

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

JANUARY 31, 1968

Arsenal-Wide

Spot News

Dial 112

EXPLORER I STILL UP

Today Is 10th Birthday Of Free World's First Satellite Sent Into Orbit

In its pioneering exploration of space, the U.S. Army was FIRST:

• To penetrate outer space, with a rocket fired Feb. 24, 1949.

• To successfully fire an intermediate range ballistic missile, JUPITER, May 1957.

• To solve the problem of re-entry heat, August 1957.

• To place a Free World Satellite in orbit around the earth, EXPLORER I, Jan. 31, 1958.

• To place a U.S. satellite in orbit around the sun, March 3, 1959.

• To place primates into outer space and successfully recover them, May 28, 1959.

JUPITER C powers EXPLORER I into orbit
Jan. 31, 1958

Resolutely maintaining its historic rounds in space, the nation's first artificial earth satellite, Explorer I, begins its second decade in orbit at 10:56 p.m. EST tonight.

In Huntsville, Ala.; Pasadena, Cal.; in the many communities around Cape Kennedy, Fla., and in posts, camps and stations throughout the world, the men who designed, built, and put it in orbit probably will spend a few minutes during the day remembering with quiet pride that night 10 years ago when the U. S. Army launched the United States into the race for space.

Its radios have long since gone dead, but the tiny Explorer satellite sets a new record for longevity every 101 minutes as it completes another orbit. It has been in space longer than any other man made object. It was put there as the Free World's first just 84 days after the Army got permission to try in the frantic days that followed the orbiting of the first two Soviet Sputniks in the fall of 1957.

On the night it was launched at Cape Canaveral, the then unnamed satellite hardly seemed an instrument of destiny. It looked, someone said, like a cedar fence post painted in alternate silver and white stripes. Even from the blockhouse windows 500 feet away, it was difficult to discern the satellite perched atop the 68-foot-tall Jupiter "C" vehicle. It was immediately lost from mortal view at four seconds before 10:48 p.m. EST, when the souped up Redstone ballistic missile—first stage of the composite Jupiter "C"—howled into life, then lifted slowly out of a web of searchlight beams into the darkness above.

Four hundred and 29 seconds

later the satellite was injected into orbit still attached to the burned out motor case of the Jupiter "C"'s fourth stage. The cylindrical package of satellite and motor case measured 80 inches from tip to tip, weighed 30.8 pounds. A mere 10.6 pounds of scientific instrumentation was wedged within the six inch diameter shell of the satellite. Somewhere in there, too, rode the prestige of the United States.

Initial estimates placed the satellite's orbital lifetime as a few years. Now it is expected to remain in space until 1969 or later. At the low point of its orbit it is coming within 333 kilometers of earth. Time and gravity are conspiring to drag it down into the atmosphere where it eventually must re-enter and disintegrate. The satellite seems reluctant to come down, but it had a hard time getting up there in the first place.

Dr. Wernher von Braun — then heading the team developing the Redstone missile—had proposed in 1954 using the Redstone to orbit an earth satellite.

Although there was early interest and a joint Army-Navy Project Orbiter contemplating such use of the Redstone actually began, the United States opted for the "civilian" Vanguard rocket in 1955 as its choice for a satellite launch vehicle during the forthcoming International Geophysical Year. Project Orbiter was killed.

Nevertheless the Redstone satellite launcher—the Jupiter "C"—came into being in the shops of the Army Ballistic Missile Agency (ABMA) here as a composite vehicle to test fly small scale versions of nose cones under development for the Army's Jupiter (See EXPLORER I on Page 3)

Redstone Benefit Cost Boosted By Claim Rate

Effective Feb. 1, premium rates for group life insurance will increase for certain members of Redstone Benefit Association. Individual notices of the changes were mailed to all members last week.

W. R. Heflin, president, states that the increases applies only to members who joined before Aug. 1, 1966, and begins at age 45. All others rates remain unchanged. He explains that the group's high claim rate over the past five years, and gradual reduction in membership (from approximately 3200 in 1962 to 2700 in 1968) are

the primary reasons for the change. Life insurance claims incurred during policy years 1966 and 1967 were \$250,000 and \$261,000, respectively, compared to premiums of \$222,354 and \$229,876 for the same periods.

Some original members understood that their rates would never increase. This is not documented in RBA files. However, the promotional material used highlighted the chances for lower premiums, without mentioning the likelihood of increases. Heflin emphasized that the group life insurance plan is a term insurance program. Rates may be changed up or down for any policy year. This is characteristic of all group life insurance plans.

According to Heflin, coverage and rates offered by RBA are as good or better than other group life insurance plans available to civil service employees of the Missile Command, the Missile and Munitions Center and School and Sentinel Command. He points out that premiums for government employees insured under the Federal Employee Group Life Insurance Plan will also increase, effective Feb. 14, under the recent "Postal Revenue and Federal Salary" act. Also, that the premiums for the new Optional Insurance in the act are much higher than RBA's for employees over 35, eligible for \$10,000 or more coverage.

If better coverage or rates can be obtained, the officers of RBA will make the necessary adjustments. All members are urged to remain in the program. Non-members are encouraged to compare the rates and coverage available and apply for membership, if interested.

BRIGHT CLASS

The second highest number of students to receive academic recognition from the Association of the U. S. Army, nine, highlighted graduation ceremonies at the Army Missile and Munitions Center and School here last Friday. AUSA plaques for a course average of 96.0 or better were presented to: Maj. Bob Lukens, Maj. Charles Young, Capt. Edward Jamieson, Maj. Luigi Virgili, Capt. Epimenio Chiocca, Pvt. James Smith, Pvt. Dwight Ludwig, Pvt. Robert Miller and Pvt. Berry Greiner.

Twelve Scheduled To Retire Today

Twelve men today are retiring from active Army duty, four from the Army Missile Command and eight from the Army Missile and Munitions Center and School.

Retiring from the Missile Command are Col. Glenn L. Bass, Supply and Maintenance Directorate, CW4 Andrew V. Garrabrant, Headquarters, CW2 Bert A. Higgins, Headquarters, all of Huntsville, and MSG James P. Wall, Medical Detachment whose home is at Calhoun, Ky.

From the school are CW2 R. R. Grimmert, Headquarters and Headquarters, Huntsville; CW2 W. L. Kelly, Headquarters, Bamberg, S.C.; CW2 O. S. Moore, Headquarters, Vilonia, Ark; SFC Sylvester M. Kirch, Jr., Co. A, Lake Wales, Fla; SSG Lewey L. Cary, Co. C, Niagara Falls, N. Y.; SSG Solomon A. Mitchell, 9th Enlisted Training Detachment, Birmingham and SSG Eugene J. Schmutzer, Co. D, Hayward, Wis.



SOLDIER OF THE MONTH—PFC James D. Overcast receives a plaque designating him Missile and Munitions Center and School soldier of the month for December, 1967, from Col. Paul B. Schup-pener, Commandant of MMCS. PFC Overcast went on to win the post soldier of the month award as well. He is currently studying to be a Pershing guidance and control repairman and is stationed at the 4th Enlisted Training Company. A graduate of Cortez High School, Phoenix, Ariz., PFC Overcast has attended the University of Arizona in Tucson.

The Redstone Rocket

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Rocket Ruminations

The spirit of truth and the spirit of freedom—they are the pillars of society.

—Henrik Ibsen

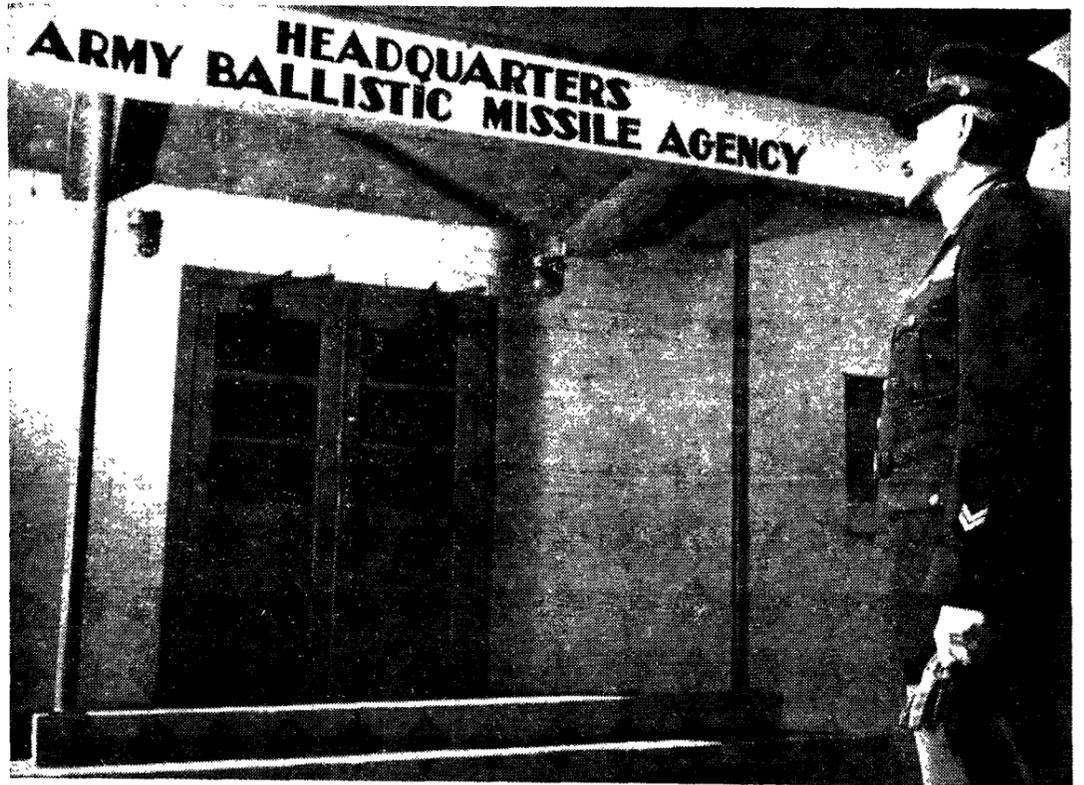
DIM-WIT!

In the jet age where safety engineers build in safety factors, many drivers still use the precautions in operation that a flivver age driver would use.

On all of the roads leading into Redstone Arsenal, drivers without lights in the dusk glide along the highways like thieves in the night. Their aim is not to maim, people or property, but any cautious driver knows, he can't always be seen when the light is dimming.

Near misses are the rule, but enough tangles occur to make the wise turn on their full lights, and not the parking lights which can be missed in the rear view mirror or by a car entering from a side street.

Parking lights as one leaves the Arsenal gate help the gate guard retain his sight. Dimmers on the way home, help preserve a life.



TAKES OVER—Maj. Gen. John B. Medaris took command of the Army Ballistic Missile Agency when it was activated on Feb. 1, 1956. The scientists, engineers and managers of the Agency developed not only new missiles as Army weapons, but two years later launched the Free World's first satellite which is still orbiting on its tenth anniversary.

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EXPLORER I

(Continued From Page 1)

Intermediate Range Ballistic Missile.

In 1956 and 1957, Jupiter "C" vehicles successfully performed their mission in the Jupiter program. Remaining vehicles went into storage. Army attempts to get a satellite launch mission for them were unsuccessful. Then came October 1957 and the first Soviet Sputnik.

The next day Maj. Gen. John B. Medaris, Commanding General of ABMA, took a chance and ordered Jupiter "C" Missile No. 29 removed from storage and made ready for launch. On Nov. 3 came a second Soviet Sputnik. Five days later, on November 8, the Secretary of Defense gave the Army the go ahead to try a space shot with a Jupiter "C".

While ABMA's Development Operations Division under Dr. von Braun prepared Missile 29 for flight, another ABMA element, the Jet Propulsion Laboratory, repackaged into the cylindrical Explorer shell, radiation experiments designed by Dr. James A. Van Allen of the State University of Iowa for the spherical Vanguard satellite.

On Dec. 6, 1957, the United States made its first attempt to orbit a satellite, a long shot launch attempted with the sophisticated Vanguard being fired with all three stages "live" for the first time. Given time for test, the Vanguard was later to perform as designed, but in December 1957, time was in short supply. The first attempt failed.

With the chips really down, ABMA got ready to try for the Army in late January.

There was nothing sophisticated about Jupiter "C" No. 29. It was as off-the-shelf a collection of available parts as anything ever

designed by Rube Goldberg. The booster was an elongated Redstone missile. A special fuel raised its thrust level from the Redstone's 78,000 pounds to 83,000 pounds. On top of the Redstone's tapering instrument compartment sat the aptly named "Tub." Inside the sheet metal "tub" were clustered scaled down solid fuel rocket motors using the same propellant composition then under development for the Army's Sergeant ballistic missile. Eleven of these motors comprised the second stage. Nested inside were three more for the third stage. In the very center of the tub was a single solid motor—the fourth stage and stuck on its end was the satellite.

Just prior to launch, electric motors spun the entire "tub" up to 600 RPM to provide spin stabilization for the upper stages between the time of booster cut-off and separation and second stage ignition.

On Jan. 29th, the missile and firing crew directed by Dr. Kurt Debus were ready. High winds aloft forced a postponement. On the 30th, weather forecasts were still unfavorable. A severe jet stream of 146 knots at 36,000 feet posed a real threat. A countdown began, but was halted when the weather did not improve.

Observations on the 31st still indicated 100 mile an hour winds aloft, marginal conditions. Concerned about the effects of further delay on the morale and efficiency of the firing crew, Gen. Medaris gave the order to launch.

The countdown proceeded with but minor delays. Thirteen seconds prior to first stage ignition came the crisis. Instrumentation detected a deflection of one of the booster's jet vanes. It could have been a faulty reading. It could have been disaster. A cocked vane would have sent the launch vehicle off course to certain destruction.

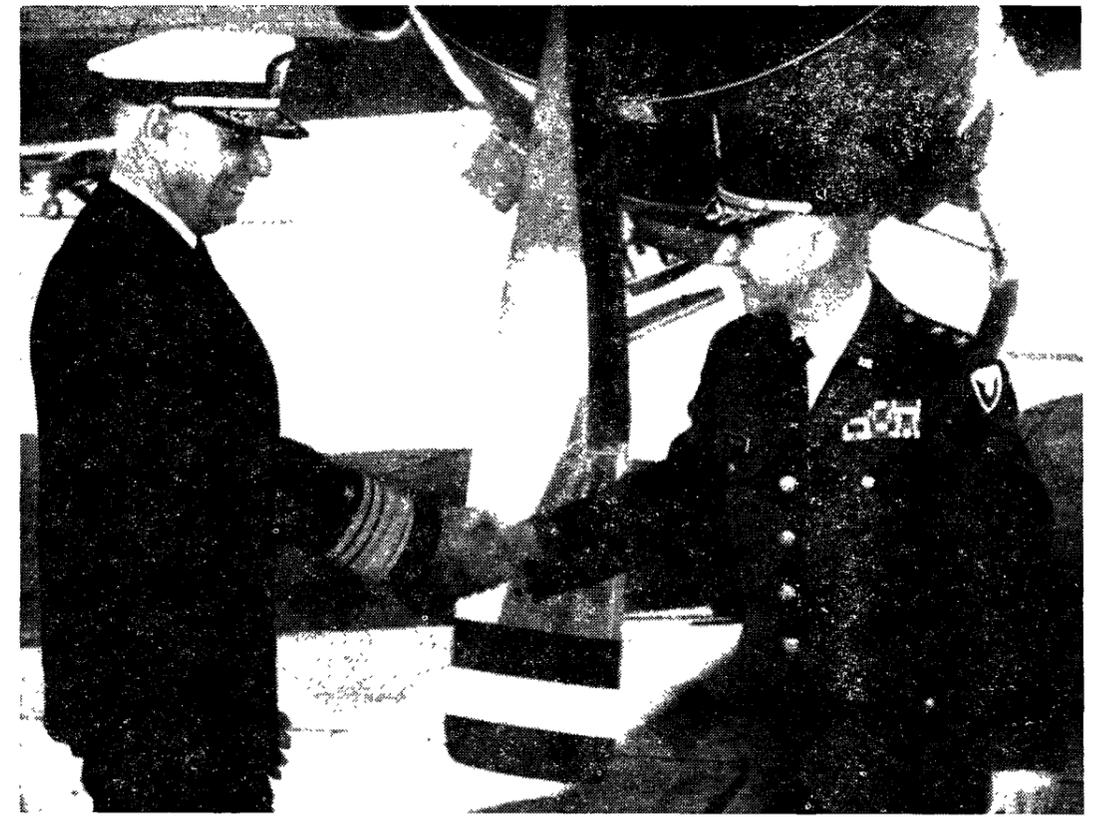
Medaris and Debus at their positions in the blockhouse observation windows looked at one another for a long instant. Then Debus said: "Go ahead."

Seconds later Missile 29 was on its way. One hundred and fifty seven seconds after liftoff, the booster burned out. Five seconds later the booster separated and fell away. The spinning tub coasted silently on into the night, while all eyes in the blockhouse turned to a moving microswitch on the apex predictor. The switch reached its contact point 403 seconds after liftoff. A radio signal flashed from the Cape to ignite the second stage and a very intent Army Captain named Henry C. Paul saw a light flash on a console in front of him, counted "One thousand one, One thousand two" and stabbed a button in front of him to provide the manual backup triggering another radio signal from a tracking station far down range to the upper stage assembly hurtling by overhead.

The second stage fired. Automatic sequencers ignited the third, then the fourth stages.

At fourth stage burnout, the satellite had achieved orbital velocity, but no one on the ground knew that for sure. Instrumentation looked okay. Staging had been confirmed. Now all they could do was wait. Shortly after midnight at the Cape, JPL's tracking station on the West Coast acquired the satellite's radio signal as it completed its first circuit of the earth, confirming orbit had been achieved.

A few minutes later Secretary



WELCOME ABOARD—Vice Adm. Alexander S. Heyward, Jr., is greeted at the Redstone Army Airfield by Maj. Gen. Charles W. Eifler, Commanding General of the U.S. Army Missile Command. Adm. Heyward, Chief of Naval Air Training Command, Naval Air Station, Pensacola, Fla., was the principal speaker at the Reserve Officers Association on Navy night.

of the Army Wilbur Brucker called Gen. Medaris at the Cape to inform him that he and Gen. Maxwell Taylor, then Army Chief of Staff, had selected the name Explorer for the Army satellite.

As the news stories began to move from Cape Canaveral and from Washington where Dr. von Braun, Dr. William Pickering, Director of JPL and Dr. Van Allen met the press, Americans learned that they too had an object in space. In Huntsville, Mayor R. B. "Spec" Searcy lead a snake dance of celebration in the city square amidst cheers that were echoed across the nation.

Almost overlooked in the sheer national joy of having matched the Soviets in achievement, if not in weight in orbit, was the point that the tiny Army satellite also did the scientific job it was designed to do.

Before its last useable radio transmission 63 days after launch, Explorer I's instrumentation had detected and provided vital data on the great trapped belts of radiation surrounding the earth. Scientists hailed the confirmation of the Van Allen radiation belts as the greatest single achievement of the International Geophysical Year.

In the days that followed the launching, thousands of telegrams and letters were received at ABMA from all over the world. Many

said simply "Thank You."

One from Lt. Gen. James Gavin, then Army Chief of Research and Development, seems particularly appropriate today:

"Hearty congratulations from all of us here," General Gavin said in a personal message to

General Medaris and the ABMA team. "We realize it is but the beginning."

TRAILER ALLOWANCE UP

Larger trailer allowances for service members on permanent change of station orders is provided in a new law (P. L. 90) signed by President Johnson. The old ceiling of 51 cents per mile for commercial shipment of household trailer or mobile dwelling during station change is raised to 74 cents a mile.

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NCO Wives Install Officers At Dinner Meeting

Support Directorate's Col. Jean Is Installing Officer For The Event

More than 100 members and guests attended the Redstone Non-Commissioned Officers Wives Club installation ceremony and dinner dance Friday night at the NCO Open Mess.

Mrs. Martha Spooner was the mistress of ceremonies, and introduced Col. J. N. Jean, Director of the Arsenal Support Operations Directorate, who installed the new officers.

The new officers are: Mrs. Joseph Cormier, president; Mrs. Robert Metcalf, first vice president; Mrs. Horace Jackson, second vice president; Mrs. James Harmon, secretary; and Mrs. John

Mazikowski, treasurer. Mrs. Jean continues as honorary president of the group.

Mrs. Jean presented gifts to the retiring officers and certificates of appreciation to the committee chairmen for their work during the past year.

Chap. (Maj.) Joseph V. Coshan gave the invocation, and Chap. (Capt.) James D. Bayne the benediction.

The dinner tables were decorated with centerpieces of blue and white mums and carnations, and the programs for the event followed in the same color theme.



OFFICERS FOR 1968—New officers for the Redstone Non-Commissioned Officers Wives Club were installed Friday night during ceremonies at NCO Open Mess. They are, left to right, top row; Mrs. Horace Jackson, second vice president; Mrs. Joseph Cormier, president; Mrs. Robert Metcalf, first vice president; bottom row, Mrs. John Mazikowski, treasurer; and Mrs. James Harmon, secretary.

NCO Wives Offer \$500 To Eligible Dependent

A \$500 scholarship will be awarded this year for the first time by the Redstone Non-Commissioned Officers Wives Club, according to Mrs. Edwin L. Gedling, NCO Wives Club Scholarship Chairman.

This award is in addition to the \$100 scholarship which the Club has been awarding to the children of members only since 1964.

"There will be a \$500 scholarship which will go to a deserving dependent of an active duty NCO permanently stationed at Redstone Arsenal," Mrs. Gedling said. The deadline for submitting applications is May 1.

All interested eligible dependents are urged to obtain applications for this scholarship starting April 1. The following rules are announced for this scholarship:

Applications must be filed by May 1 at the Army Community Service Center or the NCO Open Mess at Redstone.

Applicants must be high school seniors and dependents of active duty NCO's permanently stationed at Redstone Arsenal for at least

six months.

Applicants must have evidence of acceptance by an accredited college or university, and must submit a 500-word or less essay on "Why I would Like to Receive This Scholarship."

High School seniors who are interested in the program should contact the college of their choice in order to receive acceptance before the May 1 deadline.

Further information may be obtained by calling Mrs. Gedling, 534-0063, after 5 p.m.

The \$100 scholarships for children of members only is known as the "Blanche Moore Award" in honor of Mrs. J. R. Moore who was Club president when the project was started.

Two of these awards were given in 1964, three in 1965, one in 1966, and two in 1967.

Members work during the year at various activities to earn money for the scholarship funds.

Both the \$500 and \$100 scholarships will be awarded to the winning students this year at their high school graduation ceremonies.



EXECUTIVE BOARD—Serving on the Executive Board for the Redstone Non-Commissioned Officers Wives Club this year, are, left to right, Mrs. Robert Burke, Mrs. Warren Hamer, parliamentarian, Mrs. Bradley Reynolds and Mrs. Jerome Gospodarek.

School Wives Hear History Of Huntsville

Dr. Frances Roberts, head of the Department of History and Political Science at the University of Alabama in Huntsville, last week outlined the story of the growth of Huntsville, for 192 wives of officers stationed at the Army Missile and Munitions Center and School.

The occasion was a brunch in the ballroom of the Redstone Officers Open Mess, one of the bi-monthly events scheduled by the group.

Among the guests at the head table was the mother of Mrs. Paul B. Schuppener, Mrs. Clara Utter.

Arrangements were handled by wives of officers assigned in the Combat Development Command. For the first meeting in the New Year, they used symbols of the months of the year as table decorations. For instance, sunbathers

and swimmers beside a pool depicted August, a leprechaun sat in the center of the March table, and January's coming was hailed with a bell and balloons.

In her talk, Dr. Roberts described the religious growth, the economic changes, the political changes, and the cultural growth of Huntsville and its people.

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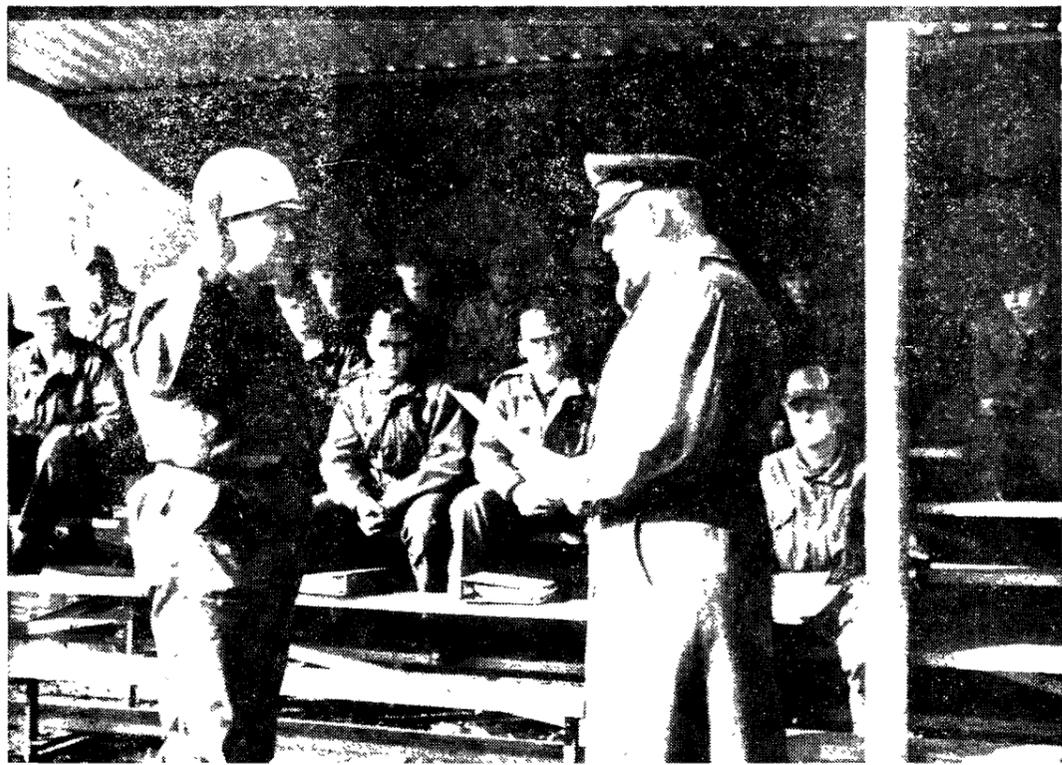
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ADMINISTERS OATH—SFC Eugene Cope is sworn into the Army for a third enlistment by Col. Charles E. Chapman, Unit Training Center Commander. The open air ceremony is witnessed by Cope's class in the Explosive Disposal Division.

Two Organizations Tie In Number Of Suggestions Submitted Last Quarter

The Research and Development Directorate and the Metrology and Calibration Center shared honors for the last quarter of 1967 as the leading Missile Command organizations in the submission of suggestions.

The Directorate was cited for attaining the highest rate of participation among the four large MICOM organizations with the Metrology Center being honored among the smaller units.

Maj. Gen. Charles W. Eifler presented MICOM plaques to the heads of the two organizations at the Command staff meeting last week.

The Commanding General, in making the presentations, noted that this was the first time that two awards have been made. He said that the organizations had been split according to size to insure that all units had an equal opportunity to compete for the awards.

Gen. Eifler said that in the past the large organizations had the advantage due to the number of personnel assigned. The suggestion award is based on the number of suggestions submitted during the three month period compared to the organization's strength.

The Research and Development

Directorate won the quarterly award for the last three months in competition with the Supply and Maintenance Directorate, the Procurement and Production Directorate, and the Directorate of Arsenal Support Operations.

Bracketed with the Metrology Center are, the MICOM Staff Offices, the Land Combat System Project Offices, the Air Defense System Project Offices, and the Missile Intelligence Directorate.

The awards will be presented quarterly with the name of the winning organization being inscribed on the plaque.



Sergeant's Class Witnesses Re-Up

SFC Eugene Cope, a supervisor in the Explosive Disposal Division of the Unit Training Command at the U. S. Army Missile and Munitions Center and School

re-enlisted in a unique ceremony here recently.

Col. Charles E. Chapman, UTC Commander, administered the re-enlistment oath in the presence of one of Sergeant Cope's classes at the outdoor range where he works. The colonel then spoke to SFC Cope's class, telling the students that the sergeant should serve as an inspiration for them to make the Army a career.

SFC Cope is re-enlisted in the Army for the third time. During his Army career, he has been taking US Armed Forces Institute courses and is currently enrolled in a college credit course at

the University of Alabama in Huntsville. He has completed college work through the junior year.

SFC Cope is married to the former Miss Andree Evain of La-Rochelle, France. His parents, Mr. and Mrs. Lee Roy Cope reside in Plainville, Georgia.

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ICO Runs Undefeated String To Five

ICO continued to hold the upper hand in the Civilian basketball league race last week by running their unbeaten string to five with a trio of victories.

The ICO five handed Sentinel a 59-45 setback to start their week of play and then added a 60-36 win over the P&P directorate representatives and a 93-45 lacing of S&M to their string.

Greg Bogue took scoring honors in each of the wins with 20, 26 and 26 point sprees. George Starkey added 18 in the win over Sentinel, Jim Bunnell tallied an even dozen against P&P and Dennis Vaughn was next in line with 17 against S&M.

Metrology, the only other unbeaten team in the running, made it three in a row with a 39-35 win over G&C Lab in their only game. Lee took scoring honors with 15 while Jerry Dooley was hitting for 10 in the losing cause.

Data Processing made it three out of four with a 53-48 victory over G&C as Stover shot 14 points and Maddox hit for 12 more. Dooley paced G&C again with 22 and McGinty hit for 13.

In the final game of the week P&P broke into the win column after three losses with a 48-47 win over SAM-D. Dave Rice fired 26 points for P&P while Magnant was high for the missilemen with 15.

Military Fives Scramble For Position In League

With 15 games in the book through last week, five teams perched atop the Redstone Arsenal Basketball League standing with two victories. Co. B and the two combined teams from MMCS—5th-7th and 1st-4th ETC's—plus MICOM and the Marines all showed 2-0 records.

Four MMCS teams were even at 1-1: 6th ETC, Co. D, Co. C and 2nd ETC. The 8th ETC had a win against two defeats and five teams were winless. With one loss was the 291st MP's, while UTC, 9th ETC, 3rd ETC and Co. A were all 0-2.

In action last week, Bob Atkinson came up with the top individual effort of the season to lead Co. B to its second victory. He scored 38 points in a 74-48 victory over 9th ETC Wednesday night. Donald Reichart added 20 and Dan Gordy 14 for all but two of the victory total. Harry Umfleet had 16 for the losers.

The first hair-raiser of the season occurred Friday night when 8th ETC edged 3rd ETC, 44-43 with Jeff Fortier scoring 19 and Richard Canino 14. In defeat, John Anzelmo scored 10. He had 25 the previous night, although 3rd also lost that game, 67-47, to 2nd ETC led by Bill Rebstock's 24.

Victories for the combination teams marked the beginning of the week with the 1st-4th crew beating the MP's, 34-28, Monday and UTC, 50-45, Tuesday. John Riley scored 13 and Terry Davis 11 in the first win and Davis added 14 to pace the second triumph, offsetting 13 apiece for UTC by Frankie Mullins and John McCurdy.

The 5th-7th squad bested Co. D, 59-39, Tuesday behind the 23-point impetus of Ted Champion and Joe Hamilton's 11. "Delta" was led by Mike Grady with 14 and Joe Lerner with 10.

In other action, the Marines got their second win the easy way—by forfeit from Co. A—and MICOM had to earn its second by outpointing 6th ETC, 57-42. Bob Shimeflug netted 15 for MICOM; Richard Moore added 14 and Russell Morgan 10. Tops for 6th was James Boeske with 20. Co. C swamped 8th ETC with a 50-30 attack as high point honors were shared by Bill Johnson of "Charlie" and Walter Brandon of 8th with 14 each.

The upcoming schedule:
Jan. 31 — 1st-4th ETC vs. Marines, Co. D vs. UTC.
Feb. 1 — Marines vs. MP's, Co. C vs. 5th-7th ETC.
Feb. 2 — 6th ETC vs. Co. B, 2nd ETC vs. 8th ETC.
Feb. 5 — 3rd ETC vs. MICOM, UTC vs. 6th ETC.
Feb. 6 — 5th ETC vs. 3rd ETC, Co. A vs. 2nd ETC.

Macey Spills 583 Pins To Lead FS

Al Macey was king of the hill in the Field Services League last week when he outdistanced seven rivals, all of whom passed the 550 mark, for the best individual three game total in the league.

Macey turned in a 583 count as the Expeditors won three points and split the other of their match with the Rebels. The win boosted the Expeditors past the Essobees into second behind the Guided Muscles.

The Musclemen had a pair of hot-shooting team members but it was only enough to muster a single point from the Gyros. Fred Stewart guided the Muscles with 579 and Howard Jess chipped in with 565. Ed Burg was the Gyro leader with 547.

Ken Thew shot a 564 but it wasn't enough to stave off a sweep scored by the Satellites at the expense of the Essobees. Bob Adams turned in a 530 evening for the losers while Bill Crump led the Satellites with 533.

The Chiefs put two of their bowlers in the over 550 class in winning a trio from the Crackers. Ralph Sturgill had a 577 and Ralph Nearhoff connected for 562.

Vince Baer totaled 575 for the Washouts and Jess Partridge hit for 564 for Baker Real Estate as the two teams split even in their match.

Hopefuls Swept Off Top In A-B-C

A clean sweep dealt out by the Lucky Strikes to the Hopefuls boosted the Wheelers into sole possession of first place in the A-B-C Officers bowling league last week.

The Wheelers took full advantage of their golden opportunity by sweeping all of the points in their match with the Yanks. In other matches the Five Splits won six out of eight from the Retreads and the Black Jacks had the same winning margin in besting the Pin Splitters.

Ray DeBolt was the leading scorer for the evening as the bowlers continued to find the pins at the Post Lanes tougher than expected. DeBolt turned in a 521 card for the Strike and Don Vanderheyden helped the cause with a 509 effort.

The only other better than 500 turned in was manufactured by

UTS Takes Over Lead With Sweep

For the second week a new leader appears in the School Brigade bowling league at the post lanes. Hq UTS (10-2) one of three teams to win all four points last Wednesday, stands a half game ahead of 9th ETC, which also swept.

Company A collected four to move into a four-way tie for third place with 2nd ETC, Marine Det. and 5th ETC at 8-4. The 6th ETC stands 7-5, followed by 200th Ord Det at 6½ and 5½. Three letter companies—B, D and A—are grouped at 6-6, next is 7th ETC at 5-7, and 1st and 8th ETC are both 3-9. Rounding out the league are 4th (2-10) and 3rd (0-12) ETC's.

Stealing the limelight in the third week was Company B, which rolled season high series and game in both scratch and handicap categories. Led by Don Reichart's 201 single and 508 series, "Brave" managed an 893 scratch

Dick Love when he shot a 507 in the losing Retread attack.

game (1069 handicap) and 2377 series (2905 w/h). Reuben Patton added a 507 series to the cause.

Other individual efforts included a 604 handicap series, third best of the season, for Les Heath of 6th ETC.

On the scratch ledger, Warren Hamer of Company D fired a 521 to match Kai Hansen of 7th ETC with a 172 season average behind Edgar Yohe of Company C (175) and Dick Weiss (187). Hansen rolled a 505 and Yohe a 507 on the third go-round.

Stan Baker shot the only other 200 game, hitting it on the nose, and contributed a 514 series to the 6th ETC total.

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Saturday, Feb. 10 at 10:33 2/3 A.M.

The fine 115 acre farm, 2 bedroom brick home, hogs and farm equipment belonging to Mr. & Mrs. David E. Moon. Located on Highway 67, 20 miles southeast of Huntsville, Ala., 20 miles east of Decatur, 15 miles east of Hartselle in Morgan County, Alabama.

This fine 115 acre farm is all level, has plenty of everlasting water furnished by springs, creeks and wells. The lovely brick home consists of 2 bedrooms, living room, dining room, kitchen, bath, large screened in porch across back, has extra large storage room. On the back is a shop or work shed.

The farm is completely level with no wasteland whatsoever. Water is furnished by West Fork Creek, a branch running through entire farm, springs. It has long frontage on Alabama Hwy. 67. The farm is located only 9.5 miles from Somerville, Alabama. Outbuildings consist of barn, crib, hog house. This is one of the finest locations in Morgan County.

THE FARM WILL BE OFFERED IN 12 TRACTS AND THEN AS A WHOLE: THE HIGHEST PRICE WILL DETERMINE THE SALE.

Tracts 1 and 2 are fronting the old county road. Tract No. 1 has 1.4 acres. Tract No. 2 has one acre. These are beautiful wooded lots. Excellent building on both tracts.

Tract No. 3 has 330' frontage on the old county road. It consists of .65 acre.

Tract No. 4 is 1.35 acres with 235' frontage on county road. It is level; an excellent building site.

Tract No. 5 fronts Hwy. 67 and joins Tract No. 4. It has 2.71 acres with an excellent building site with 435' frontage on Hwy. 67. It is a well drained lot, level to rolling.

Tract No. 6 consists of 3 acres and 435' frontage on Hwy. 67. This is an excellent location with a beautiful building site. It is all level, one of the fine tracts we will sell.

Tract No. 7 is one of the finest tracts to be found on any highway. It already has a 1,000 gallon septic tank, it has electricity, it has a large spring for everlasting water, 400' of field tile. This is an excellent location to build a home or for a trailer. It is level, well drained and has plenty of shade.

Tract No. 8 fronts Hwy. 67 390', consists of 5 acres, 450' deep. Small acreage is what people are looking for on a highway. This tract meets all the requirements.



TRACT NO. 9

Consists of 2.8 acres, 500' frontage on Hwy. 67. It has the 2 bedroom brick home, 12' garage. It has level, well sodded lawn and plenty of young pine trees. If you are looking for a nice brick home for city living in the country, be sure to look this tract over.

Tract No. 10 has 8.5 acres of land 500' frontage on Hwy. 67, has several beautiful home sites. It is all level, an excellent tract for building. Branch runs through this entire tract.

Tract No. 11 with 40 acres is an excellent small farm. It has excellent home site, with plenty of shade. Watered by spring and pond. Has barn, crib, and hog house. A creek runs through a corner of this tract. This tract is completely level and as excellent livestock farm as you will find anywhere. Be sure to look at this tract particularly.

Tract No. 12 is directly behind Tract No. 11 and consists of 40 acres. It is all level. There is a proposed road running from Hwy. 67 to Tract No. 12. Water is furnished by West Fork Cotaco Creek and has large frontage on this creek. This is one of the richest tracts on the entire farm.

This 115 acre farm is located in a rich farming community of Center Grove, Alabama, within a short distance of six county seats. This is one of the fine livestock or dairy farms you will find in this section. If you are looking for small acreage to build a home or large acreage or baby farm, be sure and attend the auction sale on February 10.

TERMS: 25% down sale day, balance on or before 30 days.

POSSESSION: Of the brick home, on or before 60 days.

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TERMS OF PERSONAL PROPERTY: CASH.

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SPARES UNABLE TO REGAIN LEAD

A three-out-of-four win over Courts & Co. was not enough to boost the Spares back into the lead in the Comp Center Mixed League when the All-Sports duplicated that winning margin against the Bad Gnus.

After setting the league pace for better than three months, the Spares were tumbled off the top rung two weeks ago with the All-Sports taking over.

In last week's matches Howard Jess shot a 520 as the Spares attempted to regain the lead but Randy Sumner was tops for the Courts team that captured the second game and prevented the change in leadership.

The All-Sports got a 526 from Wayne Spruell and a 507 from Sue Todd in winning three from the Bad Gnus.

Jim Traglia grabbed individual honors for the week with a 555 count as the Lucky Strikes took all four points from the Fortren Fours. The leading female was Doris Hyatt who totaled 515 for the Strikeouts.

Doris had a 206 in her total and Ed Murrah shot a 537 series as the Strikeouts won three points from the Skunks whose Joe Bennett fired a 525 set.

All-Sports Widen Margin In AMC

Aided more than a little by a sudden reversal of form on the part of their closest rivals, the All-Sports are threatening to break the AMC Bowling league race wide open and have boosted their margin at the top of the standings to a full eight points.

The Voyagers battled the Trophy Makers on even terms through the first half of the season and even led most of the way. However, in the last four Wednesday sessions the Voyagers have been able to win but three points while the All-Sports were taking an even

Thiokol Announces Five Promotions

John H. Goodloe, General Manager, Thiokol Chemical Corporation-Huntsville Division, has announced the following promotions in key positions at the Division effective Feb. 1. R. H. Wall, Director of Operations; R. P. King, Manager of Engineering; Samuel Zeman, Chief of Rocket Engineering Section; G. E. Webb, Chief of Igniter Section; and R. E. Thomas, Chief of Engineering Research Section.

Wall, Director of Operations, moves from Manager of Engineering to replace J. B. Galloway who has been elevated to Thiokol's Corporate Staff. A graduate in Mechanical Engineering of the University of Alabama, Wall joined Thiokol in 1949. He has served in various capacities with the Division and has had major engineering responsibilities in the development of the highly successful propulsion systems for such missiles as the Minuteman, Spartan, Pershing, Nike Hercules, etc. He initially was appointed Manager of Engineering in 1961. A past Director of the Alabama Section of the American Institute of Aeronautics and Astronautics, he currently is a member of the AIAA's national Solid Rocket Committee.

King, new Manager of Engineering, received his BS in Electrical Engineering from Auburn University. Since joining Thiokol in 1952 his work has included Chief Igniter Project Engineer, Chief, Igniter Section, and an assignment as Manager, Rocket Engineering Department for Thiokol's Space Booster Plant in Georgia. He shared in the development of the shockless "Pyrogen" igniter concept of ignition which is now in general use in a wide variety of solid propellant rocket motors. His most recent assignment was as Chief of Rocket Engineering Section.

Zeman, replacing King as Chief of Rocket Engineering Section, has most recently been Chief, Igniter Section. He came to Thiokol in 1958 from the Army Rocket and Guided Missile Agency where he served as Chief of the Inorganic Chemistry Section. His work with the Huntsville Division has been directed primarily in the area of pyrotechnics, squibs, and ignition systems. He received his BS in Chemistry and Physics from the

dozen. The Avengers kept the Voyagers on their backward slide last week with a four for four sweep while the All-Sports were winning a trio from the Tigers.

The sweep gave the Avengers sole possession of third when the Bombers dropped all four to the Raiders. The Lancers scored the third sweep at the expense of the Packers.

Tom Patterson stroked a 536 for the Avengers while the All-Sports were taking their lead from Ernie McClure who chopped down 554 maple sticks.

Les Thomas was the individual leader of the week with a 583 count for the Raiders. Bob Lindeman shot a 533 for the crew while Tom Smith topped the Bombers with 538.

Hugh Nunnally fired a 563 for the T-Birds but the Travelers won three games of their set as George Johnson led with 551.

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University of Illinois and is a nationally recognized expert in the field of ignition.

Webb, Chief of the Igniter Section, holds a BS in Mechanical Engineering from Auburn University and an MS in Industrial Engineering at the University of Alabama at Huntsville. He has participated in the development of exploding bridgewire ordnance devices for the Pershing, Nike Hercules, Falcon, and Saturn Ullage motors. His most recent assignment was as Supervisor of the Ignition Systems Development Group of the Division's Igniter Section.

Thomas, a graduate in Electrical Engineering from Tennessee Polytechnic Institute, has been with Thiokol since 1958. He was associated for a time with Thiokol's Space Booster Division. Since returning to the Huntsville Division, he has worked as Principal Engineer in the Engineering Department, responsible for rocket motor design and performance.

Drive Safely

Capt. Brown Schedules Talk At Graduation Friday

Students from six courses, including a Japanese enlisted man, are scheduled to graduate from the Army Missile and Munitions Center and School here Friday, at 9:30 a.m. in the Post Theater.

Guest speaker for the event will be Capt. Roland D. Brown, Chief of Lance Division in the Doctrine and New Materiel department of MMCS.

A 10-year veteran since being commissioned through ROTC training at Gonzaga University of Spokane, Wash., Capt Brown also served here in 1965 in the Special Weapons Section of Pershing Project Managers Office.

Between assignments on the arsenal, he spent 18 months at five different posts in Vietnam, returning last July. There, he was decorated with the Army Commendation Medal.

Capt Brown received a Bachelor

of Science degree in chemistry from Gonzaga in 1956 and was awarded a Master of Science in analytical chemistry from there while on active duty in 1958. Early in his career he completed four Army Ordnance schools before a four-year stay in Europe. He then took advanced ordnance training at Aberdeen Proving Ground before coming to RSA.

Capt Brown resides with his wife, Chrusta, and three children in Huntsville.

Music is provided by the 55th Army band, and the public is invited to attend.

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TEN YEARS AGO TODAY,

SATELLITE EXTRA

The Huntsville Times

SATELLITE EXTRA

HUNTSVILLE, ALABAMA, SATURDAY, FEB. 1, 1968

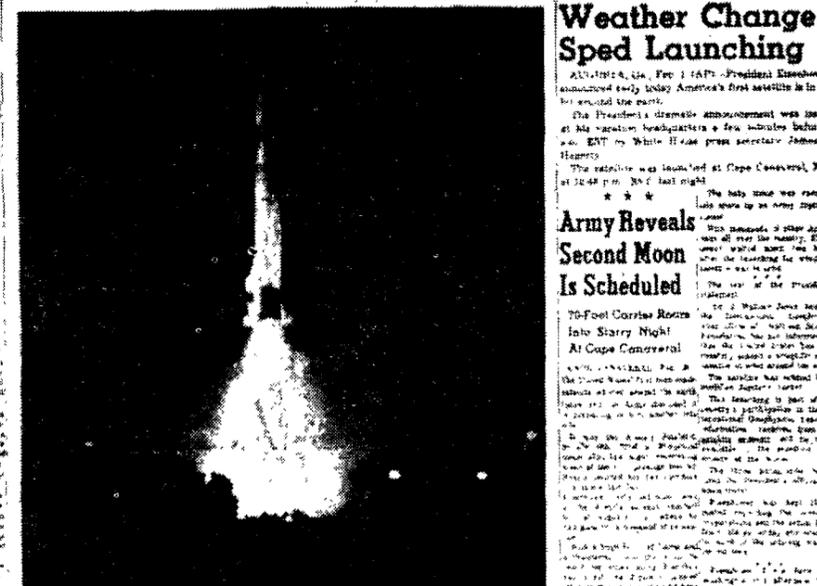
Jupiter-C Puts Up Moon

Wail Of Sirens Brings In Era On Space Here

Thousands Gather On The Square For Nasty Success Demonstration

The wail of sirens, blaring horns and the hiss of rockets... Thousands gathered on the square for a noisy success demonstration... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency...

Eisenhower Officially Announces Huntsville Satellite Circles Globe



The Explorer I satellite is shown at the moment of launch from Cape Canaveral, Fla., at 8:48 a.m. on Jan. 31, 1958.

9 Labs Here Aided Project Of Launching

It Took Every One To Successfully Put Up Moon Vehicle

The 9 labs here... The project was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency...

Weather Change Sped Launching

70-Foot Carrier Roms Into Starry Night At Cape Canaveral

The weather was ideal... The launch was successful... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency...

Army Reveals Second Moon Is Scheduled

70-Foot Carrier Roms Into Starry Night At Cape Canaveral

The Army has announced... The second moon launch is scheduled... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency...

Here Are The Basic Facts

The Explorer I satellite... The launch was successful... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency...

Satellite Gets Official Name; It's Explorer

The satellite is named Explorer I

The satellite is named Explorer I... The launch was successful... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency... The event was held at the Huntsville Ordnance Plant... The demonstration was a success... The Army Ordnance Missile Agency...



The Explorer I satellite is shown at the moment of launch from Cape Canaveral, Fla., at 8:48 a.m. on Jan. 31, 1958.

Satellites Collect Basic Space Data For Scientists

The U. S. Army had accomplished its mission. An Army rocket propelled Explorer I, the Free World's first scientific earth satellite, into orbit on Jan. 31, 1958. The successful Army missile team soon began a series of launches that gave to the United States and the world a fundamental knowledge of space and how to get up there. Scientists credit the little Explorer I satellite with the most important discovery of the International Geophysical Year of 1957-1958, the existence of the radiation band above the earth which became known as the Van Allen Belt. The name is that of Dr. James A. Van Allen, of the State University of Iowa, who designed the satellite's cosmic radiation experiment which discovered the belt. The satellite's other experiments confirmed man's ability to control temperature within an artificial satellite and supplied valuable scientific data on micrometeorites. New Discoveries in Space Explorer III, launched by a Jupiter C in March 1958, gathered further data on the existence and composition of the Van Allen Belt. Explorer IV, put into orbit four months later by another Jupiter C,

conducted further radiation experiments. In December 1958, the Army Ballistic Missile Agency (ABMA) conducted two major shots. Pioneer III, a deep space probe, rocketed 63,000 miles into space and confirmed the existence of two distinct Van Allen radiation belts. And a squirrel monkey named "Gordo" rode into space in the nose cone of a Jupiter intermediate range ballistic missile (IRBM), but the nose cone was lost after returning to earth. On March 3, 1959, the Army launched the Free World's first successful deep space probe, Pioneer IV. The 13-pound payload passed within 35,000 miles of the moon and went into permanent orbit around the sun. Its radio transmission, from more than 400,000 miles in space, proved the feasibility of radio communication with deep space payloads. Another Army First On May 28, 1959, ABMA accomplished another first for the Army. Two monkeys, "Able" and "Baker," rode into space in the nose cone of a Jupiter IRBM and were recovered from the Atlantic, the first primates to make a successful round-trip flight. ABMA orbited Explorer VII,

Army's last satellite, on Oct. 13, 1959, just before President Eisenhower announced that the Army's impressive space capability would be transferred to the new civilian National Aeronautics and Space Administration. (NASA). Guiding the overall Army space effort after the launch of Explorer I was the Army Ordnance Mis-

Army Research Blazes Trails Into Outer Space

The U. S. Army, with the help of a dedicated group of German scientists headed by Dr. Wernher von Braun, led the Free World into space. In the decade after World War II, Army pioneers laid the foundation for American space exploration by developing reliable rockets and an invaluable body of scientific data on rockets and missiles. Even before the end of the war, Army men were stepping up their activity in rocket development. The Office of the Chief of Ordnance set up a Rocket Branch in September 1943, a new organization to manage the field of rockets and guided missiles. By mid-1944, with the cooperation of the Jet Propulsion Laboratory (JPL) operated by the California Institute of Technology, the Army was deeply involved in research on guided missiles. This work established the feasibility of guided missiles and led to early research on anti-aircraft and long-range, surface-to-surface missiles. In September 1944, London was first bombed by Hitler's terrifying new weapon, the V-2 rocket, which carried vast destructive power at supersonic speeds. V-2 Scientists The V-2 was the result of work started in a German research center at Peenemunde on the North Sea in 1936. Dr. von Braun was an instrumental scientist in this program. After the war, the Army collected a team of 130 key rocket specialists, including Dr. von Braun, who accepted an offer to come to the United States. The gathering of these scientists, who later became U. S. citizens, was a significant boost for the Army's infant rocket program. This accomplishment was the work of the Army's Ordnance Technical Intelligence, under the direction of the late Holger N. Toftoy, who as a major general

later commanded Redstone Arsenal, Ala. General Toftoy's men in Germany collected some 100 V-2 missiles and their spare parts, providing material for early U. S. research. Meanwhile, in the United States, the Army, realizing it was pioneering in a field entirely new to U. S. Technology, began to build its scientific research, and basic information on rockets and missiles was assembled. U. S. Supersonic Rocket By the fall of 1945, White Sands Proving Ground, which had been established in the New Mexico desert the year before, was alive with several Army missile projects. JPL that month fired America's first liquid propelled supersonic rocket, the WAC-Corporal, to an altitude of 43 miles. This work established basic principles for use in supersonic rockets. Also, in May 1946, Army scientists began firing the captured V-2 rockets at White Sands, contributing ever increasing amounts of rocket data. The results of this work were impressive: on Feb. 24, 1949, the Army's rocket pioneers achieved man's first penetration of outer space with a two stage rocket (a modified V-2 carrying a JPL-developed WAC-Corporal) that reached an altitude of 259 miles, a record not equalled for eight years. In the early 1950s Redstone Arsenal became the center of Army Ordnance rocket activity, with U. S. engineers and scientists augmenting the original German team. The Redstone Missile One of the outstanding achievements of the von Braun group at Redstone Arsenal was Redstone, a liquid-fuel surface-to-surface missile with a range of about 200 miles. In December 1955, a Redstone with a complete inertial guidance system followed a successful trajectory to its target area, proving the tactical feasibility of this type of guidance. Redstone became a highly reliable vehicle. Modified into Jupiter C for successful experiments with problems of heat associated with the re-entry of missiles into the earth's atmosphere, Redstone was the basic missile upon which the Army built its satellite-orbiting capability. (ANF)

SCIENTISTS WHO WERE PROMINENT in the development of the U.S. Army Jupiter C rocket and the Explorer I satellite answer questions from the press after the successful launch of Explorer I, the first U.S. satellite, Jan. 31, 1958. From left are Dr. William H. Pickering, Dr. James A. Van Allen, and Dr. Wernher von Braun.



EXPLORER I BEGAN ORBIT

ABMA Team Proves Equal To Launching Satellite In Orbit Around Earth

January 31, 1958. It was just 10 years ago, but that date came before "A-OK" meant all right and kids counted backward to "blast-off" as surely as they learned to count forward.

It came only a little while after men were sure that something they shot into space could survive re-entry into the earth's atmosphere.

That was the day the United States launched its first successful earth satellite, Explorer I. It was a day of rejoicing for the Nation.

It was also a day of special triumph for the U. S. Army.

Explorer I was the Army's project. Its launch was the birth of a new era of discovery for the American people, and it demonstrated that the Army's team of dedicated space pioneers possessed a capacity for space exploration unmatched in the Free World.

That capacity included rockets—among them the proven Redstone and the powerful Jupiter C which launched Explorer I—and a rapidly increasing amount of space-age data, with solutions to major rocketry problems such as stabilization, guidance, and effects.

All this had been accomplished with limited budgets and uncounted problems, but also with the leadership of outspoken men convinced of the importance of their

work and with the support of thousands of engineers, scientists, and other workers.

Among the agencies directly participating in the Explorer I launch were the following:

- The Army Ballistic Missile Agency (ABMA), commanded by Maj. Gen. J. B. Medaris, now retired and living in Maitland, Fla.

- ABMA's Development Operations Division, headed by Dr. Wernher von Braun, now director of the George C. Marshall Space Flight Center of the National Aeronautics and Space Administration (NASA).

- The ABMA Missile Firing Laboratory, headed by Dr. Kurt Debus, now director of the Kennedy Space Center, Cape Kennedy, Fla.

- Jet Propulsion Laboratory (JPL) of the California Institute of Technology, directed then and now by Dr. William Pickering.

Immediately after World War II, the Army, with Dr. von Braun and his team of rocket scientists, began experimenting, researching, testing, and thinking. First to put a rocket into space, first to launch an intermediate range ballistic missile, the Army had what it needed to put the Free World's first satellite into orbit.

So when the United States de-



CHIEF OF STAFF VISIT, DEC. 9, 1957—The Army's Chief of Staff, Gen. Maxwell D. Taylor, visited the Army Ballistic Missile Agency today. Left to right are Maj. Gen. J. B. Medaris, Agency commander, Gen. Taylor and Dr. Wernher von Braun, director of development operations in the Agency, looking at an Army prototype of a satellite like Explorer I. This was taken shortly after the Army was assigned the mission of launching a satellite in support of the International Geophysical Year.

decided that control of space exploration should be turned over to a civilian agency, the Army had a most impressive gift to present.

Civilian direction of the Nation's modern space program began with the creation of NASA on Oct. 1, 1958. Then NASA began a long process of assimilating the widely scattered U. S. space programs.

The Army's capability for space exploration was exactly what NASA needed. In October 1959, President Eisenhower approved the transfer of Army's space capacity to NASA, and on July 1, 1960, with the creation of the Marshall Center, the Army's historic space program ended.

The Army transferred to NASA

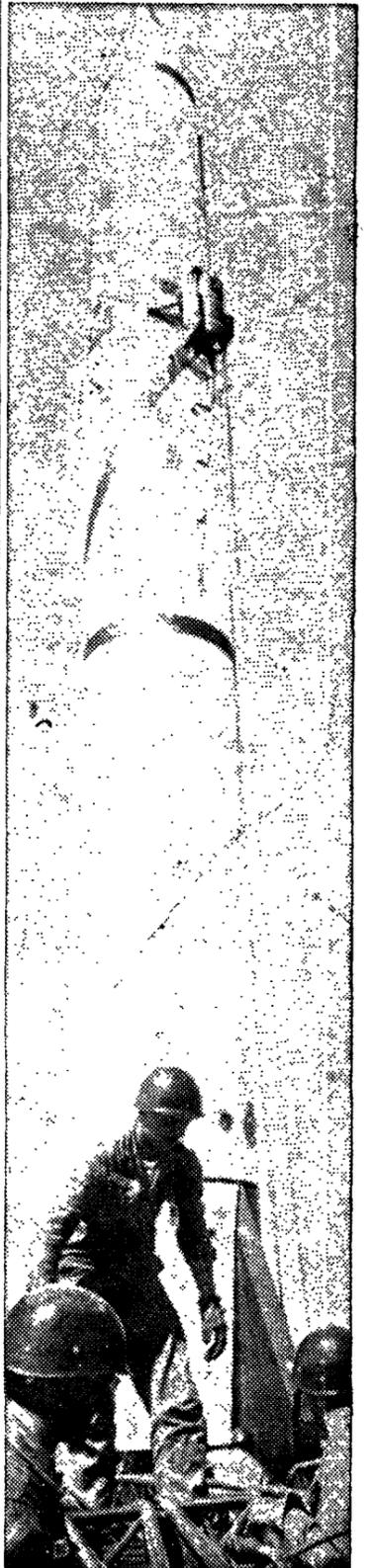
not only Dr. von Braun and his team, but some 3,000 experienced civilian personnel and more than \$100 million worth of facilities—the men and equipment needed to design, develop, test, build, and finally launch space vehicles.

Among the projects transferred by the Army was Saturn, designed by the von Braun team in 1957 and 1958 to create a giant space engine. This concept evolved into the NASA Saturn I booster.

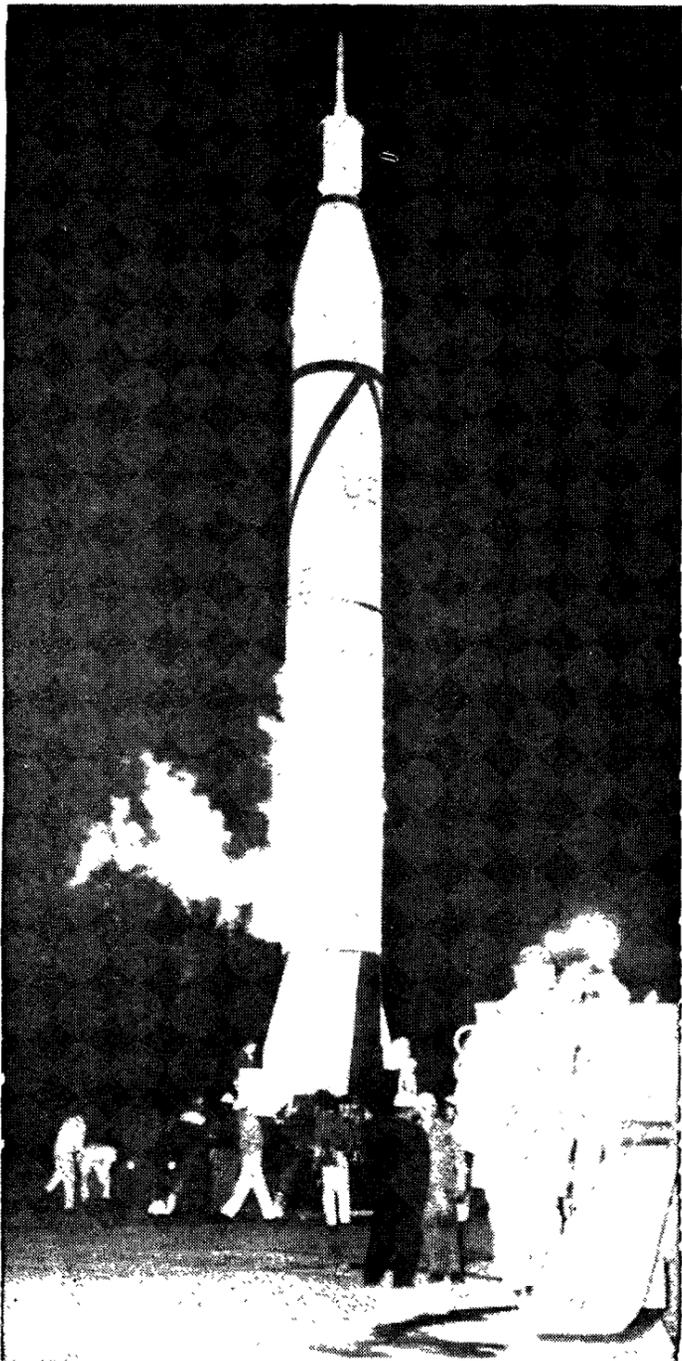
The Army's space legacy was a group of men, their hardware and their ideas.

That legacy was the beginning. The giant 363-foot long Saturn V rocket that put 280,000-pound Apollo 4 into space last November

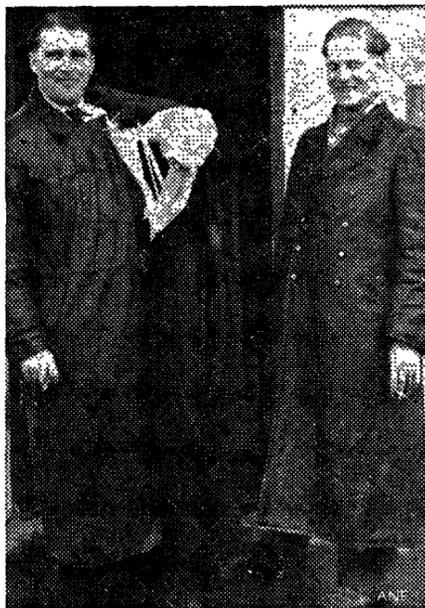
generated 7.5 million pounds of thrust. In contrast, on Jan. 31, 1958, relatively tiny 68.6-foot Jupiter C developed only 83,000 pounds of thrust to orbit its 30.8-pound payload, Explorer I. But it was enough. (ANF)



A LAUNCH CREW works on Redstone, the "old reliable" U.S. Army missile that led to major Army space achievements.



READYING FOR COUNTDOWN—Explorer I receives last minute checkout by the Army Ballistic Missile team before the countdown ten years ago today that launched the first American satellite into orbit around the earth. Silent after 63 days, the instrumentation gave scientists valuable information before communication was cut off. Explorer I still orbits silently.



DR. WERNHER VON BRAUN (left) and his brother, Magnus, developers of the V-2 rocket, surrender to U.S. Army troops in May 1945 at their mountain retreat. They had fled from the German scientific center at Peenemunde ahead of advancing Russian forces.



SECRETARY OF THE ARMY Wilber M. Brucker (left) congratulates Dr. William H. Pickering after they learned that Explorer I had been successfully launched. At right, Dr. Wernher von Braun shares in the good news on Jan. 31, 1958. Secretary Brucker initiated administrative shortcuts that aided the Army missile development program.

PROGRAM BECAME 'CRASH'
TEAM HERE WAS CHOMPING AT BIT;
SPUTNIK TRIGGERED STARTING GATE

Put a scientific earth satellite into orbit? Sure, the pioneers of the U. S. Army's missile program said, they could launch one anytime. All they needed was the go-ahead.

The order to go came on Nov. 8, 1957, a few weeks after the Soviet Union rocketed the first earth satellite into orbit, a scientific achievement that surprised the world.

But the Army missile men had a satellite-orbiting capability well before the Soviet launch. The

Army had proposed as early as September 1954 that a scientific earth satellite be orbited with its highly successful Redstone liquid-fuel ballistic missile as the basic launch vehicle.

This first proposal eventually became Project Orbiter, a satellite-launch program submitted to the Department of Defense in the spring of 1955 by the Army's missile developers at Redstone Arsenal, Ala., under the direction of Dr. Wernher von Braun.

The Army proposed a main stage



MAJ. GEN. J. B. MEDARIS and Dr. Wernher von Braun discuss a model of the U.S. Army's Redstone missile in January, 1956.

of the Army's Redstone, capped by three high-speed upper stages consisting of clusters of small solid-propellant motors. But Orbiter was abandoned later in 1955 in favor of Project Vanguard, a design submitted by the Naval Research Laboratories.

In early 1955, the Army's attention shifted to development of the Jupiter intermediate range ballistic missile (IRBM). The heat associated with re-entry of a ballistic missile into the earth's atmosphere was a major problem. No one was certain that a man-made object launched into space could return to earth without burning up.

Using the principles already established in Project Orbiter, the Army Ballistic Missile Agency (ABMA) modified the proven Redstone for the main stage of a missile to use in re-entry experiments.

This experimental missile was named Jupiter C because of its role in the Jupiter development. The C was an abbreviation of "composite re-entry test missile."

Jupiter C, first launched in September 1956, was a complete success, with enough power to orbit a satellite. Maj. Gen. J. B. Medaris, Commanding General of ABMA during the Army's space research activity, recalls that, in September 1956, he was specifically ordered to Cape Canaveral, Fla., to see that the energetic Dr. von Braun did not put a live rocket in the last stage and create a satellite.

Less than a year after the Army began tests to see if its scaled-down Jupiter nose cone could

withstand fiery re-entry heat, President Eisenhower announced that the Army had found a workable solution to the heat problem.

So the Army had the vehicle and the know-how set to go when, in the weeks after the Soviet launch, it received the order to orbit an earth satellite.

At 10:48 p.m., Jan. 31, 1958, the order "firing command" flashed the signal to launch the Jupiter C from Cape Canaveral with Explorer I atop.

Incidentally, Explorer I is still up there. Its last usable transmission occurred 63 days after the launch, but the satellite itself is expected to remain in orbit for about two more years. (ANF)

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Awards Go To Planners

The Hon. Stanley R. Resor, The Secretary of the Army, will mark the tenth anniversary of the launching of the first United States Satellite, Explorer I, by presenting silver medallions to the original Explorer I team: Maj. Gen. John B. Medaris, USA (Ret.), Mr. Thomas F. Morrow, Dr. William H. Pickering, Dr. James A. Van Allen, and Dr. Wernher von Braun.

The presentations will be made at the Tenth Anniversary Reception tonight at the Statler Hilton Hotel Presidential Ballroom, 6:00 to 8:00 p.m. Peter Hackes, NBC news correspondent, will moderate a brief program beginning at 7:00 p.m.

This event is being sponsored by the Association of the United States Army, George Washington Chapter, Gen. Charles L. Bolte, USA (Ret.), president; the city of Huntsville, Glenn H. Hearn, Mayor, and Madison County, Alabama, James E. Record, chairman, Board of County Commissioners; and the Space Pioneers Committee, Sen. John J. Sparkman, honorary chairman.

Many distinguished guests from the National Aeronautics and Space Council, the Senate Aeronautical

and Space Sciences Committee, the House Science and Astronautics Committee, and the Marshall Space Flight Center will join in honoring these space pioneers. Department of Defense personnel are being invited as guests of the reception committee.

SEEKS TECHNICAL PAPER

The Technical Committee of the Society of Logistic Engineers is seeking a technical paper of general interest from members willing to make a presentation at the May meeting.

The subject, a committee spokesman said, may be the author's choice with broad enough subject matter to be interesting to the general membership. R. D. Walker, Marshall Space Flight Center, Project Logistics Office, I-PL-CH is coordinator and should be advised by March 1 by individuals wishing to participate on the program. Final submissions are due April 1. Authors will be notified of acceptance by Apr. 15.



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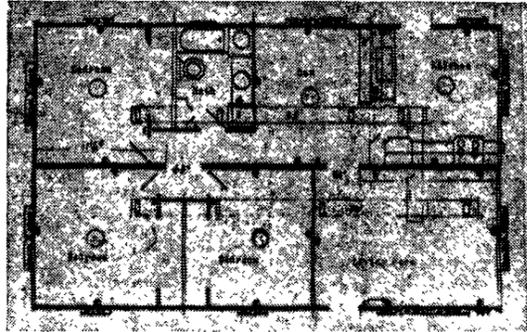
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Expanded Insurance Plan Included In Salary Act

All civilian employees of the Federal government are well aware of the increased pay provisions of the Postal Revenue and Federal Salary Act of 1967, and most of them know that the legislation contains important changes in the group life insurance program.

However, what precisely those changes are and what affect they will have for the individual worker, is not too well understood.

Program revisions enacted by the bill signed by President Johnson on Dec. 19, 1967, are divided into three categories. They are: increased insurance coverage resulting from retroactive salary increases; increased regular coverage resulting from a new insurance schedule; and new optional insurance coverage.

The retroactive salary increases provided by the new law operate to increase the insurance of those employees whose salaries are raised to the next higher \$1,000 salary bracket, within the \$20,000 maximum. These increases are effective on the date of enactment.

This provision does not change the amount of insurance for those employees who were separated before the date of enactment or those who had completed one year in nonpay status before the date of enactment.

Where the salary increases operate to increase the amount of insurance for an employee, the corresponding increase in withholdings from his salary must be made for the full pay period in which the enactment date falls.

The new insurance schedule provision sets the minimum policy at \$10,000 and increases the maximum to \$32,000. The latter figure is subject to automatic change whenever the executive salary level is increased.

Under this section of the bill an employee with an annual compensation of \$8,000 or less will be insured for \$10,000. For those whose annual wages are greater than \$8,000, the employee will be insured for an amount equal to the sum of his annual compensation rounded to the next higher thousand, plus \$2,000 up to a maximum of \$32,000.

The new additional regular insurance is automatic for employees who are insured. However, employees do not have to elect it, and no employee can waive the additional regular insurance without waiving all of his insurance.

The new regular insurance schedule also affects a change in the withholding rate from the insured employee's salary and similarly raises the agency's contribution which is 50 per cent of the amount withheld from the employee's salary. The new biweekly withholding rate is 27.5c for each \$1,000 of regular insurance.

The increased coverage and the higher withholding and contribution rates are effective on the first day of the first pay period starting on or after February 14, 1968.

Title IV of the Act provides for optional life and accidental death and dismemberment insurance over and above the regular coverage which employees may voluntarily elect.

Full premium for the \$10,000 optional insurance will be with-

held from the salary of those employees who elect to participate. The amount of withholding will depend on the employee's age and will increase as he moves into a higher age bracket.

On the bi-weekly basis, the withholding will be: \$3 for those under age 35; those persons between the age of 35 and 54 will pay \$6 per pay period for the insurance; and those 55 and over will have \$20 deducted from their salary each bi-weekly pay period.

The optional insurance began with enactment of the bill and all personnel now covered by the regular insurance are automatically covered by the additional coverage free.

All personnel will be provided with Standard form 176-T on which they will make their decision to elect or decline the optional insurance. They have until April 14, 1968, to make their decision. If elected, the insurance is effective upon receipt of the completed form in the civilian personnel, or on Feb. 14, whichever is later.

The Civilian Service Commis-

Lt. Col. Van Auken Goes To Ft. Lee To Speak At Graduation

One of the top missile managers at the U. S. Army Missile Command was guest speaker Tuesday at the Army Logistics Management Center in Fort Lee, Va.

Lt. Col. Kenneth C. Van Auken, Dragon Project Manager, discussed "Budgeting and Programming in the Project Manager's Office."

His remarks were made to a joint session of Army Project

sion emphasized that only those employees who are covered by the regular insurance will be eligible for the optional insurance.

Personnel who have waived the regular insurance will have an opportunity to cancel their waiver. Should an employee do this, he will acquire the regular insurance and may elect the optional insurance, both without regard to his age or health.

The Commission also indicated that an insured employee who retired after the date of enactment, or is planning to retire, need not defer his retirement to get the new insurance benefits.

Any insured employee, as of Dec. 16, 1967, has all the new benefits, including the increased regular insurance coverage and the right to elect the new optional insurance.

Manager and Army Commodity Manager students. Both military and civilian students were enrolled in the management training course.

As Dragon Project Manager, Col. Van Auken is responsible for directing the development of one of the Army's newest anti-tank weapon systems. Dragon is a shoulder-fired weapon but is powerful enough to kill tanks or other field fortifications.

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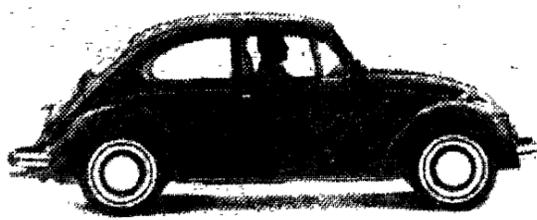
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Technology Creates Need Of Knowledgeable Officer, General Tells Graduates

Speaking at a recent commissioning exercise at the University of Alabama in Tuscaloosa, Brig. Gen. Clarence C. Harvey Jr. told Army and Air Force cadets that the expansion of scientific knowledge and new technology has brought increased demands on officers and servicemen.

"Advancing technology, sophisti-

ated weapons and the international implications of many of their decisions require a higher intellectual and educational level than ever before," Gen. Harvey told his audience.

Today, he said, officers are working with military tools that didn't exist even two years ago.

"These men," said the General,

"are helping to harness the expanding technologies of electronics, nuclear energy, advanced air and ground vehicles, guided missiles, data processing, and other advanced concepts that comprise our complex system."

Emphasizing the continuing importance of leadership, he said that "Leaders are needed who possess not only the educational background, but the integrity and professional skills to merge our most important asset—the human being—with the sophisticated machinery of this nuclear age in order to produce the most effective results."

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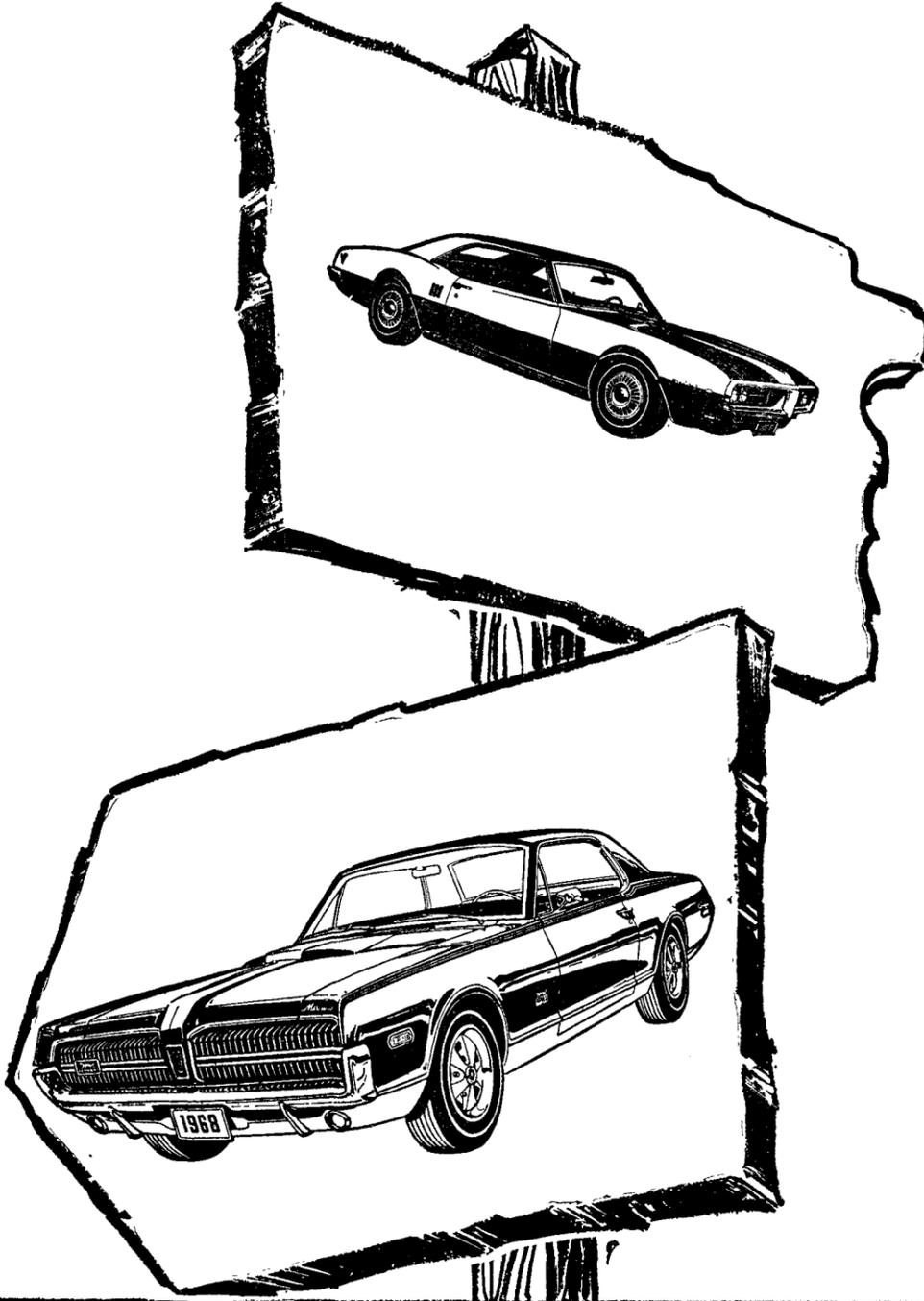
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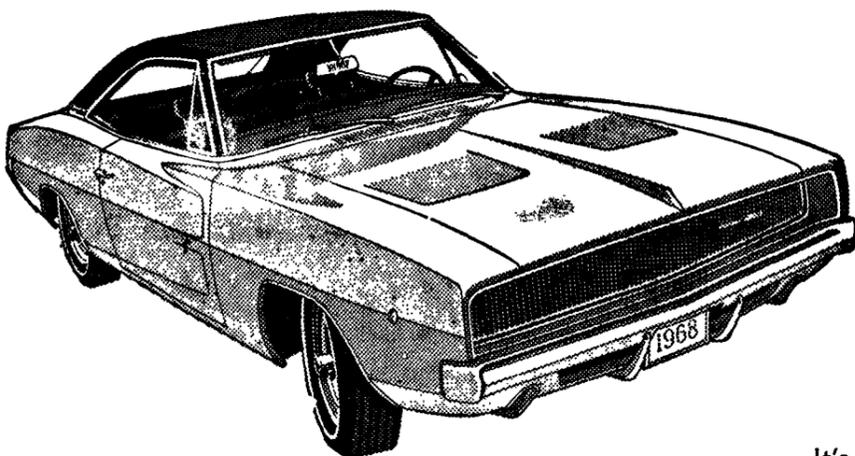
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CUB PACK COLLECTION—CWO Billy Bourne (right) points to a jar of "goodies" among the 1,000-plus food items collected by Cub Scouts in Pack 234 of Redstone Arsenal. The canned fruits and vegetables were contributed by residents of the Arsenal to Pack 234's Cub Scout Service Program, which donated the food to Harris Home for Children in Huntsville. The scouts on hand to admire their day's work are: (left to right) Victor Napier, Michael Messervy, Michael Novotny, Bill Willis, Barry Bourne, Mickey Willis and Michael Todd. Adult supervisors of the Pack, all from the Army Missile and Munitions Center and School, are (from left) CWO Lavon Messervy; Lt. Col. Mathew R. Thome, Army scout liaison officer; CWO Victor Napier; Staff Sgt. Ralph Novotny; and Mr. Bourne.

Max D. West Buried At Section, Ala.

Funeral services for Max D. West, who was employed by the U. S. Army at Redstone Arsenal since 1950, were held Monday morning in the First Baptist Church, Huntsville. Burial was at Section, Ala.

He was Chief, Research Exploratory Development Branch, Future Missile Systems Division, of the Army Missile Command's Research and Development Directorate.

The 43-year-old aeronautical engineering graduate of Auburn University, died Saturday morning following a heart attack while on a Boy Scout maneuver near Winchester, Tennessee.

Survivors include his wife, one daughter and three sons, who reside at 401 Flemington Rd., S. E., Huntsville.

During World War II, Mr. West was a First Lieutenant in the U.S. Army Infantry.

A native of DeSoto, Georgia, he was a leader in activities of the First Baptist Church, Y.M.C.A. and Boy Scouts during the 18 years he lived in Huntsville.

Sergeant's Suggestion Brings \$525 Cash Prize

Staff Sergeant Walter M. Macielag has been named to the "Army Roll of Economy Champions" for a cost reduction suggestion which is estimated to save the Army about \$11,215 in the cost of training.

Macielag suggested that the Hawk Missile repair course be shortened by eliminating material which was not needed by the students since they would be assigned to field units. He received a cash award of \$525.00.

Sgt. Macielag, an instructor with the Hawk Division of the Directorate of Individual Training, came to Redstone Arsenal from the 51st Ordnance Company, Thule, Greenland. He is a native of Chester, Pennsylvania, and a 1961 graduate of St. James High School.

The Sergeant is the son of Mrs. Helen B. Macielag, 123 W. 21st Street, Chester, Pennsylvania. He is married to the former Brenda G. Samples of Huntsville, Alabama.



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| UNDERWOOD ELECTRIC | Bal. \$109 or | \$5.69 Mo. |
| REMINGTON ELECTRIC | Bal. \$98.94 or | \$5.17 Mo. |
| ROYAL ELECTRIC | Bal. \$135.19 or | \$6.98 Mo. |
| SMITH-CORONA STANDARD | Bal. \$58.94 or | \$5.60 Mo. |
| UNDERWOOD STANDARD | Bal. \$47.00 or | \$6.12 Mo. |
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- PHONE 881-5510
9 A.M. to 5:30 P.M.**

VW Trade-ins TODAY'S BEST BUY

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Air condition, power steering & brakes, 22,000 miles. Nice.
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119 ACRE FARM

AUCTION

SATURDAY, FEB. 3 AT 10:06½ A.M.

119 Acre Farm, Polled Hereford Cattle, Farm Equipment, Household Furniture and Antiques Belonging to Mr. N. R. Brown. Located In The Buchanan Creek Community, Go Highway 64 East From Pulaski, Turn Right On Buchanan Creek Road, Go One Mile To Farm. Follow Arrows. About 40 Miles North of Huntsville.

This 119 acre farm lying in the rich valley of the Buchanan Creek community, only one mile from Highway 64, has a lovely 7 room colonial home, large excellent barn, a tool shed and shop building, has a hay shed. The farm has 60 acres in excellent bottom land and the rest in permanent pasture. There is some timber. The farm is well balanced having enough bottom land to raise your row crops, grain or hay. It will grow any kind of hay or grain. This is an excellent location, on school bus, mail or milk routes. It has plenty of everlasting water from Buchanan Creek, springs, pond and well for everlasting water. The farm is well fenced and has excellent outbuildings of all kinds. It is one of the finest livestock or dairy farms we will sell in 1968.

The lovely colonial home is nestled in a beautiful grove of shade trees on a hill overlooking the 60 acres of bottom land. The home is of frame construction with a metal roof, having a front porch across the entire front. Has plenty of shade and shrubbery and a well sodded front yard.

**THIS FARM WILL SELL IN 2 TRACTS
And Then As A Whole. The Highest Price Determines The Sale.**

TRACT NO. 1

TRACT NO. 1 consists of 60 acres of good fertile bottom land fronting Buchanan Creek Road, with nice home sites. Men who get ahead not only save, but invest in land of this type. A basic source of the world's wealth is part of the shrewd investor's asset. Land stays with a man longer than cash. Here is land easy to cultivate and that will grow any kind of row crop, hay or grain. These unique factors—location, rich soil, beautiful water supply and improvements—make this tract one of the most highly desirable tracts located in Middle Tennessee.

TRACT NO. 2

TRACT NO. 2 consists of 59 acres, a nice 77 room colonial home, and outbuildings. It is all in permanent pasture, has large pond. This is an excellent location not far from Pulaski and only four miles from I-65. You will set the price; your bid will be our price. If you are looking for a nice farm with plenty of permanent pasture, plenty of water from pond and springs; be sure and look this tract over and be prepared to buy it on sale day.

GOOD FENCES • PLENTY WATER • SOLID IMPROVEMENTS

FARM EQUIPMENT ALL LIKE NEW

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| 1—1963 Tractor, No. 50, Good As New, Only 740 Hrs. | 1—1963 Plow 2 16", Only Turned 30 Acres | 1—Garden Tiller, Mac 210, McCulloch Chain Saw, Good Shape, All Kinds of Small Tools. 1,500 to 2,000 Bales of Good Hay |
| 1—1963 Ferguson Hay Baler, In Excellent Condition | 1—Four Wheel Trailer Wagon, New Frame, 7 Ft. John Deere Disc, Good Shape | |

21 HEAD OF POLLED HEREFORD CATTLE AND BULL Furniture Belonging to Mrs. N. R. Brown

Coffee Table, Wrought Iron Legs
Child's Chest of Drawers, 3 Drawers
Like New Baby Bed
Baby Rocker
Baby Stroller

Potty Chair
Good Bassinet
Iron Bed Stead, Spring & Mattress
Outdoor Grill
Floor Lamp

Household Furniture & Antiques Belonging to Mrs. W. H. Brown

1 Roll Top Desk, Excellent Condition
Antique Bedroom Suite, 3 Piece
Round Dining Table, 6 Chairs, Hard Oak
Wringer Type Washing Machine
Living Room Suite, Like New
1 Antique Spool Bed
Rocking Chairs, Antique
1 Living Room Lounge

Drop Leaf Table, Chairs, Maple Rugs
Antique Chairs
Outdoor Furniture
Gold Leaf Antique Pictures
Pots, Pans, Dishes, Silverware
1 Modern 3 Piece Bedroom Suite
Other Articles Too Numerous to Mention

Reason for selling: Mr. N. R. Brown is now working at public works and is unable to look after the farm properly. He has purchased a home in Pulaski so the farm must sell for the high, high dollar **TERMS: Real Estate—¼ down sale day, balance on or before 30 days. All personal property, cattle and equipment—CASH.**

POSSESSION: WITH DELIVERY OF DEED.

SALE SCHEDULE: Household furniture will sell beginning at 10:06; then the farm equipment. Real estate will sell promptly at 1:00 and the cattle will sell following the real estate sale. LUNCH WILL BE SERVED.

FREE—FREE—Transistor Radio To Some Lucky Person—FREE—FREE
For Further Information, Contact Mr. N. R. Brown On The Farm Or

BOB KELLER REALTY & AUCTION CO.

110 South First Street Office Phone 363-2527 Pulaski, Tennessee
Col. R. P. (Bob) Keller, Auctioneer Phone Res. 363-4609

Tommy Harrison, Sales Manager — Phone Res. 363-5159
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The information contained in this advertisement is derived from sources believed to be correct, but is not guaranteed.

Foreign Students Visit R. L. Stone Junior High

Foreign students from the Army Missile and Munitions Center and School here were guests of Huntsville's R. L. Stone Junior High School, Friday.

The all day confrontation between the eight Danish, German and Japanese visitors and the American teenagers involved visits to several classes, lunch, a trip to the gymnasium, and a final conference where the guests had a chance to express their impressions of American education.

The American students had

Lawyers 'Active Participants' On Team, Says Eifler

Three major areas involving legal requirements were the basis for a talk the past week by Maj. Gen. Charles W. Eifler before the Federal Bar Association.

The Commanding General of the Army Missile Command pointed out that he is "... a strong believer in the concept that lawyers must be active participants on the government team where contracting is concerned." Within this concept he discussed Public Law 87-653, known as "Truth in Negotiations Act"; Public Law 89-487, the "Freedom of Information Act"; and management-employee relationships in government.

The first two, he said, require a great amount of legal interpretation in order to make laws effective and beneficial to the government and the people. Active participation by government lawyers is necessary whenever these matters are involved.

In discussing management-employee relationships, Gen. Eifler pointed to the growing need for legal assistance in this area in the Federal government. He reminded the lawyers of the recently negotiated and signed agreement between the Army Missile Command and the local lodge of the American Federation of Government Employees which is exclusive bargaining agent for many employees.

"I have every hope and expectation that this will develop into a fine relationship between the AFGE and MICOM management for increased productivity, morale and esprit of our employee personnel..." the General said.

He closed with a final word of praise, saying "I am proud of the MICOM legal staff and I am confident that we shall continue to meet the challenges of the times."

questions ranging from mini-skirts to systems of government. The girls were very interested in matters of dress, and were fascinated to discover that their Japanese counterparts also were succumbing to the mini-skirt rage. But the junior high students also expressed their curiosity about the deeper matters, and wanted to know about the educational systems and government of the countries of their visitors.

The MMCS visitors also had pointed questions at the end of their day in the classrooms. They asked Barnett Gamble, principal, and Mrs. Mildred Bushey, a teacher, questions on race relations and discipline in the school.

The foreign soldiers were popular guests, and were kept overtime as they signed autographs for their new American friends.



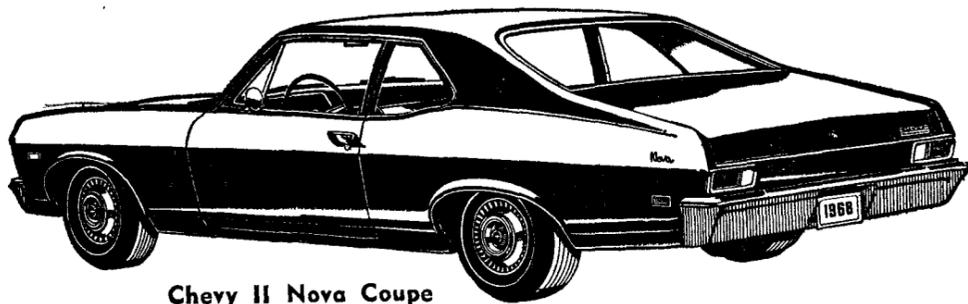
VISIT SCHOOL—Talking things over after a hard school day are foreign students from the Army Missile and Munitions Center and School with Barnett Gamble (center), principal of R. L. Stone Junior High School, Mrs. Mildred Bushey, a teacher, and Waldon Tarpley, an education specialist with the Foreign Liaison Division of MMCS. Students are (back row, left to right), SFC Fukai Morio, Cpl. Hans Christian Steen, Cpt. Thykjaer Rene, Cpl. Claus Epe; (front row, left to right), SFC Hatano Fumimaro, 1Lt. Inagaki Tervaki, Sgt. Egon Kuester and MSgt. Kittaka Yoshiku.

UP

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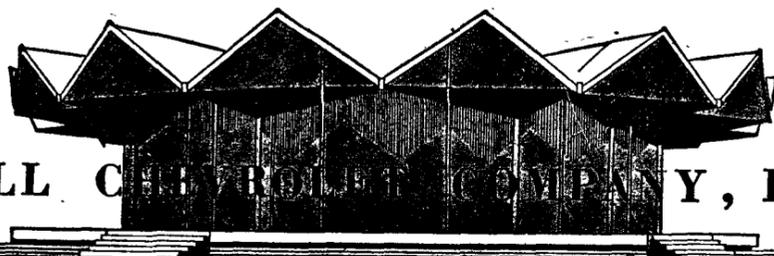
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- White Side Wall Tires

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