

The Redstone Rocket

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VOL. VIII; NO. 38

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 27, 1960

Farewell to Medaris Set on ABMA Birthday

Special Guests Will Honor Gen. Medaris Saturday

Leaders of Defense, Industry, Education Will Be At Arsenal

Secretary of the Army Wilber Brucker will be among the hundreds of special guests who attend ceremonies at Redstone Arsenal Jan. 30 honoring Maj. Gen. J. B. Medaris.

Gen. Medaris, commanding general of the Army Ordnance Missile Command, will retire from the Army that day following more than 33 years of military service.

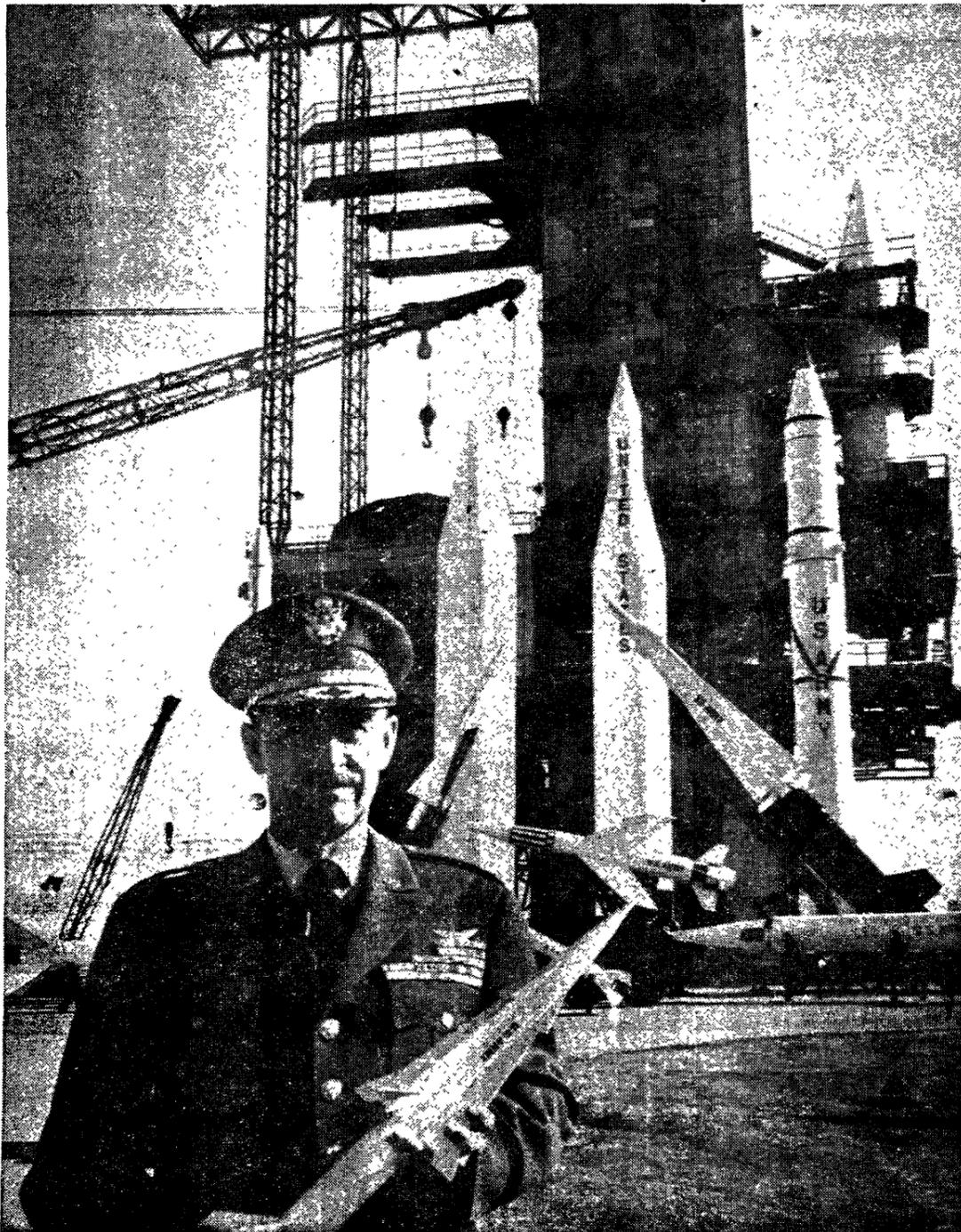
Gen. Medaris founded the Army Ballistic Missile Agency in 1956; for several years he has been a key national leader in rocketry and space research programs.

Secretary and Mrs. Brucker will arrive at Redstone Arsenal late Friday, Jan. 29. They will attend a reception Friday evening. On Saturday at 11 a.m. they will be present at a parade and retirement ceremony staged near Gate 1.

Among other Army leaders attending will be Lt. Gen. A. G. Trudeau, Chief of Research and Development; and Lt. Gen. J. H. Hinrichs, Chief of Ordnance.

Other visitors expected are Dr. T. Keith Glennan, director of the National Aeronautics and Space Administration; Dr. Hugh Dryden, NASA; Dean G. B. Carson of Ohio State University; Dr. W. H. Pickering and Dr. J. E. Froelich of the Jet Propulsion Laboratories; Roy Johnson, former director of the Advanced Research Projects Agency; Capt. W. A. Hasler, who was the director of the Navy Office at ABMA when the Agency was established.

A large number of general officers will attend.



GENERAL MEDARIS AND AOMC MISSILES—Holding a model of the Nike Zeus, General Medaris stands with the Army Ordnance Missile Command missiles and the Army Ballistic Missile Agency's test stand in the background. Left to right behind the general can be seen a satellite on a Juno II shroud with a Nike Ajax pointing left in front of the Jupiter missile. The Lacrosse is in front of the Juno II. The Nike Hercules points skyward in front of the Juno II and the Redstone. The Sergeant missile is at the far right. These missiles will be on display at the ABMA open house.

Open House Scheduled At ABMA

Retirement Review, Displays, Firings Highlight the Day

An unprecedented crowd of 25,000 visitors is expected to attend an Open House event Saturday at Redstone Arsenal.

The all-day program will have the dual purpose of honoring Maj. Gen. J. B. Medaris, who is retiring as the commanding general of the Army Ordnance Missile Command, and observing the fourth anniversary of the establishment of the Army Ballistic Missile Agency.

General Medaris, who is leaving the Army after 37 years of military service, founded the ABMA on Feb. 1, 1956, and has steered the organization to a position of leadership in the Free World's weapons development and space exploration programs.

In addition to colorful parade and retirement ceremonies for General Medaris, the day's activities will include several dozen exhibits and "live" demonstrations. The installation will be opened to the public.

The activities connected with the ABMA birthday celebration will be held in the ABMA area from 9 a.m. to 3:30 p.m. The public ceremonies honoring General Medaris will begin at 11 a.m. on the parade ground in the troop area, near Gate 1.

Among those present will be Maj. Gen. August Schomburg, who will succeed Gen. Medaris, and Brig. Gen. J. A. Barclay, the Commander of ABMA and the Deputy Commander of AOMC.

A number of distinguished visitors from throughout the country are expected.

The ABMA Open House will feature "hardware" of the Saturn booster program, the nation's (See OPEN on Page 2)

Huntsville's Growth Corresponds With Growth of Arsenal

The Redstone Arsenal and Huntsville which General Medaris is leaving at the end of this month are far different than those which greeted him upon his arrival in December 1955.

During the four year period, the very face of the land has changed, as both the city and the post have experienced phenomenal growth.

Civilian and military personnel at the Arsenal has more than doubled, from 9,048 in 1956 to the more than 21,000 employed today. Meanwhile payroll has more than tripled, increasing from \$39,960,144 in 1955 to \$132,349,000 in 1959.

The Arsenal budget, which was \$471.7 million in 1956, has increased to almost two billion dollars while the value of post facilities has grown from an estimated \$70,441,000 to a current estimate of \$133,385,000.

An additional \$26,995,000 worth of facilities are under construction. When completed this will give a total value of more than \$160 million to Arsenal facilities.

Military dwelling units alone have increased by almost 600 units since 1956.

Huntsville likewise has witnessed tremendous expansion. Population has increased from 48,082 in 1956 to a current estimate of 62,000. Retail sales, estimated at \$43,809,000 in 1950, are now run-

Assembly of Saturn Booster Is Started

Assembly began Saturday of the first Saturn booster, the basic element of the 1,500,000-pound thrust rocket system designed to give the U.S. its first space transportation capability, according to Maj. Gen. J. B. Medaris, commanding the U.S. Army Ordnance Missile Command.

The first Saturn booster is designed for static test firings and will not be launched.

The first booster is being assembled in the Fabrication and Engineering Laboratory of the Army Ballistic Missile Agency at Redstone Arsenal.

The tail section comprising eight IRBM rocket engines was moved into position in the Laboratory yesterday. The 70-foot long tanks which carry fuel and oxidizer will now be mated to the tail section.

Industrial contractors will receive instructions next week on which to base contract proposals to develop and fabricate upper stages which will be mounted on the huge booster.

The city budget has tripled. In area Huntsville has grown from 37.60 square miles in 1956 to 50. (See GROWTH on Page 2)

Elements of 82nd Airborne Will Take Part in Ceremonies

FT. BRAGG, N.C. (82d Abn Div) — A unit of the 2nd Airborne Battle Group, 501st Infantry of the famed 82d Airborne Division will participate in a STRAC Tactical Training Mission planned for about 4 p.m., Friday, Jan. 29. They will jump in at the Redstone Arsenal.

The unit will move from Fort Bragg, N.C., in six C-130's aircraft and parachute into the Arsenal area. One aircraft will air land supplies and equipment.

The Exercise is planned tactically to alert the paratroopers for the practice defense of the largest missile facility in the "Free World".

After completing the Exercise the 82nd Airborne Division paratroopers will be on parade Saturday and have a conducted tour of the Missile Base before returning to Ft. Bragg, N.C.

The operation will be a part of STRAC's Skilled, Tough, Ready Around the Clock ability to move quickly to any part of the world where they are needed for the defence of U. S. interests.

It Was Tense Time

Gen. Medaris Postponed Explorer I Launching

Weather Conditions Had to Be Right

The historic launching of Explorer I, first of the Free World's earth satellites, was perhaps the most dramatic event of all the happenings that have occurred during the period since Feb. 1, 1956 when Major General J. B. Medaris activated ABMA.

On the night of January 31, 1958, while the entire world waited breathlessly, Gen. Medaris stood beside Dr. Kurt Debus in the Army blockhouse at Cape Canaveral.

Gen. Medaris had committed his missile. For two previous days he had postponed the launching attempt because of adverse weather. The jet stream pouring out of the West at velocities in excess of 150 miles per hour injected an element of uncertainty into the situation.

Resisting the pressure exerted from the highest quarters, Gen.

Medaris had refused to risk firing until he was convinced the Jupiter C had a chance to fight its way through the jet stream at 35,000 feet.

On each of those fateful days, as the Army's missile team moved into Page 1 headlines, the General played golf for several hours. His innermost feelings were carefully concealed. To the men of the Debus firing team, he appeared confident, sure of success, almost nonchalant as he visited the blockhouse, spoke reassuringly, laughed frequently and buoyed up their anxiety-torn spirits.

On the night of Jan. 30th the missile had been fueled and was ready for the final command. Once again, having weighed the calculations of the ABMA designers against the stress and strain factors posed by the jet stream, he decided to postpone for 24 hours.

(See POSTPONED on Page 3)

The Redstone Rocket

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OPEN

(Continued from Page 1)

number one space vehicle project. Several other missiles will be shown, including a group which will be exhibited by the Army Rocket and Guided Missile Agency.

All of the smaller displays will be centered at ABMA's building 4650, which is located off Dodd Road south of the Agency's headquarters.

Among the highlights tentatively scheduled for the open house are:

The public will see for the first time actual Saturn booster sections which are being produced at the Agency's Fabrication Laboratory.

A total of five static firings of IRBM-type liquid rocket motors at the Test Laboratory. At this site, visitors will also see the 175-foot static test stand which has been prepared for the Saturn program.

ARGMA will display the Corporal, Honest John, Little John Sergeant, and other surface-to-surface missiles, at building 4650.

ABMA will exhibit, in addition to the Saturn components, the Redstone and Jupiter ballistic missiles, for which the Agency is responsible, and the Juno II vehicle which has been used in a number of space research experiments.

The Systems Support Equipment Laboratory will stage a demonstration of the Jupiter missile—erecting and lowering the huge weapon—every half hour.

In the Fabrication Laboratory, visitors will also see Juno II vehicles which are being produced for future space assignments, and modified Redstones, being readied for the NASA Mercury program.

The Signal Office will sponsor a demonstration of live black and white and color television.

Several photographers will snap complimentary pictures of visitors posing with "space hard-

GROWTH

(Continued From Page 1)

67 square miles, an increase of more than 8,000 acres.

More than 7000 new dwelling units have been added to the city. During the four-year period, more than 11 million dollars was spent on business construction, more than six million on sewer construction, more than a million on church construction, and more than five million on school construction.

City school enrollment has grown from 9,126 to 14,873. Seven new schools and more than 200 classrooms have been added to the system.

Enrollment at the University Center has more than doubled.

ware," and provide one-minute prints.

The Guidance and Control Laboratory will display several items, including a satellite identical to Explorer VII, which was launched by ABMA last October and is the nation's most advanced earth orbiter.

The Computation Laboratory will sponsor an exhibit demonstrating the computation of a missile trajectory or satellite orbit.

A model of the Saturn launch complex will be shown.

Fabrication Laboratory will display a quarter-scale model of the Saturn booster. Structures and Mechanics Laboratory will show a smaller-scale model of the complete Saturn vehicle.

Structures and Mechanics will show the capsules in which the famous Able-Baker monkey team made its trip through outer space.

Numerous other exhibits are also being planned.

Except for the activities in the Fabrication, Test and System Support Equipment laboratories, all displays will be in or immediately surrounding building 4650, several hundred yards south of ABMA headquarters and immediately south of the Computation Laboratory.

Buses will carry visitors to the three laboratories which are to be open.

Three cafeterias and a number of mobile canteens will be open in the ABMA area.



FLYING MISSILEMAN—Gen. Medaris became an Army Aviator who clocked more than 52 full, 24-hour days in the cockpit of his Army plane during his assignment as Commanding General of the Army Ordnance Missile Command.

Gen. Medaris Sees Military Facilities, Personnel Increase

During the four years which Maj. Gen. J. B. Medaris was at Redstone Arsenal the military population more than doubled, expanding from 1839 in January, 1956, to 3920 at the time of his retirement as Commanding General of the Army Ordnance Missile Command.

There was a corresponding growth of the on-post facilities to house military personnel and their families, and to provide them with the customary facilities for recreation, social, and religious activities.

Ground was broken in September of 1956 for the first of a three-phase construction program which resulted in 720 new military family housing units at Redstone. These included 50 Military Construction-Army units to the north of the Wherry housing project on Goss Road, and two Capehart housing projects, totaling 670 units. Original estimates placed the cost of these three projects at 10 million dollars.

Capehart Units
The Capehart units consisted of two, three, and four-bedroom houses of brick veneer with wood siding variations. Furnishings included tile baths, refrigerators, and ranges.

Housing units at Redstone Park were vacated by civilian

employees and renovated for occupancy by military personnel. Needed repair work was accomplished, the buildings repainted, and natural gas was installed to replace kerosene heaters and water heaters.

New Service Club Opened

The New Rocket Service Club was formally opened in August, 1956. It houses a library, and has music rooms, game rooms, a TV room with an oversized screen, and a fully equipped kitchen for special parties. The huge lounge doubles as a ballroom, and has a stage with adjoining dressing rooms.

The Post Crafts Shop was opened in October, 1956. It contains areas to work on small crafts such as ceramics, painting, leather work, etc., has a large wood-working shop large enough to build a boat, an automotive parts section where a motor can be completely rebuilt, kilns for pottery makers, and a photographic dark room. Trained personnel are on duty to assist with projects undertaken by users of the facilities.

Model Chapel Built

A new Post Chapel, which will be used as a model throughout the Army, was opened for its first service on Redstone Arsenal on Sunday, June 9, 1957. It was formally dedicated on Sunday, July 21, with the Deputy Chief of Chaplains for the Army, Brig. Gen. Frank A. Tobey, delivering the dedicatory address.

In October, 1957, the Redstone Room, social center for officer activities, was formally opened.

Facilities of the Mess Annex in Bldg. 111 on Squirrel Hill were refurbished for this purpose.

A bath house was built at the post swimming pool. Of concrete block construction, it contains individual showers, modern plumbing facilities, and individual dressing booths in the ladies' section. A picnic area was cleared near the swimming pool, and the entire area was landscaped. A picnic area was also built on the Tennessee River near the docks, and a harbor was built there for small boats.

A new Post Exchange was built near the Post Theatre during the past year. The one-story reinforced concrete building has a floor area of approximately 11,600 square feet. It is air conditioned, well lighted, and has ample parking space.

The nine-hole Post Golf Course was officially opened on Friday, July 3, 1959. Maj. Gen. J. B. Medaris performed the ribbon cutting ceremony at the No. 1 tee, and hit the first ball. The course is located one half mile west of Squirrel Hill, near Gate 9.

Rhymes of the Times

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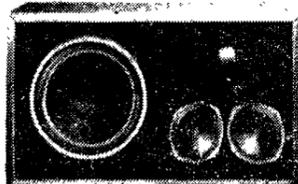
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GEN. MEDARIS TEAM ACHIEVED MANY FIRSTS

When historians and textbook authors of the future write about the colorful first years of the Space Age, perhaps one of the most colorful figures they describe will be Maj. Gen. John Bruce Medaris.

Serving first as Commander of the Army Ballistic Missile Agency and later as Commanding General of the Army Ordnance Missile Command, Gen. Medaris was a prime moving force in the historic space accomplishments achieved for the Free World under the auspices of those two organizations.

Even before a "man in space" program was officially initiated, Army scientists and engineers under Gen. Medaris' command found the first solution to a most important problem which would be a basic consideration in such a program. On August 7, 1957, the aerodynamic heating problem of re-entry was solved when a nose cone from the Jupiter C (Composite Re-entry Test Vehicle) was recovered from the South Atlantic.

On Nov. 8, 1957, ABMA was directed to prepare two satellite vehicles as back-up for the Vanguard program. On Jan. 31, 1958, the hopes of millions of people soared aloft with the launching of the first Free World satellite into orbit around the earth, Explorer I. This dramatic and spectacular event focused the attention of the world clearly on the capabilities of Gen. Medaris and his command.

On March 26 of the same year, these capabilities were further demonstrated by the launching of ABMA's second successful earth satellite, Explorer III.

Gen. Medaris' career took a new turn on March 31, 1958, when all elements of Army Ordnance missile and space research and development were unified under a single command, the Army Ordnance Missile Command, with headquarters at Redstone Arsenal and the general at the helm.

Two months later, in May, 1958, ABMA launched and made the first recovery of a full-scale Jupiter heat-protected nose cone flown the full range of the missile.

The Explorers continued to fly, adding to the luster of Gen. Medaris' already sparkling Army record. On July 26, 1958, came the launching of ABMA's third successful earth satellite, Explorer IV.

The responsibility for a new and vastly significant new program was added to the burden already resting on Gen. Medaris' broad shoulders in August, 1958, when the Saturn Project was initiated, to be carried out by ABMA, first for the Advanced Research Projects Agency, Department of Defense, and later for the National Aeronautics and Space



WELCOME FOR GEN MEDARIS—Maj. Gen. J. B. Medaris (left), and Maj. Gen. H. N. Toftoy, former commander of Redstone Arsenal, salute during the ceremonies of welcome for Gen. Medaris to his command at the Army Ballistic Missile Agency, Jan. 30, 1956.



GEN. MEDARIS spent the tense moments before the launching of Explorer I with scientists and technicians in the blockhouse at Cape Canaveral, Fla. on Jan. 31, 1958.

POSTPONED

(Continued From Page 1)

As he rode back to his quarters that night he revealed for the first time that he was fully conscious of the tension building up in Washington and the disappointment that followed upon his decision.

"But," he pointed out, "I still have a missile on the pad!"

Next day, despite advance warnings to the contrary, the weather conditions turned more favorable. The General had instructed Dr. Debus that another postponement - it was Friday - would mean holding up until later the following week. He would not expose the firing crew to an extension of the tense waiting over the week-end.

The Missile Firing Laboratory team refueled the Jupiter C with the customary dispatch - but there was not the slightest evidence of haste or excitement.

As the countdown entered its last phase Gen. Medaris walked about the crowded blockhouse with Dr. Debus, smoking an occasional cigarette, joking with the men at control panels and telemetry stations.

Seconds before the missile was to ignite the test coordinator, Bob

Moser, suddenly called "Hold!"

Gen. Medaris and Dr. Debus whirled around to face Moser.

"There's a jet vane deflection - what do you want to do?"

Dr. Debus lifted his hand. "Forget it!" he ordered.

Then came the terse "Firing Command!" With that ringing order Moser launched the United States into the Age of Space.

Eight minutes later Gen. Medaris advised Dr. Wernher von Braun and Secretary of the Army Wilber Brucker, waiting in the Pentagon, that Jupiter C had performed perfectly.

When the satellite approached the West Coast, nearing the completion of its first orbit, the Secretary called Gen. Medaris.

Mr. Brucker extended his personal congratulations and then he told the General the name which he and Gen. Maxwell Taylor had selected for the Army's first satellite - Explorer.

The General wrote it down on a yellow note pad and passed it to his associates.

At the Patrick Air Force Base theater the General, Dr. Debus, Dr. Ernest Stuhlinger, Dr. Froehlich and others faced 175 newspaper, radio and TV correspondents at a momentous press conference. The hard-boiled reporters cheered and applauded as the Army spokesman entered a demonstration of respect rarely shown by the press.

Hours later Gen. Medaris finally reached his Melbourne cottage, only to be greeted by more photographers and reporters. Finally, a policeman standing outside, he got to bed.

In less than two hours he was up again, in his plane, and headed for Huntsville and a wild reception.

Those are some of the memories he carries with him into retirement.

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Administration. ABMA was named systems manager for the entire space vehicle, and assigned development of the first stage booster, a grouping of H-1 liquid propellant engines to have a total thrust of 1,500,000 pounds.

Launching of ABMA's first deep space probe, Pioneer III, occurred on Dec. 6, 1958. Although it did not escape Earth's gravity, Pioneer III climbed to an altitude of 63,000 above the Earth.

Gen. Medaris became even more deeply involved in the nation's space program when, in February, 1959, ABMA's participation in Project Mercury was announced. In this manned space flight project, sponsored by NASA, the Army's Redstone missile will transport the Mercury space capsule over ballistic trajectories at the Atlantic Missile Range. The program will test the functioning and separation of the capsule, and also to give Mercury Astronauts a test ride in the capsule.

On March 3, 1959, ABMA's se-

cond deep space probe, Pioneer IV, escaped Earth's gravity to become the first "made-in-the-U.S." satellite of the Sun.

Another colorful chapter in General Medaris' record was written on May 28, 1959, with the first successful flight of primates into outer space. Two monkeys, Able and Baker, rode in a Jupiter nose cone to an altitude of 300 miles and a distance of 1,500 miles, successfully withstanding 38 times the normal pull of gravity and a weightless period of nine minutes.

Gen. Medaris' final great accomplishment in space before his retirement came with the Oct. 13, 1959, launching of the Explorer VII earth satellite under direction of NASA.

With his retirement on Jan. 31, 1960, Gen. Medaris will close out an Army career which is unique in the annuals of military service. The final years of his career were the fledgling years of the new Age of Space. His place in history is secure.

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Social News



INFORMAL PORTRAIT—Maj. Gen. and Mrs. J. B. Medaris in an informal portrait taken at their quarters at Redstone Arsenal.

Medaris Family Celebrated Many Firsts Apart From Public Life

Weddings, Births, Graduations Are Some of Highlights

While Gen. Medaris looks back on his life at Redstone Arsenal and recalls the many historic moments in which he played a vital role in the drawing of the Space Age, Mrs. Medaris will, like any woman, especially cherish those moments which marked high points in the personal life of her family.

Since her arrival at Redstone on Jan. 30, 1956, nearly a dozen major events have occurred which are highpoints from a woman's point of view.

An Anniversary and a Graduation
A silver anniversary and a graduation were major family events of 1956.

It was on August 29, 1956, that General and Mrs. Medaris observed their 25th wedding anniversary by renewing their wedding vows at an Episcopal communion service held in the Redstone Arsenal Chapel. Chaplain (Maj.) E. M. Tainton from Camp Gordon, Ga., officiated at the ceremony and a special guest at the occasion was Gen. and Mrs. Medaris' daughter Marta Virginia, who was attending the Chapel City School of Nursing in Washington, D. C.

Next, in October 1956, came Marta's graduation from the nursing school with highest honors.

A June Wedding

The highlight of 1957 was Marta's marriage on June 8 to Capt. Charles Kenyon Woody, son of Col. and Mrs. Kenyon Woody, USAF, of El Paso, Tex. Capt. Woody was a project officer in the Army Ballistic Missile Agency and Marta was on the nursing staff at the Redstone Post Hospital. The wedding was the first sacrament celebrated in the new Post Chapel with Chaplain (Maj.) James H. Goewey officiating. In preparation for the ceremony, Mrs. Medaris, like many a mother-of-the-bride, labored long and lovingly making Marta's wedding dress, a creation of chantilly lace over white satin.

1958 - A Banner Year

The year 1958 was a banner year for the Medaris family and for the Space Age, as well, as the Army Ballistic Missile Agency launched the Free World's first earth satellite on Jan. 31. Just 12 days later a major event occurred in the Medaris family — twins were born to the General's oldest daughter, Mrs. E. N. Stillings, wife of the Rev. Stillings of Shelbyville, Ind. In addition to the twins, Gordon Eugene and Mary Anne, the Stillings have three other sons, Jeffrey, Douglas and David.

Mrs. Medaris felt the impact of public interest in the Space Age on Feb. 14, 1958, when both

she and the General appeared on the Nationwide Person-to-Person television show.

she and the General appeared on the Nationwide Person-to-Person television show.

Another addition to the Medaris family, Lisa Ellen Woody, put in her appearance on June 20, 1958 — the first child born to Capt. and Mrs. Woody.

This happy event was followed in August with a christening service for infant Lisa, which also marked a family reunion for General and Mrs. Medaris. Rev. Stillings officiated at the Post Chapel christening ceremony. Gen. and Mrs. Medaris' son, then Cadet John Bruce Medaris Jr., served as acolyte and godfather, while Mrs. Stillings and Miss Barbara Woody, Capt. Woody's sister, were the baby's godmothers.

Following the ceremony, the participants gathered for a historic family portrait which included General and Mrs. Medaris, Cadet Medaris, Capt. and Mrs. Woody and daughter, and the Rev. and Mrs. Stillings and their five children.

A Graduation and a Wedding

The Medaris' personal calendar now turns to June 1959, marking two major events in the life of John Bruce Medaris Jr. — his graduation from the U.S. Military Academy at West Point on June 3 followed by his marriage to Miss Dorothy Anne Hellriegel, daughter of Mr. and Mrs. Frederick Joseph Hellriegel of Hempstead, N. Y.

The wedding on June 6, took place in the Our Lady of Loretto R. E. Church at Hempstead.

The latter half of 1959 was highlighted with the birth of a son, Bruce Kenyon, to Capt. and Mrs. Woody, at Albuquerque, N. Mex.

Today, as Gen. and Mrs. Medaris prepare for their departure from Redstone, we find Lt. and Mrs. Medaris, Jr. preparing for an assignment in Europe which will come within the next few months. Meanwhile Capt. and Mrs. Woody are at Ft. Sill, Okla., where the Captain is presently assigned, and the Rev. and Mrs. Stillings are at Greencastle, Ind., where Rev. Stillings is pastor of the St. Andrews Episcopal Church.

Accountants Meeting Scheduled Tomorrow

The Huntsville Chapter of the Federal Government Accountants Association will have a dinner meeting on Jan. 28 at 6:30 p.m. in the Blue Room of the Russell Erskine Hotel. This will be the first regular monthly meeting for the recently organized group.

The F.G.A.A. is a professional society for men and women in Federal service whose duties are at a policy-making or monogerial level in the accounting and financial management field.

A social hour for getting better acquainted will follow the dinner Thursday.

RESERVES MEET

At the regular meeting on Jan. 26 of the Naval Reserve Research Company 6-17, Huntsville, LCDR Walter L. Berry, Jr., USNR lectured on Solid Rocket Propellants. LCDR Berry is the Project Manager on the Project Management Staff of Thiokol.

Motor Facility Contract Goes To Butler and Cobbs

Col. R. W. Lowe, U. S. Army District Engineer at Mobile, Ala., announced the award last week of a contract amounting to \$109,714 to the firm of Butler and Cobbs, Montgomery, for the construction of a motor conditioning facility at Redstone Arsenal.

The construction will include a motor conditioning building, boiler house, all necessary utilities, a paved access drive, and a security fence. The facility will be used in connection with work on the Nike-Zeus anti-missile missile, now being developed under the direction of the U. S. Army Ordnance Missile Command's Rocket and Guided Missile Agency.

Butler and Cobbs is expected to complete the entire work, except for the maintenance of sprigged areas, by mid-October 1960.

Dr. McMahon Will Be Guest Speaker at Chemists' Meeting

The Alabama Chapter of the American Institute of Chemists will meet Thursday, Feb. 4, at the Russell Erskine Hotel.

There will be social hour at 6 p.m., followed by dinner at 7 p.m. (\$3.00 per plate).

Dr. Ottis K. McMahon, consultant

psychologist from Atlanta and a partner in the firm of Rohrer, Hibler and Repogle, will be speaker for the evening. His subject will be "Making Executives out of Chemists."

Reservations to attend should be made by Tuesday, Feb. 2, with Wilbur Riehl, ext. 3-1730 (ABMA), Martin Williams, ext. 3-77-43 (ARGMA), Dr. Bruce Graybill ext. 414, (Rohm and Haas), or Bill Guthrie, ext 6-6153 (Thiokol). Wives and friends of mem-

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bers and others who are interested are invited to attend.

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At the Service Club

TOURNAMENTS: A Pool Tournament will be held on Jan. 28 at 1800 hours. Don't forget to sign up now. A prize will be awarded to the winner.

DANCE CLASSES: Frances Harold will teach Cha Cha at 1900 hours on Jan. 29. Ray Pisani will be teaching the fifth classes in Fox-trot and Tango.

SKIT PARADE: Pat Webb. MC for the evening program, will be introducing the following performers for the evening: Ronnie Soares with his Hawaiian band; Dave Van Housen and Dot Worley in a play "Let's Get Married"; Sgt. Galanti Gemors, 5th Det. IAF, singing and Steve Mortimer accompanying him at the piano; and Ken Domke at the guitar.

DANCE: The Birthday Tea Dance with hostesses from Birmingham and Huntsville will start at 1600 hours on Jan. 31. A buffet supper will be served at 1900 hours.

SPG. The Show Production Group will present "Holiday for Lovers", a romantic comedy on March 10 and 11. King Harrison from the Post TV Branch will direct the play. Final casting will be completed this week. The following persons have been selected for the cast: Dot Worley, Ginger Thomason, Gene Bern, Dave Hall, Guy McAllister, Johnnie Howard, Frank Carbaugh and Christine Leonard.

E.M. Council: The Enlisted Men's Council meets at 1330 hours on Feb. 3 in the Service Club.

GLEE CLUB: The Male Glee Club needs a director for this group. The group practices every Thursday night at 1930 hours.

Aimo Corenzo, OGMS, and Tony Dan Galvan, 2nd ETD, won

the Shuffleboard Tournament at the Service Club on Thursday night.

Quality Control Group to Meet At Elks Club

The next meeting of the Huntsville Section of the American Society of Quality Control will be held at the Elks Club in Huntsville on Jan. 28. Social hour will be at 6:30 p.m.

The speaker will be Roger W. Anderson who is Supervisor, Quality Control Engineering, Texas Instrument Company, Inc., Dallas, Texas. Anderson will talk on "Applications of Analysis of Variance and Experimental Devices."

Reservations should be made with one of the following members, Decatur - S. J. Courney EL 3-2120 Ext. 432 or Sam Patton EL 3-1310 Ext. 53, Huntsville - Richard E. Courtney JE 6-1769 or Arthur Nordstrom JE 4-0739.

Mrs. DeYoung Has High Canasta Score

The canasta group of the Redstone Arsenal Officers Wives Club met Thursday evening with three tables in play.

Mrs. Robert Deyoung scored high while Mrs. Arthur Plautz was low.

The canasta group meets weekly on Thursday evenings at 7:30 p.m. at the Officers Club. All members of the Wives Club are invited to participate. Reservations to play this Thursday should be made not later than Wednesday with Mrs. Eugene Krembs, ext. 5-9379, or Mrs. Donald Voorhees, JE 9-2452.

Mrs. Heller Wins At Party Bridge

The party bridge group of the Redstone Arsenal Officers Wives Club met Thursday with five tables in play.

Mrs. R. G. Heller was high and Mrs. A. Y. Harper placed second. The party bridge group meets weekly on Thursdays from 10 a.m. until 2 p.m. at the Officers Club. All Wives Club members

ARGMA Men Have 15-Day Active Duty Tour at Army Range

Two employees of the Army Rocket and Guided Missile Agency recently completed a 15-day tour of active duty with the ARGMA Project Office of the Atlantic Missile Range Army Field Office at Cape Canaveral, Fla.

First Lt. Barry D. Allan, a propellants research chemist, and 1st Lt. Ernest D. Williams, an industrial operations officer, are assigned under Maj. Oswald Remer, chief of the ARGMA Project Office at Patrick Air Force Base, headquarters of the Air Force Missile Test Center. The Army Field Office is commanded by Col. James D. Sams.

RADIO ENGINEERS MEET

Institute of Radio Engineers, Huntsville Section, will meet at 7:30 p.m., Jan. 28 in the small auditorium at Huntsville High School. Speaker will be Dr. Lawrence P. Antzak, with the Electromechanical Research, Inc. His subject will be "Pulse Modulation techniques."

Mrs. Wagner Shares Top Bridge Honors With Capt. Kostoff

Mrs. Matt Wagner and Capt. Peter Kostoff took top honors in party bridge competition at the Officers Club on Monday night, Jan. 18.

In second place were Mrs. Fred Ellis and CWO Robert Granger.

Reservations to participate in party bridge held Monday nights at 7:30 p.m. at the Officers Club should be made not later than Saturday noon with Mrs. John Severeid, ext. 5-7841.

are invited to participate. Reservations should be made not later than Wednesday noon with Mrs. R. S. Macy, JE 9-2531.

Typing Champ Will Demonstrate Here

Typing demonstrations are scheduled for Feb. 1, 2, 3 at 10 a.m. and at 2 p.m. each day by George Hossfield, world's champion speed typist ten times. This is sponsored by the Training Branch, Redstone Arsenal Civilian Personnel.

The demonstration will be one hour long, and will cover demonstration for best results on the electric typewriter, caring for the typewriter, and how to save time and effort. The demonstrations are all scheduled at the Rocket Auditorium with the exception of the one at 2 p.m. on Feb. 2. The afternoon session on Feb. 2, will be at the Post Theater.

FAST SERVICE
STUTTGART, Ger., (ANS) — Military personnel in the Stuttgart Area are now receiving one day air mail service to the States via commercial jet airliner. Mail picked up here at 7:30 A.M. reaches New York by 11 P.M.

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MRS. VERGIE ROBINSON — Phone JE 2-3339

Religious Services

PROTESTANT POST CHAPEL — BLDG. 314

Sunday: 1000 and 1115 hours — Morning Worship, general Protestant services.

Church School — 1000 hours — 1st session 4th grade thru Adult Class.

1115 hours — 2nd session 3 yrs. of age thru 3rd grade.

Nursery for babies and small children is open during these two services.

1830 hours — Christian Youth Fellowship, Jr. Hi and Senior Hi. Buses will pick up those attending.

Tuesday: 1830 hours — Enlisted Men's Christian Union.

Wednesday: 1845 hours — Chancel Choir Rehearsal.

REDSTONE PARK COMMUNITY HALL

Sunday: 0945 hours — Sunday School Classes.

11 hours — Mornnig Worship Service

Wednesday: 1900 hours — Family Night Service.

JEWISH

Temple P'Nai Sholom (Corner

of East Clinton and Lincoln). Friday — 2000 hours—Regular Service. O'Neg Shabbot (Sabbath Social) at Temple Annex.

CATHOLIC

Sunday: Masses — 0745, 0845 and 1230 hours (Nursery available during Masses).

Baptisms — 1330 hours (By appointment).

Teenage Religion Class — 1830 hours.

Monday Inquiry Class — 2000-hours.

Tuesday: Alter Boys' Class — 1830 hours.

Novena in Honor of Miraculous Medal—1930 hours.

Choir Rehearsals—2000 hours.

Wednesday: Mass—1700 hours.

Saturday: Catechism Classes—0930-1130 hours.

Confession—1800-1900 hours.

Daily Mass: 1130 hours (except Wed.)

CHAPEL NO. 2 (A. F. Area)

Sunday: Mass (Italian) 1100 hours.

CHRISTIAN SCIENCE SERVICES

Sunday — 1100 hours—Held in Huntsville at White St. and Wells Avenue.

Wednesday meeting—1930 hours.

If things do not turn out as we wish, we should wish for them as they turn out. —Aristotle

Safety Scoreboard

(As of 25 Jan.)

Days since last civilian	16
Our Goal	50
Days since last military	10
disabling injury	30
Our goal	50
Days since last contractor	12
personnel disabling injury	50
Our goal	30
Days since last government	3
motor vehicle accident	3
Our goal	30

DRIVING RECORD (Government Vehicles)

(As of 25 Jan.)

Organization	No. Accidents (1960)	Days Since Last MA Accident
Transportation Div. (RSA)	2	10
Post Engineer Div. (RSA)	4	4
Provost Marshall Div. (RSA)	1	3
Depot Operations (RSA)	0	123
All Other RSA	1	22
Thiokol (ARGMA)	0	57
All Other ARGMA	0	147
OGMS	0	181
ABMA	1	3

Special Services Activities

POST SERVICE CLUB OPERATING HOURS

Monday thru Saturday 1000-2200

Sunday and Holidays 0900-2200

POST LIBRARY OPERATING HOURS

Monday thru Friday 0900-2200

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CRAFTS SHOP OPERATING HOURS

Monday thru Friday 1000-2200

Saturday and Holidays 0800-1630

RSA BOWLING LANES OPERATING HOURS

Monday thru Saturday 1200-2200

Sunday and Holidays — 1300-2100.

POST GYMNASIUM:

Weekdays — 1300-2100.

Saturday 0900-1630.

Sunday and Holidays 1300-1630

GOLF COURSE OPERATING HOURS

Saturday, Sunday and Holidays 0730 until dark.

All other days — 0800 until dark.

TENNESSEE RIVER PICNIC AREA

Weekdays — 13-2100.

Saturday, Sunday and Holidays —0900-2100.

For reservations of more than two tables, contact the Sports Section, ext. 2943.

U. S. MILEPOST: The first American Flag of seven red and six white stripes was raised at Cambridge, Mass., Jan. 2, 1776.

Rhymes of the Times

By doing things one by one the hardest tasks are often done.



WASHINGTON, (ASN) — Additional information about the American Chess Foundation's tournament for both Active and Reserve Service personnel (with prizes ranging up to \$1,000!) may be obtained from committee chairman, Colonel John D. Matheson, 1512 North Highland St., Arlington, Va.



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No. 26—4 dr. Bel Air V-8. Power Glide, radio, heater, two-tone, white sidewall tires \$1495

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No. 20—4 dr. Super '88'. Radio, heater, full power, white sidewall tires. Nice. \$2495

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1958 CHEVROLET

No. 13—4 dr. Bel Air V-8. Automatic transmission, radio, heater, clean \$1795

1956 OLDSMOBILE

No. 10—4 dr. Radio, heater, auto. trans. Clean \$1295

1958 FORD

No. 7—4 dr. Fairlane. Radio, heater, Fordomatic. Extra Clean \$1695

1956 CHEVROLET

No. 3—4 dr. Bel Air. Radio, heater, V-8 engine, automatic transmission, air conditioned, white sidewall tires \$1295

1958 CHEVROLET

No. 602—4 dr. Radio, heater, automatic transmission.... \$1395

1959 CHEVROLET

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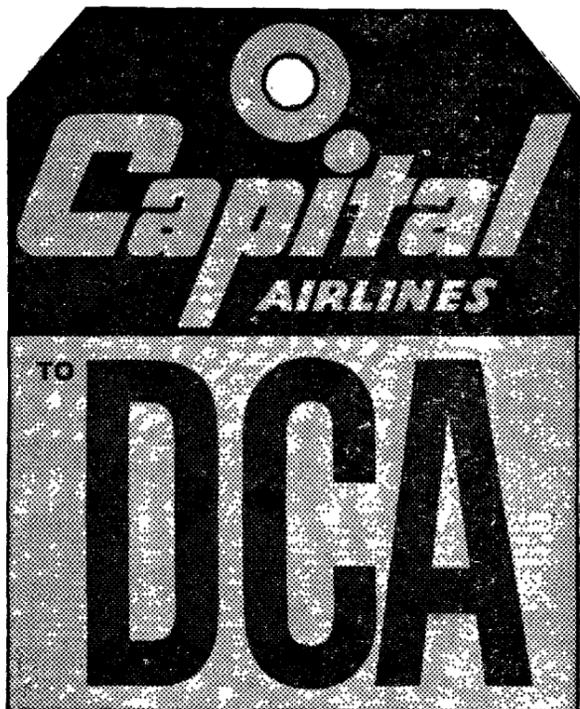
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Early Gleam in ABMA Eye Became a Gleam in Sky

It was the first day for ABMA . . . and a big day. It was Wednesday and raining . . . that first day of February four years ago. The "Big M" was on deck and ready for business. He had hurried onto Redstone Arsenal two days earlier behind the wheel of a flaming red Jaguar. And now, 48 hours later, The Army Ballistic Missile Agency was about to be born in the middle of the morning in front of Building 4488. It was a day of hope, humor, and dampness. Big things were in the air. Even then, the missile team had a gleam in its eye that later became a gleam in the sky.

The future ABMA headquarters building was not yet complete. But out front stood the new flag pole with irreverent gusts flipping the flag about. Perched below the flag something new to Redstone popped briskly in the wind . . . a major general's flag with its two white stars in a field of red. One hundred yards away grew a big oak tree, bare and ugly, that is no longer there.

A small crowd of military and civilian staff members huddled under the shelter at the entrance to 4488 talking about the ceremony soon to start.

Photographers guarded their lenses to keep them dry. Swishing and clunking toward them marched the troops who were to take part. Damp as they were, they looked sharp.

Two or three Army sedans drove up to the steps and deposited passengers.

Then down Martin Road from the East, came Gen. J. B. Medaris' sedan. The excitement grew and talk became more animated. Pulling to a sharp halt between the troops and the onlookers, the General stepped to the pavement. He shot a grim look at the sky and smiled broadly at the people.

Among those assembled on the steps and walkway were Dr. Wernher von Braun and Dr.

Eberhard Rees. The General joined them briefly just before the ceremonies got underway.

Suddenly, somebody realized that Dr. von Braun's personal automobile (then an old model car of uncertain reliability) was still parked directly in the line of march of the troops. With the formation about to get underway, von Braun stopped chatting for a moment and urged Rees to go out and drive his car out of the way. Rees jumped in hurriedly. He jerked the levers and gears about, kicked the starter, and tried anxiously to start the motor. No luck. Dr. von Braun rushed out to save the day, getting the car moved just in time. As von Braun and Rees trotted back to the crowd, a loud voice from the rear said clearly: "Wernher von Braun will never take Eberhard Rees to the moon with him!"

Brief moments later, as the flag was raised and the troops did their bit, ABMA was created. Capt. Jim Minter made it official when he read the general order activating the agency.

Gen. Medaris gave the final salute and the Army's newest agency became a fact.

Feb. 1, 1956 . . . Leap Year in more ways than one.

As Gen. Medaris clipped the ribbon to ABMA headquarters (then building 421) after the official ceremony, he said.

"Well, now we're strictly in business."

On the day that he made that statement:

1. Senator Jackson, the chief of the Military Applications Subcommittee, said: "There is danger that the Soviets may fire a 1500 mile missile before the end of the year."

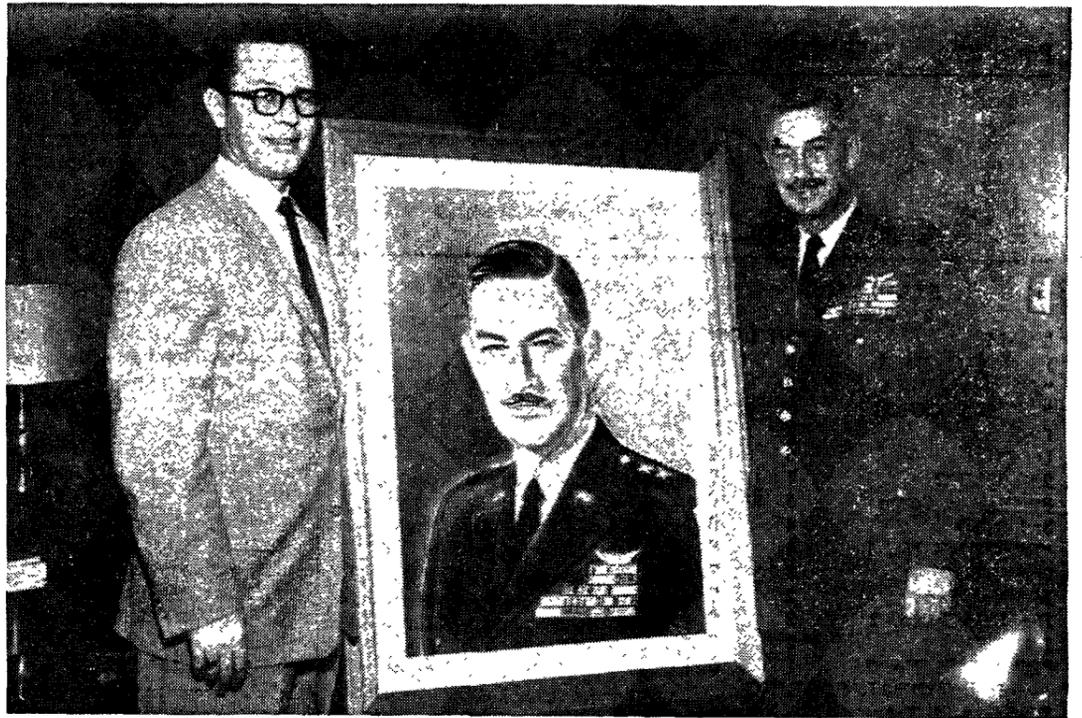
2. Secretary of Defense Charles Wilson announced that he would shortly appoint a missile Czar over the U.S. missile programs.

3. And Trevor Gardner, assistant secretary of the Air Force, resigned.

On that same day at Redstone Arsenal:

1. Three fund raising drives began and two ended.

2. The Civilian Personnel Office issued an urgent call for top flight scientists and engineers to drop everything and come to



GENERAL'S PORTRAIT—Maj. Gen. J. B. Medaris (right), Commanding General of the Army Ordnance Missile Command, poses beside a pastel portrait of himself which was a farewell gift from the Redstone Division of Thiokol Corp. J. W. Wiggins, plant manager at Thiokol, presented the portrait to the General last Friday. The painting was done by Pat Crow, a Thiokol illustrator.

Births at Post Hospital

Deborah Ann Catey, 8 lbs. 1½ ozs., Jan. 14, daughter of SP-4 and Mrs. Stacy A. Catey.

Robert Albert Morin, 6 lbs. 1½

ozs., Jan. 15, son of SP-4 and Mrs. Roland Morin.

Julia Kathleen Gibson, 7 lbs. 6½ ozs., Jan. 16, daughter of Capt. and Mrs. Charles T. Gibson.

Linda Susan Moxley, 6 lbs. 3 ozs., Jan. 17, daughter of 1st Lt. and Mrs. Thomas T. Moxley.

Pamela Ann Whisenant, 6 lbs. 6¼ ozs. Jan. 18, daughter of SFC. and Mrs. James L. Whisenant.

Laura Ann Chick, 8 lbs., Jan. 18, daughter of SP-4 and Mrs. Donald E. Chick.

Cynthia Diane Rivera, 8 lbs. 15½ ozs., Jan. 19, daughter of Sgt. and Mrs. Salvatore Rivera.

work for ABMA.

3. And Miss Pauline Posey was selected the Redstone Rocket Pin-up girl. She was clad, appropriately, in boots, a bathing suit and an umbrella.

Meanwhile, on that day, a man named Maj. Gen. John Bruce Medaris assumed command of the Army Ballistic Missile Agency and got down to business.



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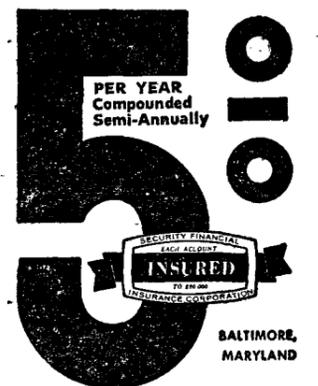
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- 20 Good Used Automatic Washers . . . \$69.50 Up
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- End Tables . . . \$1.95 Up
- Coffee Tables . . . \$4.95 Up

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SPORTS

STANDINGS

TEAM	WON	LOST
Hq USAG No. 1	10	0
"B" Det ABMA	10	1
"A" Det OGMS	8	2
Officers	7	3
UTC	6	4
291st MPC	7	5
864th Air Force	5	6
3rd ETD	4	6
"B" OGMS No. 1	4	6
2nd ETD	3	7
Medical Det	2	7
Hq USAG No. 2	2	8
1st ETD	2	8
"B" OGMS No. 2	1	8

INDIVIDUAL SCORING

Player and Team	Average
Collier - Hq USAG No. 1	19.6
Delegar - 864th Air Force	17.0
Reynolds - "B" OGMS No. 1	12.7
Hoffstader - "B" Det ABMA	12.5
Bacon - "B" OGMS No. 2	10.8
Vaccaro - 2nd ETD	10.8
Apke - UTC	10.6
Arnett - 3rd ETD	10.3
MacVaine - Hq USAG No. 1	10.1
Nichols - "A" Det OGMS	9.3
Jergenson - UTC	9.3
Morse - Officers	9.2
Huntsicker - "A" OGMS	9.1

Excerpt from RSA Cir 28-2 (Basketball Rules) "HIGH AVERAGE AWARD: The player with the highest average for the season will be awarded an individual award. Player must have participated in eight league games". Individuals who are not scheduled to play in eight games have been dropped from this column.

BASKETBALL SCHEDULE

Jan. 27 - UTC vs "B" Det ABMA, 1800; 2nd ETD vs Medical Det, 1915; Officers vs "B" OGMS No. 1, 2015.
 Jan. 28 - "A" Det OGMS vs Hq USAG No. 2, 1800; Hq USAG No. 1 vs 1st ETD, 1915; 3rd ETD vs Medical Det, 2015;
 Jan. 29 - "B" OGMS No. 2 vs Medical Det, 1700; Officers vs "A" Det OGMS, 1800; UTC vs "B" OGMS No. 1, 1915; 2nd ETD vs Hq USAG No. 2, 2015.
BASKETBALL SCOREBOARD
 Hq. USAG No. 1 51 - UTC 41
 3rd ETD 36 - 2nd ETD 33
 291st MPC 35 - Officers 30
 "A" Det OGMS 49 - 864th Air Force 35
 1st ETD 38 - Hq USAG No. 2 33

Bowling League of Week

This week the bowling lanes spotlights the Troop Command Enlisted League. This league is composed of teams from the various organizations within Troop Command, Redstone Arsenal. The league officials are: President, SP-7 Ernest McClure; vice president, SP-4 David Bell; secretary, SP 4 Donald Coston; and treasurer, MSgt. George Ryan.

The league is bowling a split season, with the winner of the first half to meet winner of the second half in a roll-off to determine the league champion. The winner of the first half of the season was the proprietors team, with a record of 47½ wins and 8½ losses. The team members are Bob Soha, Captain, Donald Coston, David Beu, Dick Wright, Dick Wakefield and "Pete" Paulette. The standings for the second half of the season are:

TEAM	WON	LOST
Aviation AOMC	10	2
Det "A" ARGMA	8	4
ARGMA	7	5
BANDOLJERS	7	5
PROPREITORS	5	7
DET B, ABMA	5	7
HOSPITAL	3	9
Hq & Hq Det USAG	3	9

The high average in the league is held by Don Coston, with a 180, followed by Dave Bell with 178. The team and individual highs are:
 High Game Handicap - 276 Garry Miller, ARGMA
 High Series Handicap - 712 Don Coston, Proprietors

"B" OGMS No. 1	42	"B" OGMS No. 2	41
"B" Det ABMA	51	Medical Det	40
Hq USAG No. 1	49	3rd ETD	25
291st MPC	38	UTC	36
2nd ETD	41	864th Air Force	31
Officers	55	1st ETD	33
"A" Det OGMS	56	"B" OGMS No. 2	13
"B" Det ABMA	53	Hq USAG No. 2	29
"B" OGMS No. 1	48	Medical Det	36
Hq USAG No. 1	40	291st MPC	33

QUIZ

- Name the basketball player voted Most Valuable Player of the National Basketball Assn. for 1959.
- In what division would a professional boxer weighing 126 pounds fight?
- Name the American League baseball player holding the lifetime record for strikeouts.
- What country is credited with originating basketball?
- Name the player who won the 1959 American League slugging title.

(Answers to Quiz)

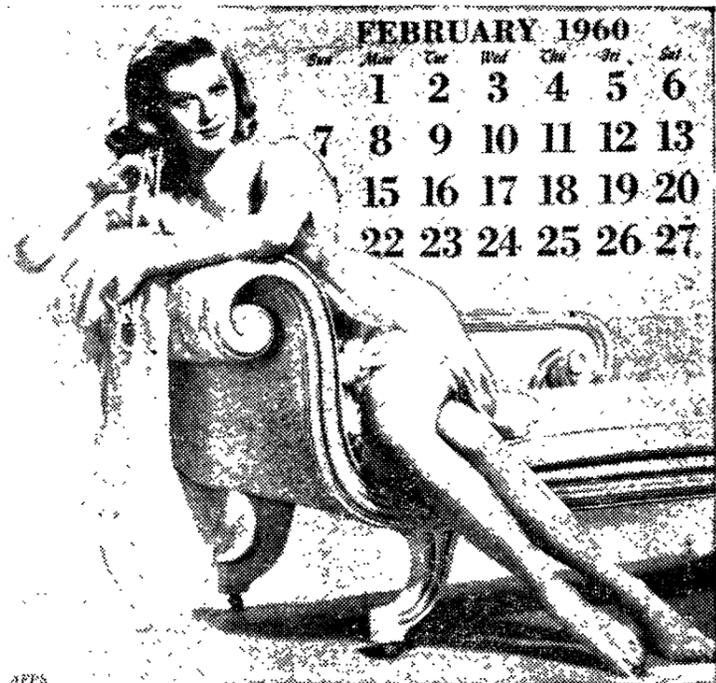
- Bob Pettit, St. Louis Hawks.
- Featherweight.
- Babe Ruth, 1,330
- The United States in 1891.
- Detroit Tigers' Al Kaline with a .530 percentage.

How's Your Know How?

- Was Pearl Harbor the only Japanese air strike at Hawaii?
- What was the first novel published in the United States? Who wrote it? When?
- What is the largest fresh water fish in the United States? Where is it found?
- In military terminology, what

High Game Scratch - 246 Hank Theisen, Hq & Hq
 High Series Scratch - 670 Don Coston, Proprietors
 High Team Game Handicap - 1092 Proprietors
 High Team Game Scratch-942 Hq & Hq USAG
 High Series Handicap - 3086 Proprietors
 High Series Scratch-2609 Proprietors

Spectators and Rooters are invited by the Post Special Service Office to Bldg. 3619 every Wednesday night at 1745 to watch the Troop Command Enlisted League in Action.



LOVER'S LEAP—Decorative Pat Blair hides the fact that 1960 is a Leap Year and February has 29 days. But our Calendar Girl, soon to be seen in "The Gazebo," is prettily revealing other departments.

- is flotation?
- What is the oldest Federal building in Washington?

(Answers to Quiz)

- No. Bombs fell on Oahu the night of March 3-4, 1942; another plane came over in October 1943.
- "The Power of Sympathy" by William Hill Brown; in 1789.
- The white Sturgeon in the Columbia and Snake Rivers. Some specimens reach half a ton.
- The capacity of a vehicle, gun or trailer to negotiate water obstacles without being in contact with the bottom.

Savings Bonds enabled me to make the down payment on a home for myself, my wife and five children. The bonds I'm buying now will be used for educational purposes later." (Testimonial) —Mr. H.L.H. (DA Civilian).

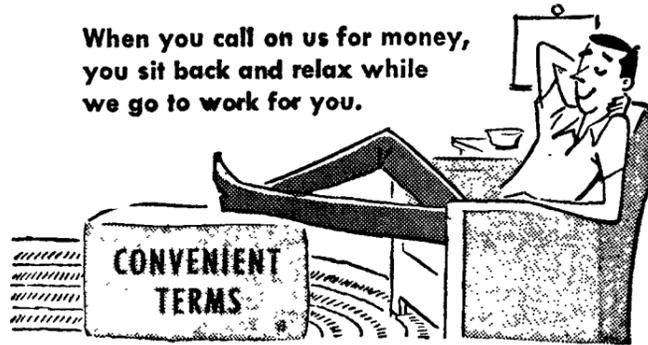
- The White House, begun in 1792.

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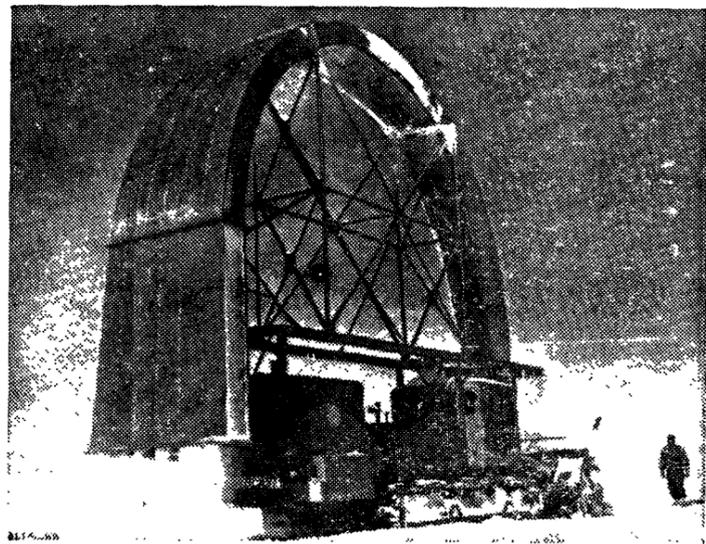
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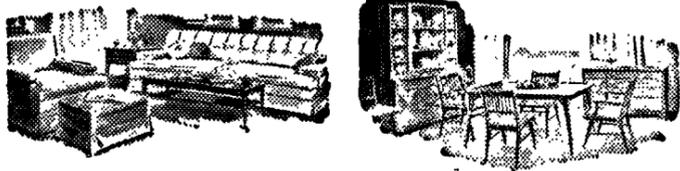
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Personnel Problems Arose With Creation of ABMA

Recruitment Began At Arsenal and Across the Nation

One of the most important and urgent tasks which immediately followed the decision to create the Army Ballistic Missile Agency was to fill all positions authorized the new organization with capable people, so that the high priority missions assigned the Agency could be accelerated without delay.

Much groundwork was accomplished in this direction before the Agency officially opened on Feb. 1, 1956.

The Agency which has accomplished so much to advance the Army's missile programs and to pioneer in space was conceived in September of 1955, when the Department of the Army proposed a combined missile program to the Department of Defense. In anticipation of its approval, the next month the responsibility and authority for execution of the Redstone program, and the development of a 1500-nautical mile missile were clearly delineated at Redstone Arsenal. This move foreshadowed the transfer of the Guided Missile Development Division of the Ordnance Missile Laboratories, headed by Dr. Wernher von Braun, to the new agency.

The proposal for a 1500-mile missile, to be used jointly by the combat forces of the Army and Navy, was approved by the Department of Defense in Novem-

ber, 1955. The Department of the Army gave the project the highest priority of any of its research and development programs, and ordered all Army resources to be made available for the timely and successful execution of the IRBM program. During that same month Maj. Gen. J. B. Medaris was designated Commanding General. Gen. Medaris was previously Assistant Chief of Ordnance and Chief of the Industrial Division, OCO. He moved to Huntsville in January, 1956.

On 22 December, 1955, three days before Christmas, the Department of the Army published the General Order establishing the Army Ballistic Missile Agency. Its missions — to prosecute the Redstone program, and to develop an Intermediate Range Ballistic Missile, which became the famous Jupiter.

In January of 1956 approximately 1600 people in the Guided Missile Development Division at Redstone Arsenal were transferred to ABMA, which was officially activated Feb. 1, 1956. The nucleus of this division was a group of 120 former German scientists and technicians who had developed the V-2 rocket used by Germany during the closing days of World War II.

A task group from the Salary and Wage Branch of Civilian Personnel had surveyed 2,349 job po-

sitions, including the writing of 780 new job descriptions, in an eight-week period. The sense of urgency which the new Commanding General was to instill throughout the Agency was already evident in the work of this task force. It had been expected that this tremendous chore would require 24 weeks.

Now to find people to occupy these positions. It was soon evident that the intricate skills and specialized training needed would not be available locally, nor from sources formerly explored by recruiting teams. A nation-wide search for talent was begun immediately. Four recruiting stations were set up in the most heavily populated areas of the United States — New York, St. Louis, San Francisco, and Dallas.

The housing shortage in Huntsville was acute. Huntsville's 1950 census showed 16,437 residents. A special census in April, 1956, showed that the population had zoomed past the 50,000 mark. Some outlying territory had been annexed, but much of the growth was attributed to the new families which were moving in daily.

By the end of June 2,702 of the 3,301 civilian positions then authorized were filled. Of the 535 military slots, 513 were occupied.

ABMA was a unique organization, designed to fill a critical need. It was given the responsibility to design, develop, fabricate, test, procure, and service complete missile systems. A complete system involves technical responsibilities within the mission assignments of the Corps of Engineers, Signal Corps, Transportation Corps, and other technical services, in addition to the Ord-

nance Corps responsibility for weapon development. Close coordination between the developer and user is demanded.

The structure of the organization was dictated by this complete mission assignment. Highly qualified and experienced officers and civilians were included in the organization to advise the Commanding General on the interests, policies, and requirements of the Army and Navy. The result was a compact and fast-reacting agency, whose initials soon became recognized and identified with speed and accomplishment throughout the military services, private industry, and the general public.

Gen. Medaris selected for his staff recognized leaders and specialists from the Army and private industry.

Brig. Gen. John A. Barclay became Deputy Commander of ABMA on May 1, 1956. He had been Commanding Officer of Picatinny Arsenal, Dover, N. J., since 1954.

Until his arrival Col. Frederick G. Crabb, Jr., served in this position.

Col. Milton H. Clark, now at WSMR, served as Executive Officer.

A department of the Army Staff Office was established to provide the Commanding General with on-the-spot representatives of those agencies which had policy-making, supporting, or advisory roles in connection with ABMA's ballistic missile program. Col. Charles G. Patterson was chief of this Office, and Col. Howard E. von Kaenel was his deputy.

Gen. Medaris' Mission Staff

contained five offices.

The Control Office was the principal staff planning and management office. It was headed by Col. John G. Zierdt, now heading Nike Zeus anti-missile activities for the Army Rocket and Guided Missile Agency. His deputy was Lt. Col. Daniel F. Shepherd.

The Field Coordination Office maintained control over ABMA liaison personnel, wherever stationed. Col. John C. Nickerson was chief of this Office; Lt. Col. Lee B. James was his deputy.

Col. Leonard M. Orman headed the office at Patrick AFB; Lt. Col. Nils M. Bengston was at the Navy Bureau of Ordnance in Washington, D. C., and Lt. Col. Glenn Crane supervised the Western Development Division Office at Inglewood, Calif.

Capt. W. A. Hasler, Jr., headed the Navy Office.

The Engineer Office was formed on verbal orders of the Commanding General Feb. 23 to plan facility requirements and to develop preliminary design criteria for approved projects. Lt. Col. William N. Harris, on temporary duty from the Engineer Research and Development Laboratory, was named acting chief. He served until March 17, when Col. A. W. Betts became chief. Lt. Col. Hart-

sell H. Northington was his deputy. On April 23 Col. Duncan Hallock was assigned the chief's job upon Col. Betts' transfer to Washington, D. C.

The Signal Office was responsible for all Signal support requirements. Col. Thomas J. Seigler was appointed Chief of this Office, and Lt. Col. Robert C. Barthle was deputy. One of the



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PERSONNEL

(Continued From Page 10)

major problems facing the new Agency was lack of adequate communication facilities. OML facilities were strained to the breaking point. Construction began immediately to add 1000 new telephone lines.

Five offices were also included on the Service Staff of the Commanding General.

The Financial Management Office was headed by Lt. Col. William J. Durrenberger, with Mr. L. L. Aycock as deputy.

Lt. Col. Clifton F. Nooncaster was Headquarters Commandant, and Maj. Thomas R. Watkins was deputy. This office was responsible for logistical and administrative support to ABMA. This included adjutant services, military personnel, administration, furnishing supplies and equipment, transportation, historical and public information functions.

The Intelligence and Security Office was headed by Lt. Col. James S. Killough. Maj. Lawrence W. Sheeran was deputy. Security, peculiar to this type activity, was difficult because of the lack of fences. The Office had a tremendous task in rebadging transferred employees, and providing badges for new ones. A total of 5,000 badges was issued by June 1.

The Legal Office got off to an early start, as it was set up in December, 1955. Daniel H. Murphy was acting chief until April 1, 1956. Then Francis J. Buckley, Jr., and D. L. King became acting chief and deputy respectively.

R. F. Mello was chief of the Civilian Personnel Office, and A. E. Sanderson was his deputy.

Three Operating Divisions were established.

The Industrial Operations Division was responsible for directing production engineering, procurement, and acceptance inspection of missile systems. Robert W. Cuthill acted as director until Col. John H. Stark was assigned, when he became deputy to Col. Stark.

The Support Operations Division

was responsible for meeting the tactical and logistical requirements of the users. Col. Thurston T. Paul, Jr., became the first chief of this office, and Lt. Col. Brian O. Montgomery was named as deputy.

The bedrock foundation of the new agency, and its largest component, was the Development Operations Division, headed by Dr. von Braun, with Eberhard Rees as his deputy. DOD contained 11 subdivisions, listed below with the director and deputy:

Research Projects—Dr. Ernest Stuhlinger, with no deputy named during the early months of the Agency.

Technical Liaison—K. K. Dannenberg and Mr. W. G. Tiller.

Aeroballistics—Dr. E. D. Geissler and Dr. R. F. Hoelker.

Computation—Dr. Helmut Hoelzer and Dr. O. H. Lange.

Fabrication—H. H. Maus, with no deputy.

Guidance and Control—Dr. Walter Haeussermann and Fritz K. Mueller.

Launching and Handling—Mr. Hans Hueter and Mr. T. A. Poppel.

Missile Firing—Dr. K. H. Debus and Dr. H. F. Gruene.

Structures and Mechanics—W. A. Mrazek and H. K. Weidner.

Systems Analysis and Reliability—E. W. Neubert, and no deputy.

Test—K. L. Heimburg and B. R. Tessman.

Various terms have been used to describe the formative days of ABMA—"hectic," "busy, busy, busy," "frantic," and various synonyms that portray the sense of urgency with which missions were tackled.

Building 4488, which now contains the headquarters of ABMA, was not completed when the Agency was activated. Original plans called for completion of the building on June 1, 1956. The headquarters of the Guided Missile Development Division of OML was then in Bldg. 421.

The contractor was asked to rush construction, Mack Jennings, in charge of moving GM Headquarters to Bldg. 4488, worked closely with the contractor, and began moving ABMA personnel in as soon as individual wings and floors were finished. The move began on Feb. 4, and was completed April 13, without interruption of work. Personnel packed the contents of their desks in boxes. Redstone Arsenal's Consolidated Supply and Transportation personnel worked at night and on the weekends to move these containers to the new building. Personnel from Bldgs. 421, 422, 351, 312, 481, 111, 485, and 353 were finally merged in Bldg.

Gen. Medaris Is Eloquent Exponent Of Missiles, Space

While he was personally responsible for the execution of Army missile programs and outer space missions from their initiation to completion, Maj. Gen. J. B. Medaris played an equally important role as the Army's No. 1 spokesman in both fields.

His creative imagination, his logical reasoning, his commanding personality were exploited to the full in his many public speeches, press conferences, television and radio appearances.

In the nation's communications centers - Chicago, New York, Los Angeles, Washington - he became recognized as one of the leading exponents of rocketry.

During 1959 alone he addressed influential audiences in Seattle, Wash., San Francisco and Los Angeles, Calif., Roswell and Las Cruces, N.M., Dallas and College Station, Texas; New Orleans, La.; Huntsville, Birmingham and Montgomery, Ala.; Des Moines, Ia.; Chicago, Ill.; Cleveland, and Springfield, Ohio; Miami, Jacksonville and Orlando, Fla.; New York, N.Y.; Washington, D.C.; Savannah and Atlanta, Ga. and elsewhere.

He has appeared twice on "Meet The Press," on "Person to Person," "Face The Nation," "Today" and other regular network TV programs and on "Spectaculars" reporting the nation's progress in missile and space development.

He has hosted leading figures in the Defense Establishment and the Congress at Redstone Arsenal, telling the Army's story convincingly and factually.

One theme constantly recurred in his public contacts dating back to 1957 and thereafter. He pleaded the cause of the ABMA organization which he had built up as a national resource, capable of pursuing any long-range missile or space program, the only resource of its kind in the Free World.

That single and dominant theme finally was recognized by the Presidential decision of October, 1959, by which, if the Congress approves, the development team headed by Dr. Wernher von Braun will be transferred to NA-

4488.

There were shortages of desks, chairs, filing cabinets, and telephones. It was a common sight to see a person sitting at the end of a desk, and one behind it, jointly using its surface for their work.

Cardboard cartons were used for filing cabinets in several instances. The Civilian Personnel Office had 201 files stored in cardboard cartons. Fearful that rats would get into them, they were lavish with the distribution of rat poison throughout the boxes and the few available file cabinets. During one of the many frequent night sessions, Art Sanderson was preparing a cup of coffee, when he mistook the rat poison for powdered cream. His mistake was soon discovered, and was not serious—but since that date he has taken his coffee black.

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FIRST ABMA BIRTHDAY PARTY—Gen. Medaris used a ceremonial sword to cut the first Army Ballistic Missile Agency birthday cake on Feb. 1, 1957.

23 GRAY LADIES FINISH TRAINING

Mrs. H. D. Arrott, on-post chairman of Red Cross Volunteers, and Mrs. David Robinson, chairman of Gray Lady Service, report the completion of 12 hours training for Gray Lady Service Jan. 20 in the Post Chapel.

The class will have 10 hours further training, under supervision, in the post hospital and in the post clinics. Assisting with the training were Mrs. H. D. Arrott, Mrs. David Robinson, Mrs. F. D. Cressy, Mrs. J. N. Jean, Mrs. R. N. Flint, Miss Corrie Knight, Col. H. C. McClain, Dr. B. E. Bess, Mrs. Eva M. Helms, Mrs. Alice R. Bates, Capt. J. K. Eakins, and Major Christine Cox.

Those finishing the 12 hours of training were as follows: Mrs. R. W. Burkett, Mrs. J. J. McGinnis, Mrs. F. L. Furphy, Mrs. D. M.

SA management.

Gen. Medaris will be heard from again in retirement. He is scheduled for appearances before the Senate and the House Committees investigating missile and space programs next month.

What he has to say on those occasions will be awaited with keen interest by the press and the American people.

McGuire, Mrs. T. E. Hanson, Mrs. C. J. Payne, Mrs. S. C. Holms, Mrs. A. L. E. Schumacher, Mrs. J. L. Johnson, Mrs. P. B. Schuppener, Mrs. D. H. Jones, Mrs. H. K. Seifert, Mrs. J. A. Knight Mrs. Allister Sinclair, Mrs. E. J. Kloos, Mrs. C. N. Thran, Mrs. H. H. LaReau, Mrs. E. N. Tucker, Mrs. M. G. Levy, Mrs. M. W. Warren, Mrs. Charles Mauerci, Mrs. R. K. Wensley, Mrs. H. D. Mitman.

These volunteers will work in the post clinics and in the U.S. Army Hospital. The following volunteers finished the training and will work in the Huntsville Hospital: Mrs. J. W. Bunge, Mrs. J. E. Spencer.

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Best Wishes Extended Gen. Medaris in New Endeavors

Friends Cite Him For Achievements During Army Career

Testimonial letters have poured in from across the nation to the general who has spent the last four years of his military career fighting the Army's missile-space battles.

Maj. Gen. John B. Medaris, who will retire as Commanding General of the Army Ordnance Missile Command Jan. 31, has received tributes from military and civilian leaders, from housewives and children.

Highest ranking personnel in the Department of the Army, Department of Defense, the Advanced Research Projects Agency, and the National Aeronautics and Space Administration have expressed regret at the termination of his military career, and the hope that he will continue to be active in civilian life as he has been in the Army.

Retired Gen. Matthew B. Ridgeway's letter expressed "great admiration" and a desire to see General Medaris "continue to render our Army and our people that magnificent service." Gen. Ridgeway was Army Chief of Staff before his retirement in 1955.

He was succeeded in this position by General Maxwell D. Taylor, also retired, who writes "while I regret your retirement from active service, I have the assurance that you are leaving a strong organization behind you, very much in business and ready to push forward as in the past. The first requirement of a good commander is to provide for his own replacement, and I know that you have fostered able talent behind you. These men will find guidance in the example which you have set them."

"On the occasion of your retirement from active duty, and I think it is a sad one," writes Lt. Gen. James M. Gavin (Ret.) "I would like to congratulate you upon the remarkable contribution that you have made to the Army's high state of readiness and its rapidly changing military technology."

Most of the General's old friends recall his outstanding ability in the "so-called 'ammunition crisis' during the Korean war" and his "eloquence as a spokesman" during those pressing years as well as these.

Gen. Carter B. Magruder, Commander in Chief, Headquarters, United Nations Command, said that Gen. Medaris' recent brilliant accomplishments should not overshadow his "long period of distinguished service that preceded his assignment in the missile field."

Letters from officers and civilians serving under him here at the Command and from scientists and engineers working in the laboratories here and letters from educators in Alabama testify to his "indomitable courage," "in-

spired leadership," "inspiring initiative," and "astounding ability." Dr. Ernst Stuhlinger, Director, Research Projects Laboratory, ABMA, expressed appreciation as he recalled how forcefully the thrust of the General's personality was felt behind every deserving project. "After you joined us . . . doors which had been locked for years were suddenly opened," he wrote.

Lt. Gen. J. H. Hinrichs, Chief of Ordnance, DA, tells of his desire to see Gen. Medaris as active as a civilian as he was a soldier. "I know that you are too good a 'big-league manager' to spend much time in vain regret on the games already scored," he says. "I am sure that in the days ahead you will go after and win many another game, and stack up plenty of percentage points to lead your new league."

Among the parting tributes were letters from:

Lt. Gen. James M. Gavin, United States Army (Ret.); Gen. Carter B. MaGruder, Commander in Chief, United Nations Command; Lt. Gen. Clark L. Ruffner, Commanding, Headquarters Third United States Army; Maj. Gen. Dwight E. Beach, Commanding, Headquarters 82d Airborne Division;

Mr. Frank A. Rose, President, University of Alabama; Mr. Gilford G. Quarles, Chief Scientific Advisor, Department of the Army; Mr. Donald A. Douglas, Jr., President, Douglas Aircraft Company, Inc.; Mr. Hunter C. Harrison, Asst. District Manager, Thiokol Chemical Corporation; Mr. L. L. Colbert, President, Chrysler Corporation; Mr. R. S. Reynolds, Jr., President, Reynolds Metals Company;

Mr. Charles S. Rockwell, President and General Manager, Ford Instrument Company, Division of Sperry Rand Corporation; Mr. William E. Maley, R.I.O., Rocketdyne, NAA; Mr. Howard S. Seifert, President, American Rocket Society, Inc.; Mr. Leo A. Codd, Executive Vice President, American Ordnance Association;

Col. B. R. Luczak, Deputy Commander, Pacific Missile Range. Lt. Col. Raymond E. Isenson, Executive Officer, Pacific Missile Range; SFC William L. Creith, Pacific Missile Range;

SP4 Albert J. Detwiler, Pacific Missile Range; Mr. William H. Stanfield, Nike-Zeus Coordinator, Western Electric Company; Mr. Don E. Mattox, Resident Engineer, Nike-Zeus, Western Electric Company; Miss Geraldine F. Lashbrook, Secretary, Point Mugu, California; Miss Ruth E. Tackett, Clerk-Typist, Point Mugu, Calif.;

Col. Keith T. O'Keefe, Chief, Department of the Army, Office of the Deputy Chief of Staff for Logistics; Maj. William J. Nelson, U. S. Army Ordnance Missile Command; Dr. Burton S. Shook, Sr., 101 Benet Circle; Mr. Lawrence Garrison, Secretary, Explorer Chapter, Federal Bar Association;

Dr. Wernher von Braun, Direc-

tor, Development Operation Division, Headquarters, U. S. Army Ordnance Missile Command; Mr. Walter Haeussermann, Director, Guidance and Control Laboratory, Army Ballistic Missile Agency; Mr. Ernst D. Geissler, Director, Aeroballistics Laboratory, Army Ballistic Missile Agency; Mr. Erich W. Neubert, Dir., Sys Anal. & Reliability Lab., ABMA; Dr. Arthur Rudolph, Project Director, Redstone & Pershing, Development Operations Division, ABMA; Mr. Hans H. Maus, Director, Fabrication & Assembly, Engineering Laboratory, ABMA; Mr. W. A. Mrazek, Dir., Structures and Mechanics Laboratory, Development Operations Division, ABMA;

Mr. Karl L. Heimburg, Director, Test Laboratory, ABMA; Mr. Hans Heuter, Director, Systems and Support Equipment Lab., ABMA; Dr. Ernst Stuhlinger, Director, Research Projects Laboratory, ABMA; Col. C. C. Haug, Chief, Engineer Office, U. S. Army Ordnance Missile Command; Mr. Gordon L. Harris, Public Information Office, USAOMC; Lt. Col. Lewis M. Anderson, Inspector General, USAOMC;

Maj. O. E. Adamson, Adjutant General, USAOMC; Mr. Francis J. Buckley, Jr., General Counsel, USAOMC; Col. R. H. Kessler, AC/S for Military Applications and Training, USAOMC; Col. George E. Pickett, Signal Corps, USAOMC; Mr. R. F. Mello, Director of Civilian Personnel, USAOMC;

Lt. Col. Morton S. Jaffe, Command Staff Judge Advocate, USAOMC; Col. J. S. Jeffers, ACS/1 Industrial Operations, USAOMC;

Lt. Col. H. R. Del Mar, Chief, Transportation Office, USAOMC; Mr. Konrad K. Dannenberg, Project Director, Jupiter, Development Operations Division, AOMC; Dr. Kurt H. Debus, Director Missile Firing ABMA; Col. Thurston T. Paul, Jr., Deputy Commander Ordnance Corps, ABMA;

Mr. J. H. Draughon, Chief, Review Branch, Control Office, ABMA; Brig. Gen. J. G. Shinkle, Commander, ARGMA; Col. R. O. Lehtonen, Deputy Commander, Ord. Corps, ARGMA; Lt. Col. Nils M. Bengston, ARGMA; Col. H. H. Wishart, Chief, Industrial Division, ARGMA; Col. C. W. Eifler, Commandant, Ordnance Guided Missile School; Mr. John H. Graham, Secretary, National Sojourners, Huntsville, Ala.;

Maj. Gen. A. J. Drexel Biddle, The Adjutant General, Department of Military Affairs; Maj. Gen. R. T. Nelson, Chief Signal Officer, Department of the Army; Maj. Gen. William W. Quinn, Chief of Information, DA; Brig. Gen. C. V. Clifton, Deputy Chief of Information, DA; Lt. Gen. J. H. Hinrichs, Chief of Ordnance, DA;

Brig. Gen. A. W. Betts, Director, Advanced Research Projects Agency; Mr. T. Keith Glennan, Administrator, National Aero-

nautics and Space Administration; Maj. Gen. Ernest F. Easterbrook, Commanding, United States Army Aviation Center; Lt. Gen. Arthur G. Trudeau, Chief of Research and Development, Department of the Army; Maj. Gen. William W. Dick, Jr., Director of Special Weapons, DA;

Gen. Maxwell D. Taylor, U. S. Army (Ret.); Gen. Matthew B. Ridgeway, U. S. Army (Ret.); Col. Harry C. McClain, Hospital Commander, USAOMC, Redstone, Arsenal. This letter from Col. McClain was signed by 24 of his staff.

Maj. Gen. D. N. Yates, Commander, Air Research and Development Center, Air Force Missile Test Center, Patrick Air Force Base, Fla.; Dr. O. H. Lange, Project Director, Saturn, Development Operations Division; Col. H. S. Newhall, Acting Chief, Office of Manpower, DA, Office Chief of Ordnance; Maj. Gen. August Schomburg, who will succeed Gen. Medaris as Commanding General, Army Ordnance Missile Command.

ELECTION YEAR

WASHINGTON, (ANS) — W a Presidential election falling Nov. 8, this year — it's not early to begin checking your eligibility to vote. See your Voting Officer for home-state requirements.

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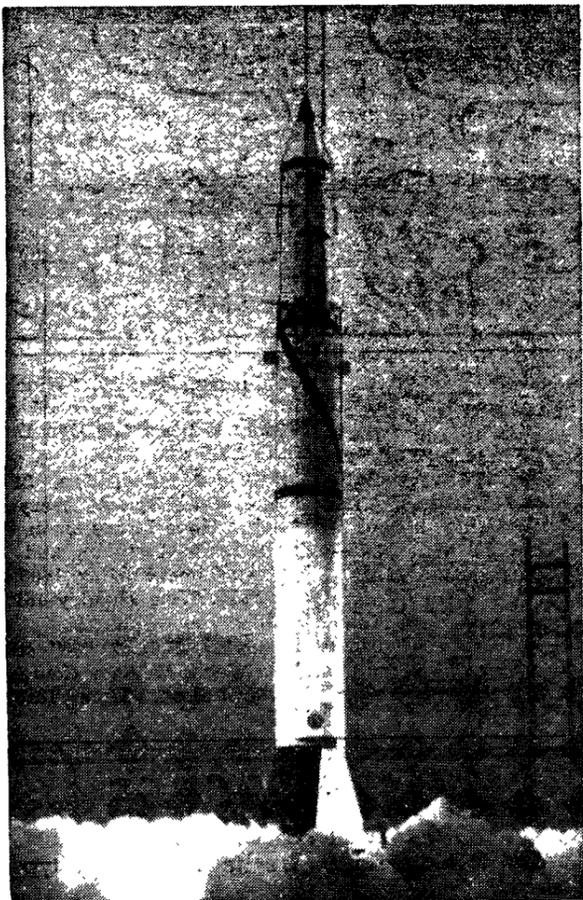
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REDSTONE MISSILE — A RELIABLE WORKHORSE

Forces. The 40th Group had a high caliber of soldier on its rolls, many of the hand-picked. Many members of the group had served earlier with the Army's first Corporal missile battle unit.

Throughout the remainder of 1957 and the first five months of 1958 the 40th Group trained at Redstone Arsenal, received their equipment and checked it out in readiness for field deployment. The men were blazing a trail — they had to help write the tech manuals, literally. But they did not do it alone. The great advantage of centering the training here was because the troops would have the benefit of the extensive training and experience acquired by the Free World's first rocketry team.

Gen. Medaris paid close personal attention to the fledgling Redstone group. The new training division the general established in ABMA was in charge of the group's training program, which was being carried out for ABMA by the Ordnance Guided Missile School.

Finally, the 40th Group's two firing units, "A" and "B" batteries of the 217th Field Artillery Missile Battalion, supported by the Headquarters, Ordnance and Engineer elements, conducted their live, graduation firings. The firings were conducted at the Atlantic Missile Range, Fla., and the White Sands Missile Range, N. M., where both batteries prepared and successfully fired a Redstone, marking the first launching of a large ballistic missile by U.S. military troops.

After this historic achievement, the 650 officers and men of the 40th sailed to Europe with their 62-foot missiles, this marking another first in U.S. military history.

Redstone missile units are used to supplement and extend the range of other Army rocket and conventional artillery. In the event of war, Redstone units would be deployed to the rear of exposed battle areas, from which position they could deliver greatly increased firepower over distances of approximately 200 miles. The Redstone can carry either conventional explosive or nuclear warheads, depending upon the battlefield requirement.

Today the 40th and other Redstone missile groups stand poised and ready, a testimonial to the

cesses had been scored. The mission of Gen. Medaris and the new ABMA was to complete the development of the Redstone, to design and develop ground handling equipment, to map out training procedures and general deployment plans, to produce the missiles and associated equipment, to train the soldiers and successfully match men and missiles to form a highly mobile and effective field artillery unit.

"Weaponization" is the military term describing ABMA's Redstone mission — the new organization had to take a rocket and turn it into a military rocket, ready for war.

The Army's first Redstone missile unit were formed here early in 1957. It was the 40th Field Artillery Missile Group, headed by Col. Robert C. Gildart, who was to lead the group through its more than a year of training and to its overseas destination, a position with the U.S. Seventh Army as a part of the NATO Shield

Commerce Dept. Pamphlet Gives Patent Information

Inventively - included residents of this area can now turn to the Atlanta field office of the U.S. Department of Commerce in Atlanta for help and guidance in deciding whether to apply for their patents in obtaining protection for them, and in promoting their inventions, according to word received here from Merrill C. Lofton, field manager of that agency.

The assistance given is in the form of a pamphlet just issued by the Patent Office of the Commerce Department entitled "Patents and Inventions. An Information Aid for Inventors," which provides 45 questions and answers dealing with basic informa-

tion for the inventor. The pamphlet, which sells for 15 cents a copy to defray the cost of publication, explains the meaning of the words "patent pending," how and when to apply for a patent, who may obtain one, ownership and sale of patents, their duration, the searching techniques, plants and design patents, technical knowledge available from them, infringements of other patents, enforcement of patent rights, and protection of patents in foreign countries. It also tells about national defense inventions, and developing and marketing of inventions and patents.

Those interested should communicate with the Atlanta field office, U.S. Department of Commerce, 604 Volunteer Building, Atlanta, Mr. Lofton said.

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Stepped-Up Redstone Program Was Started by Gen. Medaris

Students of the future who amine America's early days in the marvelous age of rocketry will say of the Army's Redstone missile:

It was America's first large ballistic missile. The pioneer pre-paring the rocket giants which are to come, the Redstone's splendid record for accuracy and reliability was not to be easily forgotten.

It saved the day in the space race when the day appeared beyond salvation.

These are among the tributes which the future will pay the Redstone, and its builders.

The Redstone was the number one item listed in the dual charge given Maj. Gen. J. B. Medaris when he established the Army Ballistic Missile Agency in 1956. The Redstone's development had been well underway prior to that time, and several significant suc-

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Your friends will admire this home of yours on Suzanne Terrace. The ladies will want to see the built-in kitchen with eating area. This home has 1 1/2 ceramic tiled baths, three bedrooms, extra large lot, forced air heat and numerous other features. Phone or drive by today. 100% V.A. Loan.

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First offer of \$1,000 buys equity in this ranch style 3-BR brick home, on large nicely landscaped lot with beautiful pecan trees, Has 1 1/2 baths, select hardwood floors, built-in range and oven in Kitchen, birch cabinets, forced air heating and carport. Located on Vogel Drive, Grove View Acres.

SOUTHWEST

Excellent location for Arsenal personnel. This 3 bedroom brick home can be yours for \$400.00 down with minimum closing cost. One of the nicest homes in this area, which must be seen to be appreciated. Has ceramic tile bath on city utilities, forced air heating, hardwood floors. Phone to see at 511 Green Acres Drive, Daniels Addition.

OAK PARK

This 3 bedroom and den home has central heating and air conditioning, disappearing str. way, french doors leading to dining room, 1 1/2 baths and on 1/4 acre lot. Located at 707 Giles Drive.

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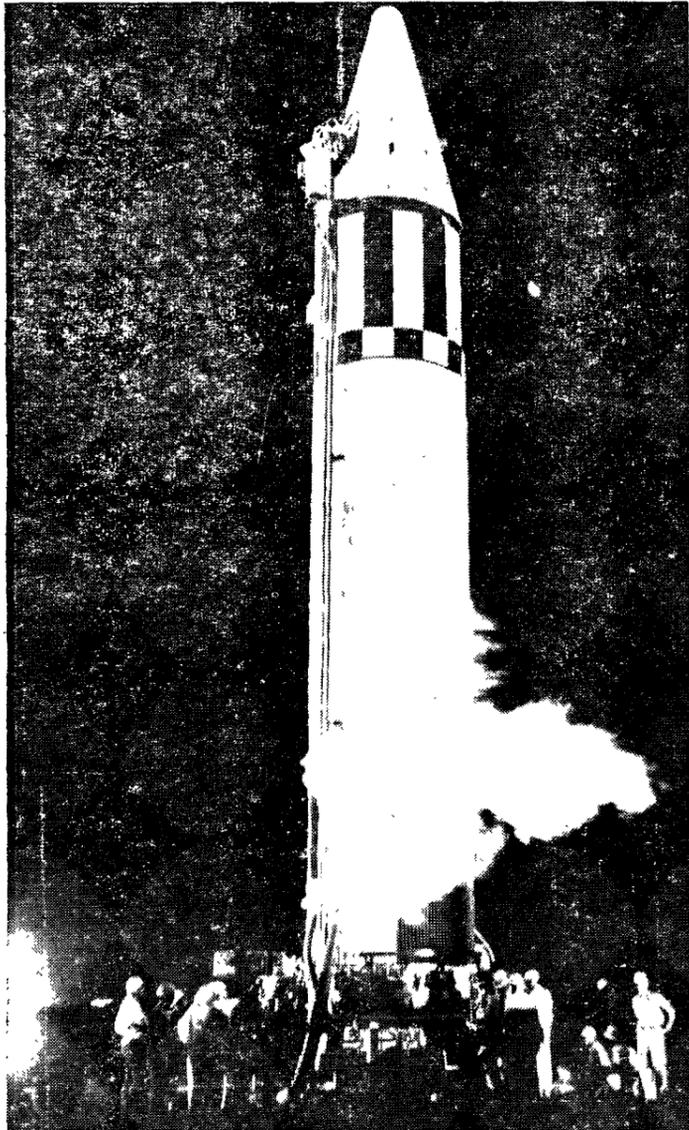
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SUCCESSFUL LAUNCHING OF JUPITER

Gen. Medaris Was Instrumental in Jupiter Progress

One of Maj. Gen. J. B. Medaris' primary responsibilities as the first Commander of the Army Ballistic Missile Agency, and later as Commanding General of the Army Ordnance Missile Command, was to direct the development, production and deployment of the Jupiter intermediate range ballistic missile.

The Jupiter development program was assigned to ABMA in February, 1956, on a high priority basis. The program advanced so rapidly that on May 31, 1957, the Jupiter became the first Uni-

ted States IRBM to be successfully fired. This was also the first Jupiter fired from the Atlantic Missile Range at Cape Canaveral, Fla.

By August, 1958, only 30 months after the project had been initiated, the Army was able to deliver the first tactical Jupiter to the Air Force. To date, the Jupiter is four months ahead of its research and development program.

Though a limited number of Jupiter research and development and tactical missiles have

been fabricated at ABAMA's Redstone Arsenal facilities, production-line Jupiters have been, and continue to be, produced at the Michigan Ordnance Missile Plant, operated for the Army by the Chrysler Corporation Missile Division.

The 1,500-nautical-mile Jupiter, capable of delivering a nuclear warhead directly on target, is currently being deployed in Europe to compliment the North Atlantic Treaty Organization's Shield Forces. As a ballistic missile, Jupiters will be under the operational control of the U.S. Air Force.

Jupiters have been instrumental in a number of impressive achievements. For example, the aerodynamic heating problem of re-entry was solved on Jan. 31, 1958, with the recovery of the first of three Jupiter nose cones. On May 28, 1959, another Jupiter, having previously proven its adaptability to space research projects, carried monkeys Able and Baker over a trajectory of more than 1,500 nautical miles, where its nose cone, complete with passengers, was recovered.

The versatile and dependable Jupiter also served as the booster units of the Juno II vehicles which launched Pioneer IV and Explorer VII.

WASHINGTON, (ASN) — The new 1960 almanac shows that (during the next three months) the moon reaches the point in its orbit nearest the Earth on Jan. 26, Feb. 22, and March 19. Scientifically, these are likely times for "Lunar Probes."

Operation Blonde



Movie Schedule

Wednesday, Jan. 27, "The Purple Gang" starring Barry Sullivan and Elaine Edwards. Time 1815 and 2015.

Thursday-Friday, Jan. 28-29, "Happy Anniversary" starring David Niven and Mitzi Gaynor. Time 1815 and 2015.

Saturday, Jan. 30 SPECIAL MATINEE, NO SHOW Due to Medaris Day Parade.

Saturday, Jan. 30, "Winchester '73," starring James Stewart, Shelley Winters and Dan Duryea. Time 1815 and 2015.

Sunday-Monday, Jan. 31 and Feb. 1, "The Best of Everything" starring Hope Lange, Joan Crawford, Louis Jourdan and Suz Parker. Time Sunday 1400, 181 and 2015. Time Monday 1815 and 2015.

Tuesday, Feb. 2 "30" starring Jack Webb, William Conrad and David Nelson. Time 1815 and 2015.

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FOR SALE — Brand new 1960 4-dr. Plymouth Belvedere, Powerlite, radio, heater, back-up lights. Will sell much below list price for cash. No trade ins. Phone JE 2-5493. 1tp

FOR SALE — Montdale. Owner transferred. Must sell 3 bedroom brick ranch house. One bath. Equity sale or refinancing. 1409 Glenwood Dr. JE 6-7180. 1tp

FOR SALE — 1960 Ford Fairlane 500, 2-dr., 6 cyl., radio & heater, 2600 miles. \$300 for my equity. Phone Ext. 3-6766 or Madison 43-J3. Ask for Singleton. 1tp

FOR RENT — Modern air conditioned 3 BR brick home convenient at 2921 Hillsboro Rd. in Holiday Homes. \$120 month. Contact N. F. Poarch, Ext. 3-3346 or JE 6-9468. 1tp

CAMERA FOR SALE — 2 1/4 x 3 1/4 Press Camera, 3 film holders, about 40 sheets of film. Like new. Bargain. Redstone Ext. 3-7374. Sawyer 1tp

FOR SALE — Frigidaire Custom Imperial Automatic Dishwasher. Has luxurious brushed chrome front. In perfect condition, only 7 months old. Original cost \$350, will sell for \$250. Phone JE 4-6712. 1tp

FOR SALE — 1958 Philco Electric Range. Has large 40-inch oven with built-in hamburger griddle, broiler, and roaster. Not one, but all four surface cooking units thermostatically controlled. Clock controls oven and appliance outlets. Separate minute interval timer. Color-lit dials. Storage space for cooking utensils. In perfect condition, used only 1 year. Cost \$600 new, will sell for \$300. Phone JE 4-6712. 1tp

EQUITY SALE — House, exceptionally low equity wanted, 6-room, 3 bedroom, 1 1/2 ceramic baths, practically new, brick, good location. Must sell. Hurry, call JE 2-8764 for details and inspection. 2-11p

NEW HOUSE FOR SALE — 3-bedrooms, 1 1/2 ceramic tile baths, Arab Highway, convenient to lake. FHA appraised. Jack Smith, Guntersville, Pho. Justice 2-3926. 2-11p

FOR RENT — 3 young gentlemen wish to share house with same. Near arsenal. Private room available. Call ext. 3-6515 or JE 6-9865. 1tp

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-6452. ttc

FOR RENT — 3 bedroom furnished home with one bath, living room, dining room, kitchen, utility room and carport. Located Mountain Crest Sub-division in Guntersville. Call Ext. 3-5303. 1tp

FOR RENT — Unfurnished duplex apartment, 2 bedrooms, hardwood floors, nice closets, automatic gas heat, convenient to arsenal. \$80.00 month. 4200 Triana Blvd. Phone JE 2-5493. 1tp

FOR SALE — 1953 Continental 27 ft. Trailer. In excellent condition and priced reasonably. Contact Karen Dray, Ext. 3-1873 or JE 6-0498. 1tp

EQUITY SALE — 4 bedroom brick, and den, 2 baths, built-in range, 3/4 acre corner lot. FHA loan, 25 yrs at 5 1/4%, \$104. monthly payments, \$14,400, bal. \$2,195.00 equity. Belmont Sub-division, Athens, Ala. Call E. W. Crafton, Ext. 3-1853 or Athens 1541. 1tp

LEARN TO PLAY THE PIANO— You are never too old to learn. We specialize in adult training. Also have teacher for guitar. New group forming. Phone JE 6-8444. 1tp

BOATS FOR SALE — 15 ft. Norris Craft, Master Craft trailer, 30 elec. Johnson steering and all controls, windshield and snow white top. Only used few hours. Cost \$1650.00. Now \$895.00. 1tc Aluminum fishing boat, 12 h.p. motor, controls and trailer. Only \$295.00. Cash or terms. Texas Auto Sales, 1013 Meridian St. 1tc

FOR SALE — 2 bedroom trailer, air conditioned, aluminum awning, many other extras, small equity, take up payments, Pho. JE 4-4701. 1tp

FOR RENT — New brick 2 bedroom unfurnished duplex, ceramic tile bath, private driveway, 2 private entrances, close to bus and schools, Southeast Huntsville, Phone JE 4-0467 or JE 4-1927. 1tc

FOR SALE — 2 bedroom house, 4006 Cloverdale Drive. Small equity, assume payments \$78.46 per month, conveniently located for arsenal employees. For further information phone JE 9-3675. 1tc

PRUDENTIAL, INC., OF AMERICA for the best in Life Insurance. Big Dividends and cash surrender values. For your home—the new home owners package at new reduced rates plus our fine dividends. JOHN E. BROYLES AGENCY, Times Bldg., Huntsville, Ala., Phone JE 6-0711 or JE 2-8615. ttc

WESTLAWN KINDERGARTEN: near Jordan Lane Provides a child Development Program for 4 and 5 year olds Small Class, Individual Attention Mrs. Wesley Swift. JE 6-2206, 2105 N. Rose Drive. 2-27-p

HOUSE FOR SALE — 2909 Malory Ave., Country Club Estates. 3 bedrooms, dining room, 1 1/2 baths, carport, pay reasonable equity, assume FHA mortgage, owner being transferred Dec. 1. Phone JE 6-7318. ttc

WHY PAY RENT? Live in a modern duplex home while your neighbor pays all expenses. Call NOW . . . JE 2-2652. ttc

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 Masseur in charge. Phone JE 2-2444. ttc

FOR RENT — New 2 bedroom brick duplex, furnished or unfurnished, in Glen Park, ceramic tile bath, forced air heat, phone JE 4-6102. 1.t.c.

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Aluma Craft, Crosby, Glasspar & Lone Star boats; boat trailers, used motors and marine supplies. Trade and terms.

15% Discount
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AUTOMOTIVE PARTS & Marine Company
813-17 Meridian St. - JE 6-7882

FOR SALE — 1956 Cadillac Coupe DeVille, fully equipped, including air cond. Like new throughout. Will consider trade for cheaper car in good condition. Call Phil Allen at Thokol 6-6283 or JE 6-2745 after 5 p.m. 1tp

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3 Bedroom & Family Room Brick Veneers
1 1/2 and 2 Baths on McClain Lane

GO NORTH ON MEMORIAL PARKWAY to Oakwood Avenue, turn left and go 3/4 mile past the Country Club — The Highlands on right.

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2 Full Tile Baths with Chrysler Airtemp Year Round Heating and Air Conditioning.
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PHONE JE 2-3451 or JE 9-3391

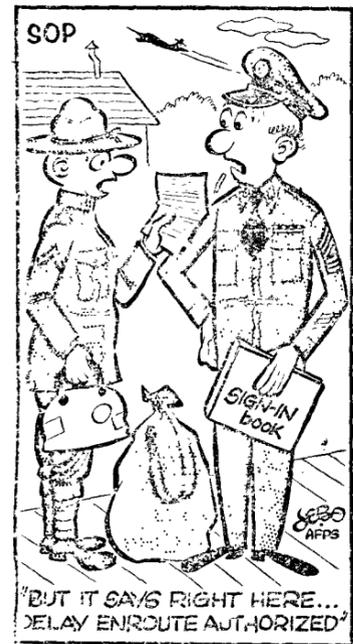
How's Your Know-How?

(AFPS Weekly Feature)

1. Who first popularized men's sideburns?
2. What is the deepest area of the world's oceans?
3. What animal has fewer vertebrae in his neck than a mouse, is faster than a horse, can go without water longer than a camel, and can see backward without turning its head?
4. When were U.S. postage stamps first issued?
5. When did Iceland become an independent nation?

(Answers to Quiz)

1. Civil War Gen. Ambrose E. Burnside.
2. The Marianas Trench in the Pacific with a depth of 35,640 feet.
3. The giraffe.
4. In 1847
5. In 1944 when it served its ties with Denmark.

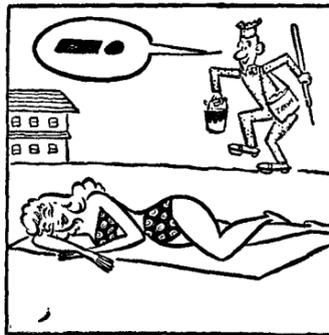


LONE JOAN — But the curvaceous Miss Collins will soon be joined by Edward G. Robinson and Rod Steiger in the cast of "Seven Thieves." Meantime she makes a long, cool study in black and white that's definitely intoxicating.

OPENINGS

FORT SLOCUM, N.Y. (ANS) — Quotas are now available for both officer and enlisted students (in all CONUS Armies and for overseas returnees) to attend the Army's highly-rated Information School. Completion of courses not only qualifies officers in MOS 5505 and enlisted personnel in either 701.1 or 703.3 (Information or broadcast specialists), but also can be worth up to six hours college credit. Application procedures are outlined in AR 621-14.

Operation Blonde



ONE ARMY: "Our goal is to move all units faster towards combat readiness until all our components have become one Modern Army — Combat Ready!" — **GENERAL BRUCE C. CLARKE.**

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