

# Army Uses Met Rockets For Weather Probes

Even if they can't do anything to change it, Army missilemen know they can learn more about the weather by launching small rockets to probe the earth's upper atmosphere.

They also know that hurling rockets into space creates a problem of falling mass hazard, created when spent portions of the rocket fall back to earth. Because of this, weather or meteorology rockets now can be fired only on large national ranges.

But the U. S. Army Missile Command's Small Rockets Branch is

experimenting with rockets that could be fired anywhere, thus allowing researchers and meteorologists to obtain more general coverage of the earth's atmosphere.

Working jointly with NASA (Langley Field, Va.), the Army is exploring two solutions—rocket motors that will destruct themselves after separation from the instrument payload; and motors that will consume themselves by burning.

Under contracts administered by the propulsion laboratory of the Missile Command's Research and

Development Directorate, Thiokol Chemical Corporation and AMCEL Corporation have recorded what is believed to be two rocket firsts. Thiokol developed and fired a paper rocket motor which was fragmented by explosives, and AMCEL built and static fired several nitrocellulose filament wound motors.

Results of early tests show the combustible theory to be especially promising, the Army said. It would work like this:

The rocket, well insulated to prevent ignition of the airframe

during the motor burn phase, would be launched in a near vertical trajectory. After burnout, the rocket coasts to apogee (its highest point) and deploys a payload into the upper atmosphere. The airframe is then ignited by a time-delay initiator and the rocket components burn before reaching airplane altitude. The instrument payload descends by parachute.

Why use rockets?

Because rockets can study a belt, about 20 miles to 100 miles high, which heretofore has been inaccessible—too high for balloon sup-

ported instruments to reach and too low for satellites to explore. This region, meteorologists think, may contain forces which regulate the world's climate and weather.

Another advantage is that rockets can be launched to a particular area to study some transient phenomenon which could not have been predicted. Satellites, for example, are beyond such control. And, of course, rockets can obtain measurements in a fraction of the time required for balloon flights at lower altitudes.

(See ARMY USES on Page 3)

## Arsenal-Wide

## Spot News

Dial 112

# The Redstone Rocket

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NO. XIV; NO. 35

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 19, 1966

## \$41 Million Goes For Pershing

The Army today announced award of a \$41,093,332 contract to the Martin Company, Orlando, Fla., for an improvement program to the Pershing missile system. The contract will be incrementally funded over a 3 year period with the current increment funded at \$3.9 million.

Martin is prime contractor for the Pershing. Work will be performed at the company's Orlando plant.

Under the improvement program—which is known as Pershing 1A—rate of fire and reliability of the "shoot and scoot" missile will be increased. Major system improvements will be centered in a new programmer test station—which is a mobile missile fire control center—and a new erector-launcher. There is no change in the missile itself.

Pershing is managed from the U.S. Army Missile Command, Col. Edwin I. Donley is Project Manager.

## Fire Distribution, Coordination Meet Scheduled Jan. 25

The second worldwide meeting of representatives for Army Fire Distribution and Fire Control is scheduled at Redstone Arsenal Jan. 25-26-27 with the U.S. Air Defense Fire Distribution System at the U.S. Army Missile Command as host.

The meeting will open in the Rocket Auditorium with a welcome by Brig. Gen. Clarence C. Harvey, Jr., Deputy Commanding General for Air Defense Systems at the Missile Command.

The Air Defense Fire Distribution Systems Office is headed by Col. Morris W. Pettit.

Approximately 125 officers and civilians are expected to attend, as representatives of all theaters of the world.

The program will include resumes of current programs by the Combat Development Command and the Missile Command followed by presentations of proposed programs to fulfill Army needs. The Department of the Army called the conference to develop long range air defense control and coordination plans.

Lt. Col. Leslie Nicholson, Chief of the Systems Support Division of the ADFDSO, will be the project officer for the meeting.



**REDSTONE FOR THE SENATOR**—Alabama Senator John J. Sparkman (left) receives a scale model of our famed Redstone missile from Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command at Redstone. Sparkman, visiting in his hometown of Huntsville last week, called on Gen. Zierdt in his office to receive a brief rundown on weapons programs being managed by the Army from Redstone Arsenal. The Senator said he had taken part in various activities of Redstone Arsenal for 25 years but did not have a model of "Old Reliable," the free world's first ballistic missile bearing the name of the arsenal where it was developed.

## HIBEX Booster Tests End On Preplanned Maneuvers

The Advanced Research Projects Agency has announced the conclusion of its HiBEX test program with the firing of a high-acceleration experimental missile booster at White Sands Missile Range, New Mexico.

The firing, an above ground launch, was the final in a series of HiBEX (High-g Boost Experiment) tests sponsored by ARPA as part of its Project Defender Program, a study of ballistic missile defense systems.

ARPA officials said all test objectives of the HiBEX program were met.

In the final launch, the HiBEX booster was fired in a vertical trajectory from above ground, then responded in flight to pre-planned maneuvers. In some of the earlier flights, the vehicle was fired from an underground cell.

HiBEX was not planned as a weapon system, the Army said, but was an experimental program to study problems connected with the boost phase of a high-acceleration interceptor missile. Some of (See HIBEX on Page 3)

## Alabama Civilian Aide Schedules Center Visit

The Civilian Aide to the Secretary of the Army for Alabama, Hon. L. Drew Redden, of Birmingham, will pay his first official visit to the Army Missile & Munitions Center & School here tomorrow and Friday to inspect facilities and address a large class of international graduates.

Accompanied by Mrs. Redden, he will arrive here tomorrow afternoon and be guest of honor at a dinner tendered at the Officers Club by Col. Erwin M. Graham, Jr., Missile & Munitions Center commandant, members of the staff and faculty and civic leaders. Honored at the affair also will be Maj. Gen. and Mrs. F. T. Unger. Gen. Unger is deputy chief of staff for individual training of the Continental Army Command at Fort Monroe, Va.

Redden was named to the Alabama Civilian Aide position, which holds three-star rank, last year by Army Secretary Stanley R. Resor to climax a long period of active and reserve duty.

Born at Tallassee, Ala. in 1922 he earned the degree of B. A. and LLB from the University of Alabama. (See ALABAMA on Page 3)

## 'Old Reliable' Still Is After Salt Baths

The Army's famed Redstone missile has demonstrated how it got the nickname "Old Reliable."

Brought out of retirement, a modified Redstone recently was launched successfully from the Pacific Missile Range after nearly two months of exposure to severe storms and salt spray from the Pacific Ocean.

The missile was one of several Redstones reactivated last June by Chrysler Corporation's Missile Division under contract to the U. S. Army Missile Command. The modification and launch program is sponsored by the Advanced Research Projects Agency as part of Project Defender, a series of investigations in ballistic missile defense.

"The launch was postponed several times because of bad weather along the west coast," said H. F. McKinney, Chrysler Missile Division general manager. "During this waiting period, the missile was located about 75 yards from the ocean and was exposed to severe weather conditions, including (See REDSTONE on Page 3)

## Rohm And Haas Receives Contract

The U. S. Army Missile Command has announced the award of a \$850,000 contract to Rohm and Haas Co., Redstone Arsenal Research Division, for continuation of a solid propellant technology program.

The work will be done at the company's Redstone Arsenal plant, and will cover a 12 month period.

The Missile Command Procurement Directorate, headed by Col. B. A. Saholsky, negotiated and executed the contract award.



**THEY WORK WHILE YOU SLEEP**—The night people keep things running at the Army Missile Command and other Army units at Redstone Arsenal during the long, dark hours while the rest relax from the day's duties and refresh themselves with sleep. For some of the things that keep right on, and some of the people who keep them going see page 8.

# 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-136, Extension 376-1400 or 376-1500.

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## Rocket Ruminations

A promise made is a debt unpaid.  
—Robert Service

## Old Soldiers Never Die

Even with the benefit of 15 years hindsight, it seems doubtful that anyone could have chosen a better missile to carry the name of Redstone Arsenal than our old reliable Redstone. For those who may have missed the pertinent details, here's the latest chapter on the doings of the DC-3 of the missile age:

As part of an Advanced Research Projects Agency program, a once-retired Redstone was recently refurbished and modified for a new role. The missile was one of several veterans of long years of hard knocks in service with the Seventh Army in Europe, honorably discharged when replaced by the Pershing several years ago.

After almost two months of exposure to salt spray and severe storms at a launch site about 75 yards from the Pacific Ocean, it was fired. No one who knows anything about Redstone's history should have been surprised, but just for the record, the old veteran performed perfectly.

They don't hardly build that kind no more.

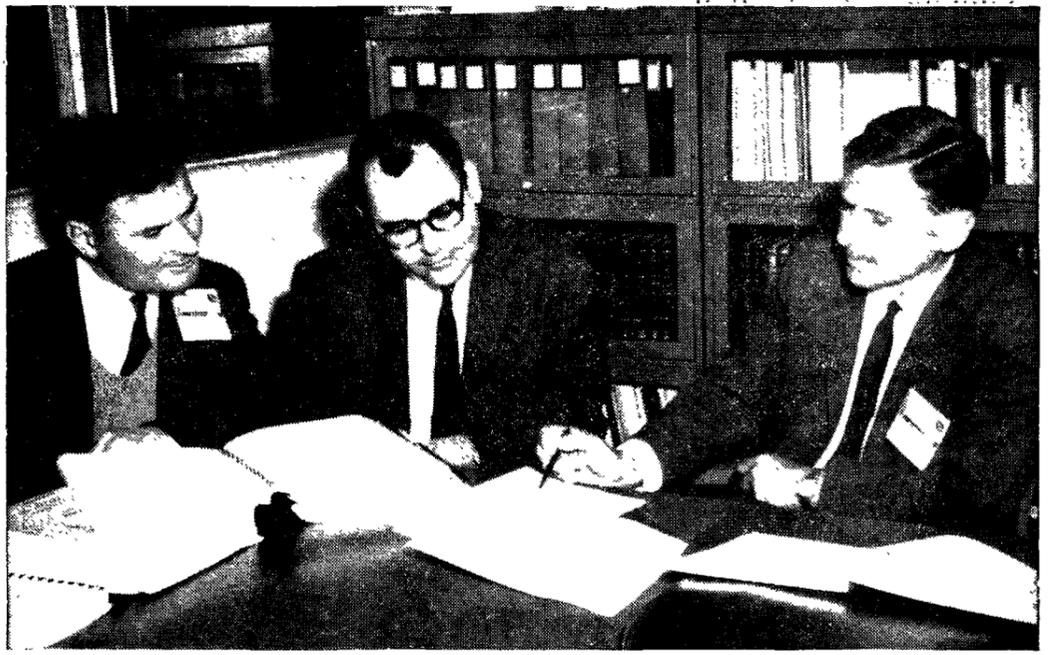
## Spoiled Record?

Long weekends and long trips during the holidays took their toll in accidental deaths, and some at Redstone were among the statistics that Safety people compile on death and injury.

However, with the beginning of a New Year, Safety is again working to keep their charts 100 per cent free of accidents at the Missile Command.

The attention of everyone working at the installation, whether he be Government or contractor connected, has been invited again to a letter that the Commanding General of the Missile Command wrote at the beginning of the fiscal year. He is appealing to everyone to accept the challenge of zero accidents on the record in 1966.

The first part of the year, the record was marred. But with the second half of the year coming up and the time of resolutions and new determinations, shiny as a newly-minted coin, it's just possible that the people at the Missile Command will have a gleaming, golden zero to show in 1966.



**RADAR TALK**—Alfred Y. Harper (center) of the U.S. Army Missile Command discusses activities in radar with Australians who recently visited Redstone Arsenal. At left is Cyril T. Carson and at right is Lester B. Soden, both of the Weapons Research Establishment, Australian Department of Supply. Harper is chief of the Altair Office (ARPA Long Range Tracking and Instrumentation Radar).

### NOW HE KNOWS!!

Concord, Mass. (AFPS) — How many quills does a porcupine have? wanted to know and to get the answer he took a dead porcupine and spent eight hours pulling out the quills—one at a time.

His rather pointed answer was: 18,100.

Feb. 14, 1903—Congress established a General Staff Corps and provided for a Chief of Staff.

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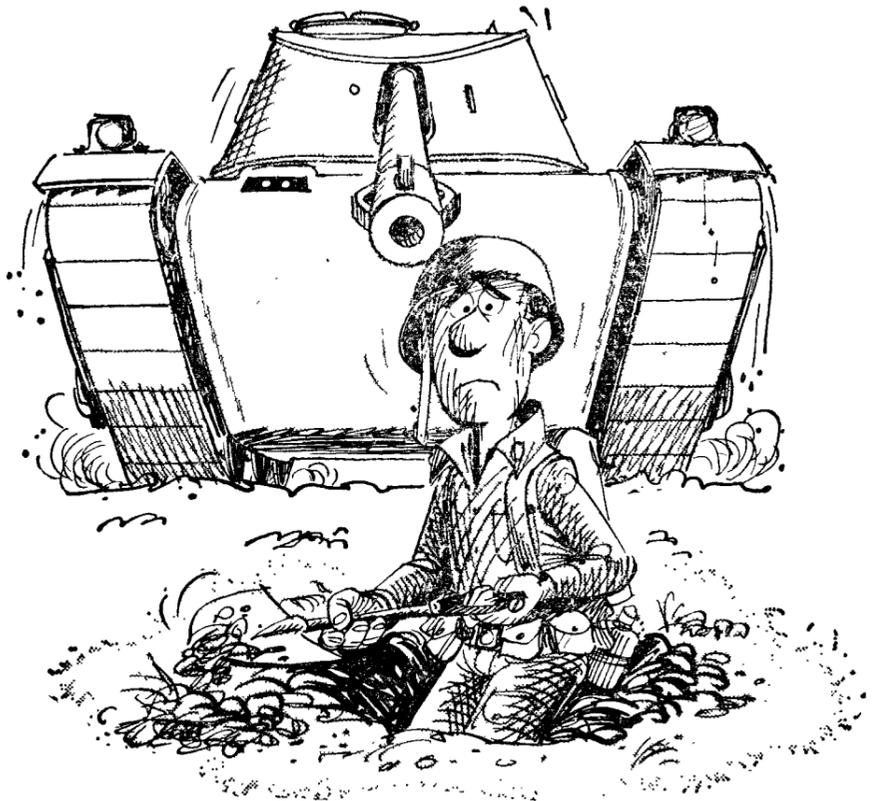
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### ARMY USES

(Continued From Page 1)

Rockets capable of exploring the desired altitudes vary in length and diameter, depending on the mission. But the most commonly used, for economical reasons, is about seven feet long and five inches in diameter. These rockets deploy instruments to study wind velocity, temperature and density as well as such conditions as ion density, chemical composition, radiation and magnetic flux.

High altitude winds are being studied to determine the interaction of stratospheric and tropospheric conditions; temperature readings reveal energy exchanges between levels of high atmosphere and density measurements help resolve differences between the wind and temperature patterns.

From this data, meteorologists can study upper atmospheric conditions as they would affect vehicles passing through this area. While the Small Rockets Branch program will result in met rockets to meet specific Army requirements, it also will be an important tool to the civilian population.

Larry N. Nicaastro directs the Small Rockets Branch of the Missile Command's Research and Development Directorate. James F. Howison heads the falling mass hazard program.

### HIBEX

(Continued From Page 1)

the program objectives were:

—To demonstrate the feasibility of a high acceleration booster and the ability to guide and control a high performance vehicle while undergoing trajectory maneuvers.

—To prove the feasibility of igniting, burning and launching a booster from an underground, hardened silo.

—To institute turning maneuvers to demonstrate structural integrity of both the vehicle and propellant.

The U.S. Army Missile Command, managed the HiBEX program for ARPA, an agency of the Department of Defense. Boeing Company, Seattle, Wash., was prime contractor and Hercules Powder Company was propulsion subcontractor.

### ALABAMA

(Continued From Page 1)

bama. He is a member of Phi Beta Kappa. He entered the Army in 1943 as an enlisted man and was commissioned second lieutenant in Artillery later that year. He served in the European, African and Middle East Theater and in the Pacific Theater until 1946.

Active in the reserve program since, he is currently Assistant School Commandant of the 87th Maneuver Area of the IV Corps and is enrolled in the Command and General Staff College extension course.

A partner in the law firm of Rogers, Howard, Redden and Mills of Birmingham, Mr. Redden also serves on the panel of arbitration of the Federal Mediation and Conciliation Service under appointment by the Secretary of Labor.

He was the Assistant U. S. District Attorney for Northern Alabama from 1949 to 1952 and has served as president of the Birmingham Reserve Officers Association and of the Heart of Dixie Chapter of the Association of the U. S. Army. He has also headed the alumni of the University of Alabama Law School and has been secretary of the Birmingham Bar Association.

At a ceremony to be held at 10 a.m. Friday morning in the Post Theater, Mr. Redden will speak to 167 missile maintenance graduates from Germany, Japan and the U. S. A.

Feb. 8, 1918—First number of THE STARS AND STRIPES, service newspaper of the AEF, was issued in Paris.

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## Technical Writers, Artists Plan Sixth Annual Seminar

The Huntsville Chapter of the Society of Technical Writers and Publishers, assisted by the Association of Technical Artists, will hold the Sixth Annual Seminar and Technical Art Show on April 1 and 2 at the Morris Auditorium. George C. Marshall Space Flight Center.

Open to all artists and illustrators of technical information, entries for the Art Show may be submitted after Feb. 23 and must be received no later than Mar. 9 to: STWP Technical Art Show, Civic Arts Center, 311 West Clinton, Huntsville, Ala. 35801. Inquiries pertaining to rules may be directed to: Mrs. Mary Jane Hearn, Technical Art Show Chairman, 513 Four Mile Post Road, Huntsville, Ala. 35802.

Entries will be limited to individuals (no entries by companies) and an entry fee of \$1 per piece of art is required.

Nationally recognized judges

Feb. 9, 1870—The weather service was established as part of the Army Signal Service. AMC today carries on this pioneering tradition through its meteorological studies to give support to ground forces.

will determine the winners. The Seminar will include eight feature speakers, all of whom are recognized in some phase of technical communications or publications.

### Redstone Recreation Is Offering Conversation Courses In Languages

The Redstone Recreation Association is offering conversational courses in French, Spanish, and elementary and intermediate German.

The French is offered at 7 p.m. on Mondays, Spanish at 7 p.m. on Tuesdays, Elementary German on Thursdays and intermediate German on Wednesdays from 8-10 p.m.

In addition, Mrs. Tanna Robinson is conducting a class in creative writing.

Classes are held at the Sunday School Annex of the St. Marks Lutheran Church at Longwood and Franklin Streets.

Information about enrollment may be obtained by the interested by calling 539-4009. The fee for the courses is nominal.

### Voters To Have Chance To Expand Classrooms

Huntsville voters will have the opportunity January 25 to approve sale of bonds for construction of new school buildings and additions to existing schools without new or additional taxes.

The bonds will be paid for by an existing five mill tax levied for school buildings only. The law requires an election for permission to sell these bonds.

According to D. Edward Starnes, Jr., President of Huntsville City Council of P-TA's, a city-wide building program would be financed by the \$3.5 million from the bond issue and \$1.5 million in available state funds, adding 178 classrooms to the city system.

This construction would include the replacement of Rison School, a new school at West End and new construction at Council High School. Also included would be gymnasiums for the high schools and approximately \$500,000 in matching funds for a Vocational Technical High School to serve the entire city.

The City Board of Education report shows that at the present time there are 4,600 students housed in 143 makeshift or portable classrooms. There are 638 classes that have between 30 and

### REDSTONE

(Continued From Page 1)

salt spray. Yet, when we got a break in the weather, we were able to erect and launch the missile with no difficulty."

It was the first launch of a Redstone since November 1963 when Army troops conducted the final in a series of 25 Redstone training flights at White Sands Missile Range, N.M.

Redstone was selected for use in Project Defender because of its proven reliability, mobility and flexibility which permits adaptation to the Army, ARPA mission with a minimum cost and reaction time.

The Chrysler-built Redstones have chalked up an overall performance record of 95 percent successful flights. Modified Redstones were used to place the free world's first satellite (Explorer I) into orbit and to boost our first two astronauts on sub-orbital flights.

The Missile Command is managing the Redstone launch program for ARPA, an agency of the Department of Defense.

35 students each; 222 classes between 35 and 40 students each; 60 classes that have 40 students or more.

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

## NCO Wives Plan To Install New Officers January 29

The Redstone Arsenal Non-Commissioned Officers Wives Club has elected new officers for the coming year who will be installed at a dinner-dance starting at 7 p.m. Jan. 29 in the NCO Open Mess. Col. Thomas W. Cooke, Commander, Army Missile Support Command, will be the installing officer.

Reservations for the event should be made not later than Jan. 20 by calling Mrs. J. R. Huff, 536-9755 or Mrs. H. W. Decker, 534-5486.

The recently elected officers are: Mrs. Edwin Gedling, president; Mrs. L. L. Schultheisz, first vice president; Mrs. William S. Kyle, second vice president; Mrs. Allen Davis, secretary; Mrs. Phillip

Burch, treasurer; and Mrs. Cooke, honorary president.

New club members are Mrs. E. H. Beck, Mrs. R. V. Bullock, Mrs. D. H. Reynolds, Mrs. J. H. Heishman, Mrs. Ellis Green, Mrs. Monroe Herkey, Mrs. Henry Reichel, Mrs. Kenneth Jenkins, Mrs. Richard Rust, Mrs. Odette Vergara, Mrs. Horace Jackson, Mrs. Earl Tillage and Mrs. James Girt.

## Newcomers, Departing Officers To Be Honored

Newly arrived officers and those about to transfer to new assignments elsewhere will be honored at a reception at the Redstone Officers Open Mess next Wednesday between 5 and 7 p.m.

Host for this quarterly event is the Supply and Maintenance Directorate of the Army Missile Command.

Those honored will include people who arrived during October, November and December and those departing during January, February and March.

### SAVE TO MEET

The Society of American Value Engineers will meet at the Officers Open Mess at 6:30 p.m., tomorrow night to hear Stephen J. Kabala, Regional Director of cargo sales for Transworld Airlines talk about how air freight can reduce costs.

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## At The Service Club

By Betty Hayes

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The Service Club Activities are getting back to normal after the holiday leaves, the enlisted men are getting back into the swing, especially, on Sunday nights at the dances; and the Staff has settled down for a long cold winter. The Service Club is just the place to while away those long winter nights—shooting pool—strumming a guitar—playing ping pong—watching your favorite TV program or playing bridge.

Speaking of bridge, we have free instructions every Tuesday night starting at 7 p.m., so if you have always wanted to learn to play bridge this is the place. The invitation is extended to all the married men and their wives. Another program to remember are our movies every Wednesday night; they start at 7:30 p.m. and are shown in the TV room. The Post Wide Pool Tournament starts tomorrow night at 7 p.m. The winner will receive a beautiful pool trophy—this is a chance to prove you are a real "shark".

Saturday night Betty will be putting on the "feed-bag" for all you men in the big lounge—This is Betty's chance to prove she is a good cook—Dinner will be served at six o'clock sharp. Better not be late or you'll miss out on some real "goodies".

Jack Clevenger will be spinning records this coming Sunday night—I understand the girls really go for his selections in records—so keep the girls happy Jack.

Monday night is game night with action beginning at 8 p.m.

If any of you men are interested in acting, directing, stage work or building props, see me at the Service Club. The Fantasy Playhouse could sure use some help—and your talents might be right down their alley. I'd like to get a show together for next month for the Service Club. How 'bout a little help recruiting some talent for a variety show. There is probably a lot around if we can just up-root it—Come on over and give us a helping hand. I'll be seeing you at the Service Club, Molly—

## AFGE SCHEDULES ANNUAL BANQUET

Jack Olmsted, deputy director of Civilian Personnel for the Department of the Army, and John Griner, national president of the American Federation of Government Employees, will be among the guests at the annual banquet of Lodge 1858 at the Ft. Raymond Jones Armory Jan. 28.

The event begins at 6:30 p.m. Both Olmsted and Griner are scheduled to speak. The speeches will be limited to one hour. The balance of the evening will be reserved for dancing.

Tickets will be sold at the door to those who are unable to secure them in advance. The public is invited.

## Reserve Chapter To Hear National President Speak

The National President of the Reserve Officers Association of the United States will be guest speaker Jan. 21 at a dinner meeting of the Huntsville ROA Chapter.

Brig. Gen. Donald S. Dawson (AF-Res) will speak on the "Role of Reserves In Today's World Affairs." The meeting will start at 6:30 p.m. at Redstone Arsenal Officers Open Mess.

Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, and Maj. Gen. W. A. Cunningham, Commanding General of the IV U.S. Army Corps, Birmingham, have been invited as special guests for the meeting.

Gen. Dawson is the Senior Partner of a law firm in Washington, D.C.

Prior to assuming the presidency of the Reserve Officers Association, he served as National ROA Vice President for Air Force, and was on the Air Reserve Policy Board of the Air Force Association. His World War II military service was with Headquarters,

Air Transport Command. Gen. Dawson holds a BS degree from the University of Missouri and LLB degree from George Washington University.

He has been Assistant to the Federal Loan Administrator and served as Special Executive Assistant to the President of the United States from 1947-53.

This will be a dinner meeting. Tickets are: \$3.25 for steak or seafood. For reservations, call Mr. Klima, 876-0267; Mr. Potter, 536-9355; or Mr. Edgar, 876-2918.

## Bridge On Monday

Seven tables of players competed at the Monday Bridge session at the Redstone Officers Open Mess.

Mrs. O. W. Wilson, Charles McBrearty and Leonard Flank were winner and second and third respectively.

Reservations are handled by Mrs. Thomas Lynch and Mrs. Peter Kostoff. Play is open to members of the Open Mess and their families.

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**INDUSTRIALISTS VISIT REDSTONE**—The founder and the president of one of the nation's largest furniture manufacturing firms visited Redstone Arsenal last week and toured the Army Missile Display Area. They are Clyde H. Harris, founder of Harris Pine Mills, and Charles H. Nagele, president of the firm. They were accompanied on the tour by Elder A. V. Pinkney, right, president of Oakwood College. Shown here are (left to right) William Jasper, Special Assistant to the Commanding Officer of the Missile Support Command for Equal Employment Opportunity; Harris, Nagele, and Elder Pinkney. Harris and Nagele were in Huntsville to visit Oakwood College.

## SAME TO HEAR ABOUT VIETNAM

The Society of American Military Engineers will meet at 6:30 p.m. tomorrow night at the Redstone Officers Open Mess.

Lt. Col. John C. Maxwell, former Deputy Engineer for U.S. Army Support in Vietnam and a combat veteran of Korea will be the guest speaker. His talk will cover engi-

neer activities in Vietnam. Col. Maxwell is a graduate from the U.S. Military Academy with a Master's degree in civil engineering from Princeton University.

Feb. 24, 1949—The U. S. Army was the first to penetrate outer space. A composite 2-stage rocket fired 24 February 1949 at White Sands Missile Range, New Mexico, reached an altitude of 259 miles, a record not equalled for eight

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• The first enlisted WACs to serve in the Army's Alaskan Command will report for duty in January at the direct request of the Commanding General there. Numbering between 20 and 25, the WACs will be assigned to clerical, administrative, and medical jobs. (ANF)

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# SPORTS

## Sarge, and Gully Hit Honor Roll, Others Just Miss

### PARADE OF STARS

**Redstone League:** Jim Gulley, 605 (224), Walt Jackson 563 (205), Norm Key, 546 (223), Jim Stewart, 547, Jim Denk, 547, Bobby Dunn, 542.

**AMC League:** Tom Patterson, 596 (233), Walt Heflin, 593 (222), Bob Taylor, 545, Ray Bates, 542, Jack West, 537, Woody Rush, 536.

**Supply Management League:** Bob Wright, 576 (219), Fred Stewart, 572 (203), Tom Patterson, 565, Mel Tack, 564, Joe Hill, 554 (222), Art Calsoni, 552, Bob Hollman, 548, Billy Tippins, 548, Wes Gibson, 540.

After several near misses, Al Sarge finally caught up with a 600 total last week and used it to grab Bowler-of-the-Week honors among the Arsenal's civilian bowling brigade.

Rolling for the Expeditors in the Field Services League, Sarge opened with a 231, dropped to 189 in the middle and then ended a 626 effort with a 206.

He needed just about every one of them too, because Jim Gulley was hot on his heels until catching an 8-10 split in the final frame of his third game. The open frame cut the husky fire baller to 194 and a final 605 count.

The pace set by Sarge was enough to boost the Expeditors to a clean sweep over the Satellites. The Guided Muscles didn't have an individual performance to compare with Sarge, but they were just as effective in their match with the Crackers.

The latter started the evening in first place, and ended a notch lower with the Musclemen moving into the throne room.

The lead also changed hands in the Redstone League where the Valley Cleaners scored a sweep

over the Wee Fives to take a half point lead over the Six Shooters, three out of four winners.

The Shooters got a 563 from Walt Jackson and a 547 from Jim Stewart, but it wasn't enough to stave off the loss of a single point and the lead.

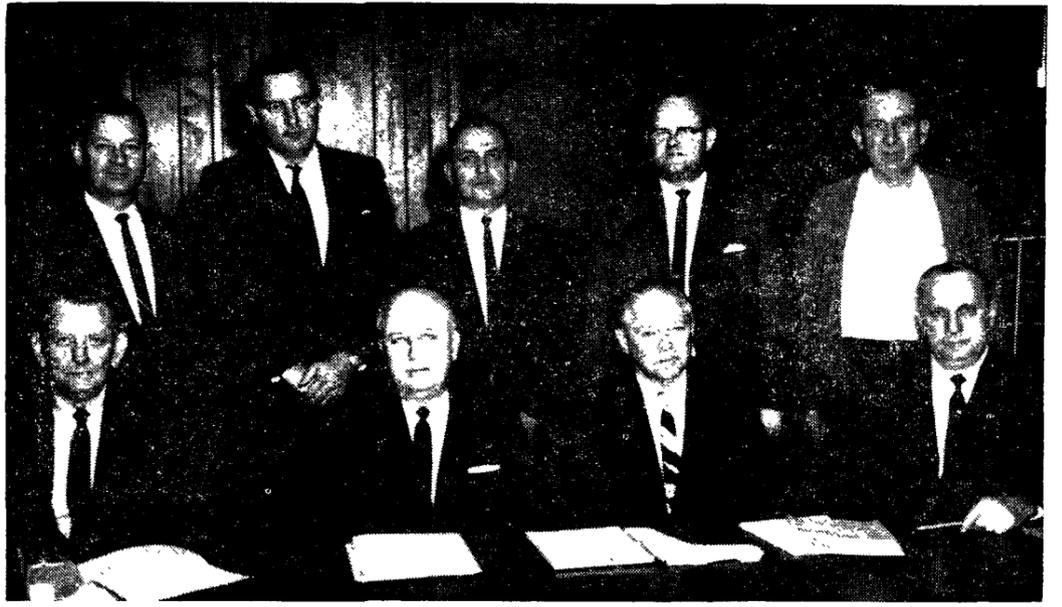
Two more near misses were put together in the AMC League with Tom Patterson topped the league for the second straight week with a 596 and Walt Haflin fired a 593 total.

Another 8-10 split ruined Patterson's hopes for an Honor Roll count. He took a three bagger into the tenth frame of the final game only to catch the railroad that cut him to a 233.

His lead boosted the Ramblers to a sweep over the Lancers and a 2990 team total.

Heflin also came on strong at the end with a 222 in his third game in leading the Bombers to a 3 to 1 win over the Alley Cats.

The Supply Management League had a rather slow evening, one of the few this year in which at least



**ACTIVE SEASON PLANNED**—Members of the Civilian Welfare Fund Council are pictured as they convened for the opening meeting of the new year. The nine-member Council laid plans for the coming year placing strong emphasis on completing improvements to the Civilian Recreation Area. Several projects that had been suggested by employees were placed on a priority basis for completion during the coming months. The Councilmen are front row, left to right: Michael Foster, secretary, Abner McNaron, chairman, J. F. Neeley, vice-chairman, and R. L. Reynolds, funds custodian. Back Row; Leonard Twinem, C. D. Havens, R. L. Mood, Charles Cornelison and Leon Towery.

### TOURNEY OPENS

## Rockets Seek Winning Formula

Winners of only one game in four starts; the Redstone Rockets hope to get on the winning track next week when they head for Ft. Rucker to participate in the annual Third Army basketball tournament opening on Monday.

Two of the losses and the win were posted last week as the Rockets were the unhappy witnesses to one of the most phenomenal shooting exhibitions ever put on at the Post Gym.

The exhibition was put on by the Florence Cleaners in a 113-103 overtime win over the Rockets. Earlier in the week the post team dropped a 92-86 nod to the Huntsville Net Burners and handed the 926th Engineers a 77-59 setback.

The Saturday night encounter one Honor Roll total was not recorded.

Bob Wright fired a 219 and a 576 total for the Satellites to lead the league with Fred Stewart only four pins off the pace.

The front running Brick and Tile team ran into the same Tom Patterson and were shutout by the Chicken Hawks. Patterson turned in a 565 this time and his mates helped the cause along with a 3013 total.

The loss knocked three points off the Tilers imposing lead which is now six and a half points over the All-Sport Trophy team. The latter quintet followed the lead of Joe Hill to a 3 to 1 win over the Top Cats.

Hill, the league's leading average bowler, turned in a 554. and Bob Hollman added 548 more sticks to the cause.

the Florence team cashed in a free throw on a technical foul as the regulation game ended in a 91-91 tie. The visitors at this time were down to four players after two of their men had fouled out.

The handicap was not enough to stop Ricky Lindsay, however, as he personally accounted for 17 points during the five minute overtime. His five goals and seven free throws was too much for the Rockets.

The Cleaners had taken a 54-35 half time lead only to see the Rockets come back after the intermission and actually take the lead with 30 seconds left on the clock.

Lindsay ended the evening with 42 points and Tony Haid added 25 more. Six of the Rockets ended in double figures with Mike Stuart setting the pace with 35.

Two nights earlier the Rockets rallied in the second half to chalk up their win. The lead changed hands ten times in the first half with the post team in front, 34-31, at the half way point.

Mike Stuart tosses in 32 of the Redstone points and Charley Winstatt accounted for 12 more. Les McPeters collected 30 for the Engineers before fouling out midway in the final period and Fred Tate added 20 more.

The Monday night game saw the Huntsville Net Burners prove to be just that in handing the Rockets a 92-86 loss. The visitors hit on 57 per cent of the shots from the field and canned 30 of 33 attempts from the charity stripe.

Trailing by nine at the half, the Rockets came back in the third

period to catch the down towners, only to fall back to a 63-65 deficit to start the final period.

Harvey Holland led the Net Burners with 27 points, Ivan Warden tossed in 25 and Ron Jones connected for 20. Stuart was the Rocket leader with 34, H. C. Duncan collected 15, and Bob Murphy and Floyd Johnson each hit for ten.

### Roller Upset Gives Black Jacks Chance

Taking advantage of a golden opportunity, the Black Jacks moved to within a point and a half of the MMCS Officers Bowling league last week.

The Jacks toppled 2751 maples and made them stand up for a sweep over the Squirrel Hill Mob while the league leading Rocket Rollers were being handed a 3 to 1 setback by the Bad Gnu.

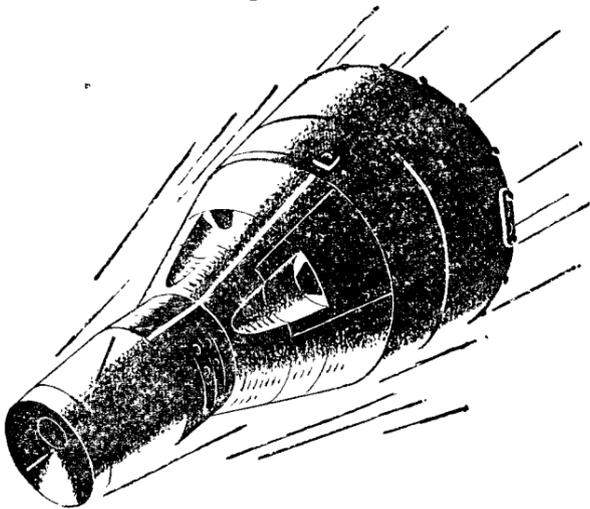
In other matches the Rounders won three of four points from the Missilemen and the Satellites captured the same winning margin against F Troop.

George Earle and Orrin Butterfield set the pace for the Black Jacks in their winning effort with 564 and 548 respectively. Linn Grubbs added a 501 as the Jacks went over 900 in each of the games.

Bob Reddick made his initial appearance for the Mob and tossed a 517 and Bob Leonard added a 507.

Bob Percy put together a 556 set for the Rounders and Walt Seip toppled 509 sticks for F Troop.

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\$ 50	\$ 9.23	\$ 5.02		
75	13.81	7.53	\$ 5.45	
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200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

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	12 paymts	24 paymts	30 paymts
\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

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# MICOM Halts Officers Unbeaten String, 55-52

C Company stands alone at the top of the Unit Level Basketball League after one of the unbeaten teams went down to defeat for the first time last week.

The week before the Military Police fell off the pace with a defeat to the Officers, and last week it was the latter's turn in a stunning upset to the fast rising MICOM quintet.

The Officers fell behind early in the game and were never able to make up the deficit and fell out of the elite circle with a 55-52 loss. It was their first loss after seven straight wins.

C Company meanwhile rolled on with a 75-20 thrashing of Officers No. 2, and the Police got back on the winning track with a 93-35 shellacking of A Company.

Joe Shenck was the top gunner in the MICOM attack with 20 points, and Dick Waugh added 16 more. The winners played a slow, methodical game trying to work the ball in for the easy lay up, and time after time Shenck or Waugh

was able to work clear under the basket.

MICOM built up a 35-25 half time lead as the Officers were unable to get untracked during the early stages. The second half was even slower as MICOM was content to pass the ball around and let the Officers come out after it.

Bob Murphy was the only Officer able to hit with any consistency and he ended the game with 25 points. Bill Lenzi collected 15.

Harvey Spencer hit the nets for 29 points and Vern Bonlander tossed in 20 more as C Company tore the Officers No. 2 team apart. The score was 44-15 at the half.

The MPs encountered about as much trouble in racing to a 93-35 win over A Company. Mike Stuart connected for 38 and Jerry Gonsorek tossed in 21 more. Ron Loose accounted for 12 of the A Company points.

MICOM continued their recovery with a 40-21 win over Officers No. 2, and another team on the way back, the Support Command, won a pair.

The Support Command hung a 45-29 setback on A Company and then turned in a 27-23 win over B Company. The final game on the card saw First ETC take a 38-34 win over B Company.

## Rex Javins Sets New Season High With 645

Rex Javins was almost a one-man gang last week as the Lucky Strikes handed the Black Jacks a 3 to 1 lacing in the feature match of the A-B-C Officers Bowling League session last week.

Javins started out with a 201, then really warmed up with a 241 and ended his work with a 203 for a 645 count, the best that has been thrown in the league this year.

The win boosted the Strikers into a three way tie for second with the Wheezers and the Hopefuls, a point behind the Saturn V team.

The leaders made it two sweeps in a row with the Stump Knockers as their victims this time as Carl Bayer tossed a 226 game and a 509 series.

The Wheezers also scored a

sweep at the expense of the S Wonnors while the Hopefuls were taking a 3-1 win from the Pin Splitters.

George Adams put together a 541, Bob Braid tossed a 534 and Tom Wilkerson added a 529 as the Wheezers rolled a 2835 total for their win. Lin Kidd fired a 526 and Eric Mauerhoff had a pin less for the S Wonnors.

The Hopefuls took their lead

from Otto Thomasett who included a 245 game in his 552 series.

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## Unit Level Basketball

### How They Stand

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

### Games This Week

Tonite: Fourth vs MICOM, 1800.  
First vs. A. Co., 1900.  
STC vs. Off. 2, 2000.  
Friday: Second vs. Third, 1800.  
Monday: B Co. vs. Medics, 1800.  
Third vs. Off. 2, 1900.  
Off. 1 vs. STC, 2000.

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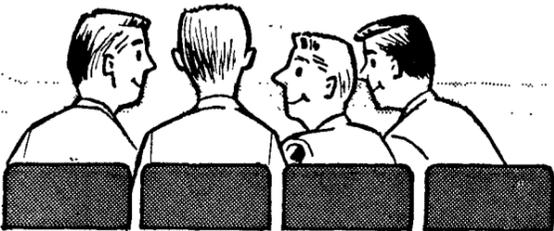
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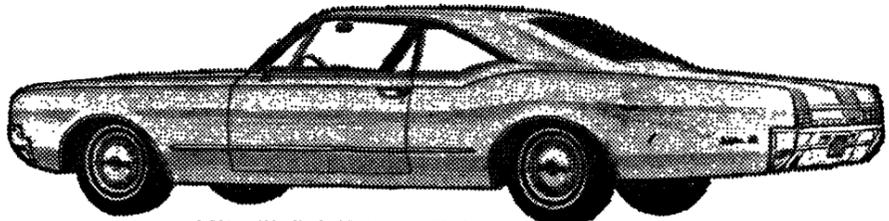
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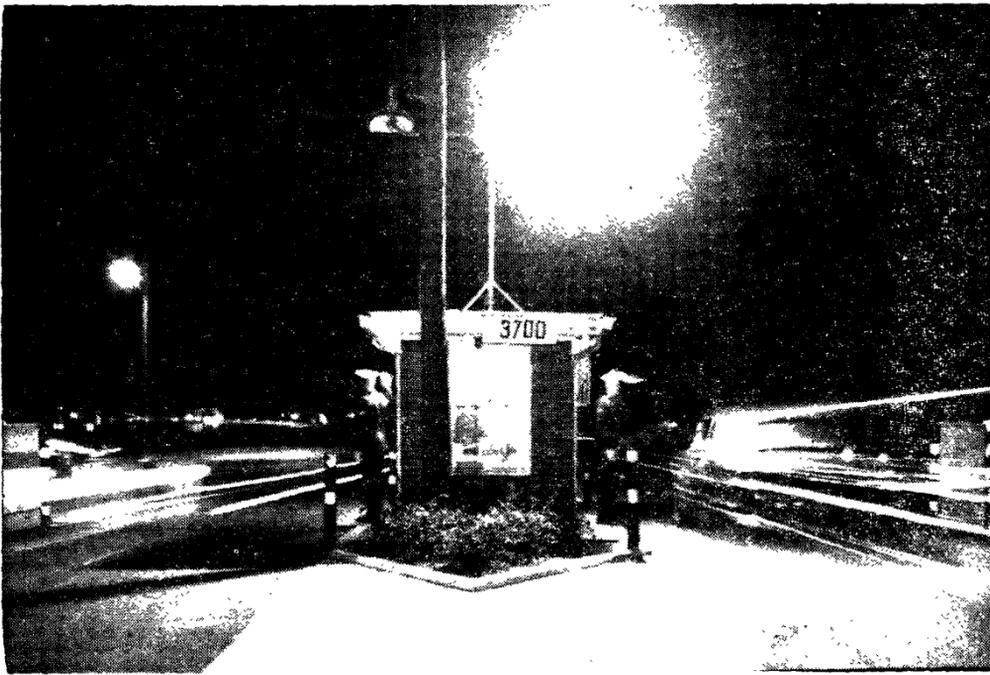
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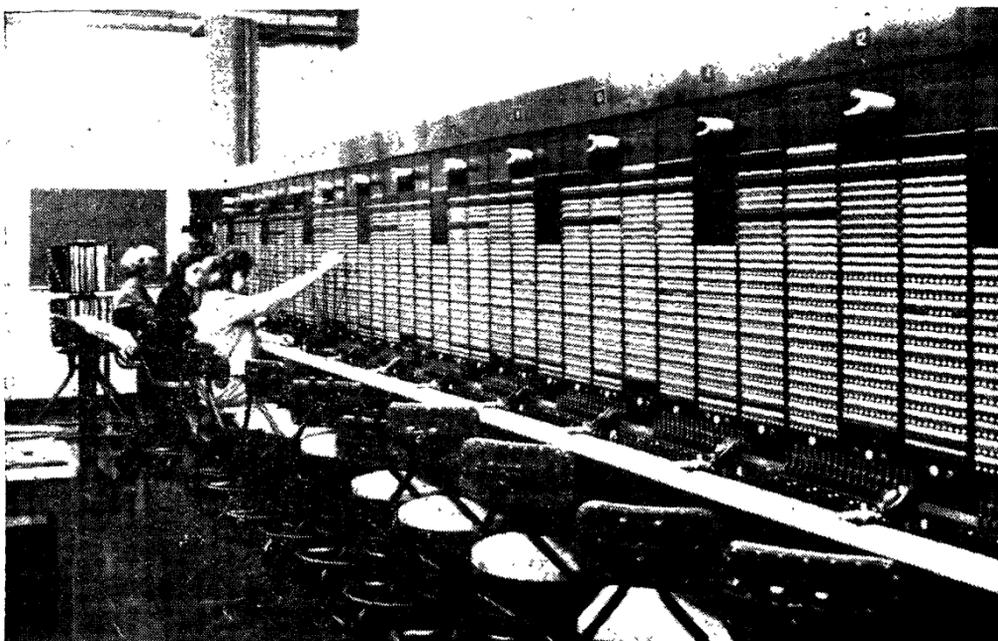
534-5201



**GATE PATROL**—The men who man the perimeter gates to Redstone Arsenal brave any sort of weather and Sunday night was mighty brisk as traffic buzzed in and out during the early hours of the night. At left is Pvt. John E. Smialek, of the 291st Military Police Company, and his partner on the opposite side is PFC Gerald M. Smith. A pair of guards are at the gate 24 hours a day.



**SOMEWHERE IT'S DAYTIME**—Communications go on 24 hours a day and the clocks in the "Comm Center" are reference for the men and women who operate the teletype communication among missilemen around the globe. Those working on earth's darkside know that men on light side are on a regular instead of a nighttime schedule. Operators are on the staff of the Army Missile Support Command's Assistant for Communications. At the machines are (left to right) PFC Benny L. McClamrock, Caroline Garnett and Betty Meadows. Like Military Policemen and others, the shifts rotate among the people.



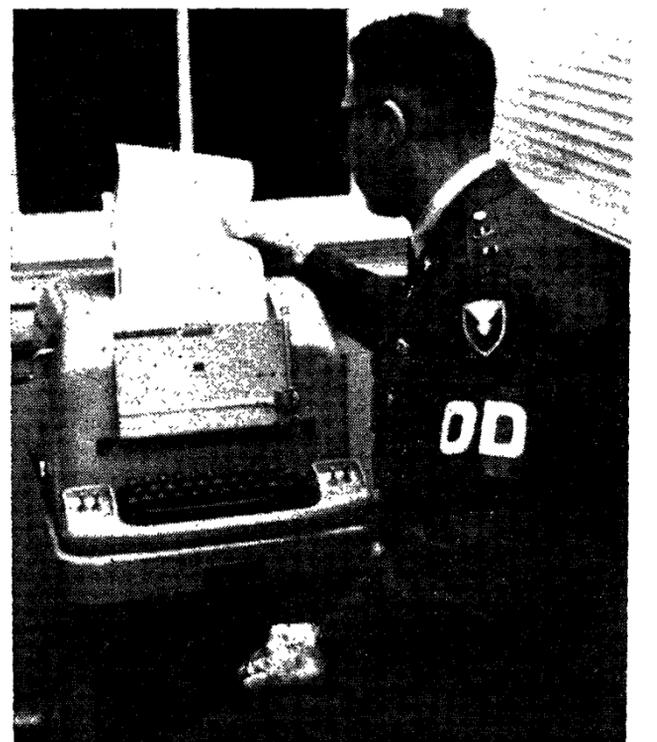
**EMPTY PLACES**—On the 22-woman switchboard in the telephone exchange at Redstone Arsenal, only three operators are needed at night to keep telephone traffic moving. Daytime, all the boards are buzzing, but sometimes there are no switchboard calls to break the monotony at night. At the board are (left to right) Marge Haley, supervisor; Carolyn Warren and Marianne Dunn. Like most night people, they keep the coffee pot hot.



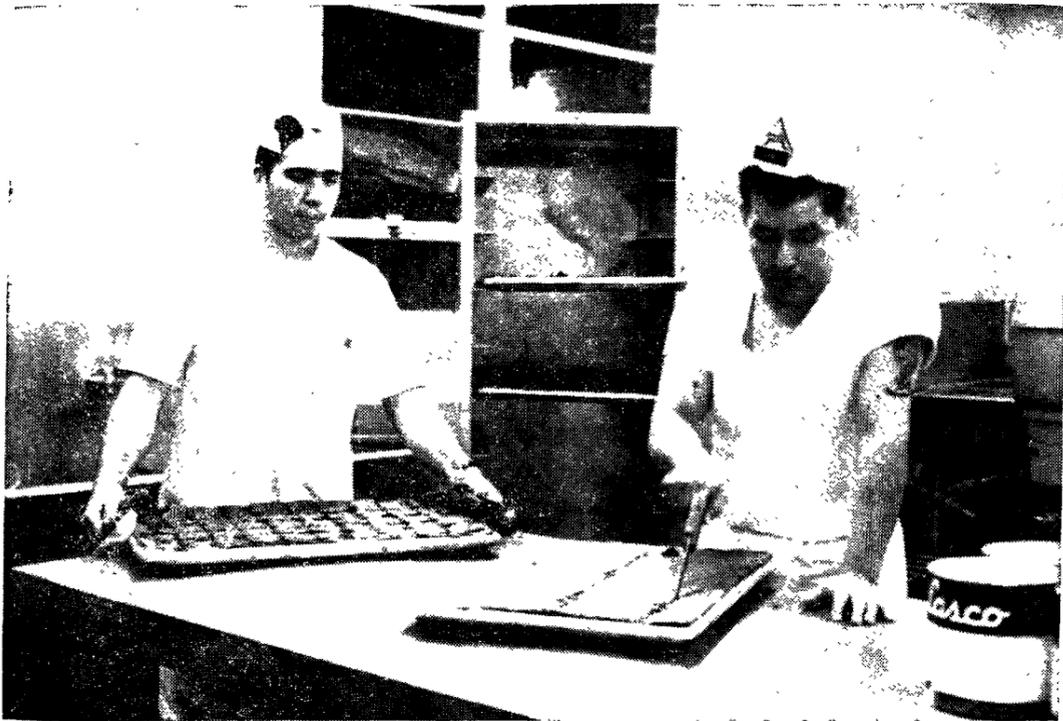
**ON THE DESK**—Meanwhile the men who direct the night time activities of the Military Police stay alert around the clock to (Left to right): The desk sergeant talking on the phone is S/SG Al Lujan. Locating a patrol on the map is SP5 Roland Brook. The clerk is PFC David Cooper. Out of sight but on the job, a radio operator who stays in touch with the men in the radio equipped patrol cars.



**LOCATOR**—The Staff Duty NCO, SFC Robert Williams, studies the personnel locator file. He, like the Officer of the Day, must be prepared for handling emergencies from unexpected arrivals in need of a billet to communications for individuals that cannot be delayed until normal duty hours but need delivery immediately. These men work hand-in-glove with the Military Police, the Security Guards, the Communications personnel, and emergency trouble shooters such as the utilities men in the Post Engine Division.



**WEATHER WATCH**—Among his duties the Officer of the Day W. L. Anthony, keeps a close check on the weather to prevent the disaster of unpreparedness in case of sudden storms or weather phenomena. The OD's post is in Headquarters of U. S. Army Missile Support Command. The night-long vigil is shared by a staff duty NCO. OD's at Redstone Arsenal no longer wear a pistol.



**COOKS CUT COOKIES**—To move an Army, or even a segment of it, the cooks work almost 'round the clock to produce meals for day people and night people. SP4 Grady Beck (left) gets ready to store a pan of brownies that will appear at lunch tomorrow while PFC Fernando Cano cuts a brownie sheet into the familiar squares in Missie Support Command Headquarters Detachment Messhall

• Temporary promotion of second lieutenants and warrant officers, W-1, may now be handled by field commanders without referring recommendations to Department of the Army, according to newly published AR 624-100. The regulation covers officers enroute to a new assignment or assigned to a student or medical holding detachment. Security clearance procedures have also been simplified and provisions made for promoting individuals who are missing, captured, or detained as a result of hostile action. (ANF)

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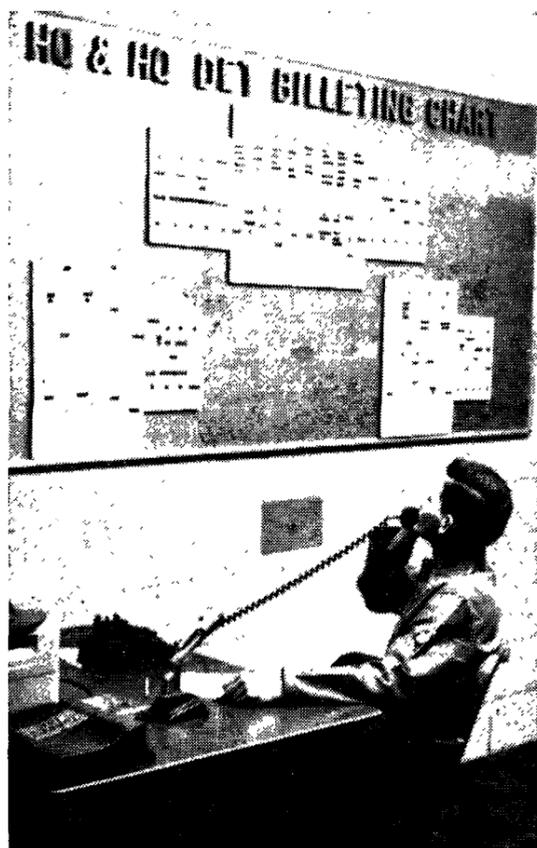
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January 6, 1776 — Oldest present day Regular Army unit was authorized: 1st Field Artillery Battalion, 5th Artillery, constituted as Alexander Hamilton's Provincial Company of Artillery of the Colony of New York.



**LONELY VIGIL**—Toward morning the Charge-of-Quarters is probably the loneliest man on post. The detachment is asleep for the most part, the phone doesn't ring as it does early in the evening, and even a good book doesn't push the thought of sleep aside. Early evening is a busy time as SP5 Marvin McCullough checks the room chart to locate a member of his detachment for a caller.



**NIGHT GAME**—Civilian drivers at the Post Motor Pool on the night shift relax during a midnight lunch break. Against the window in a checker game are Avery O. Norman (left) and Joe R. Coleman. Looking on (left) is L. D. Johnson. J. C. Jackson reads the paper. The military drivers from the VIP motor pool usually wait in the barracks when they are driving people from such places as the Goddard House to the Officers Open Mess where most of them have dinner. The driver returns for his passenger when he is called.

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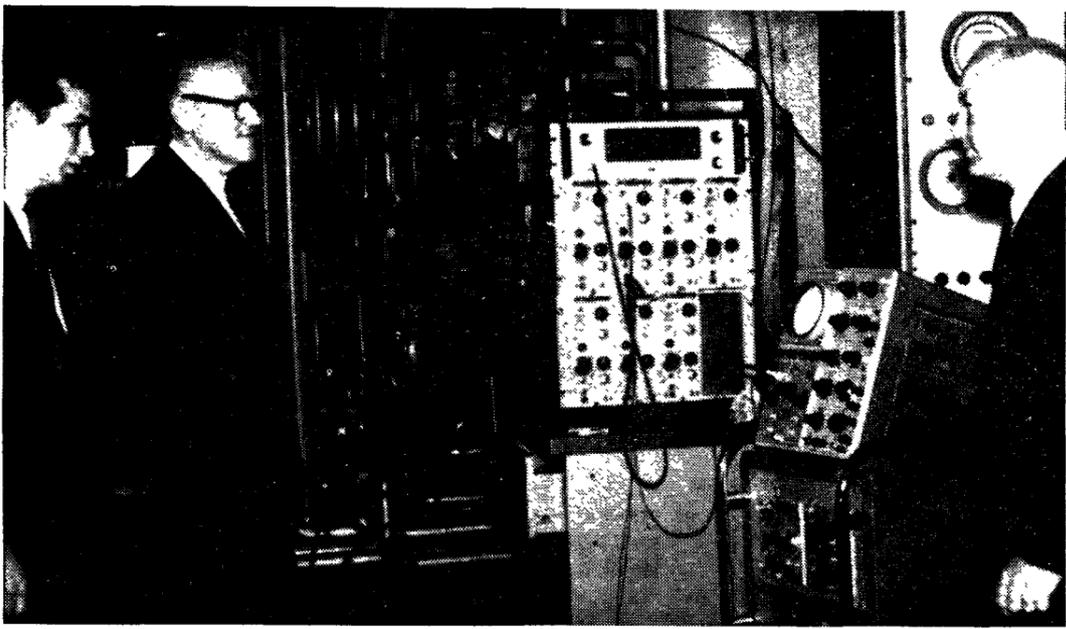
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MIT SCIENTIST SEES PLASMA JET—Dr. Harry J. Zimmermann (center), of Massachusetts Institute of Technology inspects data-gathering devices attached to the plasma jet facility in the Army Missile Command's Directorate of Research and Development. Explaining the apparatus is Charles M. Cason III (left), acting chief of the Plasma Physics Branch, Physical Sciences Laboratory, and Harry F. Vincent (right) Project Director of the Research and Development Directorate.

## Maj. Waller Says: Individual Technician Is Key To Nation's Safety

"You, the individual soldier, hold the safety of this country in your grasp." This was the challenging forecast given the graduating class of the U.S. Missile and Munitions Center and School Friday by Maj. Carol D. Waller.

Maj. Waller, of the Center's Department of Individual Training, told a class of 38 that the individual missile technician holds within his grasp the success or failure of his unit, his Army and possibly even his country.

He emphasized each soldier's role in the defense of our country by pointing out that we are a defensive nation. This dictates that the time and place of any outbreak of military activity affecting our interests is to a large extent in our opponent's hands.

Maj. Waller, a long time ordnance man, said that the former barriers of water, time or distance no longer act as a buffer to our enemies. Thus our nation, and its servicemen everywhere, must insure constant preparedness, and that this placed the burden squarely on the individual.

"Your graduation formally awards you the job of technician and consequently gives you the responsibility for an important part of our nation's protection. Initiative, dedication and pride are three of your most valuable tools," he urged. "Use them and the technical knowledge you have gained here to protect this land of ours, for each of you hold a share in its safety."

There were two graduates who won the Army's highest scholastic award for maintaining a 96 percent or better grade average. The award was presented by Reavis O'Neal, MMCS Information Officer, as representative of the Tennessee Valley Chapter of the Association of the U.S. Army to Sgt. First Class Gerhard Wolf, German Air Force, for a grade of 99.3 in the Pershing Ballistic Missile Digital Computer Repair course. This grade is close to the highest ever obtained in the school's 13-year history. The other winner was Sgt. Robert J. Wild with a grade of 96.6 in the Nike Test Equipment Repair course.

The honor graduates were: Capt. Friant in the Guided Missile and Special Weapons Staff Officer course; Spc-5 Edward A. Weeks, III, in Nike Missile Repair course; Roland Schwartz of the German Air Force, in the Ballistic Missile Inertial Guidance and Control Repair (Pershing) course; and Sgt. Rolnad Schwarz of the German Air Force, in the Ballistic Missile Test Station Repair (Pershing) course.

## Movie Schedule

WEDNESDAY, Jan. 19  
"633 Squadron" (F)

THURSDAY-FRIDAY, Jan. 20-21  
"Made in Paris" (M)

SATURDAY, Jan. 22  
"Minnesota Clay" (F)

SUNDAY-MONDAY, Jan. 23-24  
"In Harm's Way" (M)  
Sunday, showings at 2:00 and 6:30, Monday, one showing at 6:30.

TUESDAY, Jan. 25  
"Red Line 7000" (M)  
Two shows nightly at 6:00 and 8:30 p.m. except as noted above. Saturday matinee at 1:00 p.m.

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Children: 2 O'Clock Show Mon. Thru Fri. .50  
Children—All Other Times 1.00  
Adult Smoking Loge 25c Additional All Times.

### Contamination Control Meeting Scheduled Tonight

The Huntsville Chapter of the American Association for Contamination Control will meet in the Rocket Room at the Redstone Officers Open Mess.

J. Gordon King, Senior Project Engineer, with Texas Instruments, Inc., Dallas, will be the guest speaker. His topic will be, The New Revision to Federal Standard 209. King played a vital role in getting this document revised and is an authority in contamination control.

The public is invited.

### Gen. Eifler Commands Logistics In Vietnam

SAIGON, South Viet nam—Brig. Gen Charles W. Eifler, former Deputy Commanding General, Land Combat Systems, U. S. Army Missile Command has assumed command of the Army's 1st Logistical Command, the supply organization for 130,000 U. S. and allied combat forces in Viet nam.

His 24,000-man command is the largest single Army unit on the embattled peninsula.

General Eifler reported to Viet Nam during January from Redstone Arsenal, Ala. He has been nominated by President Johnson for promotion to major general, with appointment pending confirmation by the U. S. Senate and available space in the Army's allotment of major general positions.



LEGION OF MERIT—Col. J. Mort Loomis, Jr., retired, smiles as he receives the Legion of Merit, the Army's highest peacetime award. He retired Dec. 31st after serving on active duty 24 years the last three of which were at Redstone Arsenal as Project Manager of the Sergeant weapon system. Pinning on the medal is Maj. Gen. John G. Zierdt, Commanding General, Army Missile Command.

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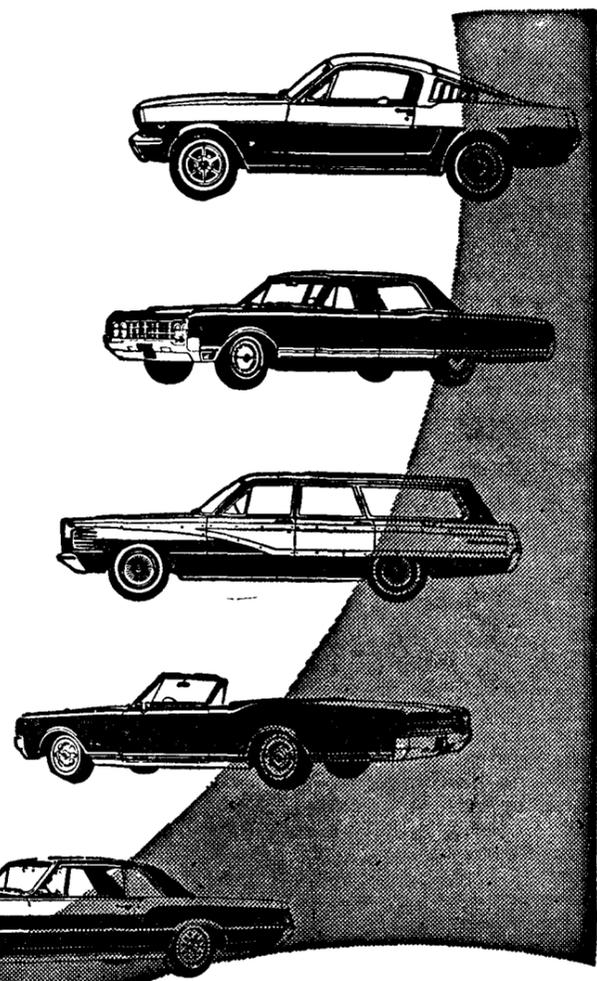
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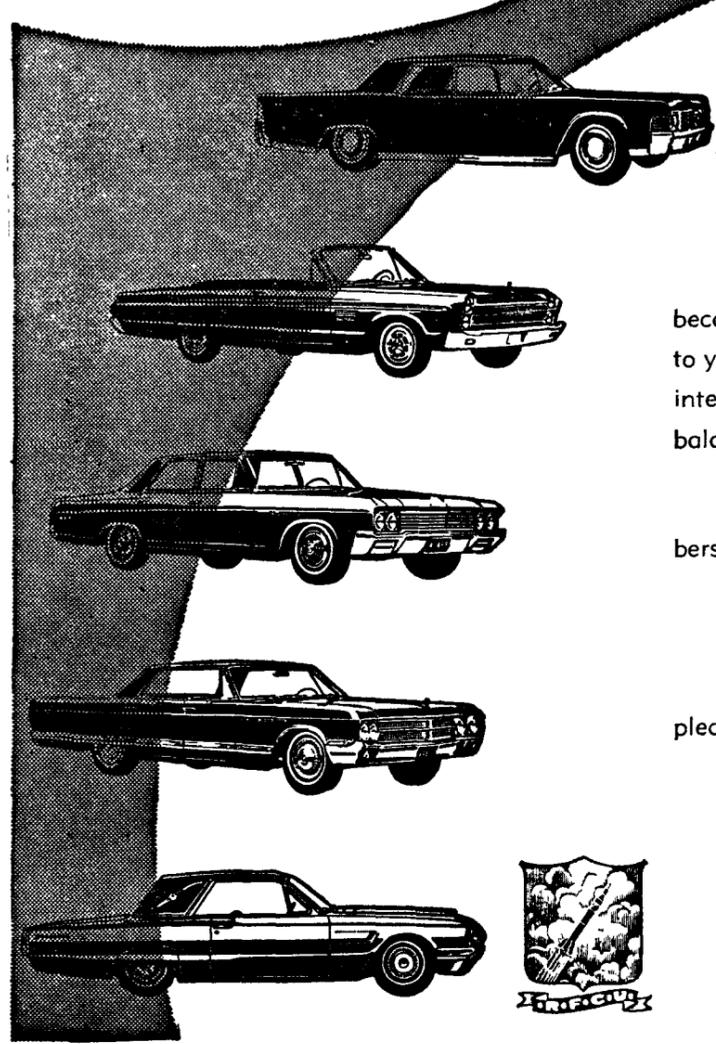
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# Dr. W. Robert Smith To Be Speaker At Chapel Sunday

Dr. W. Robert Smith, Professor of Philosophy at Bethel College in St. Paul, Minn., will be the guest speaker at the 11:15 a.m. Protestant Worship Service at the Redstone Arsenal Post Chapel Jan. 23, according to Post Chaplain (Maj.) John P. Kirkland, Jr.

Dr. Smith is an honorary mem-

ber of the Officer's Christian Union and has been a speaker at their conference and functions for more than a decade. He has spoken in the Army, Air Force and Navy Chapels in the United States and overseas. He was a featured speaker at the British Officers Christian Union during the 1965 annual Winter Sports Party at Films, Switzerland.

After his address at Redstone, he is scheduled to appear in Atlanta, at Ft. Benning and Brian College in Tennessee.

Dr. Smith is an ordained Presbyterian minister. He graduated from the United Presbyterian Pittsburg Xenia Seminary and earned a doctorate at the Southern Baptist Seminary in Louisville, Ky.

## Government Accountants To Hear IRS Director

A. J. O'Donnell, Jr., District Director of the Internal Revenue Service, Birmingham, Ala., will be the featured speaker at the January meeting of the Huntsville Chapter, Federal Government Accountants Association tomorrow night, at the Redstone Officers Open Mess.

O'Donnell will talk about current Internal Revenue Service Procedures and Practices. The event is scheduled at 6:30 p.m.

THE CHEST - SWELLING SOUNDS of a marching band echoed through Tan Son Nhut recently as the 266th Army Band arrived from Fort Hood, Tex., to take on ceremonial, entertainment, and community relations assignments, and community relations assignments. Forty-two men strong, the band is the largest in Vietnam. (ANF)

## Post Library

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### NON-FICTION

Clymer, Joseph Floyd — A Treasury of Motorcycles of the World.  
Cruse, Heloise — Heloise All Around the House.

Dal Fabbro, Mario — How to Make Wood Furnishings for Your Home.

Dickinson, Joan — The Book of Diamonds.

Fraser, Dawn — Below the Surface.

Gallagher, Teresa — Give Joy to My Youth.

Han, Suyin — The Crippled Tree.

Hoyle, Fred — Galaxies, Nuclei, and Quasars.

Kennedy, John Fitzgerald — The Faith of JFK.

Kirkland, Bryant M — Home Before Dark.

Kohler, Eric Louis — Accounting for Management.

Levinson, Leonard Louis — The Complete Book of Pickles and Relishes.

Miller, Norman P — The Leisure Age. Its Challenge to Recreation.

Morley, James William — Japan and Korea.

Morsberger, Robert E. — Commonsense Grammar and Style.

Perrault, Gilles — The Secret of D-Day.

Rublowsky, John — Pop Art.

Saturday Evening Post — Battle; True Stories of Combat in World War II.

Schmidt, Ralph N — How to Speak with Confidence.

Schwiebert, Ernest George — A History of the U.S. Air Force Ballistic Missiles.

Shaplen, Robert — The Lost Revolution; the Story of Twenty Years.

Smith, Terry C — How to Write Better and Faster.

Spalding, Eugenia (Kennedy) — Professional Nursing; Foundations, Perspectives, and Relationships.

Stevens, Phillip H. — Artillery Through the Ages.

Szanton, Jules G — Food Values and Calorie Charts.

Tharp, Louise (Hall) — Mrs. Jack.

Thelwell, Norman — Thelwell's Riding Academy.

Vail, Philip — The Magnificent Adventures of Henry Hudson.

Wallack, Louis Robert — The Anatomy of Firearms.

Williams, John E — Preparing the Federal Estate Tax Return.

Woody, Russell O — Painting with Synthetic Media.

Wright, Ralph Ross — Electronics: Circuits and Devices.

### FICTION

Canaway, W. H. — Crows in a Green Tree.

Creasey, John — Murder, London-Australia.

Farrell, Cliff — Cross-Fires.

Franklin, Edward H. — It's Cold in Pongo-Ni.

Hatch, Eric — The Year of the Horse.

Hunter, Jack D. — The Expensible Spy.

Moore, Brian — The Emperor of Ice-Cream.

Mydans, Shelley Smith — Thomas.

Ogburn, Charlton — Big Caesar.

Simak, Clifford D. — All Flesh is Grass.

Slaughter, Frank Gill — Constantine.

Spark, Muriel — The Mandelbaum Gate.

Spectrum — Spectrum; a Science Fiction Anthology.

White, Alan — Death Finds the Day.

Wyckoff, James — Lars.

Wynd, Oswald — Death, the Red Flower.

## MEN, MIGHT, AND MORALE

Napoleon Bonaparte possessed a profound knowledge of the morale of an individual engaged in battle. He is reputed to have said on one occasion, "Every soldier carries in his knapsack a marshal's baton."—a remarkable tribute to the fighting man.

A review of history leaves no doubt that the confidence and respect expressed in those famous words brought to France victory after victory.

Napoleon's combination of military strategy and understanding of the motivations of men made him an irresistible force on the European continent for a quarter of a century—truly a manifestation of the genius of the man.

He knew that morale, invisible and intangible, is a powerful force. Morale can help overcome the most formidable obstacles—turn defeat into victory.

Morale cannot be left to chance. Individual and unit morale must be nurtured, for good morale is a key to military success. (ANF)

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# Kerr To Speak At Public Administration Meeting

Breene M. Kerr, son of the late Oklahoma Senator and an official of the National Aeronautic and Space Administration, will be the installation speaker for the charter meeting of the Huntsville Chapter, American Society of Public Administration. The meeting will be held at the Redstone Arsenal Officers Open Mess at 6:30 p.m. Thursday, Jan. 20.

Kerr will come to Huntsville as a member and representative of the Board of Directors for the national organization for the official chartering of the local chapter.

He will also preside over the installation of officers headed by H. Clyde Reeves, vice-president for Huntsville Affairs for the University of Alabama.

Other officers of the newly chartered chapter are: Thomas D. McDonald, Judge, Madison County Court, vice president; Col. David Marcelle, Comptroller and Director of Programs for the U.S. Army Missile Command, secretary-treasurer; and Dr. Bernard Cosman, associate professor of Political Science, University of Alabama, Huntsville, corresponding secretary.

The son of the late Senator Robert S. Kerr of Oklahoma, Kerr is Assistant Administrator for the Office of Technology in the national space agency. In this position he is responsible for disseminating scientific data and technical advances from NASA research to industrial users.

He also has the operating responsibility for the scientific and technical information division which furnishes basic technological support for NASA and contractors.

Prior to assuming his present position, Kerr was deputy assistant administrator for Technology Utilization.

Born in Ada, Okla., he is a graduate of Massachusetts Institute of Technology. After spending two years on active duty with the Army, Kerr joined the Kerr-McGee Oil Industries in Oklahoma City as a geologist.

In 1961, he was named manager of the Land Department of the Corporation and given the responsibility for supervision drilling operations and the leasing and contracts for the firm's exploratory operations.

The American Society for Public Administration in a nationwide educational and professional organization dedicated to improve management in the public service through the exchange, development and dissemination of information.

Since its inception, ASPA has

## Quality Control, Statistical Men Schedule Meeting

The Huntsville Section of the American Society for Quality Control and the North Alabama Section of the American Statistical Association will have a joint meeting Monday night, January 24, at 6:30 p.m. at the Redstone Officer's Open Mess.

Dr. Bernard Ostle, Chairman of Statistical Test Design, Rocketdyne Division of North American Aviation, will speak on "Industrial Applications of Design of Experiments."

Dr. Ostle holds BA and MA Degrees from the University of British Columbia, and a Ph.D Degree from Iowa State University. He is author of the book, "Statistics in Research," and numerous articles in the journals. He is a member of ASQC, ASA, Operations Research Society of America, National Management Association, and others.

Interested persons may call 532-1659 or 876-0671 for dinner reservations.

The "SPARS," women's reserve of the Coast Guard, were 23-years old on November 23, 1965.



BREENE M. KERR

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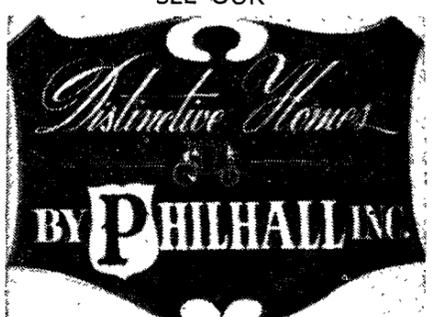
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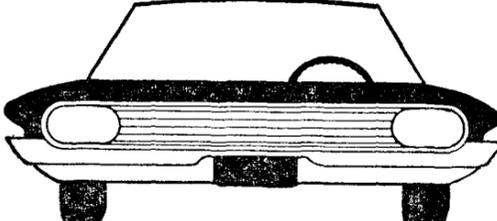
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# Supply And Maintenance Instructors Return

The recent return of a trio of Supply and Maintenance Directorate new equipment instructors from the Far East brought to a close the opening round of a new phase of training by personnel of the Army Missile Command.

The three, Anthony LoPresti, Thomas Kavanaugh, and James Hooper, spent three months in Formosa and Japan instructing military personnel of those countries on the Radar Signal Simulator, a training device that supplies simulated radar targets and electronic counter measures for the Nike Hercules system.

It marked the first time a formal course of instruction had been presented to allied military personnel in their own country by the Missile Command. This type of training had been conducted in the past by contractor personnel.

The National Maintenance Point team of instructors are assigned to the Technical Assistance Division of the Supply and Maintenance Directorate. This division has

the responsibility for furnishing services world wide to improve the performance and maintenance effectiveness of Missile Command weapon systems.

Civil Service Missile Maintenance technicians from the Technical Assistance Division are assigned on a rotating basis to military installations in this country and overseas to furnish technical advice and training to troops and civilian personnel providing maintenance support wherever missile equipment is deployed world wide.

The course was designed for personnel with extensive electronics backgrounds and was condensed to six weeks in each country. The local instructors utilized both conferences and practical exercise in presenting their course.

Col. Russell B. Sell, the Director of Supply and Maintenance, commented on the return of the three instructors that the initial effort in this area resulted in a great savings in both money and time for the allied countries.

He added that the Japanese and



**GRADUATING CLASS.** Three Supply and Maintenance technicians are shown with a class of Japanese Army students who attended their 6-week training class on the Radar Signal Simulator. The Missile Command instructors were in the Far East for three months and conducted a similar class for military personnel of the Nationalist China in Formosa. They are, (left to right) James Hooper, Anthony LoPresti and Thomas Kavanaugh.

Chinese military commanders were and highly commended LoPresti, manner in which they conducted well pleased with the training Kavanaugh, and Hooper for the the classes.

## Gen. Unger To Visit

Maj. Gen. F. T. Unger, Deputy Chief of Staff for Individual Training, Continental Army Command, will attend a briefing and tour of the U. S. Army Missile & Munitions Center & School January 21.

Gen Unger is a 1937 graduate of the U. S. Military Academy, and has attended the Command and General Staff College, the Armed Forces Staff College and the National War College.

His visit will include an inspection of the Directorates of Individual Training and Unit Training. After receiving briefings on the Center's mission and the training concept of MMCS, Gen. Unger will tour the Missile Components Department and attend graduation ceremonies.

Following a look at the Television Division and the Training Aids Division he will stop at the Hawk, and Sergeant Divisions. Concluding the day's activities will be a demonstration by the Explosive Disposal Division of the Directorate of Unit Training.

Feb. 8, 1881—Major George N. Sternberg, Army Surgeon, discovered pneumococcus germ as result of long research.

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# Missile Command Students Found In Far Away Places

Off-post training courses continue to play an important role in the overall career development program at Redstone with 73 Arsenal civilians and two officers having been enrolled during January for graduate level training in their individual career fields.

The training is being conducted at military installations, contractor plants and leading American universities scattered across the country.

Administered by the Training and Development Division of Civilian Personnel, the career development program provides the opportunity for selected civilian employees and military personnel to pursue additional training as a means to increase their career potential.

The largest group of Arsenal personnel were enrolled for four different courses offered by the U. S. Army Logistics Management Center, Ft. Lee, Va.

Attending the Army Project Manager course are Garrett Hooper, P & P, Roy Saile, Hercules, Gerald Summers, Nike-X, Wade Green, Sergeant, and George Williams, Pershing. Also enrolled for the class is Capt. Robert Duggan of the Sergeant Project Office.

The Defense Procurement Management class includes, June Sublett, Larry Moyers, Rodney Melton and Robert Robold, all of P&P, John O'Donnell, of Sergeant, and Winslow Hill of the Support Command's Patent Center.

Walter Schifflett and Joseph Cannon, P&P, Bernard Kochevar, S&M, and George Boyer, of Sergeant, are enrolled for the Defense Quality Control Management course.

John Malmas and Frank Ralph, both of S&M, are taking the course on the Use of Computers & Scientific Management Logistics, and George O'Toole, also of S&M, is enrolled for Maintenance Management.

Another large group of locals received their advanced training at the U. S. Army Management Engineering Training Agency, Rock Island, Ill., where ten are enrolled in seven different classes.

Emmett O'Daniel, Post Engineer, is taking Mathematical Programming, William Leverich, MMC&S, and Johnie Jordan, Nike X, are enrolled for Organization Planning, and James Fisher, S&M, is studying ADP for the Systems Analyst.

Robert Neely, Hercules, J. Vaughn Hamm, P&P, and Edward Meehan, S&M, are attending the Middle Management Seminar, and Nimrod Hall, of Sergeant, attended the Top Management Seminar.

Eight of the students are staying at Redstone for training at the U. S. Army Missile and Munitions Center. One of these, William Hanes, of S&M, is taking the Missile Components Portion of Nike Radar & Computer Repair course.

The others are enrolled for Missile System & Logistical Support Orientation. They are, Dolores Simms, Ted Bledsoe, Samuel Campbell, Buford Taylor and Riley Monroe, all of S&M, and Virgil Duren and J. Paul Schumann, both of Missile Intelligence.

George Karabotsos and John Ross, of Sergeant, are studying Contract Law at the School of Systems and Logistics, at Wright-Patterson AF Base, Ohio. Jay Robinson, also of Sergeant, is at the same school for the Contract Administration course.

The Defense Weapons System Management Center at the Ohio base numbers four local, civilians and an officer, in the Defense Weapons System Management course. They are: Col. John Peterson, of the AMC Interim Air Defense Of-

ice, Carl Berry, TOW, E. R. Edmondson, Shillelagh, Reginald McLaney, Nike-X, and Hubert Nagle, Sergeant.

William Wall and Robert Hooker, both of P&P are enrolled for the Defense Procurement Executive Refresher Course offered by the Department of Navy in Washington, and Joe Hiatt, Safety Division, is studying Munitions Safety, at the U. S. Army Materiel Command Field Safety Agency, Charlestown, Ind.

Howard Cook, Shirley Miller and Norman Ervin, all of the Office of the General Counsel, together with Robert Powell, P&P, are attending the Government Contractor Conference sponsored by Federal Publications, Inc., in Washington.

William Esslinger, R&D, is tak-

ing Executive Orientation to Human Engineering at the Human Engineering Laboratories, Aberdeen Proving Ground, Md., and Freddy Rivers, of the Metrology Center, is at the Beaverton, Ore., facility of Frankford Arsenal for a Technical Training Course for Graphical Display System.

James Blackburn, of the Civilian Personnel Office, is in Dallas for the Recruitment & Placement course sponsored by the Deputy Chief of Staff for Personnel, and Johnny Rushing, of the Metrology Center, is studying Precision Thermometry at the National Bureau of Standards in Washington.

The Ling-Temco-Vought, Inc., plant in Warren, Mich., is the locale for training for nine Redstone personnel in two different classes of the Lance Staff Planners course.

The Jan. 11-12 class included Joe Johnson and Stanley Szczepanski, of Lance, Peter Castello, and William Vaught, of S&M, and Edward Blanton, General Counsel. The Jan. 18-19 class included Joseph Leary

and Hubert Tatum, Lance, together with Barney Kemp and W. Marion Legg, both of S&M.

Cecil Reinke and Robert Greene, General Counsel, are studying Procurement Law, at the U. S. Army Judge Advocate General School, Charlottesville, Va., and Adrian Todd, C&DP, is taking Army Installation Management at the U. S. Army Management School, Ft. Belvoir, Va.

The remaining seven are enrolled for graduate courses at well known American universities for classes ranging to two years in length.

James McCraw, Hercules, is enrolled for Education, Management & Public Policy and James Dickerson will take his graduate work in Electrical Engineering. Both will go to the University of Alabama at Tuscaloosa.

Edward Williams, Assistant for Communications, will attend the

Huntsville Campus of the University of Alabama to study Statistical Communication Theory.

William Newman, R&D, will take the Engineering & Management Course at the University of California in Los Angeles, and Dillard Womack, Safety Division, is enrolled for the Safety Program Organization & Administration course at New York University.

At George Washington University for graduate study in Metrology is Walter Zuhn, of the Metrology Center, while Jack Childs, S&M, is attending the Audio Lingual Institute offered by the University of Maryland at the Rhine Main Air Force Base in Germany.

January 9, 1936 — The M-1 rifle, popularly known as the Garand, was standardized. This was the only really successful semi-automatic rifle ever designed which could meet all military requirements for a shoulder weapon.

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