

Arsenal-Wide

Spot News

Dial 112

# The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 2, 1966



**AWARDS FOR VIETNAM IDEAS**—In a month's time, personnel of the Army Missile Command's Research and Development Directorate turned in 185 suggestions of ways to aid the American soldier in Vietnam. Here, Lt. Col. R. M. Pearce, R&D Director, has just presented awards to those submitting the top three ideas. From left to right are: Dr. William C. McCorkle, Jr., Chief, Advanced Systems Laboratory, third place for a suggestion on a multiple

grenade launcher; Arthur C. Browning, Ground Support Equipment Laboratory, second place, modified automatic shotgun fed by belt ammunition; Col. Pearce; Ivan H. Shokes, Jr., and Rex B. Powell, Advanced Systems Laboratory, tie for first place, mounting 2.75 inch rocket launchers on trucks to protect convoys against ambush attack.

## Suggestions Aid Troops In Vietnam

The call went out in December to the men and women working at the Army Missile Command to support the conflict in Vietnam to their maximum capability. In the laboratories and offices of the Research and Development Directorate, where scientific and technical knowledge flows deep and wide, the call was answered with 185 suggestions—185 ways to help the American fighting men in action that is writing a new chapter in the history of warfare.

The suggestions have been evaluated and awards were presented this week to those turning in the top three ideas.

First place went to the Chief of the Advanced Systems Laboratory's Dynamics Branch, Rex B. Powell, and a member of his branch, Ivan H. Shokes, Jr. Both men independently submitted the same suggestion—mounting 2.75 inch rocket launchers on trucks to better defend convoys against ambush tactics of the Viet Cong.

A co-op student from Mississippi State University working in the Requirements and Analysis Branch of the Ground Support Equipment Laboratory, Arthur C. Browning, came up with an idea for using an automatic shotgun fed by belt ammunition to improve the attack and defense capabilities of the soldier. It won him a second place plaque.

Dr. William C. McCorkle, Jr., Chief of the Advanced Systems Laboratory, suggested a multiple grenade launcher that was ranked third.

All of the suggestions were good, said John L. McDaniel, Technical Director of the Research and Development Directorate, and each one will be carefully screened for possible use in Vietnam. One of the guidelines was that the ideas could be developed in from three to twelve months.

The suggestions ranged from simple missile modifications to "blue-sky" ideas that (See VIETNAM on Page 3)

## Army Observes Birthday Of Pilot Organization

Ten years ago yesterday, Feb. 1, 1956, the U. S. Army Ballistic Missile Agency was activated here at Redstone Arsenal. A reporter put a question to the new commanding officer Maj. Gen. John B. Medaris, that day and his answer serves as a capsule summary of the outfit that he had come to lead.

The newsman asked if the Army could put a satellite in space. Gen. Medaris answered: "The Army is capable of doing anything it sets out to do."

There is ample proof on the record that the part of the Army remembered here as ABMA could and did do just that. It is doubtful that any other Army element, functioning in time of peace, had as profound an impact on the senior military service, indeed made as much history, as did ABMA in the six years before it was absorbed in the Army Ordnance Missile Command.

Its missile achievements are well known: Redstone deployed, Jupiter developed and deployed,

(See Pictures on Pages 8 and 9)

Pershing well begun. Not so well known, but perhaps even more important were its technical achieve-

ments, among them: the first successful heat protection for ballistic missile nose cones.

An ABMA Jupiter "C" launch vehicle fired the first payload over intercontinental range, an ABMA Jupiter "C" orbited the Free World's first scientific earth satellite, an ABMA Juno II launch vehicle orbited the Free World's first solar satellite and carried its first successful deep space probe, an ABMA Jupiter missile carried the first primates—monkeys Able and Baker to survive a space flight. The Mercury Redstone and Saturn launch vehicles began as ABMA projects.

It seems almost incredible now (See ARMY on Page 3)

## Neither Ice Nor Snow Nor Wintry Blast . . . .

The mail man's traditional approach to work had nothing on the Army's workers at Redstone Arsenal this week.

Despite seven inches (official) of snow which had been packed down into a sheet of ice on most roads and streets in the Huntsville area, about 80 per cent of the force made its way to work Monday morning.

Clear roads and careful driving during the morning made it possible for military police to report not a single accident as strings of cars eased over the Arsenal highway network.

Crews from the Roads and Grounds Branch of the Post Engineers had been at work since 2 a.m. Saturday getting the roads clear of snow and

ice. Leon Towery, Branch Chief, said he had 53 men working in 12 hour shifts throughout the weekend.

One of Redstone's non-missile related industries resident on the Arsenal helped on the road clearing operation. Post Engineers spread about 200 tons of salt on the roads. The salt was bought from Stauffer Chemical Co. which uses it to make chlorine and caustic soda in its Redstone Plant. The Roads and Grounds crews' effort from 2 until 10 a.m. Saturday was handicapped because the snow fell almost faster than it could be removed. But by midnight Saturday, all roads on the Arsenal were clear enough to be used and (See WEATHER on Page 3)

## Where Are They Now?

ABMA's most famous alumna, a squirrel monkey named Baker, is the sole survivor of the first space flight by primates. She rode a Jupiter missile nose cone into space and returned alive on May 28, 1959, something of a feat in those days.

Baker now lives in a special cage at the Vestibular Laboratory section of the Naval Aerospace Medical Institute, Pensacola, Florida, in 80 degree comfort with a boyfriend named Big George.

She weighed in at one pound one ounce for her historic space flight and has watched her diet carefully since, gaining one additional ounce in six years.

A large glass window opens from her quarters to the outside world and she seems to enjoy the many visitors who come calling. She still gets fan mail from all over the world.

Her companion on the space flight, an American-born Rhesus monkey named Able, died in 1959 during an operation to remove medical sensors.



# The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-139, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

## Rocket Ruminations

Disinterested intellectual curiosity is the life blood of real civilization.  
—George Macauley Trevelyan

## On With The Job

It was gratifying Monday morning to see a steady stream of automobiles getting Redstone workers to their jobs. To be sure, traffic was slower, chains were clanking, and a few vehicles were stalled, but men and women were getting to work and by mid-morning not a single accident on-arsenal was reported.

All-time low temperatures were recorded in North Alabama last weekend. I am happy to note also that arsenal personnel apparently set a record for being on the job under adverse weather conditions.

I realize that many of you made preparations for inclement weather several months ago in accordance with announced policy to keep Redstone Arsenal open for business regardless of weather. I know that some of you had to leave your homes several hours earlier than usual Monday to assure being at your job. I am sure many put forth additional physical effort and mental ingenuity as you coaxed cold engines into activity.

The Army at Redstone has a vital national defense mission; currently, we have certain assignments in support of United States commitments in Vietnam; under these circumstances I do not feel we can permit our activity to come to a halt because of weather.

You have my personal thanks for your cooperation.

**JOHN G. ZIERDT**  
Major General, USA  
Commanding



## 65th Anniversary Of Army Nurse Corps

On February 2, 1966 the Army Nurse Corps celebrated its 65th Anniversary. As the oldest of the women's military services, this corps has a long and honorable history of serving world-wide, whenever and wherever needed. Today the ANC is composed of both men and women who are qualified professional nurses. They are stationed in many diverse places throughout the world, as they strive to "conserve the fighting strength."



## JAG TAX TIPS

This is the second in a series of ANF articles prepared by First Lt. Paul M. Little, Chief, Personal Tax Branch, Legal Assistance Division, Office of the Judge Advocate General.

The President issued an executive order designating Vietnam (and adjacent waters within defined limits) as a "combat zone," effective January 1, 1964. The designation of Vietnam as a combat zone triggers several tax relief provisions covering members of the Armed Forces who are serving or have served on or after January 1, 1964 in Vietnam.

Under the Internal Revenue Code, there is excluded from income tax all compensation received while a member of the Armed Forces for any month, any part of which was served in Vietnam. Exclusion also applies if hospitalized anywhere as a result of wounds, disease, or injury incurred while serving in Vietnam.

For enlisted personnel and warrant officers, W1 through W4, the monthly exclusion is unlimited; however, commissioned officers are limited to an exclusion of \$200 per month.

Beginning January 1, 1965, no withholding of taxes from the wages of any member of the Armed Forces is required during a month in which any part of his service is in Vietnam. If Federal income taxes were withheld after December 31, 1964 for any month during which such a serviceman served in Vietnam, these taxes will be refunded.

This withholding provision may cause financial hardship to commissioned officers who have served or will serve in Vietnam after December 31, 1964 if they fail to provide for the eventual payment of taxes on income in excess of \$200 per month. Commissioned officers can provide for withholdings on income over \$200 per month.

Military personnel who served in Vietnam between January 1, 1964 and December 31, 1964 probably had income taxes withheld but, since they are entitled to the combat pay exclusion, they may file an amended return to recover any overpayment they may have made. Special procedures are required in connection with the amended return. Affected personnel should consult their local legal assistance officer for details.

These special procedures should also be followed by personnel filing their 1964 tax return for the first time. The Internal Revenue Service "Instructions for Form 1040" for 1965 will contain a full explanation of the combat pay exclusion.

Additional tax relief provisions triggered by the designation of Vietnam as a combat zone will be discussed next week. Your questions can be answered by your local legal assistance officer. (ANF)

## Col. Drewry To Remain At Nike-X As BG

The Nike-X missile defense project at Redstone Arsenal is not only the Army's highest funded missile development project, but it apparently will also be the only missile project in the Army directed by a General officer.

The Department of the Army has confirmed Col. I. O. Drewry for an indefinite term as Nike-X Project Manager, a position he has held for the past 3½ years.

Col. Drewry was recently nominated for the rank of Brigadier General. He has been notified by Department of the Army that he will remain in his present position after receiving his stars.

Col. Drewry, a native of Alabama, came to Redstone Arsenal to head the anti-missile missile in 1962 after serving as Senior Ordnance Advisor to the 1st Republic of Korea Army.

## German Air Force Successfully Fires Pershing Monday

A Pershing missile was successfully fired Monday morning at White Sands Missile Range, N.M., by a German Air Force Missile Group.

The missile, which was launched from Ft. Bliss' Hueco Range impacted as programmed in the northern part of the range.

Support for the German unit was provided by the 2nd Battalion, 79th Artillery from Ft. Sill, Okla.

Col. Edwin I. Donley, Deputy Commander for Land Combat Systems, Army Missile Command, was among those on hand to view the firing.

White Sands safety and data collection personnel monitored the flight from launch to impact.

## Exams Open, Some Close

The U.S. Civil Service Commission has announced the opening of examinations for the following:

AT-35-1(66), Preservation-Packing Specialist, GS-9, \$7479 a year; GS-11, \$8961 a year;

AT-35-2(66), Electronic Fire Control Systems Installer and Repairer, W-8, \$2.61 an hour; W-11, \$3.12 an hour and W-12, \$3.28 an hour.

AT-35-3(66), Electrical Lineman, W-8, \$2.61 an hour and W-11, \$3.12 an hour.

Closings have been announced for the following examinations:

AT-35-21(64), Photographer, Television, GS-7, \$6269 a year;

AT-35-17(64), Painter, W-9, \$2.78 an hour;

AT-35-24(65), Inventory Management Specialist, GS-9, \$7479 a year; GS-11, \$8961 a year;

AT-35-12(64), Accounting Clerk, General, GS-4, \$4641 a year; Accounts Maintenance Cash Accounting, General, GS-5, \$5181 a year; Time, Leave and Payroll Voucher Examining Military Pay, GS-6, \$5702 a year;

AT-35-9(64), Welder, W-10, \$2.95 an hour; W-11, \$2.12 an hour;

AT-35-18(65), Microphotography Worker, W-4, \$2.02 an hour;

AT-35-21(65), Electric Accounting Machine Operator, GS-1, \$3507 a year; GS-2, \$3814 a year; GS-3, \$4149 a year; GS-4, \$4641 a year.



**INSPECTOR PROMOTED**—Lt. Col. William J. Steinebach gets plenty of help in replacing the gold leaves he has worn as a Major with a new set of silver leaves. Maj. Gen. John G. Zierdt, Commanding General of the U. S. Army Missile Command, and Mrs. Steinebach shared the pinning-on duties in a recent promotion ceremony in the Commanding General's office. Colonel Steinebach is the Assistant Inspector General for the Missile Command.

## Ten Retire In January

Ten men retired with more than twenty years of active military service in January.

Lt. Col. C. C. Anderson and Lt. Col. Raymond J. Astor announced their retirement previously. Others who have made the official farewells are CWO Carter E. Brown who was assigned in Headquarters Company at the Army Missile and

Munitions Center and School; SFC Robert W. Butler, Co. B of the School; SFC Louis P. Simoen, SFC Paul Lumpkin, SFC Herbert L. Monroe, all of the school's Co. B; M/Sgt. William A. Savage of the School's Co. C; M/Sgt. James T. Stewart, Army Missile Support Command; and Sgt. Hylon H. Samples, of the Medical Detachment.

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**VIETNAM**

(Continued From Page 1)

require a lot of imagination to come up with.

As an example of how the Research and Development people responded to the urgent need of Americans in Vietnam, take the problem of soldiers routing the Viet Cong out of the maze of tunnels dug in the Southeast Asian country. One man suggested arming members of the Canine Corps with cartridges of explosive gas and sending them into the tunnels. When the dogs smelled out the enemy, they would be trained to shake (like a wet dog does when he comes out of a pool of water), thus dropping the cartridges. Then the dogs would retreat before the delayed cartridges would release the gas. Someone else thought Texas rattlesnakes might send the enemy running for tunnel entrances.

"Your idea may sound far-fetched," McDaniel told the R&D personnel when the challenge was issued for suggestions, "but it may be just the answer to a Vietnam problem. Don't be too modest; modesty won't win battles, but ideas will."

Some suggested using electric cattle fences around airstrips and troop compounds, powerful magnets to pick up enemy guns and equipment, and rocket launchers mounted on dogs.

The most suggestions—46—came from workers in the Ground Support Equipment Laboratory, The Propulsion Laboratory and Development Division each turned in 18. Seventeen suggestions came from the Physical Sciences Laboratory, and 16 from the Structures and Mechanics Laboratory.

The Technical Review Board which screened the suggestions was headed by James J. Fagan, Scientific and Engineering Assistant to Lt. Col. R. M. Pearce, Director of the Research and Development Directorate. Members of the board were: Lt. Col. Almon Roth, Chief, Future Missile Systems Division; Donald I. Graham, Development Division; Eugene J. Palm, Propulsion Laboratory; Heinrich A. Heitchecker, Structures and Mechanics Laboratory; Robert C. Haraway, Electromagnetics Laboratory; and Robert W. Fleagle, Advanced Systems Laboratory. The suggestions were received in the Development Division of which Gregory S. Moshkoff is technical director.

Every man on the University of California football squad has pledged to give blood as a symbol of support for U.S. policy in the Republic of Vietnam.

**Founders Day Plans Start**

Lt. Col. A. R. Roth has mailed notices to graduates from all the Armed Forces Academies in the Redstone Arsenal area that the U. S. Military Academy Founders Day banquet is scheduled Mar. 6 at the Redstone Officers Open Mess.

The Colonel, Chief of the Future Missiles Division of the Research and Development Directorate at the Army Missile Command, said that a graduate from the USMA, the Air Force, Navy or Coast Guard Academies whom he may have missed should get in touch with him if the individual wishes to attend the Founders Day celebration.

Anyone wishing to do so can write to the Colonel's office at Redstone Arsenal or call him at 876-2605.

**ARMY**

(Continued From Page 1)

that one Army organization accomplished all this at a time when the test flight of any missile was front page news in any paper in the country, when two monkeys could command the same audience at a press conference that now turns out for the Astronauts, when there were serious doubts in some quarters that the United States could compete in the new technology with the Soviet Union.

Confident competence was ABMA's trademark as an organization and that spirit is alive today, at the Kennedy Space Flight Center in Florida (formed from a nucleus of the ABMA Missile Firing Laboratory); at the Marshall Space Flight Center (formed from a nucleus of the ABMA Development Operations Division) and here at the Army Missile Command, lineal descendent of a proud organization.

**WEATHER**

(Continued From Page 1)

the crews then went to work clearing parking lots.

The Redstone Army airfield was opened by Sunday night. Road crews used eight graders, a snow plow, four trucks pulling salt spreaders and dozens of hand-wielded shovels in fighting their battle.

Two men with picks and shovels rode Arsenal trains clearing ice out of the switches.

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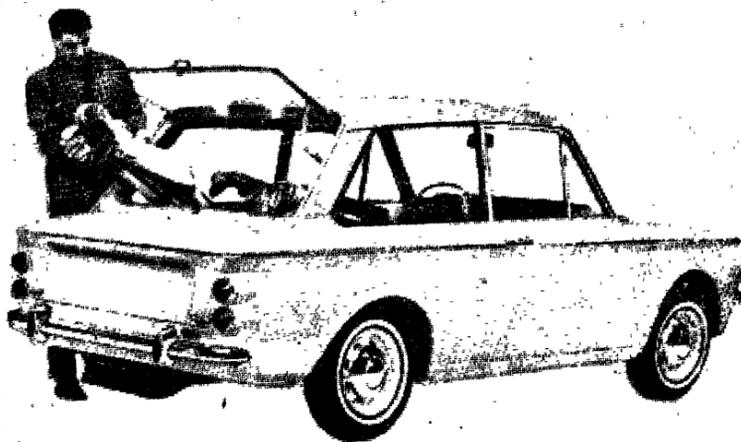
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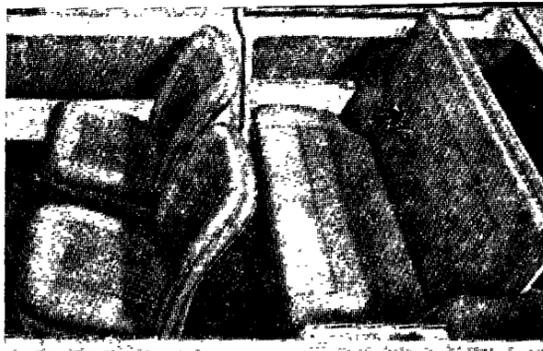
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# SOCIAL <sup>and</sup> CLUB EVENTS

## Wives Plan Brunch, Cards

The Redstone Arsenal Officers Wives Club is holding its annual bridge-canasta brunch at the Redstone Officers Open Mess Feb. 8 with the associate wives acting as hostesses.

Mrs. Harry Murray is the chairman. Reservations will be accepted until noon Friday by: Mrs. William P. Hooker, 877-5759; Mrs. Wesley L. Taylor, 877-5257; Mrs. Ralph L. Nearhoof, 539-6997; and Mrs. Errol Hayes, 877-5262.

Cancellations can be made until noon Monday with Mrs. John H. Boyes, 877-5144.

The event is scheduled to begin at 10 a.m. The reservations committee asked that members let them know which game they prefer to play.

## Roy Accardi Is Winner

Monday night bridge winners at the Redstone Officers Open Mess were Roy Accardi, high; Mrs. B. A. Saholsky, and Lt. Peter Gutter, third.

The Bridge group meets every Monday night to play. Reservations are handled by Mrs. Peter Kostoff and Mrs. Thomas Lynch.

## IEEE Automatic Control Group To Meet Thursday

The Huntsville chapter of the Institute of Electrical and Electronics Engineering Professional Technical Group on Automatic Controls will meet tomorrow evening, to hear a presentation entitled "Numerical Solution of the Optimal Booster Guidance Problem."

Guest speaker will be Dr. George W. Johnson, who is a Senior Engineer with the Space Systems Group, IBM Corporation, Federal Systems Division, Cambridge, Massachusetts. Dr. Johnson received his PhD degree in Electrical Engineering from the University of Connecticut. He is an Associate Member of IEEE.

Members and non-members are invited to attend. The meeting is scheduled to begin with a brief business session at 7:30 p.m. in the auditorium, Room M-50, of the University of Alabama Research Institute on Sparkman Drive.

## Two Wives Groups Hold Coffees

Two Coffees were held simultaneously at the Redstone Officers Open Mess Jan. 25.

Members of the wives of Officers of the Army Missile Command met in the Redstone Room for coffee while members of the wives of officers assigned to the Army Missile Munitions Center and School were in the Ballroom drinking coffee and observing a Spring hat show.

At the latter, Mrs. Hugo C. Stanford introduced the hat show with a short discussion of the fashions and fabrics to be expected next season.

Mrs. Peter C. Kostoff and Mrs. John Geiger worked behind the hat bar. Members of the audience were the models for both hats and furs on display from Pizitz. The hats were from the Bonnet Box. Wives of New Missile and Literature Department men were in charge with Mrs. William A. Leonard as chairman. Committee members included Mrs. Geiger, Mrs. Kostoff, Mrs. Talmadge W. Humphreys, Mrs. Wilbert T. Johnson, Mrs. William B. Leverich, Mrs. Malcolm P. Newcomb, Mrs. E. S. Raleigh, Mrs. Wayne Richard, Mrs. James J. Thomas, Mrs. John W. Ver Beek, Mrs. Gerald Wetzel and Mrs. Thomas Wilkerson.

## Mrs. Pettit Heads Red Cross Volunteers Here

The Red Cross Volunteers have a new chairman, Mrs. Morris W. Pettit. She took over officially from Mrs. Glenn Crane at a Coffee at the Sportsmen's Club last week.

Some of the business introduced at the business meeting included an announcement of a new class for Red Cross Volunteers to begin the last week in February, the need for more Volunteers to man the U.S. Army Hospital, the clinics and the Red Cross Bloodmobile during its monthly visit.

Approximately 50 Volunteers attended the Coffee. In making the change in leadership, Mrs. Crane pointed out that her successor is a fairly recent arrival at Redstone Arsenal but that she has much experience behind her in Red Cross Volunteer work.

## WIVES GROUP PLAYS BRIDGE

The Thursday bridge group sponsored by the Redstone Arsenal Officers Wives Club had one less table last week than the week before when it drew an even dozen tables of players to the Redstone Officers Open Mess.

Winners Thursday were Mrs. Cyril D. Sterner, high; Mrs. Ralph Cantrell, second; Mrs. E. C. Shriner, third; and Miss Connie Clark, low.

Mrs. A. V. Garrabrant handles reservations to play with the Group.

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## Births At Post Hospital

Perry Robert Davis, Jan. 22, son of Sp5 and Mrs. Robert H. Davis.

Angelika Richter, Jan. 23, daughter of German AF Sgt. and Mrs. Rolf P. Richter.

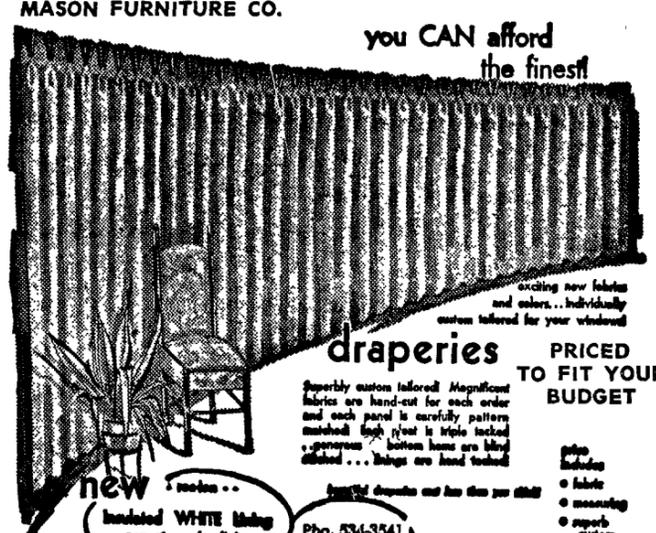
Donald Michael Hamilton, Jan. 19, son of Sp5 and Mrs. Donald R. Hamilton.

Kristy May Mitchell, Jan. 25, daughter of 2/Lt. and Mrs. Richard L. Mitchell.

Arnisa Michele Kelley, Jan. 24, daughter of PFC and Mrs. Emanuel Kelley.

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# School Children Hear About Far East Culture

The school children of Huntsville are learning about foreign lands from real experts these days. The expert information is from military officers of various lands around the world who have recently given lectures and shown slides of their homelands to local children.

Lt. Col. Kikio Kimata, Japanese Liaison Officer at the U.S. Army Missile & Munitions Center & School spoke to the B'Nai Shalom Sisterhood of the Jewish Temple about customs and culture of Japan. He used color slides to accentuate his talk and followed it with a demonstration of "origami" the Japanese art of paper folding. Using techniques taught all Japanese children, he produced beautiful, decorative animals and birds.

Maj. Hyunsik Park, Korean interpreter, recently addressed students at Westlawn Junior High School. Maj. Park generated great interest among the American eighth-graders with slides and his discussion of Korea and its culture. The students, obviously fascinated by his country, asked many questions following the talk.

In other foreign activities, 10 Korean officers and enlisted men were guests at a dinner in fellowship affairs at the Latham Memorial Methodist Church, and six German Air Force students observed city justice in action at a daily session of the Huntsville Recorders Court.

On Redstone Arsenal, 22 foreign students and interpreters toured the Marshall Space Flight Center and another group of six Germans

## Chemists To Meet In Tri-City Area

A tour of the Reynolds Metal Plant in Sheffield will precede the meeting Tuesday of the North Alabama Section of the American Institute of Chemical Engineers at the Downtowner Motel in Florence. The tour begins at 4:30 p.m. and the meeting at the Downtowner is scheduled at 6:30 p.m.

Alfred Smith, North Alabama representative to the National American Institute of Chemical Engineers, will talk about employment aids and continuing education services which the national organization provides for member engineers.

Engineer of the year will be elected to represent the section during National Engineers Week. Mrs. M. H. Larimer and R. M. Langley, both of Thiokol Chemical Corporation, are among the nominees. Mrs. Larimer is also taking reservations until noon Monday for the meeting. Her phone number is 876-9422.

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toured the arsenal with a stop at the NASA Orientation Center. German and French students also toured the Brown Engineering Company as part of an informational program to supplement classroom theory with personal experience.

## Col. Crossman Heads 2.75 Rocket Project

Gen. Frank S. Besson, Jr., Commanding General, U.S. Army Materiel Command (AMC), has announced the appointment of Col. Raymond S. Crossman as Project Manager for the 2.75" folding fin aircraft rocket. Col. Crossman, who is stationed at Dover, New Jersey, will report to the Commanding General, AMC through Commanding General, U.S. Army Munitions Command.

The 2.75" rocket system provides an air-to-ground rocket capability for U.S. Army, Air Force, and Navy aircraft, including helicopters. It consists of a warhead, solid-fuel rocket motor, and nose fuze. Two different fuzes are available depending on whether the

## At The Service Club

By Betty Hayes

Need a place to go these cold winter evenings! If you do, stop by the Service Club this week because we guarantee indoor activities which you will enjoy.

Today at 2 p.m. the Enlisted Men's Council will meet. Come with lots of ideas for future programs.

Where will our travels take us tonight? Be here at 7:30 p.m. for an adventure to an exciting and interesting place.

On Thursday evening you have the opportunity to show others that you are a master at that favorite game whether it is a card game or a small game. See you in the little lounge at 8 p.m.; a table will be reserved for you.

What will the contest be this week? The answer to this question is table tennis which will begin on

rocket is to be used on high or low speed aircraft. The rocket provides effective fragmentation, blast, demolition, smoke, fire and target marking capabilities to be utilized against personnel, parked aircraft, fuel tanks, radar equipment, etc.

Col. Crossman is a graduate of the University of Michigan. He was formerly Project Manager for Selected Ammunition.

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## Strikes Are A Premium For Civilian Bowlers

### PARADE OF STARS

**Supply Management League:** Fred Stewart, 577 (204), Jack Bailey, 572, Chris Leachman, 557, Tom Patterson, 555, Ed Lawson, 552 (202), Jim Tragler, 547.

**AMC League:** Bernie Robinson, 547 (212), Jerry Keagy, 538, Earl Hudgins, 537 (207), Jim Kyzer, 527, George Thurlow, 527.

**Redstone League:** Jim Gulley, 569 (214), Jim Stewart, 557, Jim McCormack, 548 (213), Al Marquis, 543, George Ratts, 528.

**Field Services League:** Ralph Porter, 580 (216), Harold Williams, 576, Carl Walker, 564 (204-200), Theron Sumner, 558 (226), Al Sarge, 557, Jim Haight, 556, Ralph Sturgill, 552, Mike Shuput, 540, Nick Sparks, 537.

Strikes were at a premium for civilian bowlers last week but the spares seem to be up to par. At least that is the way it looked from the scores that were turned in.

There were no Honor Roll totals posted and not too many scores that were in the high 500s. However, there were a considerable number of bowlers who ended in the low 500s indicating that the strikes were coming, one at a time rather than in clusters.

The top individual effort was put together by Ralph Porter who tossed a 580 in the Field Services League. Porter had a 216 along the way and that proved to be his lead over Fred Stewart who led the Supply Management League with a 577.

Elsewhere in the Field Services League Hal Williams turned in a 576 to lead the Chiefs to a 3 to 1 win over the Crackers. The win boosted the winners into the league's second position over the Crackers. The Guided Muscles held onto their lead, now four points, with a 3 to 1 win over the Baker Co.

The Brick and Tile team continued along their winning path with another clean sweep while the second place All-Sports Trophy team was dropping three.

Fred Stewart set the individual

pace with Jack Bailey close behind with 572.

Jim Gulley slackened a little from the pace he has been setting for the past several weeks but still led the Redstone League with 539, twelve sticks better than Jim Stewart could muster.

The pickings continued slim in the AMC loop where Bernie Robinson was able to lead the pack with a 547. It was enough to help the Maulers maintain their slim lead on the top spot, although the lead was reduced to a half point.

The Bombers continued their resurgence with a clean sweep over the Ramblers with four small 500s led by Gerry Keagy's 538. The second place crew had games of 1018 and 1004 and a series total of 2964 in dropping the slumping Ramblers.

## Rockets Lose Stars, Drop From Tournament

With four players who had been counted on for starting action unable to make the trip, the Redstone Rockets dropped out of the annual Third Army basketball tournament last week with two straight losses.

Coach Bill Hiser had a fairly strong starting aggregation all set to go for the tournament and was hoping to make a strong run for the championship in the B Division of the Ft. Rucker meet.

However, just before leaving for the south Alabama installation he found out that four of his starters would be unable to make the trip including Mike Stuart, his most prolific point maker, and H. C. Duncan, the team's best rebounder.

As a result the Rockets dropped an opening round game to the At-

## Upset Throws Unit Race Into Deadlock

For the third consecutive week the list of unbeaten teams in the Unit Level basketball league was reduced by one with the untimely upset last week of C Company by Fourth ETC.

The loss, following similar upset dealt out to the Military Police and the Officers in the two previous weeks, left the league without a clean record. The three leaders now start all over again with nine wins out of ten starts for each.

Hezekiah Thomas, Harvey Gregory and Dave Crawford played leading roles in the C Company loss that saw the Fourth team come from three points behind during the final minute of play, and hang up a 48-45 win.

The two schools quintets were all even at the half way point at 23 all. But C Company moved out with six straight points following the intermission and then matched the Fourth basket for basket until the closing seconds.

C Company led 45-42 with a minute left on the clock when Gregory hit with an 18-foot jumper. Crawford intercepted a pass 20 seconds still on the clock and drove in for a shot to put Fourth in the lead. Crawford was fouled seconds later and he converted both shots to close out the scoring.

Thomas led the scoring with 19 and Gregory hit for 16 more. Harvey Spencer and Rich Olson each tossed in 14 to lead C Company scoring.

The Officers made their only start of the week a winning one with a 53-36 win over Headquarters, STC. Bill Flynn accounted for 14 Officer points and Tom

Werth had the same total in the losing cause.

In a real old fashioned barn burner, the Support Command grabbed a 58-57 win over Second ETC in a double overtime encounter. In both the regular game and the first overtime, a tying basket was fired as the gun was sounded.

With the Support Command holding onto a 47-45 lead as the regulation time was ending Phil Northcutt cut loose with a two-handed set shot from out near the center and it stripped the nets sending the game into the first overtime.

The tide was turned as the first extra period was ending with the Second holding a 52-50 lead. This time it was Floyd Johnson's turn to be a hero and he tapped in a hurried Support Command shot to extend the game into another overtime.

Bob Seay took care of matters from there with a pair of driving

layouts and a foul shot to overcome a goal and two fouls by the Second. Johnson took scoring honors with 25 while Northcutt paced the Second with 16.

It was the second win of the week for the Support Command following a 51-47 win over First ETC. Johnson was the leader in this one too with 17 while John Tidd and Bill Barrett hit 12 apiece for the First.

The Medics were also two time winners for the week with a 43-31 win over the winless B Company crew, and a 62-21 waltz past Officers No. 2. John Brown set the scoring pace in the first game with 20 and H. C. Duncan tossed in 17 in the win over the Officers.

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## UNIT LEVEL BASKETBALL

### The Standings

	W	L
C Company	9	1
Military Police	9	1
Officers No. 1	9	1
MICOM	9	3
Medics	7	2
Support Command	7	6
Hqs. STC	6	6
Fourth ETC	5	7
Third ETC	5	8
First ETC	4	7
Officers No. 2	2	6
A Company	3	9
Second ETC	3	10
B Company	0	11

### Games This Week

Tonite: B Co vs. Off. No. 1, 1800  
First vs. Medics, 1900  
STC vs. MICOM, 2000  
Friday: Off. No. 2 vs. A Co., 1800  
Mps vs. C Co., 1900  
Monday: AMSC vs. MPs, 1800  
C Co. vs. Medics, 1900

### Leading Scorers

	G	Pts.
Mike Stuart, MPS	9	301
Bob Murphy, Officers	8	177
H. C. Duncan, Medics	8	156
Kim Carstensen, C.	9	151
Dick Waugh, MICOM	9	144
Bill Lenzi, Officers	9	142
Harvey Spencer, C	7	131

## CIVILIAN CAGERS PLAN FOR LEAGUE

Organized basketball activity may be resumed for civilian personnel at the Army next year if the hopes of an ambitious group of civilians meets with enough interest to push forward with present plans.

The group, spearheaded by Charley Williams, of the Finance and Accounting Center, have talked the possibility of an employee basketball league over with their

acquaintances and are convinced that the possibility has merit. They have even gone to the extent of lining up a gym in Huntsville for league games.

"There are plenty of former high school and college players on the Arsenal rolls," according to Williams, "and we believe that a number of them would welcome an opportunity to play in regular league competition."

The group spokesman said that if sufficient interest is indicated within the next couple of weeks, an organizational meeting will be called and time league officials

will be elected to carry on negotiations on an official basis.

Williams called on civilians who might have an interest in playing in an intramural league to call him at 876-6542.

## Boyer, Cooper Share A-B-C League Lead

Paul Boyer and Wiley Cooper shared top individual honors in the A-B-C Officers bowling league last week when each put together a 552 series total.

The former had a 202 game in leading the S Winners to a 3 to 1 win over the Hopefuls while the latter collected his set in a 3 to 1 win that the Wheezers scored over the Saturn V quintet.

The Wheezers used their win to vault into the league lead with the Lucky Strikes moving into second, a single point off the pace. The Hopefuls dropped to third, another point to the rear.

Lynn Kidd fired a 540 and Eric Mauerhoff came in with a 536 to go along with Boyer's 552 for the S Winners. Jim Bochnowski had a 540 for the Hopefuls.

The Wheezers toppled the league leading total when they accounted for 2775 maples. Tom Ellis had a 502 to augment Cooper's efforts while Trev Dumitru had a 539 and Bill Loomis a 517 for Saturn.

The Lucky Strikes scored the only sweep of the evening by taking all four from the Pin Splitters as Don Venderheyden collected 537 sticks and Ray DeBolt 511 more.

## He's Mr. 33957

James A. Lang of the Mechanical Section, Design and Review Branch of the Post Engineer went to the Provost Marshal for a decal on his new car.

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2,100.00	111.92
CASH YOU GET	25 MONTHLY PAYMENTS
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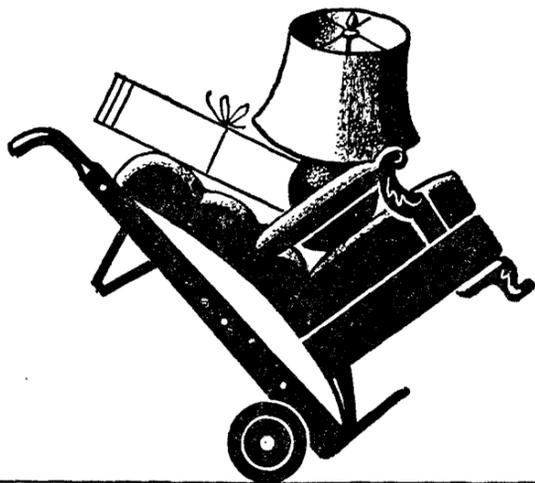
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200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Cash You Get	MONTHLY PAYMENT PLANS		
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\$500	\$46.81	\$24.73	
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1000	92.30	48.76	\$40.05
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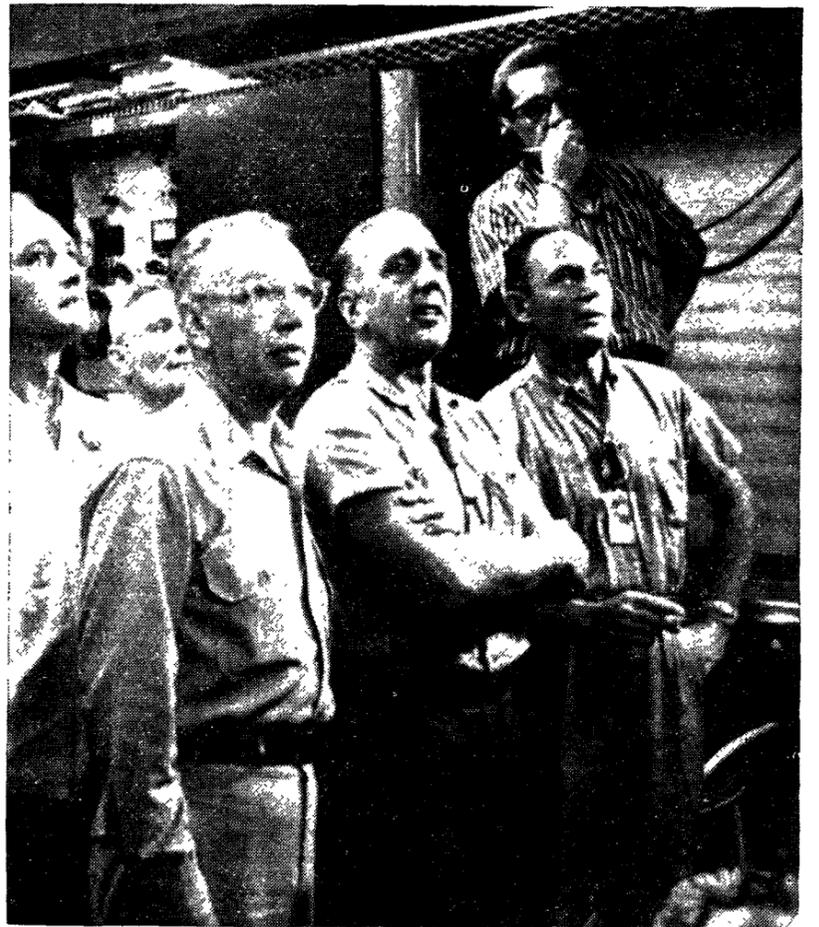
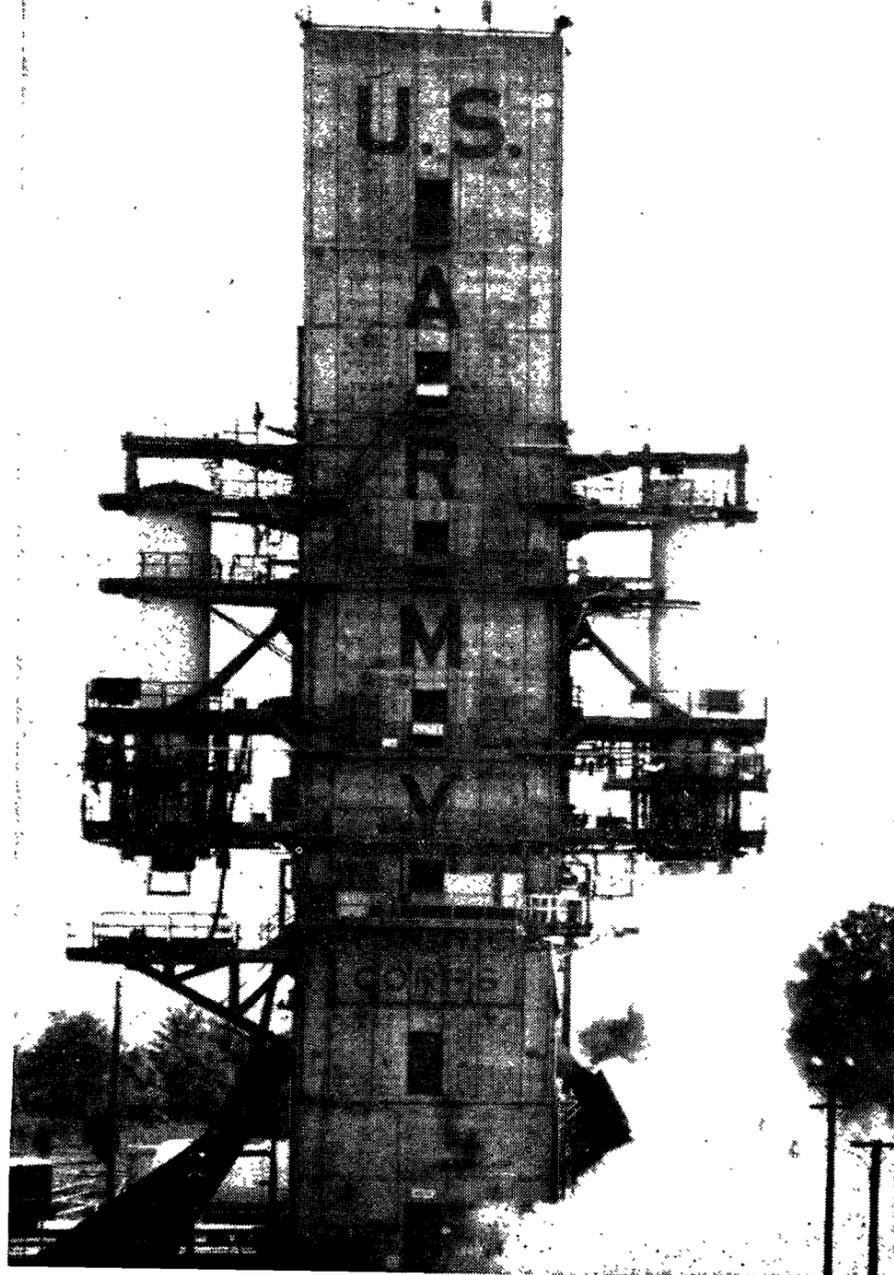
**OH FOR THE QUIET OF SPACE!**—Space-travelers Able and Baker probably yearned for the quiet of space in their first meeting with the press two days after they rode an ABMA Jupiter nose cone into space and returned alive in May 1959 to record history's first successful two-way space flight by primates.



**HOME ON THE RANGE**—Brig. Gen. John A. Barclay, ABMA Commander; Dr. Kurt Debus, director of ABMA's Missile Firing Laboratory at Cape Canaveral and Dr. Karl Sendler, his deputy, scan blockhouse instrumentation after a launch in 1958. ABMA's firing lab, sent originally to the Cape on TDY to fire Redstones, stayed on and eventually became the nucleus of the present day Kennedy Space Flight Center which Dr. Debus heads.



**TOPLESS JUPITERS**—Not many people saw a sight like this during ABMA's heyday. The configuration of Jupiter missile was still highly classified. Here one runs in a captive test in the right hand position of the test tower. The tower was described as the world's largest when it was completed in 1955. Both missiles are without their instrument sections and nose cones.



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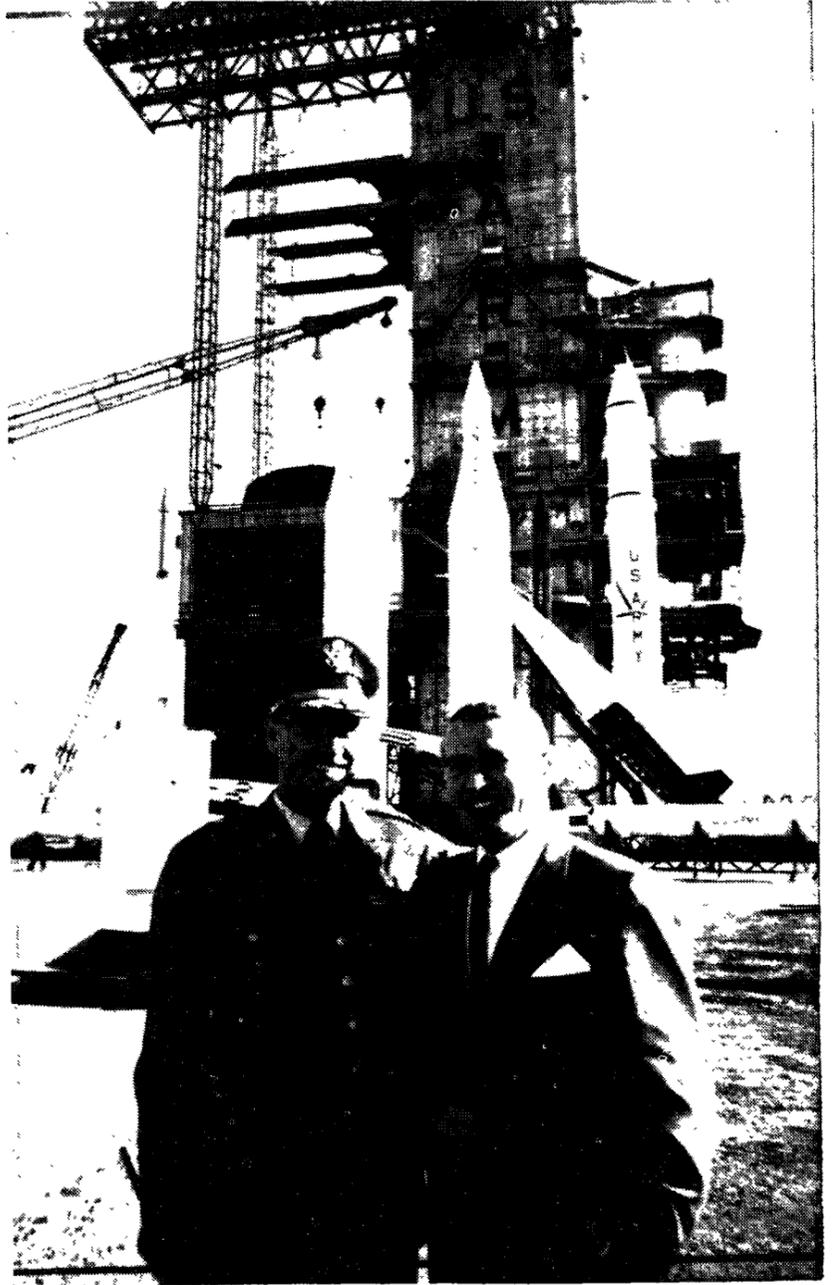
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# A Pictorial History Of The Army Ballistic Missile Agency



**THE FIRST JOB**—Fielding the Redstone ballistic missile was the first of two big jobs assigned to ABMA from the beginning. The second was to develop the 1,500-mile-range Jupiter IRBM. The Army's first Redstone battalion was formed here shortly after the ABMA activation.



**THE FIRST TEAM**—Major General John B. Medaris, first commanding general of the Army Ballistic Missile Agency, and Dr. Wernher von Braun, then chief of ABMA's Development Operations Division, formed a winning team. The photo was taken just prior to the general's retirement in January 1960.



**THE FIRST HEADQUARTERS**—Building 4488, original headquarters of ABMA, looks positively lonely in this early view. It has lots of company today as Rocket readers well know. The three-wing structure, built originally as a Redstone Arsenal labora-

tory, served ABMA as headquarters from 1956 until 1961, also housed MSFC headquarters briefly and is now home for MICOM Air Defense Systems and P&P Directorate.

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astronauts conferred  
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their first visit to  
arsenal. From left, Car-  
pard, Glenn, Schirra,  
Grissom, Shepard and  
er rode Mercury-Red-  
es on sub-orbital space  
ated in the rear are  
C. Holmes and Glenn



## 'Be Soldier First' Grads Are Told By Chadwick

"Be a soldier first and a technician second," were the words of advice given graduates of the U.S. Army Missile & Munitions Center & School Friday, Jan. 28, by Capt. Abraham F. Chadwick.

Perhaps this advice seemed strange to the 44 young men headed for various missile and ammunition jobs throughout the world, but Capt. Chadwick is well qualified to give it, having returned from Viet Nam only last year.

"Your unit commander expects you to perform your job as a technician to the best of your ability but in a combat situation such as Viet Nam, you must be a soldier first or you may not get the chance to use those skills," he explained. "There are no front lines in that type conflict and the individual soldier and unit must be able to protect itself."

Capt. Chadwick, chief of the Electronic Division, Missile Components Department of the Directorate of Individual Training, pointed out that the graduates had done an outstanding job to complete the difficult missile and munitions courses but that their basic training must not be forgotten.

He discussed an occasion in Viet Nam which emphasized the need for good defense by all units, even support organizations.

The honor graduates at the ceremony were headed by 1/Lt. A.

## Tech Writers Scheduling Meeting

A panel discussion of the organizations will be the program of the joint meeting of the Huntsville Chapter, Society of Technical Writers and Publishers and the Association of Technical Artists, Thursday, Feb. 10, at the Redstone Arsenal Officer's Open Mess.

The STWP panel members will be Miss Dolli Wiginton, GE-Apollo, and J. Dexter Nilsson, GE-Support. The ATA representatives will be Mrs. Mary Jane Hearn, Army Missile Command, and Robert A. Southerland, Blue Book, Inc. STWP is a professional organization including members from all the media of technical communication. ATA is a similar organization whose membership is limited to those persons concerned with the graphic presentation of technical information.

The meeting will be open to all whose employment is in the field of technical communications. Reservations are required. STWP and ATA members and other interested persons may call Mrs. Eleanor J. Werden at 876-0606 for further information.

## Movie Schedule

WEDNESDAY, Feb. 2  
"Mickey One" (M)  
THURSDAY-FRIDAY, Feb. 3-4  
"The Hallelujah Trail" (F)  
SATURDAY, Feb. 5  
"Billy The Kid vs. Dracula" (F)  
SUNDAY-MONDAY, Feb. 6-7  
"The Slender Thread" (M-YP)  
TUESDAY, Feb. 8  
"Moment to Moment" (M)  
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## New Radar May Be Added To Army Missile Defense

A new radar for "long range acquisition" may be added to the Army's Nike-X missile defense system, Col. I. O. Drewry, Nike-X Project Manager, revealed Wednesday night during a talk in Orlando, Fla.

Describing the radar as "the newest member of the Nike-X family," Col. Drewry said the radar would "give the system additional surveillance and even longer range tracking capabilities."

The new radar would complement the present Multi-function Array Radar (MAR) and Missile Site Radar (MSR) already under development as the eyes of the Nike-X system.

Col. Drewry said a contractor would be sought early this year to design and develop the new radar.

The present Nike-X radars are considered to be among the most advanced ever developed.

The Project Manager told of the new radar in a speech to the Orlando chapter of the American Institute of Aeronautics and Astronautics.

Some 200 persons engaged in missile and aircraft activities in the Orlando area attended the meeting.

Col. Drewry also told the group that Nike-X devotes a great deal of its research effort to "defining the intercontinental ballistic missile and submarine launched bal-

listic missile threat."

He said a recent threat analysis study filled 20 volumes.

The threat study included such things as examination of what types and sizes of missiles a potential enemy might use during an attack, under what political and economical conditions might an enemy attack, and what would an enemy's targets most likely be for missile attack.

## Yacht Club Schedules Meeting February 4

The Redstone Arsenal Yacht Club will hold its regular monthly meeting Friday, Feb. 4, at the Yacht Club meeting room in Building 3614.

Persons interested in joining the Yacht Club are invited to attend the meeting which starts at 7:30 p.m. Building 3614 is a warehouse just off Ajax Avenue.

Cuba, called the pearl of the Antilles, is largest of the West Indies.

### INSPECTOR GENERAL EXPECTED

The Inspector General of the Army, Maj. Gen. James A. Richardson III of Washington, will visit Army agencies at Redstone Arsenal tomorrow (Feb. 3). He will be followed on Feb. 11-18 at the Army Missile & Munitions Center & School by an inspector general group from the Continental Army Command who will conduct a technical proficiency inspection of the Center & School and an Adjutant's General inspection during the same period.

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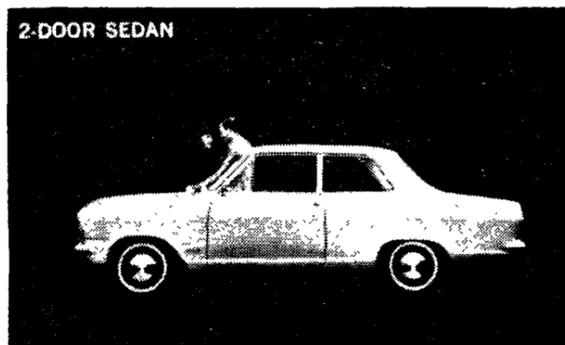


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# CONARC Celebrates Eleventh Birthday

The U.S. Continental Army Command Feb. 1 celebrated eleven years of activity as the Department of the Army's principal field agency operating within the continental United States.

It was on Feb. 1, 1955, that the Office, Chief of the Army Field Forces was redesignated Continental Army Command. An extension of the responsibility and command caused the old title to give way to the present more descriptive one.

The Office of the Secretary of the Army announced in mid-October, 1954, a new command to "provide for the more effective direction of the continental armies, to limit the number of commanders reporting directly to the Chief of Staff, and to permit operation of the six armies and the Military District of Washington as decentralized activities of the Department of the Army."

A descendent of General Headquarters, U.S. Army, the roots of USCONARC can be traced back to the years following World War I. GHQ, U.S. Army, was formed in 1940 as the nation prepared to enter World War II and was succeeded in 1942 by Army Ground Forces. The AGF headquarters

trained millions of men for the United States Army's worldwide operations. In all, 89 divisions were trained and organized, including five airborne, 16 armored, one cavalry, one mountain, and 66 infantry divisions.

Following World War II, Army Ground Forces was established as the command agency for Army elements within the United States and in 1948 AGF was redesignated Army Field Forces.

Then, in 1955, the U.S. Continental Army Command succeeded the latter with responsibility for the U.S. Continental Armies and the Military District of Washington.

Some of the Army's most colorful General officers have commanded the headquarters, now HQ, USCONARC. Among them are Lt. Gen. Lesley J. McNair, Lt. Gen. Ben Lear, Gen. Joseph W. Stillwell, Gen. Jacob L. Devers, Gen. Mark W. Clark, Gen. John R. Hodge, Gen. John E. Dahlquist, Gen. Willard G. Wyman, Gen.

Bruce C. Clark, Gen. Herbert B. Powell, Gen. John K. Waters, Gen. Hugh P. Harris, and Gen. Paul L. Freeman, Jr., the present commanding general.

In 1965 USCONARC deployed more than 100,000 men in Viet Nam and another 20,000 in the Dominican Republic.

Also in connection with directions from the Department of the Army to expand the Army's strength by 235,000, two new divisions and three new brigades were activated. A radically designed new division incorporating the airmobile concept, the 1st Cavalry Division, was activated, organized, trained and deployed to Viet Nam in less than four months.

Other activities included plans to activate the 9th Infantry Division, the establishment and opening of two new training centers, tripling of the Office Candidate program, and expansion of the command's nine training centers and 26 schools.

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## Shillelagh, Lance Launch Successfully

Two of the Army's newest battlefield missiles, Lance and Shillelagh, were fired successfully at White Sands Missile Range, N. M., Wednesday before an audience of high Army and Department of Defense officials.

Watching the firings—the first this year for both systems—were Thomas P. Cheatham, Office of the Secretary of Defense; Willis M. Hawkins, Assistant Secretary of the Army; Lt. Gen. William W. Dick, Chief of Army Research and Development; and Brig. Gen. Thomas P. Mueller, Deputy for Force Development.

Both missile systems are managed by the U.S. Army Missile Command. Col. W. E. Mehlinger is Project Manager for Lance and Lt. Col. Spencer R. Baen is Shillelagh Project Manager.

Lance is the Army's newest ballistic missile system. It can fire either nuclear or conventional warheads. The first Army missile to use pre-packaged, storable liquid propellant, Lance is planned as a divisional support weapon which will have substantially greater range and accuracy than the Honest John which it will replace.

Today's firing was conducted by the Lance prime contractor, LTV's Michigan Aerospace Division, with the support of Army personnel.

Shillelagh is a gun-launched guided missile system which is being developed for Army armored vehicles. Currently planned as the main armament for the General Sheridan armored reconnaissance airborne assault vehicle, the M60-A1E1 current main battle tank and the US-Federal Republic of Germany Main Battle Tank for the 1970s. Shillelagh's 152 mm gun-launcher can fire either missiles or conventional rounds of ammunition.

Aeronutronic Division of Philco Corporation is prime contractor for Shillelagh.

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# Three French Cats Live Among Art Treasures

Madame Pompadour, Madame DeBarry and their brother Monsieur Seine all live in luxury among treasures that a museum would be glad to add to its collection.

The three are Siamese cats belonging to Lt. Col. Esther M. Effengham. She acquired the family while on assignment with the Army in Paris, France.

Col. Effengham is a recent arrival at Redstone Arsenal where she is assigned the role of Chief, Military Personnel Div. in the Personnel and Training Office of the U.S. Army Missile Command.

She was among the early volunteers for the Women's Army Corps during World War II, leaving a fur-buying job for a big Chicago Department store to don a uniform. Since then she has served in the Far East and Europe as well as a number of posts and installations across the United States. Before the Missile Command, she was Secretary of Staff at the U.S. Tank Automotive Center in Detroit.

Col. Effengham claims the instincts of a Dutch housekeeper lead her into the exquisite collection of antique and modern items she has acquired from all corners of the world.

Among the items in her apartment are an archbishops chair out of a Spanish cathedral with the original tapestry embroidered approximately 300 years ago, the

busts of a Javanese goddess, the Chinese goddess of happiness, and a modern one of herself, sculpted by a friend.

Water jugs from India, bowls and statuettes from Japan, screens of inlaid mother-of-pearl, and one she made herself from travel posters, transportation tickets, menus and other mementoes of travel are among the myriad collection.

The colonel has worked copper, brass, bright pictures, pottery and bric a brac into a combination of gayety and comfort. With three Siamese cats chasing among the art items, any suggestion of austerity is dispelled despite the probably awesome history of some of the collection.

The items themselves also are testimonials to happy memories; a pair of silver fighting cocks from France, sparkling crystal in a bar built from a converted clothing chest, once housing lace jobbers and gloves fashioned by a friend in Spain.

The basic furniture is a mixture of old and new and even if Col. Effengham didn't have three live cats, she has two porcelain ones guarding the portals to the den and a cat caricature hanging on the kitchen wall. All of these are tones of amber. One of the brightest spots in the living room is a chinese scene framed in red with miniature oriental tools of brass and chests reflecting the same tones.

It's a colorful place and a lively one. Madame Dubarry and her sister are not liked at all by brother Siene. The colonel is in no danger of having three cats sitting on her at one time. If the sisters sit on her lap, Seine avoids her or bumps them away.

Col. Effengham's favorite corner is oriental. The assignment in Japan not only helped her collect the items for a den, but also earned her a Bronze Star Medal for the part she played with the Logistical Command which gave support to troops then fighting in Korea. The Army Commendation Medal was awarded her at the Presidio of San Francisco.



CONNOISSEUR AND COLLECTOR—Lt. Col. Esther M. Effengham, newly assigned at the U. S. Army Missile Command, sits in her 17th Century Archbishop's chair from a Spanish cathedral and talks to Madame Pompadour, one of her three Siamese cats. The Colonel is a collector of fine furniture, bric-a-brac and dishes of all periods. Her collection represents her travels on three continents.

The Redstone Rocket —  
Page 12 February 2, 1966

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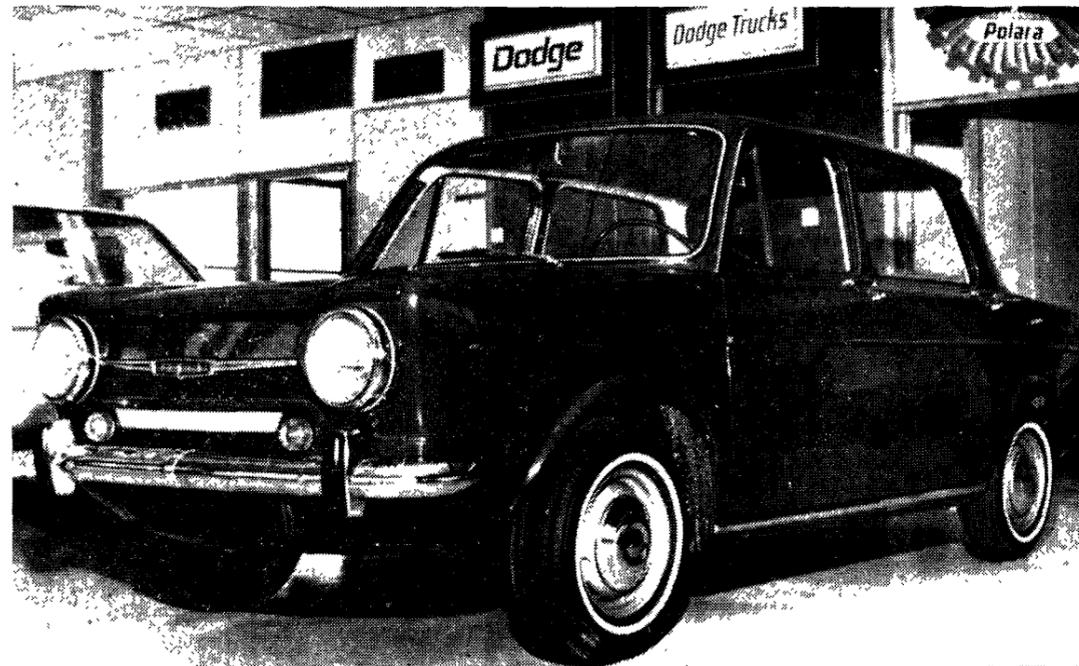
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Page 14 The Redstone Rocket — February 2, 1966

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# Arsenal Scientists Modify Plasma Jet Facility

A one-of-its-kind, 150-foot long, steel giant known as the plasma jet facility at the Army Missile Command is undergoing shake down tests this month and next following recent modifications that will make it a more powerful and effective means for testing model missile nose cones.

Scientists concerned with what happens when missile nose cones come hurtling back into the earth's atmosphere after a journey into space will soon have access to the services of this improved wind tunnel.

The Missile Command's plasma jet facility can automatically vary conditions during the tests according to pre-planned requirements to give more accurate data on what is actually experienced during re-entry. Other wind tunnels have fixed operating conditions that fail to give a true picture of what goes on during altitude changes.

The device is the result of long hours of hard work by a group of young and suave scientists and technicians in the Plasma Physics Branch of the Research and Development Physical Sciences Laboratory at Redstone.

Charles Cason, acting chief of

the Branch, recalls that Dr. T. A. Barr, the Branch chief who is now serving as Deputy Director of the Lab, first had the idea which grew into the \$1.5 million facility.

About half a million dollars worth of the equipment came out of salvage, Cason says, the rest of the money covers costs of hardware and engineering design time.

By combining the knowledge and skills of men in the Branch, the plasma jet has become progressively more advanced in its capabilities. The point has now been reached, where, in full operation the plasma jet will heat air using 18 million watts of electrical power, about one-fourth of the Guntersville Dam output!

The plasma jet is now run by compressed air passed through a nozzle and heated to temperatures as hot as the sun as it goes by an electric arc. The arc unit was designed by Robert Mayo, one of the lab physicists who recently was awarded a patent on it. Dr. J. F. Perkins and John Ehrlich were involved in early calculations on the nozzle design.

Among others making major contributions to the development are: Dr. Loren Dickerson, who solved the automatic control system problem; Ray Brandt, who planned the intricate start-up system with its safety controls and data acquisition equipment; Billie Rogers and Herb Ruge, who fabricated many components and installed the circuits required for operation; and Jim Seibert, who sees that the control system and

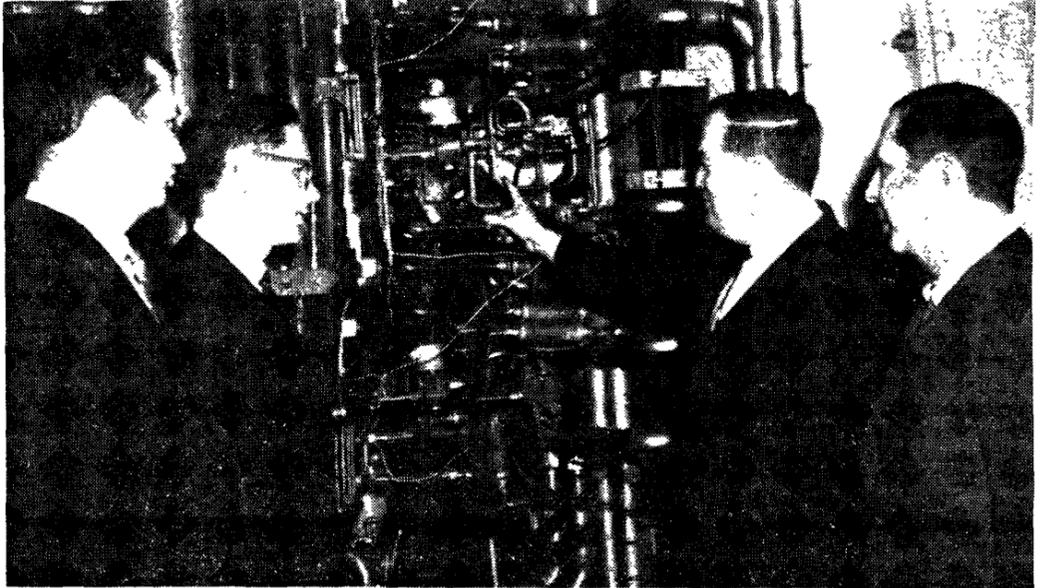
analog computing equipment work.

Cason mentioned that he designed means for making flow field measurements.

The test nose cones are two feet long, and a typical test is over in about 12 seconds. During a test, the nose cone goes through two

orders of magnitude of electrical power and gas flow rate, simulating an altitude flight change from 300,000 to 150,000 feet. Many of the mysteries of what

happens upon flaming re-entry into the earth's atmosphere may be mysteries no longer when full advantages of the plasma jet are realized in the near future.



**DESIGNED TO ANSWER SOME MISSILE PROBLEMS**—This business end of the Army Missile Command plasma jet facility has recently been modified and refined to handle complicated problems about re-entry of missile nose cones into the earth's atmosphere. The 150-foot long steel wind tunnel is the brainchild of scientists and technicians in the Plasma Physics Branch of the Research and Development Physical Sciences Laboratory. Some of those leading in the development are: left to right, Charles Cason, Acting Branch Chief; Dr. T. A. Barr, acting Deputy Director of the Laboratory; Robert Mayo, designer of the arc unit; and Dr. Loren Dickerson who solved the control system problem for the space age device.

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## Lt. Col. C. C. Anderson Retires After 20 Years

Lt. Col. Claude C. Anderson, Chief of the Program Management Office in the Shillelagh Project Office, has retired from military service at the U.S. Army Missile Command.

His retirement last week came after 20 years of active duty, nearly six of which were spent at Redstone Arsenal.

James Spencer, Chief of the Pershing Program Management Office, has been named to take over the Shillelagh post.

Prior to joining Shillelagh in October, 1964, Col. Anderson was Commodity Manager of the Honest John/Littlejohn/Redstone Commodity Office. He had served at the Missile Command since 1959 with the exception of a short tour in Korea in 1963.

A native of Gulfport, Miss., Col. Anderson entered the Army as an enlisted man in 1941. He attended the Ordnance Officer's Candidate School at Aberdeen Proving Ground, Md., and received his commission in 1942.

He served a tour in Europe in 1952 where he was assigned to Ordnance Division, Headquarters, USAREUR, located at Heidelberg, Germany. Returning to the states in 1955, Col. Anderson put in a three year tour at Rock Island Arsenal, Ill.

He returned to Europe in 1958 for a year with the Joint U. S. Military Mission for Aid to Turkey and in July, 1959, was assigned to Redstone Arsenal for the first time with duty at the Ordnance Guided Missile School. He had been at Redstone since then except for a tour in Korea in 1963 where he was a Logistics Advisor to the U.S. Army Advisory Group.

Col. and Mrs. Anderson tentatively plan to stay on in the Huntsville area. They have two daughters, Cheryl Susan and Mary Kay and they live at 3213 Blue Crest Street.



Lt. COL. C. C. ANDERSON

## Credit Union Holds Annual Meeting Here

The Redstone Federal Credit Union met Jan. 27 at the Morris Auditorium to give the annual report to the members and elect three new members of the board of directors. Six of the incumbents' terms have not expired.

Approximately 150 members turned out for the meeting. Elected for three year terms on the board of directors were: Col. Eugene J. McGinnis, Paul Bungard and H. B. Carpenter.

The membership heard that the total assets are now in excess of \$16 million and the membership has grown to 28,000. The assets grew about \$3.4 million last year and the Credit Union did a \$15 million loan business in 1965. The annual 5 per cent dividend was announced at the end of the calendar year.

December 1, 1956 — Army announced it was inactivating its last combat mule unit, and replacing it with a helicopter unit.

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1960 VW SEDAN Thoroughly reconditioned. New paint. **\$795.00**

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- Donlon, Roger H. — Outpost of Freedom.
- Douglas, William Orville — A Wilderness Bill of Rights.
- Dulles, Foster Rhea — Yankees and Samurai.
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- Wilder, Raymond Louis — Introduction to the Foundations of Mathematics.

### FICTION

- Coxe, George Harmon — The Reluctant Heiress.
- Creasey, John — Gideon's Badge.
- Epstein, Seymour — A Penny for Charity.
- Fisher, Vardis — Mountain Man.
- Gordon, Noah — The Rabbi.
- Gray, Tony — Starting from Tomorrow.