

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

DECEMBER 4, 1968

Arsenal-Wide

Spot News

Dial 112

Army To Spend \$140 Million On TOW Missiles



SENATOR-ELECT JAMES B. ALLEN

Senator-Elect Allen Due To Visit Redstone Today

Alabama U. S. Senator-Elect James B. Allen will visit Redstone Arsenal and the Marshall Space Flight Center today and tomorrow for briefings on Army rocket and missile programs and space programs of the National Aeronautics and Space Administration.

The Senator-elect, who requested the orientation prior to his taking office in January, will be accompanied by Thomas Coker, an aide, and Jack L. Ray, President of the First State Bank of Altoona, Ala.

Wednesday morning he will meet with Maj. Gen. Charles W.

Eifler, Commanding General of the U. S. Army Missile Command, and key personnel of his command.

In addition to status briefings he will view Army weapons hardware managed from Redstone and see a firing of the Shillelagh missile on a Redstone range.

Senator-elect Allen will be hosted at lunch by the Huntsville Press Club. In the afternoon he will tour the U. S. Army Missile and Munitions Center and School and will be briefed on activities here by Col. Paul B. Schuppener, the Commandant, and other top (See SEN. ALLEN on Page 3)

AOA Schedules Former Commerce Secretary At Annual Election Meeting



MAJ. GEN. JOHN R. ALISON

Election of new officers and an address by retired Air Force Maj. Gen. John R. Alison will highlight a dinner meeting of the Tennessee Valley Chapter, American Ordnance Association, Tuesday evening Dec. 10.

The meeting will be held at the Redstone Arsenal Officers Open Mess beginning at 6:30 p.m.

Gen. Alison, National Vice President of AOA, will discuss "Industry-Defense Partnership—AOA—National Interest." He is currently vice president, Northrop Corp. Beverly Hills, Calif.

He is currently president of the Transit Van Corporation, Redwood City, Calif. Resigning from active military duty at the conclusion of World War II, he served as Assistant Secretary of Commerce in 1947-49.

(See AOA on Page 3)

Army Awards \$14.3 Million For Missiles

Four contracts totaling \$14,323,287 were awarded by the Army Missile Command last week to cover production of the Forward Area Alerting Radar (FAAR), engineering services and a value engineering program for the Chaparral weapon system, research on solid propellants and loading Redeye rocket motors.

The Army ordered initial production of the FAAR through award of a \$7.2 million letter contract to Sanders Associates, the work to be done at the company's Bedford, Mass. plant.

The FAAR is designed to detect high-speed aircraft at tree top levels and relay target information to nearby anti-aircraft sites. It serves as the early warning "eyes" for the Army's Chaparral and Redeye air defense weapon systems in forward battle areas.

A \$3,867,453 contract went to the Aeronutronic Division of Philco-Ford Corporation for work related to the Chaparral. The services required by the contract will be performed at the company's Newport Beach, Calif. plant.

Chaparral is a guided missile system designed for protection in forward battle areas against low flying aircraft.

Both the Chaparral and FAAR programs are under the technical supervision of the Missile Command Chaparral Management Office. LTC Donald H. Steenburn is chief of the Office.

The Rohm and Haas Co. received \$1.6 million for solid propellant technology research over a 12- (See ARMY on Page 3)

Production Contract Has Increment Of \$55 Million On Multi-Year Program

The Army today awarded a \$55,371,527 contract to Hughes Aircraft Co. for production of the TOW anti-tank assault weapon system. This is an increment of a multi-year buy valued at more than \$140 million.

Terms of the multi-year contract call for production of a substantial number of TOW missiles as well as launch and ancillary equipment.

TOW will defeat any known enemy armor, the Army stated, in announcing production go-ahead with the wire guided missile system.

Under the contract, missiles will

be manufactured by the Hughes facility at Tucson, Arizona. Launchers and ancillary equipment will be produced at sites in the Los Angeles area, including Culver City, El Segundo, and Canoga Park.

Announcement of the production decision was made by the U.S. Army Missile Command. The Missile Command manages the TOW program under LTC Robert W. Huntzinger, Project Manager. Hughes Aircraft is prime contractor.

TOW gets its name from the description: Tube-launched, Optical-tracked, Wire-guided. After (See TOW on Page 3)

Huntsville Firm Receives Chaparral Container Award

A small business concern in Huntsville, Spaco, Inc., has received two contracts from the Army Missile Command for production of shipping and storage containers for the Chaparral missile. The awards totaled \$492,868. The first contract is for \$185,988, and the second is for \$306,880.

The containers represent a new approach in design which was originated by the Container and Auxiliary Equipment Design Branch of the Ground Support Equipment laboratory in the Missile Command Research and Development Directorate.

Containers conventionally have rigid outer surfaces with materials inside to protect the missile

from shock. The Chaparral containers have a "soft" poly-urethane exterior with an aluminum skeleton and rubber shock mounts inside to protect the missiles. This has resulted in a cheaper, lighter weight container.

The Missile Command Chaparral Management Office directs the program at Redstone. Lt. Col. Donald H. Steenburn is the Office chief. The Chaparral/Vulcan Project Manager is Col. R. C. Daly at the Army Materiel Command.

The contracts were negotiated and executed by the Missile Command Procurement and Production Directorate headed by Col. S. C. Holmes.

Lt. Col. Ridlehoover Named Chief Of Future Missile Systems Division

A recent veteran of Vietnam, Lt. Col. Edward Melvin Ridlehoover, has been named Chief of the U.S. Army Missile Command's Future Missile Systems Division.

Col. Ridlehoover, who previously served in the Command's Research and Development Directorate from June, 1960, to January, 1963, returns to Redstone Arsenal from the 29th GS Group, Vietnam, where he served from October 1967 to the past October.

A 1967 graduate of the Armed Forces Staff College, Col. Ridlehoover holds a Master of Science in engineering science from Purdue University and a Bachelor of Science in mechanical engineering from the University of South Carolina.

Among his awards and decorations are the Legion of Merit, Bronze Star, Army Commendation Medal and Belgium Fourraguerre; campaign ribbons include American Defense, American Theater, European Theater with five battle stars, Army of Occupation, Korean Service, Vietnam Service with three battle stars and the United Nations Medal.

Col. Ridlehoover is married to the former Virginia Sue Everitt of Memphis, Tenn. The couple have four children: Robert Allen, 24, a student at Memphis State (See COL. RIDLEHOOVER, Page 3)



LT. COL. EDWARD M. RIDLEHOOVER

ZERO DEFECTS CORNER



it's up to you!



SENSCOM'S FIRST—Miss Norma Surles (r), a clerk-stenographer in the Management Data Systems Office, receives the Sentinel System Command's first Zero Defects Achievement Award from W. C. Wall, Jr., Chief of the Management Data Systems Office.

The U.S. Army Sentinel System Command has presented its first Zero Defects Achievement Award to Miss Norma Surles, a clerk-stenographer in the Management Data Systems Office.

The Award was presented by W. C. Wall, Jr., Chief of the Management Data Systems Office, in recognition of Miss Surles' efficiency and accuracy during the period from September 1967 to September 1968.

In the words of the citation accompanying the Award certificate, "She provided valuable assistance and accomplished practically error free work . . . in the typing and editing of three editions of the Command Organization and Management Manual which consisted of approximately 1500 pages of written matter and charts. In addition, she maintained a high degree of accuracy in the typing and editing of a tremendous and complex workload associated with Command regulations."

Miss Surles has been an Army employee since 1962 when she joined the Nike Zeus Project, the grandparent organization of the Sentinel System Command.

A native of Pulaski, Tenn., she is the daughter of Mr. and Mrs. L. R. Surles. She graduated from Giles County High School there and attended Martin College.

An interesting sidelight concerns the recommendation that brought Miss Surles the Sentinel System Command's premiere ZD Achievement Award.

It contains an error—a misspelled word—because, in order for the award to be a surprise to her, Miss Surles was not permitted to type her own recommendation.

TOW

(Continued From Page 1)

launch, the missile unreels in flight two hair-thin wires through which it receives steering signals.

All a gunner has to do is keep the sight on target and the missile is automatically guided to impact at that point.

With TOW, no leading the target or ranging is required.

Prior to production, TOW underwent intensive development testing, the Army said. Missiles were handled by soldiers under a variety of simulated battlefield conditions, including air drops, and fired successfully.

Demonstrating TOW's long-range firepower and accuracy, gunners at Redstone Arsenal throughout the development program scored direct hits on moving targets—at ranges of more than a mile—while shooting from both ground emplacements and from helicopters.

And in a series of highly successful tests, U.S. Marines found recently that TOW could knock out bunkers and concrete fortifications as well.

In the Army's arsenal, TOW is expected to replace the 106mm recoilless rifle as well as Entac and SS-11 missiles. It will also be employed from the new armed helicopter; the AH-56A Cheyenne.

Negotiating the contract for the Army was the Missile Command's Procurement and Production Directorate, headed by Col. Sterling C. Holmes.



SEN. ALLEN

(Continued From Page 1)

school officials. He is scheduled to wind up the day with a visit to the University of Alabama in Huntsville where he will be conducted over the campus and briefed on University activities by Phillip H. Mason, Director, Office of Public Relations and Development.

Wednesday evening the Huntsville Industrial Expansion Committee will entertain Senator-elect Allen with a dinner at the Carriage Inn and discuss with him Huntsville Community affairs.

Thursday morning he will visit the construction site of the Alabama Space Science Exhibit Center. He is chairman of the state commission building the center which will house Army weapons and NASA space displays. It is expected to become a major tourist attraction in the area.

Later he will go to the Marshall Space Flight Center where he will meet with Doctor Wernher von Braun and other key Center personnel for briefings on the nation's space program. The Center and its Huntsville Advisory Committee will host a luncheon for the Senator-elect following a tour of the Center and a brief address to key Center personnel.

Thursday afternoon he will conclude his Redstone visit by meeting with Brig. Gen. I. O. Drewry, Commanding General of the U. S. Army Sentinel System Command, who along with Brig. Gen. Robert P. Young and Brig. Gen. Mahlon E. Gates, will discuss activities of the Sentinel anti-ballistic missile system being conducted at Huntsville.

COL. RIDLEHOVER

(Continued From Page 1)

University; Virginia Faye, 18, a student at the University of North Carolina; Barbara Jean, 16, now attending Butler High School; and Anita Anne, 12, attending Westlawn Junior High School.

TO PRESENT PAGEANT

The Protestant Sunday School classes are preparing a Christmas pageant to be presented in the Post Chapel Dec. 15 at 7 p.m. Rehearsals are underway.

AOA

(Continued From Page 1)

During a business session the chapter will vote on the following officer recommendations of the nominating committee:

President, W. A. Giardini, Brown Engineering Co.;

Vice Presidents W. H. Northington, Brown Engineering Co., E. R. Billings, Association of Huntsville Area Companies, and Maj. Gen. John A. Barclay (USA Ret.), Northrop Space Laboratories;

Secretary-Treasurer, Fred Glickman, General Electric;

National Council Member, O. M. Hirsch, Marshall Space Flight Center;

Directors for three year terms, Col. Paul B. Schuppener, Army Missile and Munitions Center and School; David Walters, Hayes International Corp.; Lionel Alford, Boeing Company; and Dr. Oswald H. Lange, Army Sentinel System Command.

Tickets for the meeting may be obtained from O. M. Hirsch, J. P. Smith, Fred Glickman, H. R. Lowers, P. K. Schaeppi, William Watson and E. R. Billings.

ARMY

(Continued From Page 1)

month period at the company's Redstone Arsenal Division.

Technical supervision of the contract will be under the direction of the Missile Command Research and Development Directorate.

A \$1,655,834 contract which supports work on the Redeye air defense guided missile system has been awarded to Atlantic Research Corp.

Work under the contract, which calls for loading of Redeye rocket motors, will be performed at the company's Pine Ridge Plant in Gainesville, Va.

Col. J. R. M. Covert is Redeye Project Manager at the Missile Command which manages the program for both the Army and Marine Corps who jointly funded weapon system development. Atlantic Research Corporation is a principal subcontractor for rocket motors.

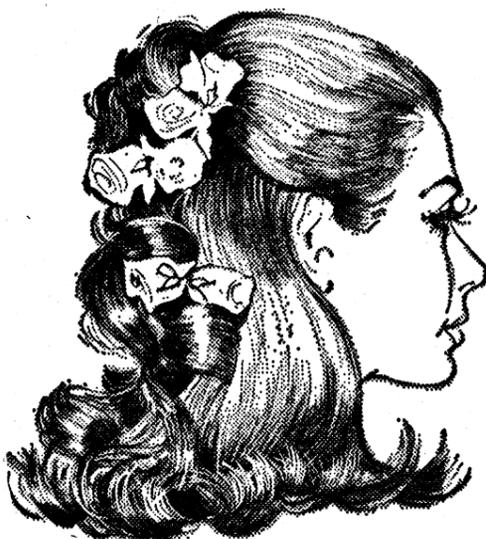
Negotiating the contracts for the Army was the Missile Command's Procurement and Production Directorate, headed by Col. Sterling C. Holmes.

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DECORATING CHAMPIONS—Winners of the Army Missile and Munitions Center and School Officers Wives Club Christmas decorating contest are, standing from left, Mrs. John B. Levaas, Mrs. James L. Keown, Mrs. Paul B. Schuppener, and Mrs. Robert B. Funke. Seated are Mrs. Vaughn E. Davison, left, and Mrs. Eugene Pérrault.

Officers Wives Schedule Christmas Party Tuesday

A Christmas program for the Redstone Officers Wives Club will be presented Tuesday following lunch at the Redstone Officers Open Mess.

The event is scheduled at noon with Mrs. Nils M. Bengtson serving as chairman and wives of officers in the Research and Development Directorate assisting. Mrs. Richard F. Cox is in charge of the menu and Mrs. Ernest A. Bruorfon is handling decorations.

"A Child's Dream of Christmas" will be presented by pupils of Eleka's School of Ballet.

Reservations may be made with Mrs. S. R. Silnes, 837-6596; Mrs. J. R. Daily, 837-3717; Mrs. E. J.

Hill, 837-0405 and Mrs. Fred Sunderman, 837-5095 by noon Friday. Cancellations will be accepted by Mrs. C. J. Tuel, 837-5114 until noon Monday.

HOLIDAY NURSERY HOURS

The Rocket Nursery staff has established the hours for Christmas and New Year.

On Dec. 24, the Nursery will be open from 7:30 a.m. until 6 p.m. Christmas Day it will be closed.

On Dec. 31, the Nursery will open at 6 p.m. and close at 3:30 a.m. Jan. 1, the Nursery will be open from 9:30 a.m. until 4 p.m.



HOME OFFICE BRIEFING—LTC Harry Clark (left), a Missile Command officer whose duty station is at Heidelberg, Germany, made a recent return trip to Redstone for a series of discussions with Supply and Maintenance Directorate personnel. Here he talks over Shillelagh system support to USA-REUR, with Carl Siebert, chief of the Combat Branch.

Choral Group Will Sing Christmas Songs Sunday

Sunday the Choral Group sponsored by the Redstone Officers Wives Club will present a program

Walker To Appear At NCO Open Mess

Billy Walker, Grand Ole Opry and recording star will be the headliner at the Redstone NCO Open Mess Friday night from 8:30 p.m. until 12:30 a.m.

Among his recording hits are "How Time Slips Away" and "Forever." Walker has been a guest on the Jimmy Dean and the Tonight TV shows.

Reservations for members and guests can be obtained at the NCO Open Mess.

Archaeological Society Sets Huntsville Meet

Some 300 people representing all sections of the state are expected to attend the 14th annual meeting of the Alabama Archaeological Society in Huntsville this Saturday.

The meeting will be held in the auditorium of the Huntsville Utilities Building starting at 9:30 a.m. The business session will be held following registration.

Five talks are scheduled for the afternoon leading up to the principal address to be delivered by John Griffin who will speak on the subject, "The Archaic Life-way."

Griffin is Director of the Southeastern Archaeological Depository of the National Park Service, located in Macon, Ga.

of Christmas music at the Officers Mess at 4 p.m.

Directors for this year's program are Virginia Pettit and Susan Little. Musicians include Mrs. Pettit and Nina Lee Rodman, pianists; Caroline Ellis will play both the flate and the autoharp; Kim Niedermeyer, flute and Marge Feist, percussion.

The program will include old favorites, Mexican, Italian, French and Huron Indian songs as well

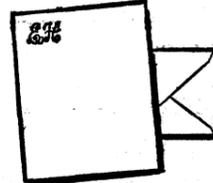
as contemporary numbers. Sally Jones, Alice Naugle and Jean Hattle will sing solo parts.

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Soldiers Help Girl Battle for Her Life

STUTTGART, Germany (ANF)—A group of U.S. Army Signal Corpsmen here has started a world-wide letter-writing campaign to help an American teenaged girl who is recovering from critical burns.

The soldiers, members of Signal Support Group 106 of the U.S. Army Strategic Communications Command, Europe, are proud of the results of their campaign and are urging servicemen everywhere to join them.

The men have been writing to Lani Stutsman, 18, of Rochester, N.Y., who was burned in a chemical explosion last July while working as a trainee in a laboratory at Rochester General Hospital. Since then she has been a patient at the hospital, undergoing treatment for third degree burns over 65 per cent of her body.

When the soldiers read about the girl, they decided to lend a hand. They sent a huge "get-well" card with 250 signatures and a picture of members of the group.

The men then began writing encouraging letters and cards and, through Army newspapers and Armed Forces radio stations, encouraged other soldiers to write.

They even contacted military personnel in Vietnam for additional support.

Soon Lani began receiving mail from Germany, Turkey, Belgium, England, Italy, Africa, Alaska, and Asia. Lani's mother, Mrs. Irvin Stutsman, wrote to the men of Signal Support Group 106 that the

letters gave Lani "much hope to go on fighting for her life."

The girl's condition has improved from "critical" to "fair" since the letter writing project began, but she will have to endure skin grafting and corrective surgery over a two-year period. Her doctors say the encouraging mail she has received has aided her improvement.

The Signal Corpsmen are asking people to write to Lani. The address: Miss Lani Stutsman, c/o Rochester General Hospital, Rochester, N.Y. 14603.

Army Presents Award To Bell Helicopter Co.

FORT WORTH, Tex. (ANF) — The U.S. Army has presented a special citation to the Bell Helicopter Co. of Fort Worth for its outstanding program of cost reduction while working on defense contracts.

The firm received the first Annual U.S. Army Aviation Materiel Command contractor cost reduction award, which recognizes the company that best meets Defense Department standards for reducing costs while maintaining schedules, quality, reliability, maintainability and logistic features.

The Army said Bell's "outstanding cost awareness program" produced very substantial savings and improved overall efficiency of operations.

The United States took formal possession of Alaska Oct. 18, 1867.



Army Investigators Will Compete For Army-Wide Carl C. Turner Award

Ft. Monroe, Va.—Military criminal investigators within the U.S. Continental Army Command can now compete for an Army-wide award recently established by Headquarters, Department of the Army. Named for the former Provost Marshal General, the Carl C. Turner Award for Professionalism in Criminal Investigation will be presented to the criminal investigator who has shown outstanding professional ability in his field.

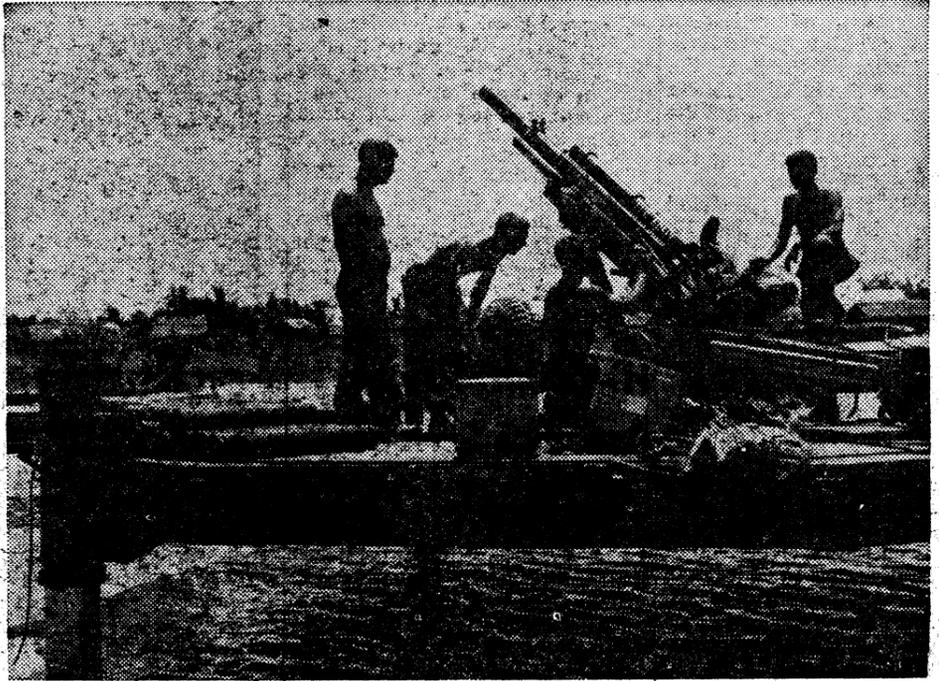
The first annual award is slated for early 1969 and will be based on recommendations from each major command or agency having CID personnel assigned or attached.

Both warrant officer and enlisted personnel, if accredited, are eligible.

Investigators nominated for the award must have demonstrated outstanding knowledge of criminal

investigation techniques, laws, orders, and regulations of the Army and command to which assigned. They must also have shown ability to apply knowledge, as well as professional judgment, skill, tact, perseverance, loyalty, dedication, integrity and trust. According to Military Police officials, a recommendation may not be made on the basis of a single achievement but, rather, on sustained superior performance in all phases of criminal investigation.

In the past, criminal investigators have been among the unsung heroes of the MP Corps, quietly and skillfully pursuing their duties of crime prevention and detection—both on and off duty—but receiving little formal praise or recognition. The new award was established to provide this recognition.



MOBILE FIRE POWER—A 105mm howitzer crew from the 9th Infantry Division's Battery A, 3d Battalion, 34th Artillery, prepares to fire from a mobile artillery platform during a support mission in the Mekong Delta. Transported by helicopter, guns and platforms provide versatile long-range support for mobile riverine operations.

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Marauder Express Rolls Over First Battalion

Ray Smith Scores Six Touchdowns In 62-18 Win

The Missile Command Marauders after sputtering to a loss and a tie in their last two games, got their attack rolling again last week and unleashed a devastating nine-touchdown assault that buried the First Battalion Grizzlies, 62-18, to regain the lead in the Redstone Arsenal football league.

The Saturday afternoon scoring bee followed a defensive struggle on Friday evening that saw the Second Battalion edge the Unit Training Command, 11-8.

With only three games left on the league schedule, a deadlock appears imminent between the Marauders and the Third Battalion Buccaneers. MICOM takes on the UTC Bulldogs this Saturday after a Friday encounter matching the Third with the Second Battalion.

The final regularly scheduled game is set for Friday, Dec. 13, when the Bucs battle the Bulldogs. A pair of wins for the Third along with a Marauder victory on Saturday will force a playoff for the league crown.

Bill Madeya and Ray Smith provided most of the offensive fireworks for the Marauders in their point a minute assault on the Grizzlies.

Madeya engineered the attack and connected on 16 of 22 passes for 276 yards and five touchdowns. Smith was on the receiving end of three scoring aeriels in addition to running for another trio of six-pointers.

The speedy MICOM scoring machine counted on runs of 6, 35 and 50 yards.

Tom Reeves scored on an eighty-yard slant over tackle, Tom Kaminski took a 20-yard pass from Madeya and Joe Peterson completed the scoring with another 20-yard forward from his quarterback. Reeves bolted through the line for a trio of two-point conversions and Peterson got another two-pointer on a pass from Medeya.

Eddie Carswell accounted for the first Grizzly score with a 95-yard return of the kickoff following the second MICOM score.

Just before the half the First got back on the scoreboard with a 20-yard pass from George Hemmelright to Bob Bellamy. The final score was carried in by George Cyman on a sneak from the one following a 47 yard march.

The Second crowded all of their scoring into the second quarter to overcome a first period score by the Bulldogs for their win.

UTC put together a 76 yard sustained march the first time they had possession and took a quick

8-0 lead. But from there on out the Bulldogs spent most of the time stopping the Volunteers in the shadows of the goal line.

Danny Lundhagen and Jim Bailey did most of the running for the Vols and each picked up over 100 yards during the day as the Second fumbled away two scoring chances inside the five and the Bulldog line stopped three other opportunities.

Chuck Watts got the Vols on the scoreboard midway in the second period with a 25-yard field goal. Within minutes the Second was back in business with the only sustained drive of the day that ended in a score.

Tom Reavis completed the 64-yard march by sneaking into the end zone from one yard out. The quarterback tossed to Lundhagen for the points that were to end the scoring for the day.

Hi-Count Threat Becomes Serious

The Hi-Counts moved to within a point and a half of the league leading Bombers when they captured six out of nine points in their RSA Officers Mixed League match at the Post Lanes last week.

The Counters turned in an 884 game and a 2339 series, both seasonal highs for the league, as they handed the Bombers the setback.

Mike Shuput came within a mark of Honor Roll status as he shot a 590 in leading the Hi-Count attack. Jim Prewett hit for 552, Tom Wilkerson had a 528 and Shirley Prewett topped the distaff side of the scoring with 492.

Don Vanderhayden was high for the Bombers with 540 and his wife, Eileen accounted for 486 maples.

The Boll Weevils held onto third despite dropping 7 out of 9 to the Boosters. Frank Zebal topped the Boosters with 505 and Lillian Dewitt had a 465. Ben Long had a 511 and Ann LaPointe a 488 in the losing cause.

The Redstones swept all nine points from the Pin Droppers as Art Brochu upended 535 sticks and Betty Parmalee 475 more. Bob Mix hit for 527 for the Droppers.

The final match saw the D-Yanks win six of nine from the Spurts behind the lead of Ernie McClure and Marge Tarr who hit for 536 and 470, respectively. Nancy Hollingsworth was high for the Spurts with a 490.



SUPERIOR STUDENT—Russell Varner, Data Processing Office, Supply & Maintenance Directorate, receives congratulations from his superior, A. J. Wright, while being presented a certificate of completion of a U.S. Army Adjutant General School's Extension Course in Automatic Data Processing Systems Analysis. Varner enrolled for this course due to its comprehensive coverage of nine major aspects of Automatic Data Processing from the fundamentals of data processing, the computer and related equipment, through the principles and processes for analyzing current business type applications within the Army. He completed the 76 hours with a "Superior" rating in each subcourse.

More Students Attending Schools To Help Career

Forty-two civilian employees and three military personnel left their regular duty stations this week to embark upon advanced training courses in their individual career fields at government schools and leading universities across the country.

They will spend from a week to three weeks in the studies under the Command's career development program administered by the Training and Development Division of Civilian Personnel.

The largest single group of local personnel left for Ft. Lee, Va., for classes at the Army Logistics Management Center.

Of these, Charlie Shytie (S & M) and Martin Pearson (SENSCOM) are enrolled for ADP Systems in Logistics Management, and William Sisson (C & DP) is taking the Logistic Management course for Auditors. Both courses are two weeks in length.

Render McGuirk and Lloyd McMurtrie (P & P) will be at Ft. Lee for three weeks for Advanced Procurement Management.

Robert Wheat (S & M), Herman Martin (Land Combat) and John Ramsden, Charles Andrews and Daniel Freret (P & P) are studying Army Commodity Management while Richard Slaughter (SENSCOM), Charles Frederickson (Chapparral), Alfred Richardson (Pershing), John Burke (Shillelagh) and Edward Bradshaw (SAM-D) are attending the Army Project Manager course.

Eight others went to Rock Island, Ill., for career training at the Army Management Engineering Training Agency.

Daniel Pollard and Earl Stewart (P & P) are studying Elements of Reliability and Maintainability, Gerald Miller (Metrology) is taking Work Planning and Control, and Lt. Eric Lundquist (C & DP) is enrolled for Project

Planning and Control Techniques.

The other four are attending the Top Management Seminar. They are LTC H. W. Whipple and William Estes (SENSCOM), Thomas Stramiello (Hawk) and Arthur Harvey (P & P).

SSG Johnnie Rosiska (MMCS) is at the AMC Ammunition School, Savanna, Ill., for the Technical Transportation Course, and Delbert Loney (Metrology) is studying Occupational Radiation Protection with the Public Health Service at Rockville, Md.

At the Army Finance School, Ft. Benjamin Harrison, Ind., for Techniques of Review and Analysis is Robert Melton (SENSCOM) while LTC Fred Kellar (Ops & Scty) is at the Army Intelligence School, Ft. Holabird, Md., for Industrial Security.

Ray Smith (Reproduction), Ben Davis (VAAP) and William Livingstone (Atlas) went to Charlestown, Ind., for Applied Safety in Industrial Health and Hygiene at the AMC Field Safety Agency.

Seven others will remain on the Arsenal for study at the Army Missile and Munitions Center and School. They are, Joe Wun, Joseph Coffman, Seth McCracken and Helen Combow (S & M), James Thomas (Msl Intel) and Claire

Fransioli (P & P).

Robert Nix (SENSCOM) is at Wright-Patterson AFB, Ohio, for Contract Administration, while John Colvin (Lance) and Charles Milster (Redeye) are at the same place for the Data Manager's course.

Clarence Jackson is spending three weeks with the Civil Service Commission in Washington, D. C. for Principles and Practices of Auditing, while Dr. J. P. Hallows will be in Williamsburg, Va., this week for Executive Leadership at Brookings Institute.

The remaining three went to Norman, Okla., for classes at the University of Oklahoma.

Carl Pinyerd (Pershing) and Clifford Coulter (R & D) are enrolled for Public Opinion while John Peters (P & P) is studying Problems of Latin America.

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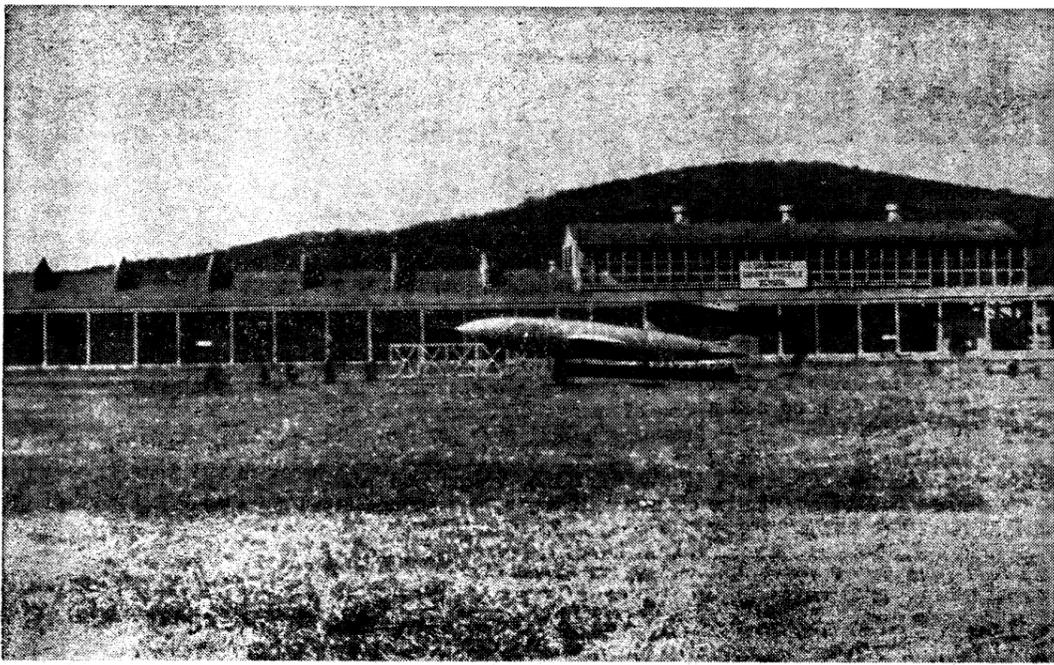
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MMCS IS 16 YEARS OLD—The Army Missile and Munitions Center and School observed its 16th anniversary over the past weekend with a ceremonial cake-cutting and a look back to 1952 when it began classes in an antiquated World War II building. Now the school occupies a \$95,000,000 campus of more than 100 buildings. To celebrate the occasion, three past and present commandants sliced a cake with a sabre. Maj. Gen. Charles W. Eifler, now commanding general of the Army Missile Command, looks on at left as Col. Paul B. Schuppener, present commandant, does the honors with Col. William J. Macpherson, now chief of Maintenance and Supply at the Missile Command, has his plate ready. Statistics made public during the observance show that USAMMCS has put \$340,000,000 into the local community during its brief history.

Renegades Extend S&M Lead To Six

The Renegades proved to be a little bit taller in their "Battle of Giants" last week when they took Reba's Bowling Apparel for a three out of four win in the feature match of the Supply and Maintenance league schedule.

In winning the Renegades ended the first round of league play with a full six point lead over the strong Reba five.

Ray Barter and George Foster turned in duplicate 586 totals in leading the attack and Bob Adams chipped in with a 576 as the leaders chopped down 3010 maples. Tom Lindsay kept the Reba attack going with a 583 count and D. B. Smith added to it with a 555.

Ray Herlston grabbed the Honor Roll spotlight with a consistently strong 196, 197, 212 card for a 605 total while Irv Kellogg took the league's Bowler of the Week honors with a 658 handicap total.

Herlston turned in his big series in helping the All-Sports Trophies to an even split with the Bushwhackers. Chet Wysocki helped the Sports along with a 579 and Buck Roberson topped the Bushwhackers with 577.

Kellogg turned in a 586 scratch total that included a 234 game as he paced the Dragons to a 3 to 1 win over Lily Flagg. The Flagmen got a 561 from Ed Gilgenast and a 553 from Joe Williams.

Tad's took three points from the Chiefs as Al Sarge tossed a 564 for the winners and Cliff Cline upended 555 sticks for the losers.

The Pin Busters scored the only

Crippled MICOM Six Loses To GE

A sensational shooting spree went for naught when the Missile Command girls dropped a 75-53 decision to General Electric in a Huntsville Industrial League game last week.

The loss was the second in four games for the Arsenal girls. They were scheduled to battle Lockheed this week before taking on the undefeated Boeing six next Monday evening.

The absence of three regulars forced Coach Sid Douglas to juggle his lineup for the GE game and left him with an inexperienced back court to cope with one of the strongest set of forwards in the league.

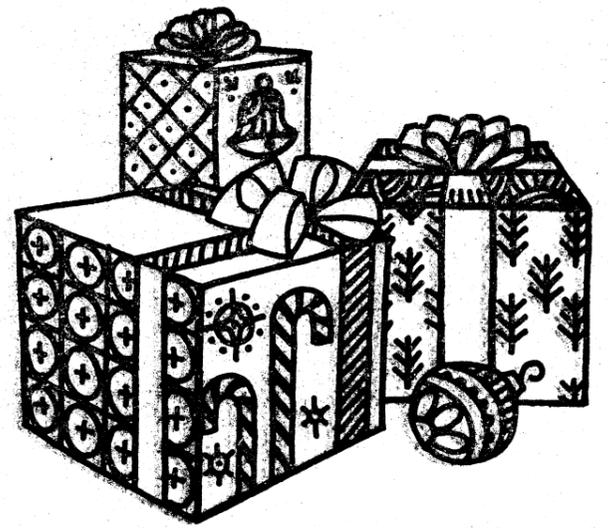
One of his changes saw Douglas move Gretchen Bigham to the attack and the former Prospect, Tenn., high school star proved her versatility by pouring 38 points through the hoops. Barbara Jernigan counted with 11 and Wynell Newton completed the MICOM scoring with four.

But the GE trio of Peggy Clark, Sharon Rainey and Connie Kirkpatrick had too much experience for the MICOM defenders. Clark took scoring honors with 41.

sweep of the evening at the expense of the Auto Center and the Cracker Jacks won a trio from Baker Real Estate in other league matches.

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300	55.09	29.87	21.54	17.42

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 SUN.-MON., Dec. 8-9
 "Hellfighters" (G)
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Foundrymen Remember Days Of Close Secrecy

The Army's foundry at Redstone Arsenal—where a twitching monkey's tail once provided an unusual but not insurmountable problem to metal craftsmen—will soon close its doors forever.

In the early days of the missile program, Redstone's counterpart of Vulcan's forge specialized in turning out the lightest, toughest hardware possible for prototypes and experimental missiles.

The need was clear; no one else could do the job. But the success of the early missile programs spawned a much greater depth of capability in industry. Missions changed, too, at Redstone, over the years.

Finally came the day when a de-

tailed survey showed the continued operation of the foundry could no longer be justified on the basis of economics or need. One of its final projects, for example, was the casting of a roomfull of lead bricks to be used in a research laboratory, a long step away from the precision required 10 years ago when it came time to make a mold and cast a couch to carry America's first successful voyager into space.

Her name was Able. She was a temperamental rhesus monkey who flew with a tiny squirrel monkey named Baker in the nose cone of a Jupiter missile in May 1959.

Paul Laney, who was selected to

make the mold for the form fitting couch for monkey Able recalls his experience with the deep satisfaction that comes to a man who has met a challenge.

Mold making is a delicate business. It involves using an exact model—or the real thing—to make an impression in damp sand. It takes a steady steady hand and a cooperative subject.

Enter the monkeys, something less than cooperative subjects.

"We finally had to anesthetize them to make the molds," Laney

said. "Even then they wouldn't hold still. We'd get all set and then they'd move an arm or a leg just enough to ruin the mold. Their tails twitched, too, that was the worst."

Working with the patience of coral, Laney finally got his mold.

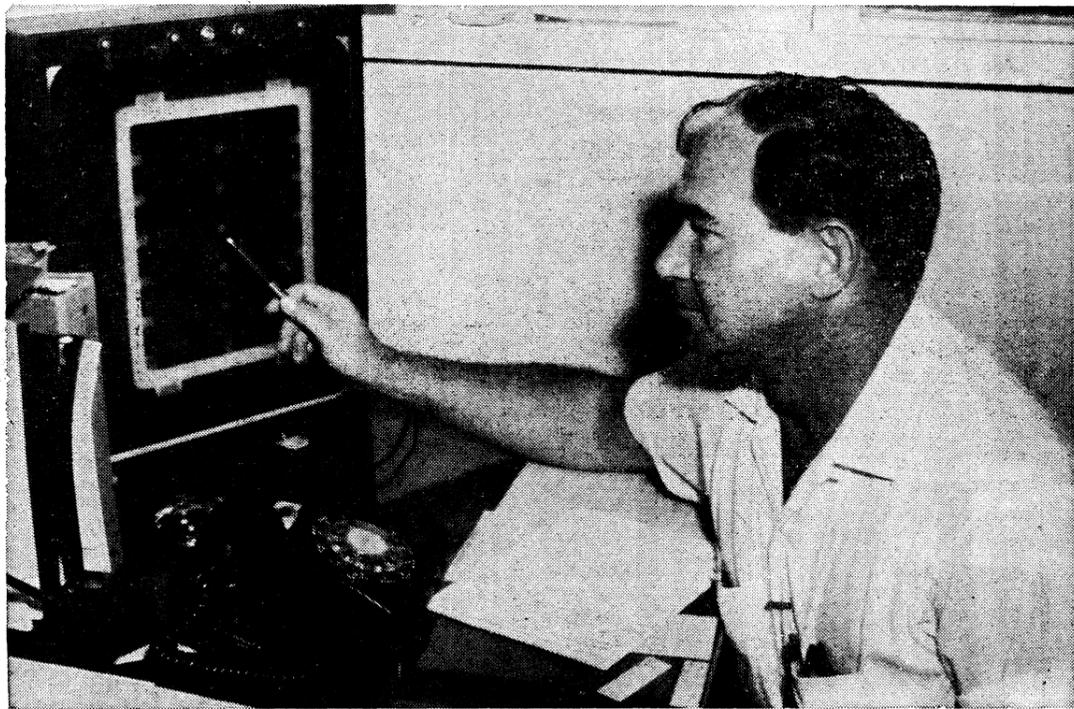
The monkey couches were just one of many challenging assignments, unusual perhaps, but at least Laney and his co-workers knew what the desired end product was. It was not uncommon in the early days of the missile pro-

gram for the men in the foundry, who constituted one of the many Post Engineer service functions to the laboratories here, to go through an entire process, make a pattern, then a mold, cast, sand blast, polish and deliver without ever knowing in what classified project their product was destined to be used.

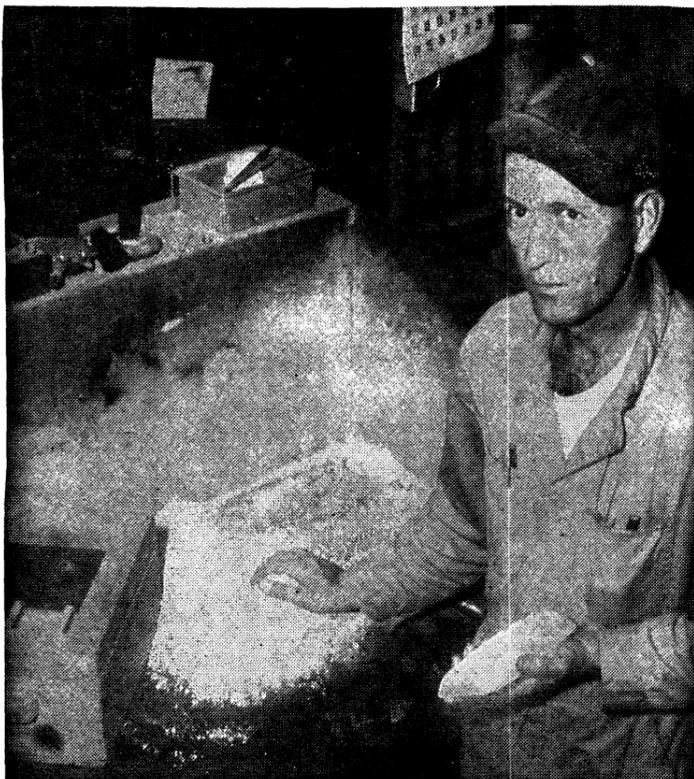
Roy G. Ashcraft, who began work in the foundry as a patternmaker in 1954, is chief of the operation until operations cease.



MOLD MAKER—James Allen prepares a sand casting for a mold at the Arsenal's foundry.



TOP MAN—Roy G. Ashcraft, a former patternmaker who became head of the foundry operations at Redstone, examines an X-ray of a faulty casting.



MOULDED FIRST SPACE COUCHES—Paul Laney moulded the first two space couches in the Arsenal Foundry, working with live subjects: Able and Baker. He said the job was "nerve-wracking" for two reasons: the couch had to fit the contour of the monkey exactly (Able was put on a diet before her trip because she gained a few ounces), and because he couldn't discuss his work with other foundrymen since it was a secret. The monkeys didn't help. They were cast in specially treated sand, and even asleep they twitched and lashed their tails.



LEAD BRICKS—Charles Medlen and Thomas Russell remove lead bricks to be used to line a laboratory in which radioactive experiments will be conducted.



SAND BLASTER—Roy Anderson operates the sand blaster in the Post Foundry to smooth a metal casting.

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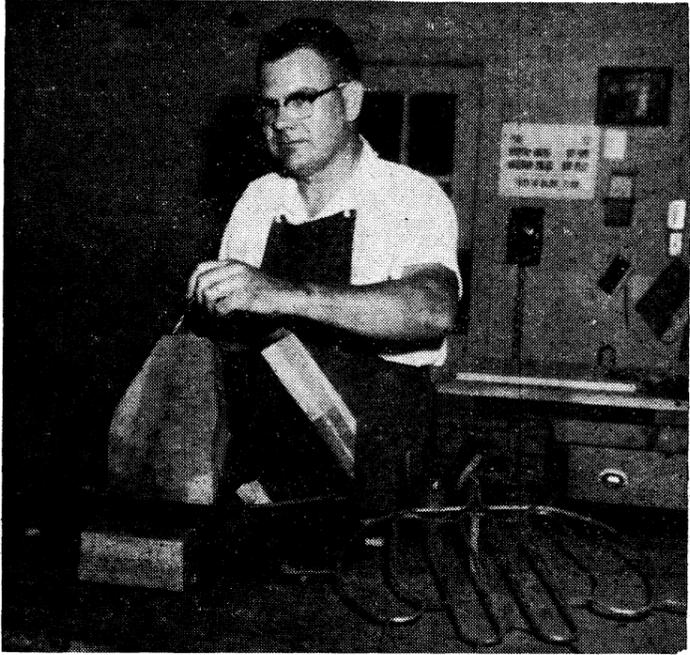
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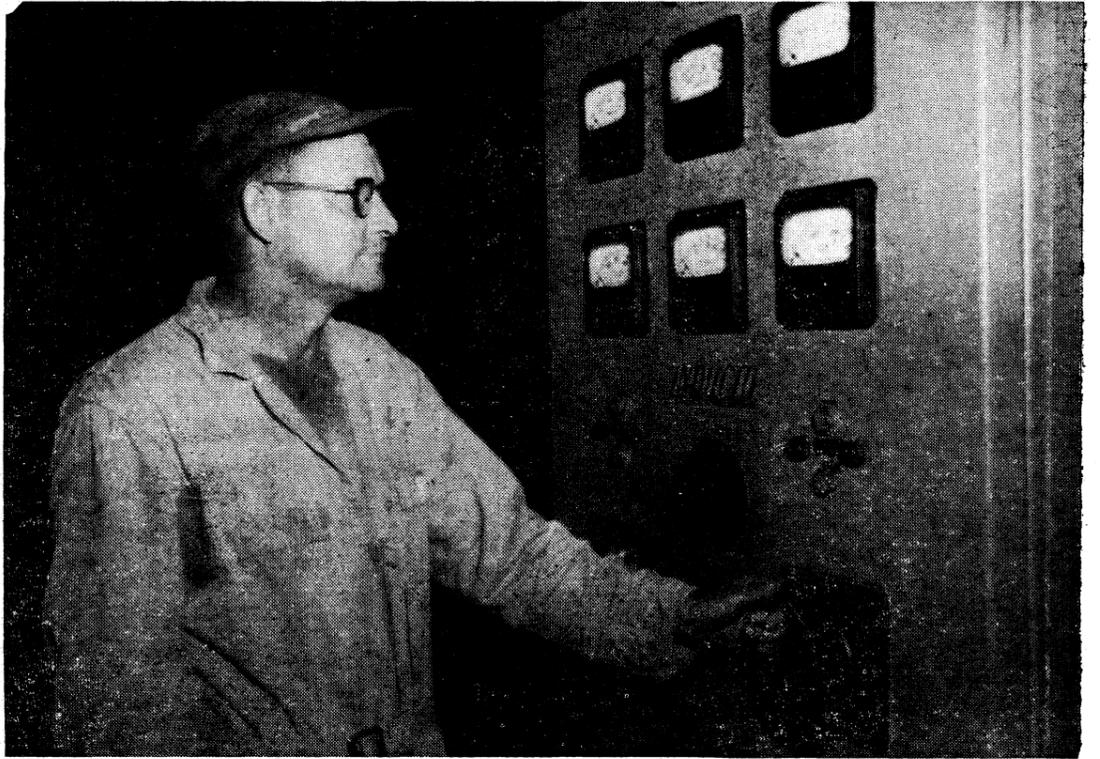
Ashcraft's long service was typical of the 12 men who made up the foundry work force. All worked there for more than a decade.

All were offered other jobs at the Arsenal. Laney will be working for a private firm. Ashcroft

will be doing P&P documentation and others are working at such diverse tasks here as Logistics and Quality Production. Like Laney some of the skilled men elected to take jobs elsewhere and continue their traditional craft.



PATTERN MAKER—William F. Crabtree examines one of the thousands of patterns developed at the Redstone Arsenal foundry for use in missile and space.



FURNACE MAN—Ollie D. Ford checks the gauges on his furnace in the Redstone Arsenal foundry.



FINAL TOUCH—Floyd George polishes a casting before it is delivered to the user.

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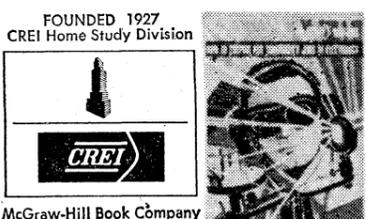
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Pershing Chalks Up 1968 Troop Firing Successes

With the successful launch, Nov. 13, of a Pershing missile by elements of the Federal Republic of Germany Air Force, the 1968 firing season roared to a close for the 400 mile range surface-to-surface system.

Behind it rests a record of 19 straight successes for U.S. and West German troop units.

Six of the launches were from the new Pershing 1-A system.

All the firing activity was supported by the 2nd Battalion of the 44th Artillery from Ft. Sill, Okla.

First of the 1968 firings occurred in March when three P-1A test launches were made from the Hueco Range, Texas, by engineers from the prime contractor, Martin Marietta Corporation.

The following month saw four missiles fired, also from Hueco. Two were launched by members of the West German Air Force and two by 7th Army Artillerymen returned from their European base for the exercise.

All firings then moved to Gilson Butte, near Green River, Utah, where West German troops made two launches in June followed by two 7th Army shots in July. August was a particularly busy month at Gilson Butte. German troops fired two missiles. Moving in on their heels was the 2nd of the 44th to conduct troop service tests with Pershing 1-A. Three rounds were

launched from the new system, thus making the first troop firings from Pershing second generation ground support equipment.

Again at Gilson Butte in early November were 7th Army units who launched two Pershing missiles on Nov. 5. The West Germans then moved in to close the season with the 19th and final launch for the year.

All missiles impacted on White Sands Missile Range, New Mexico.

The firing schedule for 1969 has not been announced but firing is expected to resume in early spring.

Col. E. A. Rudd is Pershing Project Manager at the Army Missile Command.

Sentinel Awards \$16.2 Million For Test Targets

The Lockheed Aircraft Corp. has been awarded a \$16,299,088 Navy contract for Phase 1 of the Sentinel System Test Target Program.

The contract was awarded by the Navy's Special Projects Office at the request of the Sentinel System Command.

The work will be performed by the Lockheed Missile and Space Company at Sunnyvale, Calif.

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Students Graduate Early

An Ordnance maintenance expert sent 107 graduates of the Army Missile and Munitions Center and School here on their way to a Thanksgiving holiday with thoughts of their days ahead as technicians in the ammunition and missile field.

Col. Raymond Hansotte addressed the class, which departed from a Wednesday ceremony rather than Friday, due to the holiday. Col. Hansotte is chief of the National Maintenance Point in the Supply and Maintenance Directorate of Army Missile Command here.

He emphasized that the training just completed by the soldiers, marines and airmen of the United States, Denmark, the Netherlands and Germany is "not an end in itself," but a means. The 28-year veteran and graduate of the University of Oklahoma spoke of personal traits such as perseverance and aggressiveness which, combined with experience, will open boundless opportunities in the future.

Col. Hansotte reiterated the important role of the support soldier in today's Army in providing the combatant with what he needs when he needs it and in operable order.

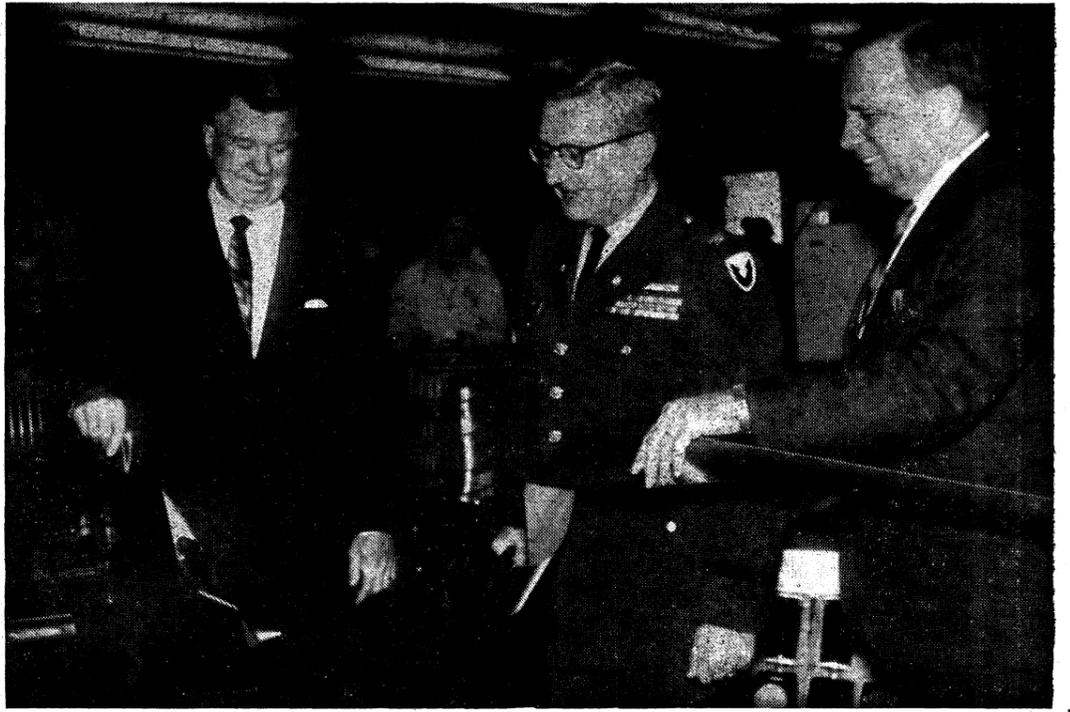
"This life and death idea is not far-fetched at all," said the speaker. Lastly he urged that the grad-

uates realize the rapid changes taking place in their field and to keep abreast of the never-ending cycle of technical developments.

A highlight of the ceremony was the presentation of special academic awards by the Association of the U. S. Army, represented by Tennessee Valley Chapter president Brig. Gen. (US Army, Retired) Robert B. Spragins.

Recipients of the citations for amassing a 96.0 or better grade average were three members of the ammunition storage course — Pvt. Jerrold Mayster of Chicago, Pvt. Robert Hardy of North Aurora, Ill., and Pvt. William Mixon of St. Louis — and Pvt. Stephen Pyles of Elm City, N.C., from the ammunitions records group.

Along with Mayster and Pyles, six other men were recognized as honor grads for accumulating the highest score in their respective courses: Spec. 4 Phillip Bray of Farmington, Mich., in Nike radar and computer; Marine Cpl. Terence Hayden of Hannibal, Mo., in Hawk missile and launcher; Cpl. Erik Pedersen of Denmark in Nike test equipment; PFC Charles Byrum of Chesapeake, Va., in Hawk radar; PFC Douglas Simmons of Port Orchard, Wash., in Pershing test station; and Pvt. Robert Horn of Cleveland, Ohio, in guided missile repair.



NEW SPACE—Col. J. N. Jean (center), director of Arsenal Support Operations, uses an oversized and very sharp knife to open the expanded floor space in the Post Commissary with the help of John C. Bryan (left) Commissary manager and George M. Parker, Quartermaster. Using the three per cent surcharge money collected by the Commissary, the dry stores department, the produce department and the frozen food display were increased in the 4400 square feet of new floor space. The surcharge covered approximately 80 per cent of the cost. The added space also helped create room for three additional check-out stations.

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Sodality Plans Installation Friday

Our Lady Queen of All Saints Sodality will hold its installation ceremony Friday at the Post Chapel with Father Rene A. Belanger, S.S.S., Catholic Post Chaplain officiating.

At the 9 a.m. Mass, new members will be received into the Sodality.

A free breakfast will be served to those attending at the Redstone Officers Open Mess after the ceremonies. Reservations will be necessary and may be made with Mrs. Carroll W. Merlick, 837-0616 and Mrs. Arthur W. Brochu, 837-1164.

Mitchell Presents Paper At Chemist Society Meeting

Ronald Mitchell, Research chemist in the Army Missile Command's Research and Development Directorate, will present a paper at the Southeastern Regional Meeting of the American Chemical Society, December 4-7.

The paper "Vibrational Assignments for Phosphiran, Phosphiran-1, and Phosphiran-2, 3-D4," will be presented at the Society's meeting at Florida State University, Tallahassee, Fla.

Mitchell, who is assigned to the Optical Spectroscopy Branch, Physical Sciences Laboratory, is performing research in molecular structure spectroscopy.



CONTEMPORARY OLDE ENGLISH—SCF. Charles Burney helped diners in Mess 3 at the Army Missile & Munitions Center & School

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Gen. Gates Opens Logistic Management Courses At Ft. Lee

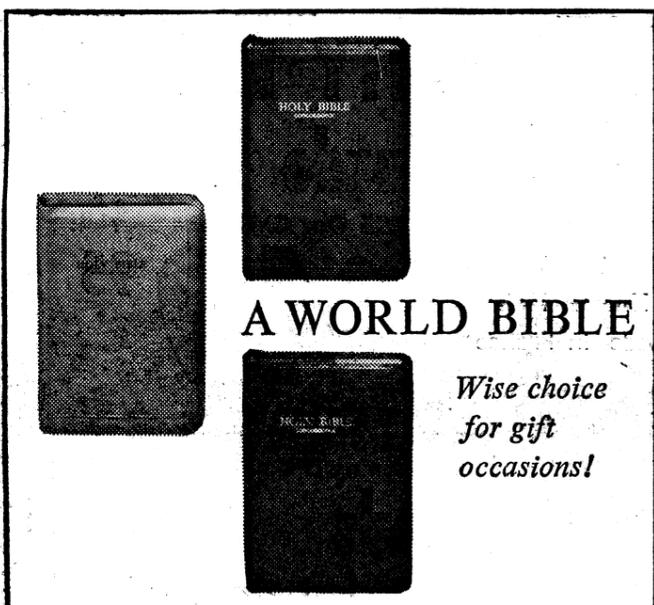
Brig. Gen. Mahlon E. Gates, Commanding General, U. S. Army Sentinel Logistics Command, made the opening address for two courses at the U. S. Army Logistics Management Center at Fort Lee, Va., Monday.

During a joint session he spoke

to current classes of Army Commodity Management and Army Project Manager courses.

Gen. Gates discussed his concept of organization and management for logistic support. He is

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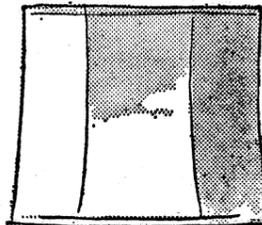
VISITOR FROM SPAIN—Listening attentively to a briefing on the Shillelagh missile system is Spanish General Frederico Ascension Esteban (right) who was a recent visitor to Redstone Arsenal. Explaining the system is Earl R. Edmondson, Shillelagh Deputy Project Manager. While here, Gen. Esteban and his party toured facilities and were briefed on Army activities at the Army Missile Command. Gen. Esteban is Deputy Chief, General Directorate of Organization and Field Forces, Spanish Army Central General Staff.

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 The British surrendered at Yorktown Oct. 19, 1781.



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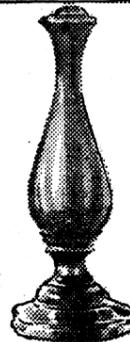


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5. Houses, Lots - Sale

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NAMES IN THE NEWS

by SP5 *Mike McKenzie*

Spec. 5's Lester Allen, Peter Blue, Roland Imeidopf, Paul Lucas, Calvin Bagley, Troy Monholland, Lawrence Stout and Ronald Wiggins, while Spec. 4 stripes went to James Snead and John Hell.

Another pair of reenlistments were reported by Staff Sgt. James Hutton in the career counseling office:

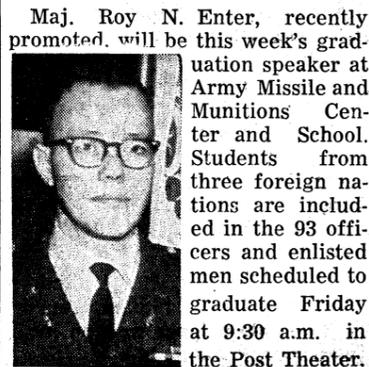
SFC John F. Dinkel of Company C, an eight-year veteran who worked on Nike test equipment, and Staff Sgt. Erwin T. Dye of Company A each took another six-year oath. Sgt. Dye is in Hawk continuous wave radar and in less than five years has already served terms in Germany and Okinawa.

Lt. Col. James E. Williams is among several new officers who have recently reported in for assignment. Col. Williams is chief of the General Ammunition Division, coming to MMCS from duty in Alaska. He replaces Maj. Robert L. Moody, who is currently attending school here.

Other arrivals include Capt. Victor L. Guess, 1st Lt. Fred C. Rodman (executive officer and S3 at Third Battalion), 1st Lt. Leland E. Owens, CWO James W. Samples, and CWO Burl B. Dykes.

OTHER NAMES IN THE NEWS: 1st Lt. Douglas R. Baker was promoted in his duty section, the Hawk Pulse Radar Branch, where

Maj. Enter to Speak At MMCS Friday

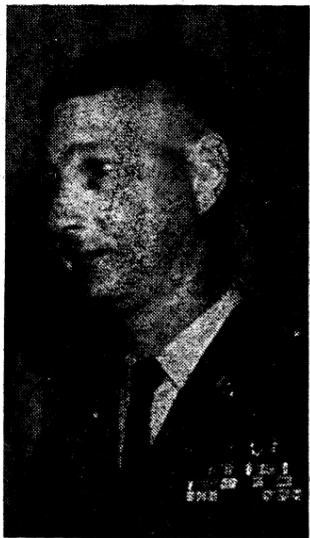


ENTER Maj. Enter is the chief of the organization and staffing branch of the Office of Doctrine and New Materiel at MMCS.



PERSONNEL OFFICER — Maj. Kenneth C. Bowden has been named chief, Military Personnel Division of the Missile Command's Personnel and Training Office. A native of Russellville, Ark., Maj. Bowden graduated from Arkansas Polytechnic College in that city and shortly afterward entered the Army. His last assignment before coming to Redstone Arsenal was in Vietnam where he earned a Bronze Star Medal.

A Bronze Star and Army Commendation Medal were awarded at an assembly of Unit Training Command troops, as well as the official changes of command at the



SFC LORD

249th and 227th Ordnance Detachments as reported in the column a week ago.

Earning the Bronze Star for meritorious service in Vietnam was SFC Wayne Lord, Sr., a sen-



SP6 SULLENBERGER

ior instructor in testing and training branch at Explosive Ordnance Disposal Division.

Spec. 6 Harry M. Sullenberger received the ACM, also for meritorious action in RVN. It was the third award (2nd oak leaf cluster) for the EOD specialist. He earned two other ACM's with "V" device for valor. He now helps set up

tests on Range G for EOD division.

Also at the UTC formation, commendations for participation in the Savings Bond program were issued to eight units.

The staff at Redstone Army Hospital also had a fistful of awards and promotions handed out in November, including the Bronze Star to Capt. Charles R. Ligon, Jr., for his service in Thailand as a dental officer.

A zero defects award was given to supply clerk Betty Perez, and receiving outstanding rating with quality increase were clerk typist Willie S. Cunningham and administrative officer of the Occupational Health Service, Stephen E. Pukl.

Larry E. Hunt, another supply clerk, received his second cash prize for a suggestion; for them, he is \$300 better off.

Promotions were announced for Staff Sgt. Robert L. Thomas,

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\$1,950. DOWN

\$126 mo. including all. 3 bedroom rancher on level lot in Parkway Estates. Less than a block to new elementary school. Big den, central air and carpets: 7920 Easley Drive.

ROOM FOR ALL

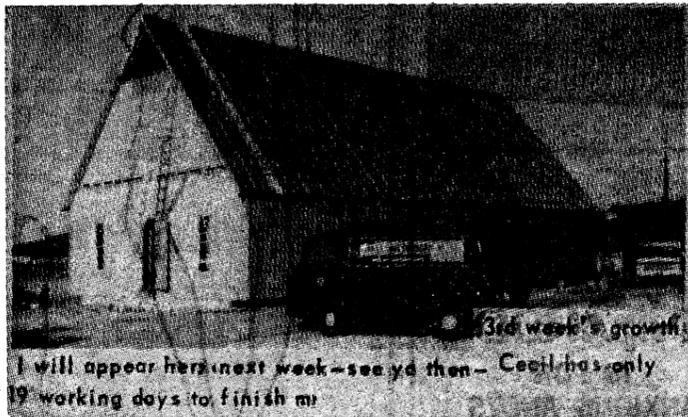
Don't worry about the family coming for the holidays. There's room for everyone in this 5 bedroom (master 15x18'—2nd. 14x18") home in Whitesburg Estates. 2 dens, 2 fireplaces, 3 baths, big dining room, double garage. 5 1/4 VA—\$4,950. down, \$196 mo. 2002 Shannonhouse Road.

SCHOOL YARD

All brick 4 bedroom ranch with 2 car end-entry garage in excellent condition. Big corner lot. \$4,465 down, payments \$175. 7803 Lauderdale Road in Parkway Estates.

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I will be authentic with an old style large foyer for reception, chimney, long slim old type windows with the home style tie-back curtains. My front and rear porches will be very inviting for comfort, my roof will be extra steep and of old 5V metal, my lights will be hanging on cord wire with clear bulbs to show the burning filament (for appearance), all my doors will be Williamsburg Style and my exterior will be old board and batten style to be painted with a special spotted old style gray paint for aged appearance.

When completed, I will contain eight (8) separate offices for (8) real estate agencies.

I, the "Farmhouse" will be a Real Estate Center (a real estate clearinghouse). Cecil Clowers' Real Estate will be one of my tenants.

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- 1964 VW SEDAN. Black, runs good. \$995.
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Gen. Underwood Explains Surface To Air Missile Superiority Of U. S.

The commander of the U.S. Army Air Defense Command (ARADCOM) has contrasted the operations of Soviet and U.S. surface-to-air missiles to emphasize the superiority of the Army's Nike Hercules air defense weapons system.

Lt. Gen. George V. Underwood Jr. said enemy aircraft would not be able to deceive the Hercules with measures that U.S. pilots used so effectively against Soviet-made SA-2 surface-to-air missiles over North Vietnam.

In an address before the National Guard Association of the United States, General Underwood explained that the U.S. Air Force "has devised tactics involving radical maneuver and electronic countermeasures which have greatly reduced the effectiveness of the SA-2."

He said "extensive live-firing tests against actual and simulated targets using comparable tactics" have proved that the Hercules remains effective against these tactics and "can cope with most any target maneuver."

"The main point," General Underwood emphasized, "is that the SA-2 and the Hercules are quite

unlike. They are different generations of differently designed SAM (surface-to-air missile) systems."

Nike Hercules, the United States' primary high-medium altitude air defense weapon in operational status, is a guided missile system for defense of critical installations and population centers. It is used in the continental United States, at overseas installations and by elements of the field army.

Explaining some reasons for the effectiveness of the Hercules, General Underwood said:

"The SA-2 is launched uphill in the beam of the tracking radar whereas the Hercules is launched vertically and dives on low and medium altitude targets. As a result, the SA-2 loses velocity and hence maneuvering capability while the Hercules has no such problem. Moreover, the uphill-traveling SA-2 can be seen and dodged while the diving Hercules cannot.

"The SA-2 is guided to stay within the tracking radar beam and hence must make a nearly 100 per cent adjustment to any target maneuver.

This frequently causes missile break-up or causes the tracking radar to be jerked out from under the SA-2 before necessary guidance commands can take effect on the SA-2.

"On the contrary, the Hercules is guided to a continuously computed intercept point and is subjected to less radical maneuvers in order to reach the kill point."

Also, General Underwood said,

significant improvements have enabled Hercules to "perform creditably" against electronic countermeasures. A new modernization program has been proposed to reinforce this capability. (ANF)

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QUALITY CONTROL MEETING

The American Society for Quality Control will meet at the Russel Erskine Hotel Dec. 11 at 6:30 p.m.

P. E. Sullivan, manager of the Launch Vehicle Quality and Reliability Program at General Electric will talk on "Quality and Reliability Hardware Orientation."



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