept open for visitors employed here by personnel from Redstone Depot and the 283rd Ord. Det., (TI). The 3353rd has a training program planned to serve officers engaged in R&D activities, with several vacancies in the unit. Further information may be obtained from Maj. C. E. Hammett, Ext. 7417.

### SP3 Beinhauer Wins Tenn. Rifle Matches

At the Tennessee Hi-Power Rifle Championship Matches 26-27 July, held at Oak Ridge, Tenn., the following awards were won by SP-3 George Beinhauer, OGMS:

Marksman Class—1st - 200 yds. - offhand No. 1; 2nd - 200 yds. - offhand No. 2; 1st - 200 yds. - rapid fire - sitting; 1st - 300 yds. - rapid fire prone; 1st - Aggregate No. 2.

In competition were shooters from the US Army Rifle Team, Ft. Benning, Ga.; Ft. Knox, Ky.; Ft. Rucker, Ala.; Ft. Gordon, Ga.; Tennessee National Guard;

and civilians firing in preparation for Camp Perry, Ohio, matches.

The four shooters from Redstone Arsenal and their final National Match Course Aggregates were: Lt. Fred Dean (OGMS) - Marksman Class - 215; Lt. Ben Phillips (OGMS) - Expert Class - 227; Sp - 3 Paul Poe (ABMA) - Expert Class - 227; Sp-3 George Beinhauer (OGMS) - Marksman Class - 225.

(222.5 or above is NRA Expert).

### At The Service Club

Yakitty-Yak is all I've heard this week so I will pass it on to you.

WEDNESDAY: The month of July heralds the opening of a new series of dance classes. The Beginners' and Advanced Classes are well on their way now and will be completed on August 20. Register early for the next series of classes which will begin on o'clock.

THURSDAY: Watch your favorite program on TV tonight. Cards, shuffle board, ping pong, and pool are available every Thursday night until ten o'clock. The Bridge Club will participate in another Duplicate Bridge Tournament tonight at 7 o'clock. The Junior Hostesses will have

### Library Officials Attend Calif. Meet

Miss Catherine Green, Reference Librarian of the Technical Library, ARGMA, and Mrs. Jane Bentley, Chief, Technical Processing Section, Technical Documents Library, ABMA, recently returned from attending a conference of librarians in San Francisco, Calif.

They were two of more than 4,000 librarians who attended the 77th annual meeting of the American Library Association, representing all states and the territories of the United States, Canada, Mexico, and the U. S. libraries overseas.

The week-long meeting presented ideas and technical discussions. Among noted speakers were: Luther H. Evans, former Librarian of Congress and now the Director General of UNESCO; William H. Dorrance, Assistant Director, Scientific Research, Convair; Quincy Howe, news analyst and historian; and James D. Hart, Vice Chancellor of the University of California.

their monthly meeting in the Service Club Office at 7 o'clock. Coffee Call is at 8 o'clock.

FRIDAY: We will carve some watermelons on the patio August 8 at 6:30 o'clock. How about a piece of ice cold watermelon? Place your name on the list today. Following the watermelon cutting we will have a slide showing. AllEM are requested to bring their favorite slides for a showing in the lounge.

SATURDAY: Plan on attending the Card Party on August 9. Make reservations for a party, or individually, and we will find you a set-up for your favorite card game. Refreshments will be served.

SUNDAY: Coffee Call for the early risers is at 9 o'clock. We'll pack a delicious dinner, bundle up our bathing suits and head for Gunter's Picnic Area for an afternoon of rest, relaxation and fun on August 10. The bus will leave the Service Club at 1:30 and return at 10 o'clock. Make reservations today.

MONDAY: This is the night for the Bingo fiends. In the event you have not yet acquired the habit join us for a game. It's fun and easy to play. Ten useful gifts are brought forth each week for prizes. Won't you join us in the kool lounge for an informal game of BINGO?

Coffee Call is at 9 o'clock..

TUESDAY: The Pool Club meets at 7 o'clock. All members of the club are urged to participate in the weekly games.

Okay, you now have next week's schedule, and so endeth the Yakitty-Yak for the week.



GETS \$400 AWARD—Francis M. Knezovich, (right) formerly of Syracuse, N. Y., is shown receiving a \$400 Incentive Award from Col. Thurston T. Paul, ABMA Deputy Commander. Knezovich, a geodesist in the Engineer Office of the Army Ordnance Missile Command, received the award for his suggestion concerning a method of orienting the Redstone Ballistic Missile. From left to right are Col. Paul; Lt. Col. Louis De Noy, ABMA; Lt. Col. John R. Clifton, ABMA; and Knezovich.

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### COL. ORMAN GETS COMMENDATION RIBBON FOR WORK

Brig. Gen. J. M. Colby, Deputy Commander, Army Ordnance Missile Command, recently presented Col. Leonard M. Orman with the Commendation Ribbon with Metal Pendant at ceremonies at Redstone Arsenal.

Col. Orman, who is Chief of the USAOMC Field Office at the Missile Test Center at Patrick Air Force Base, Fla., was cited for his "comprehensive knowledge and exceptional ability to for-

mulate and effect operating procedures that have proved invaluable and contributed immeasurably toward the successful accomplishment of the mission of the Army Ordnance Missile Command."

A graduate of the U. S. Military and the University of Pennsylvania, Col. Orman was formerly the Army Ballistic Missile Agency Project Officer at the Missile Test Center.

"His coordination of and leadership displayed in connection with the launching of Explorer I and subsequent Explorers was magnificent," the citation read.

Col. Orman was an instructor in electronics at West Point for three years and chief of the test group of CONARC Board No. 4 at Ft. Bliss. He is the author of "Electronic Navigation" and has contributed over 50 articles to military, science and industrial publications on radar and related subjects. He is a senior member of the Institute of Radio Engineers.

When tools are not in use, it's safest to have them put away in a definite place.

## Explorer I Still Whirling In Space After Six Months

### Silent Orbit Gives Atmospheric Data

The free world's first scientific earth satellite, Explorer I, has traveled 65,500,000 miles in the first six months of its life in outer space.

Scientists believe the satellite will continue its historic journey in outer space for 5 to 7 years more. It was launched the night of Jan. 31 from Cape Canaveral, Fla.

Explorer I continues a globe-circling orbit which requires 113-35 minutes, as determined by the Naval Research Laboratory. Its first orbit required 114.9 minutes.

Explorer I carried two radio transmitters. The lower powered device, audible only to specially equipped ground stations, continued to operate from Jan. 31 until May 16.

The high power transmitter operated from Jan. 31 until Feb. 12, resumed its signals Feb. 24, went off again Feb. 27, resumed a second time March 3 and shut down permanently two hours later.

Although it is now silent, as it travels in space at a velocity approaching 18,000 miles per hour, Explorer I will continue to yield valuable scientific data.

Experts of the Ballistic Missile Agency said change in the orbital elements can reveal atmospheric and geophysical data through direct visual observations employing special "Moonwatch" telescopes or the high-speed tracking cameras of the Smithsonian Observatory.

This data, combined with similar information from other satellites, will lead to improvements in geophysical and atmospheric density data. This is related to the density of the atmosphere at high altitudes and the shape of the earth's geophysical constants.

Explorer I soared to an apogee of 1,573 miles initially and came within 224 miles of earth at its closest point. Today its apogee is 1,509.9 miles and its perigee 218.2 miles.

### 'Big Red' to Greet 1st Cavalry Vets At El Paso Reunion

Veterans of the 1st Cavalry Division and their families will find a one-time valued member of their outfit on hand to greet them Aug. 29, when the 11th annual reunion gets under way at the Hotel Cortez, in El Paso,

Patronize the Rocket Advertiser

Does the vaccine prevent non-paralytic polio?

No. But non-paralytic polio does not leave an individual with a permanent handicap.

Texas.

He is "Big Red", a 29-year old horse, who was "retired" by the Army when the division was dismounted just prior to going overseas in 1943.

Once the "home town" of the 1st Cavalry Division, which was stationed during peacetime at Fort Bliss, El Paso with its old-soldier "alumni" staged a wide search for a genuine cavalry mount that led to the locating of "Big Red," who carries an authenticating brand on the left side of his neck.

The sole remaining combat unit of the former elite branch, the 1st Cavalry Division is now on active duty in Korea. It saw action during World War II in the Admiralty Islands, the Philippines and Japan, and followed that with service in the Korean War Regiments of the division can trace their history back to Lee and Custer.

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TUESDAY & WEDNESDAY

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Produced by **HERBERT B. SWOPE, Jr.**

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Screenplay by **PHILIP YORDAN**

**Movie Schedule**

Wednesday 6 Aug. "She Played With Fire" starring Arlene Dahl and Jack Hawkins. Time 1315, 1830 and 2030.

Thursday and Friday 6 and 8 Aug., "The Whole Truth" starring Stewart Granger, Donna Reed and George Sanders. Time 1315, 1820 and 2030.

Saturday 9 Aug., SPECIAL

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SUNDAY & MONDAY

**"THE LADY TAKES A FLYER"**

\* Lana Turner  
\* Jeff Chandler

MATINEE "The Last Wagon" starring Richard Widmark. Time 1000.

Saturday, 9 Aug., "Spy In The Sky" starring Steve Brodie, Sandra Francis, Anrea Dom-Burg and George Coulouris. Time 1830 and 2030.

Sunday 10 Aug., "Andy Hardy Comes Home" starring Mickey Rooney, Patrica Berslin and Fay Holden. Time 1400, 1830 and 2030.

Monday 11 Aug., "Taming Suttons Gal" starring John Lupton, Gloria Talbott, and Jack Kelly. Time 1315, 1830 and 2030.

Tuesday 12 Aug., "Buchanan Rides Alone" starring Randolph Scott and Jennifer Hollen. Time 1830 and 2030.

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## GUIDANCE METHOD HIGHLY ACCURATE

### Impacts JUPITER Squarely on Target

The July 17 launching of the Army's JUPITER Intermediate Range Ballistic Missile was a significant step in the development of guidance and control systems for long range missiles.

The JUPITER, developed by the Army Ballistic Missile Agency, impacted squarely on target in the Atlantic Ocean after an early dawn flight over the weapon's approximate full range.

JUPITER employs a highly accurate guidance and control system known by Army missilemen as "Delta Minimum Inertial Guidance Scheme." It is a long range version of the system employed on the REDSTONE Ballistic Missile, also developed by the Ballistic Missile Agency, which is now in the hands of Army forces in NATO.

The guidance system was developed by the Guidance and Control Laboratory of the Missile Agency, directed by Dr. Walter Haeusserman. The Ford Instrument Company of Long Island, N. Y., produces the REDSTONE and JUPITER guidance and control systems.

Components of the all-inertial JUPITER "Delta Minimum System" had been previously test flown by the big missile but the July 17 launching was the first time the complete system had been installed.

Brig. Gen. J. A. Barclay, ABMA Commander, said the "Early completion and test flight of the full JUPITER guidance is a tremendously important step in the development and the fielding of an uncannily accurate weapon."

In general terms, the JUPITER guidance and control system functions as follows:

The heart of the system is a stabilized platform, so named because through the use of gyroscopes it remains in stable position during the entire flight.

In advance of launching, data are fed into a guidance computer aboard the missile which determines the pre-set trajectory.

From the moment the missile lifts off, the platform is constrained to the same angular directions. The missile tilts and arcs through the heavens, but the platform remains stable.

Mounted on the platform are devices which measure with great accuracy any deviation the missile makes from the pre-calculated trajectory. These deviations usually result from changes

## OGMS TROOP UNITS WIN 3 AWARDS IN CHARACTER GUIDANCE PROGRAM

Troop units attached to the Army Ordnance Guided Missile School have won all three awards presented semi-annually in the "Character Guidance Program" conducted for all military units at Redstone Arsenal, it was announced last week.

Col. H. S. Newhall, Commandant, said the OGMS units were judged best on the entire installation by the Redstone Ar-

senal Character Guidance Council. Points are awarded on the basis of the number of military personnel who attend monthly guidance sessions and conduct themselves so that no unit disciplinary action is imposed.

"Award of all three prizes to OGMS units is added evidence of the serious purpose of the student body and staff," Col. Newhall said, pointing out that the average educational level of the entire faculty, staff, and student body is about two years of college per capita.

The Category I award for units larger than 300 men was awarded to Headquarters, School Troops commanded by Maj. Claude E. Cason.

The Category II award for units whose strength is between 200 and 300 was won by Headquarters & Headquarters Detachment A Capt. Edward J. Ottoman, Jr., is the commanding officer.

For units with less than 200 active personnel, the class III award went to the 207th Ordnance Platoon, commanded by Lt. Andrew J. Foster, Jr.

Col. Keith T. O'Keefe, Redstone Arsenal Post Commander, presented the units with specially engraved plaques for hanging in their orderly rooms.

Hunter: "Are you sure we're not lost? I was told you were the best guide in the state of Maine."

Guide: "I am, only I think we're in Canada now."

One of the devices on the platform keeps a running tabulation on the distance remaining before the target is reached.

Before the flight began, the launch crew determined at what point the missile's power must be cut off to strike the precise target. When the missile reaches the approximate preset conditions, the main stage liquid fuel engine is cut off.

A secondary low thrust engine functions for a short time and makes precise adjustments in the missile's velocity. When the exact conditions are met for hitting the target, the secondary engine is automatically turned off.

The missile will be employed trajectory to the target at many and the warhead follows normal times the speed of sound.

by the US Air Force.

## Special Services Activities

**Post Gymnasium Operating Hours**  
Monday thru Friday 1400-2200  
Saturday, Sunday and Holidays —Closed.

**Craft Shop Operating Hours**  
Monday and Tuesday—Closed.  
Wednesday thru Friday 1400-1630 and 1730-2200.

Saturday 0800-1630.  
Sunday 1230-1930

**Golf Driving Range and Archery Range Operating Hours**  
Monday thru Friday 1400-2100.  
Saturday 1300-1900.  
Sunday and Holidays 1400-1900.

**LIBRARY OPERATING HOURS**  
Monday thru Friday 0900-2200  
Saturday and Holidays 1000-2200.

Sunday 1200-2200.  
**Post Service Club Operating Hours**  
Monday thru Friday 1600-2200  
Saturday 1000-2200.

Sunday and Holidays 0900-2200  
**Post Swimming Pool**  
Monday thru Saturday 1000 - 2000.

Sunday 1200-2000.  
Odd days of the month are reserved for Enlisted personnel, their families, and guests. Even days of the month are reserved for Officers, their families and

## Sewer Line Work Bids Called By Engineers

The U. S. Army Corps of Engineers has advertised for bids for the construction of an intercepting sewer line at Redstone Arsenal.

According to an announcement by Col. R. W. Love, Army District Engineer at Mobile, Ala., bids for the work will be opened at the Corps of Engineers office, 2301 Grant Street, Mobile, at 11 a. m., C. S. T., on 26, August 1958.

The principal items of work will be the construction of an intercepting sewer line consisting of 12,500 linear feet of 18-inch sewer line, 220 linear feet of 8-inch sewer line, 200 linear feet of 10-inch sewer line, 200 linear feet of 18-inch cast-iron sewer line, 26 manholes, and clearing and grubbing. The intercepting sewer line will serve the Capehart housing area.

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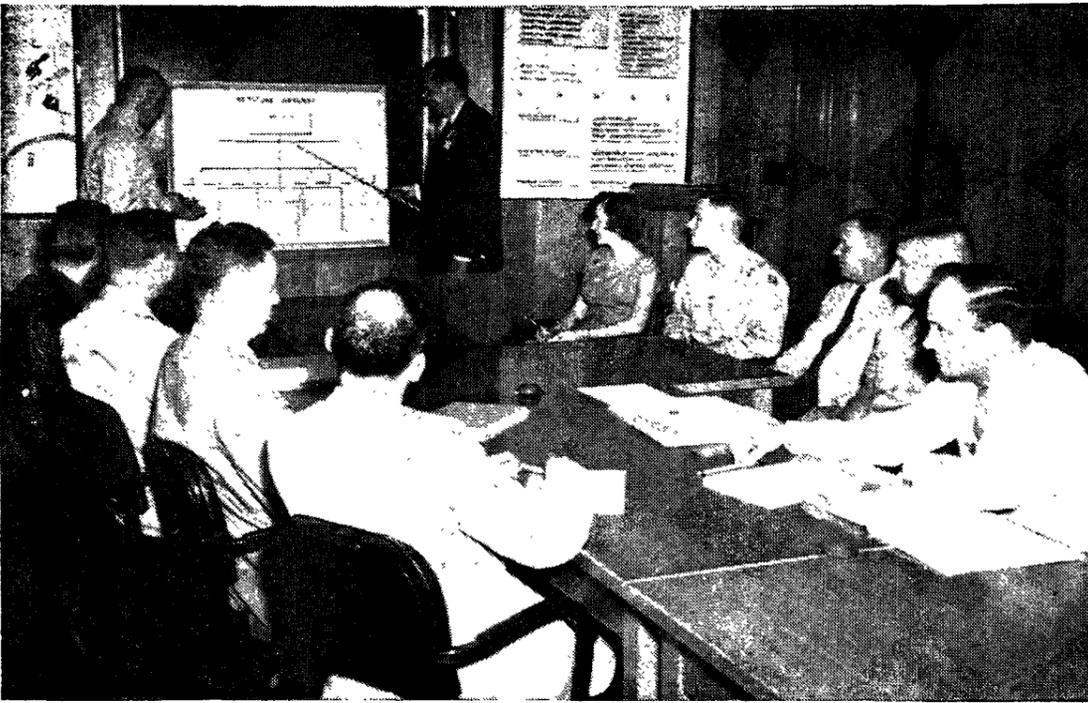
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**SECURITY BRIEFING**—James C. Lynch (with pointer), Chief, Intelligence and Security Division, Redstone Arsenal is shown during a security briefing for Col. Sidney S. Rubenstein (left, standing) held recently for the Air Force officer who will be in charge of Industrial Security in NATO. Col. Rubenstein is assigned to the Office of Security Policy, Secretary of Defense in Washington, D. C. Seated at the conference table from the right are: Mrs. Josephine Dooley, secretary to Lynch; Lt. Richard Hineman, Technical Intelligence Office; Clyde Burke, Security Office, AOMC; Capt. Francis Willard, Security Coordinator, ABMA; Spiro Greenwood, Operations Research Office, AOMC; Robert H. Labbe, Provost Marshal Office, RSA; Walter S. Pedigo, Intelligence and Security Div., RSA; Capt. Robert Vereen, Security Officer, OGMS; and Bill Johnson, Intelligence and Security Div., RSA.



**LT. ROBERT BOXELL**  
\* \* \*

**Lt. Robert Boxell Is Aide-de-Camp To Gen. J. M. Colby**

First Lieutenant Robert A. Boxell of Mahtomedi, Minn., has been named Aide-de-Camp to Brig Gen. J. M. Colby, deputy Commander of the U. S. Army Ordnance Missile Command. Lt. Boxell enlisted in the Army in May 1946 and served the following two years as a

radio repairman in the Phillipine Islands, Japan and Hawaii; In 1949 he received a congressional appointment to the U. S. Military Academy.

Upon completion of his BS degree at the Academy, he was assigned first to Ft. Bragg and then overseas with Artillery and Ordnance in Austria and Italy.

Returning to the U. S. in 1957, he became a student officer at the Ordnance School, Aberdeen Proving Ground, Md. In January 1958 he entered the Officers Guided Missile Course at the Ordnance Guided Missile School, Redstone Arsenal.

He was assigned to the Army Ordnance Missile Command in June and prior to his selection as Aide-de-Camp was a project officer in the Command Control Office.

Lt. Boxell is a member of Masonic Lodge 166, White Bear Lake, Minn.; the Scottish Rite, El Pasco Consistory; and the Shrine, Oakland, Cal. He is the son of Mr. and Mrs. John W. Boxell, 80 Elm St., Mahtomedi, Minn.

**Tots to Register For Kindergarten**

Registration for Rocket Kindergarten will be held at 7 p. m. Aug. 14 in the social room of Chapel Center.

Children of military personnel living on or off the post are eligible. The age group is 4½ years to 6 years.

Further information may be obtained from Mrs. James Black, JE 6-3804, or Mrs. David W. Swearingen, Ext. 7451.

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FLIGHT SIMULATED—C. H. Covington, Arsenal employe from Athens, operates a data reduction machine above at the Army Ballistic Missile Agency to evaluate simulated flight test records.

**C. H. COVINGTON WINS EQUIVALENT OF TWO DEGREES AT NIGHT SCHOOL**

C. H. Covington, Arsenal employe from Rt. 1, Athens, has received the equivalent of two degrees since 1952 by attending night classes at Athens College.

Assigned to Systems Analysis and Reliability Lab, Army Ballistic Missile Agency, as a storage maintenance wage board employe, he has advanced with the aid of his studies through statistical clerk, supervisory statistical assistant, to mathematician.

His work in the Lab was recognized in 1957 with a Sustained Superior Performance Award, and again this year with an Outstanding Performance Appraisal and a second Sustained Superior Performance Award.

Covington was graduated first in accounting, receiving a B. S. degree in 1952. Afterwards he became interested in statistical work and returned to school to study mathematics.

His wife is also employed at ABMA, and works in the Guid-

ance and Control Laboratory. They have a daughter and a son.

**Lindstrom Receives American Legion Patriotic Medal**

Robert E. Lindstrom of ABMA has been awarded the Elliodor Libonati Patriotic Award Medal by the American Legion, Department of Illinois.

The Medal was presented Friday in Chicago as part of the Legions 40th Annual Convention. Vincent Polcyn, chairman of the Americanism Commission, American Legion, Dept. of Ill., made the award.

The Elliodor Libonati Patriotic Award Medal is given annually to an individual in recognition of outstanding patriotic contributions. The recipient is chosen from candidates submitted

by the various Legion Posts. Candidates do not have to be

FAST GETAWAY — The Howk missile gets its powerful thrust from a solid fuel engine developed by Aerojet General Corporation, rather than Thiokol, as last week's Rocket stated.

Legion members and can be from anywhere in the United States.

Lindstrom was cited for his outstanding accomplishments and achievements in the field of ballistic missiles, particularly for his efforts in the ARMY's EXPLORER program. As part of his work at ABMA, Lindstrom coordinated the preparation of the JUPITER C rocket which launched the Army's EXPLORER I satellite, first in the free world, on Jan. 31.

A native of Sycamore, Ill., Lindstrom became interested in long range ballistic missiles when he was assigned to missile work at Redstone Arsenal during a two-year hitch in the Army. Upon completion of his Army service, he continued as a civilian employe at the Arsenal and is now staff assistant to the Director of the Structures and Mechanics Laboratory at the Ballistic Missile Agency.

Lindstrom holds a degree in ceramic engineering from the University of Illinois. He is a member of American Legion Post No. 99, Sycamore, Ill.

**FIVE OGMS SOLDIERS HURT IN CAR MISHAP**

Five Army soldiers, stationed at the Ordnance Guided Missile School were injured when the automobile in which they were riding overturned on Highway 231 at 2 a.m. yesterday.

C. H. Lowery of the Highway Patrol, who investigated, reported that PFC Joseph Milner was driving. He apparently lost control while proceeding north. The

vehicle left the road, rolled over approximately 7 times, and was completely demolished.

With Milner were PFC Robert L. Ramer of Det. B, OGMS; PFC Kenneth D. Harrison, 1st Enlisted Training Detachment, OGMS; PFC James T. Patterson, 1st ETD, OGMS; and PFC Saturnio Gonzales, 1st ETD, OGMS.

Milner and Ramer were reported seriously injured. All five men were in the Redstone Arsenal Post Hospital yesterday.

Shaggy Dog Dept.: A leopard visited an optometrist, complaining that he saw spots in front of his eyes every time he looked at his wife. The optometrist tried to explain that anyone looking at a leopard would see spots. "But doctor, you don't understand," growled the leopard. "I'm married to a tiger."

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**FOR SALE** — Like new, 29-ft. 2 bedroom 1958 Ritzcraft, \$900.00 equity for \$200.00, take over payments. See at Mirror Lake Trailer Park on U. S. 431. 1tc

**WEBB'S TRAILER PARK**, Guntersville, Ala. Located on Lake Guntersville. Water, sewerage, electricity, wash house. \$20.00 month. FULMER WEBB, JU-2-4353. 1tp

**FOR SALE** — 1953 Chevrolet, 4 door, heater, white walls, 56,000 miles, excellent condition throughout, original owner. \$550. Call Arsenal extension 6922. 1tp

**COTTAGE FOR SALE** on Guntersville Lake at Buck Island. Large living room with fireplace, large kitchen, two bedrooms and bath. Completely furnished and air conditioned. On paved road, 1½ acre lot covered with pines. Ideal for summer cottage or for permanent home. Write H. W. Clayton, Box 231, Guntersville, Ala., or phone JUstice 2-4381, day, or JUstice 2-3458 at night. 1tc

**FOR SALE** — 1956 Olds 88, 4-door, radio and heater, General dual 90 W. W. tires, \$1700.00. Phone JE 6-0174. 1 T. P.

**FOR SALE**—14-ft. plywood boat, 40 h.p. Scott-Atwater motor, electric starting, tilt-type trailer, steering wheel, windshield, running lights. See at Hale's Trailer Court, lot No. 1, Phone JE 2-5881. 8-30p

**FOR RENT** — Attractive furnished three-bedroom, air-conditioned home in Guntersville, near lake, shopping, schools, churches, TV, all electric kitchen including automatic dishwasher utility room with automatic washer and dryer, everything furnished except bed linens. Mrs. John Fohner, Redstone, Ext. 6530 or JU 2-4547 or JU 2-5245 Guntersville. 8-30c

**GUNTERSVILLE** — 3 bedrooms, 1 and ½ bath, 18 months old, 1335 sq. ft., overlooking lake, large lot, F.H.A. financing can be arranged, \$500.00 down. Call JE 6-4411, ext. 4172. tfc

**NICE 3 BEDROOM** — home, 1½ ceramic tile baths, almost ready for occupancy, located in one of the nicest sections of Arab. Small down payment. Call Cornelius Real Estate Company JUstice 2-3027, in Guntersville, Alabama. tfc

**MODERN HEALTH Club Services** — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy, sun lamp, swimming pool. Graduate Masseuse in charge. Phone JE 4-7131. tfc

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## Guntersville Home SALE OR RENT Owner Moving out of City \$20,000.00 Value

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Guntersville, Alabama  
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## Athens Home for Sale

Modern home in Athens—1 block south of new junior and senior high school, on Huntsville and Decatur road. All large rooms, modern kitchen, large dry basement with shower and utilities. Large upstairs for bedrooms, bath and storage. Beautiful lawn and shrubbery, lighted tennis court, large lot, good shade trees. Priced to sell; qualifies for GI and FHA loans. Inspection by appointment. Call or write: MELVIN L. HYATT, Athens, Ala., phone: office 969; home 1088.

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**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. tfc

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## Cockrell Receives Toastmasters Post

Charles Cockrell, ARBMA engineer has been appointed area governor for Toastmaster clubs in the Gasden-Huntsville area. Jack Marsh, District 48 Governor, made the appointment in executive committee session held in Birmingham recently.

Cockrell is an active member of the Mason-Dixon Toastmaster Club in Huntsville. He will provide direction and service to the club in Gadsden and the clubs in Huntsville.

Cockrell is making plans for an area "Humorous Speech" Contest to be held this fall. This will be in addition to the regular area speech contest held each spring.

A few active memberships are available in each of the Huntsville Toastmaster Clubs. Men who want to learn neffective public speaking or to increase their speech ability should contact Cockrell at JE 4-7734.

Toastmasters District 48, which embraces most of Alabama, has sent a contestant to the International Contest for the past three years. Local Toastmaster

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**FOR SALE** — 12 ft. Plywood Runabout, 25 hp Johnson motor and trailer. \$400. Phone Redstone, ext. 4840 days or JE 2-3743 after 5 p.m. 8-6c

## Maj. Ledford Gets Commenda'n Ribbon

Brig Gen. J. A. Barclay, ABMA Commander, recently presented the Commendation Ribbon with Metal Pendant to Maj. Gerald Ledford, Assistant Chief, ABMA Projects Office.

Gen. Barclay cited Maj. Ledford for his, "outstanding knowledge of missile programming by editing the Pershing Missile System Plan, an Agency proposal for the development of a new system, with such thoroughness that Department of Defense Officials have commented favorably on it."

Maj. Ledford has been selected to attend the Command and General Staff College at Fort Lavenworth, Kan.

enthusiasts contend this is evidence there are some "pretty good" speakers in Alabama Toastmaster Clubs.

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WALTER J. CORNELIUS

**Safe Worker Title Awarded Cornelius**

Walter J. Cornelius, Warehouseman Leader, Consolidated Supply who has been selected Safe Worker of the Week.

Walter was born in Walnut Grove, Alabama on 14 April 1923 where he lives with his wife Norma and four children, Judy, 11, Frances 7, Vickie 6 and Junior 2. Walter grew up on the farm where he learned the virtue of hard work. He graduated from Walnut Grove High School in 1941. His first public job was with Republic Steel of Gadsden, Ala. where he worked as a shipping clerk for about two years. He next worked for Landsdown Steel and Iron Corp. also of Gadsden in producing 105 MM shells for the Army.

Nearly a year after he started work for Landsdown he received his greetings from Gen. Hershey and entered the Army. He served one year overseas in the European Theater during World War II. He received four battle stars and was honorably discharged from the Army 23 Oct. 45. After this service he worked with Goodyear Tire and Rubber Co. for about eight months, when he resigned to engage in farming for himself and attend Vocational Agricultural School under the GI Bill of Rights.

Cornelius entered the civil service 14 Sept. 1950 with Arniston Ordnance Depot, as Small Arms Repairman. On Aug. 1953 he transferred to Redstone Arsenal. Although not a supervisor he is presently in charge of Consolidated Supply Div's. Materials Yard Storage Area, where he is responsible for the storage and insurance of a great variety of bulky items.

Cornelius is a worker who takes his safety and that of his fel-

America's first surface-to-surface ballistic guided missile, the Army's Corporal E, was fired in May 1947. This research test vehicle attained the range of 62.4 miles.

**Daffynitions:** Conference — a meeting of the bored.

low workers seriously. He has never had a lost time accident nor any group with whom he has worked sustained such an accident. We salute Cornelius as The Safe Worker of the Week.

**Safety Scoreboard**

(As of 4 August)

Days since last civilian disabling injury—7.	Our Goal .....	30
Days since last military disabling injury—7.	Our goal .....	33
Days since last contractor personnel disabling injury—46.	Our Goal .....	100
Days since last government vehicle accident—6.	Our Goal .....	30

**SCOREBOARD "SIDELIGHTS"**

Civilian employees established a record of 44 days (approximately 3,300,000 man-hours) without a disabling injury. The record was broken 28 July; one day short of the revised goal of 45 days. This is a commendable record, and tops all previous periods without a disabling injury since the Safety Scoreboard was initiated in the "Rocket." A Test Laboratory employe received a leg injury when he stepped through a metal grating, resulting in several days disability.

A new goal of 30 days for civilian personnel has been set which should be easy now in view of the latest accomplishment.

Military disabling injuries have continued at a "problem" pace, as well as motor vehicle accidents. Military goal has been set back to 30 days instead of 33 which was the record set some time ago. The military goal has been reached once since the Scoreboard has been published. The motor vehicle goal has not been reached.

When couples park on lonely roads The pruders get quite disgusted. But who can say—perhaps they've parked To get the clutch adjusted.

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LOU GROZA??? Not quite. The pretty converter is Roberta Morton, who practices her PATs in the surf at Miami Beach, Fla.