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The Redstone Rocket

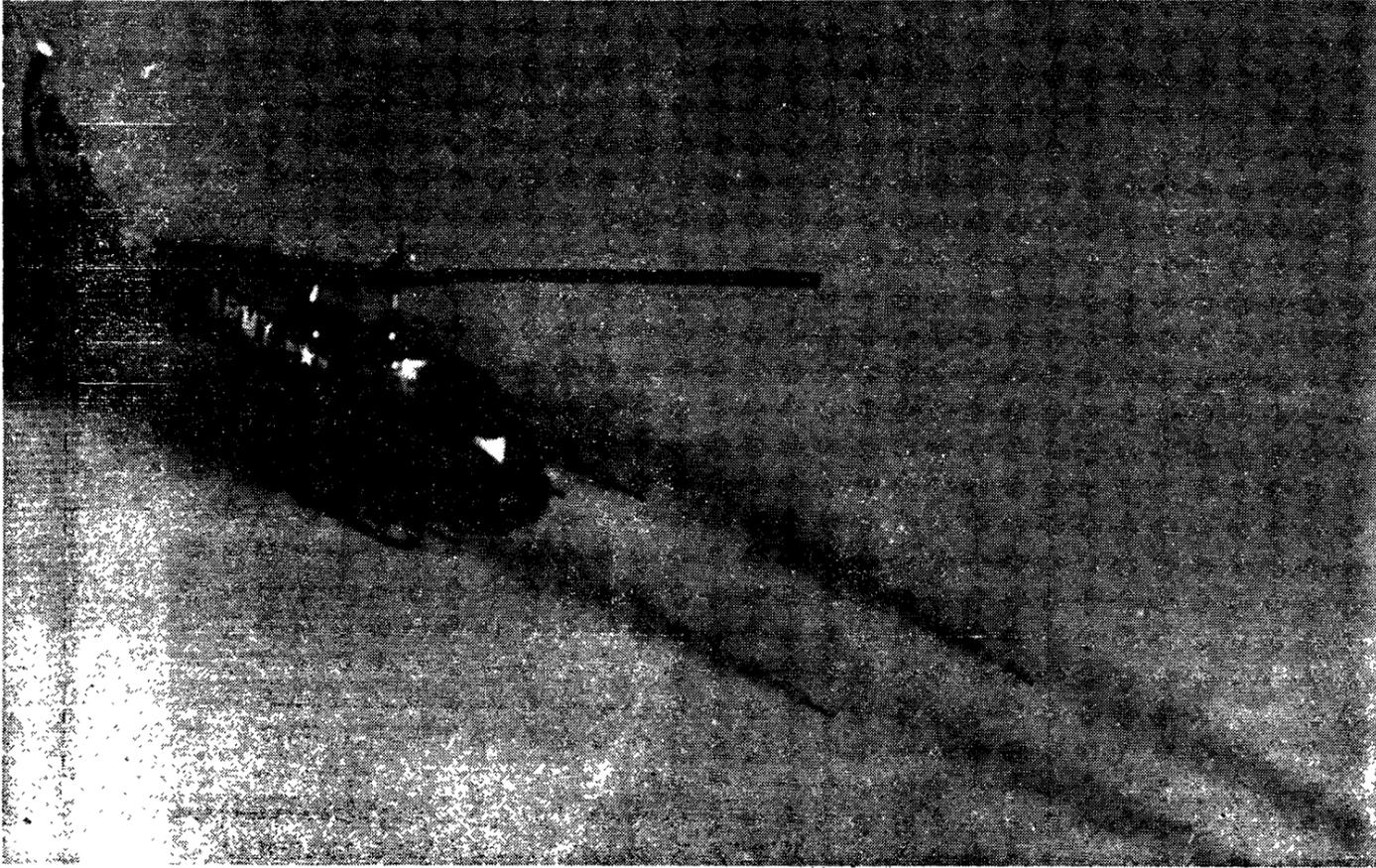
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VOL. XII; NO. 36

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 22, 1964

Army Deploys Chopper Rockets



AIRBORNE LAUNCHING PAD—Helicopters serve as an airborne launch pad for air-to-ground rockets. Effectiveness of the rockets has been substantially improved by development of a special heli-

copter subsystem by the U. S. Army Missile Command at Redstone Arsenal.

MICOM Team Gives HUEY Sharp Teeth

The Army said this week that a new airborne rocket sub-system the product of ingenuity and know-how at the Army Missile Command, has been deployed to combat areas.

With deployment, the XM-3 rocket sub-system passed a major milestone and became a boost to the effectiveness of the 2.75-inch rocket already in use.

The sub-system permits firing of 48 rockets from helicopter-carried pods.

In a special development program centered at the Army Missile Command, many components for the sub-system were secured from existing military supplies. The program is credited with saving thousands of dollars for the American taxpayer, as well as trimming development time for the new weapon system by more than half.

Overseas, the sub-system was mated with 2.75-inch rockets adapted for Army application from an operational Navy rocket already in use by American fighting men.

Soldiers previously had fired the rockets from homemade "slings" or pods, mounted on sides of the Army's UH-1B ("Huey") helicopters.

Fighting men found the rockets highly effective, but their homemade pods carried only a limited number of rockets; there were only crude means of controlling the rate of fire; pilots had difficulty in knowing when their rocket supply was gone.

With the arrival of the XM-3 sub-system, firepower was tripled, and control was positive. The rockets flash from their pods at the rate of six pairs per second. Pilots can dial a selector knob to fire 1, 2, 4, 8, 12, or 24 rounds from each of the two pods.

The sub-system passed compatibility tests at Missile Command laboratories and test ranges and was deployed without glamor, illustrating how highly useful weapons are sometimes shoved into the shadows of more spectacular missile systems.

Under the direction of the Missile Command's Anti-Tank/Aircraft Weapons Commodity Office, three of the Command's directorates played major roles in the program—amounting to an expedited team effort by missile men to guarantee that the fighting man has the weapon he needs at the time when he needs it.

Management of the development program was centered in the Commodity Office under the direction of Col. C. D. Sterner, Commodity Manager. W. C. Rotenberry, Weapon System Manager, Aircraft Weaponization, is assisted by 1st Lt. Ron J. Ickel.

During the research and development program, George Elrod and Larry Nicastro evaluated the possibilities of many existing components and asked the R&D Directorate's Ground Support Equipment Laboratory to design the special XM-3 sub-system. (See CHOPPER on Page 3)

Army Names Four Roads As Memorial

Four new names have been added to portions of the vast highway system which totals more than 330 miles and links the 40,000 acres of sprawling Redstone Arsenal, the Army Missile Command announced.

Maj. Gen. John G. Zierdt, the Commanding General, said the naming of these roads "is a memorial to civilians who were employed on the arsenal and made significant contributions to the Army's missile program."

Men who have been honored were Walter Burose, Edwin K. Fowler, Kurt Lindner, and E. E. Jungerman. Widows of the four reside in Huntsville.

The Master Planning Board, which includes a representative from every agency on Redstone Arsenal and which governs all work of a construction nature, named these roads with the approval of the Commanding General.

Sections of the roads are already in operation while long range plans call for extensions to be made.

Burose Road runs from Martin to Neal, just east of Army Missile Command headquarters. An unopened section will extend from Martin, just east of the new Research and Development facility (Building 5400) and intersect Jungerman Road. Another completed portion of Burose runs from Jungerman to Building 5429.

Walter Burose was a Structures and Development Engineer with the old Army Ballistic Missile Agency prior to his death in 1956. (See ARMY HONORS on Page 3)

COL. GROTE TO REPLACE COL. VAN WERT IN S&M



COL. R. W. GROTE

AUSATo Hear Gen. Kinnard

One of the pioneers of Army airborne operations will be the principal speaker here on Feb. 11th at the first 1964 membership meeting of the Tennessee Valley Chapter of the Association of the U.S. Army.

He is Maj. Gen. Harry W. O. Kinnard, commanding general of the new 11th Air Assault Division (Test) which is now being assembled at Fort Benning, Ga., for a full-scale test of a new concept of battlefield mobility. A West Point graduate of 1939, Kinnard jumped with the 101st Airborne Division into Normandy on D-Day in 1944; led them into an air assault in Holland later that year and took part (See AUSA on Page 3)

The Army Missile Command has announced that Col. Robert W. Grote has been named to replace Col. R. W. Van Wert as Director of the Supply and Maintenance Directorate on Feb. 1.

Col. Van Wert, recently assigned to a new position on the island of Okinawa, came to Redstone in November, 1960. Before being named to the job he is now leaving, he was Deputy Director of the S&M Directorate and Director of Field Service Operations of the Army Rocket and Guided Missile Agency.

Col. Grote, a native of Rochester, N. Y., comes to the Missile Command from the Defense Supply Agency in Washington, D. C., where he was Chief of the Storage and Distribution Division, Supply Operations.

Col. Grote received his early education in Denver, Colo., and was graduated from North Denver High School in 1929. He enrolled in the University of California that year and received his Bachelor of Science degree in Civil Engineering in 1933.

Following his graduation, he was employed in a variety of construction jobs in Colorado, related to transmountain water diversions, including dams, canals and tunnels.

The new S&M Director began his military career late in 1939, at Fort Sill, Okla., where for three years he was assigned to supply and maintenance positions while serving in the troop command. In 1942, he was assigned to the New York Port of Embarkation as Chief of Maintenance.

While in this position, he was primarily responsible for overseeing the conversion of a boiler plant into a processing facility (See COL. GROTE on Page 3)

Chief Army Nurse Visits At Command

Colonel Mildred I. Clark, Chief of the Army Nurse Corps visited Redstone Arsenal Tuesday as a guest of the staff at the Redstone Army Hospital.

In addition to touring hospitals Army-wide, Col. Clark is promot-



COL. MILDRED I. CLARK

ing "Operation Nightingale", an educational program to bring attention of young nurses to the advantages offered by the Army to career officers.

Col. Clark was accompanied by the Chief Nurse of the Third Army, Lt. Col. Angie Kammeraad. Maj. Hazel L. Evans, Chief Nurse at Redstone Army Hospital, and Col. Harry C. McClain, Post Surgeon, were official hosts. Col. Clark was scheduled to call on Maj. Gen. John G. Zierdt, Commanding (See ARMY NURSE on Page 3)

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-130, Extension 876-4161.

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Rocket Ruminations

Where the telescope ends, the microscope begins. Which of the two has the grander view?

—Victor Hugo

Army Nurses Needed To Serve Country

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WORK DAY NORMAL—(Left to right) Nancy Hornbuckle, Marie Linkin and Carol Branum, secretaries in the Engineering Requirements Coordination Office for the Research and Development Directorate, really don't work in hard hats; but since they moved into a building where construction is still underway, they must wear the hard hats to get into their offices. They recently moved into the new Research and Development Laboratory.



STEPHEN AILES

Vance Named Deputy Defense Secretary

Washington (AFPS) — President Johnson announced that Roswell L. Gilpatric has resigned as Deputy Secretary of Defense, effective January 20, and that the present Secretary of the Army Cyrus R. Vance has been named to succeed him.

The new Secretary of the Army was announced as Stephen Ailes who had been Under Secretary of the Army since 1961.

The new changes make Mr. Vance the second-ranking official in the Pentagon, under Secretary of Defense Robert S. McNamara.

Of the estimated 9.5 million civilians working in Federal, State, and local governments, only 2.5 million (about one-fourth) are in the Federal Government.

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ATOMIC ENERGY EXPERT TO SPEAK ENGINEERS WEEK

An Assistant Secretary of Defense for Atomic Energy, William J. Howard, will be the principal speaker at the Engineers Week dinner Feb. 22.

Ben H. Keyserling, Chairman of Engineers Week for the Northeast

Alabama Chapter of the American Society of Professional Engineers has announced that tickets are on sale for the event which will be a dinner-dance at the Squirrel Hill Officers Club. He can be contacted at 876-8914.

The guest speaker is a veteran of World War II. When he was released from the Army in 1946 he was employed by the Los Alamos Scientific Laboratory and has been continuously engaged in activities dealing with some aspect of atomic weapons since then.

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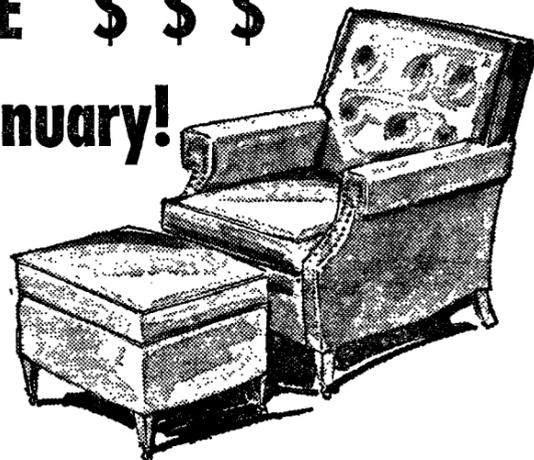
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CHOPPER

(Continued From Page 1)

In the GSE Lab, William Watson directed a highly skilled team of engineers who designed the new airborne launching pads and proved that they would efficiently deliver the 2.75-inch rockets on target.

In the Missile Command's Test and Evaluation Laboratory, test engineer Carl Huber directed an extensive program designed to give the system a final "prove out" before it was handed to the combat soldier.

Procurement involved in locating and securing the equipment was handled by the Procurement and Production Directorate's Capt. William P. Menefee, Mae Weeks and Larry Glasscock, working under the direction of William C. Wall, Jr., procurement program manager. Watertown Arsenal manufactured the launcher pods; Frankford Arsenal manufactured sighting and fire control components.

In the Command's Supply and Maintenance Directorate, Paul Newman, George Birchfield, and Capt. Jack Sauer expedited the preparation, operator and maintenance manuals, conducted special maintenance training, and organized a materiel introductory team which introduced the new rocket sub-system to commanders of theater areas. They also managed the supply and delivery of the armaments system to the soldier in the field.

First units of the sub-system touched down in combat areas less than seven months after the decision was made to produce and deploy it.

The new weapon is designed to attack area targets. Huey pilots can destroy personnel, personnel carriers, or light armored vehicles. At the same time, the sub-system is valuable as a defensive weapon when Hueys are used as escort aircraft for larger 'choppers' airlifting troops into combat areas.

ARMY NURSE

(Continued From Page 1)

General of the U. S. Army Missile Command.

Col. Clark became Chief Nurse of the Army Corps in September, 1963. She is a native of Elkton, N. C., and studied at the Baker General Hospital School of Nursing, Lumberton, N. C., in 1936 to earn her certificate as registered nurse.

She joined the Army in 1938 and continued to study, earning a bachelor of science degree in nursing education in 1953 at the University of Minnesota. She has done graduate work at the University of Colorado, the University of San Francisco and the University of New Mexico.

In addition to her studies, she is the author of a number of publications and is a member of the Armed Forces Writers League.

Col. Clark is also a member of several national honorary societies and educational organizations and is a member of the American Association for the United Nations.

She has served in the Far East at posts in Korea, Japan and in

ARMY HONORS

(Continued From Page 1)

Lindner Road lies just west of the Computation Center (5201) and runs from Fowler Road to Martin. It too will feed into Neal eventually.

Kurt Lindner was an Aero Research Engineer who was special assistant to the Director of R&D Operations in ABMA. He died in 1960.

Fowler Road runs from Mills Road east to intersect Burose southeast of 5400. Plans call for an extension to Patton.

Edwin Fowler, Area Engineer, was in charge of all construction for the Corps of Engineers at Redstone Arsenal until his death in 1960.

Jungerman Road runs east from Lindner to Burose and eventually will extend two blocks east and one block west.

E. E. Jungerman was a Supervisory General Engineer who was Chief of Equipment Branch under what was then the Army Ordnance Missile Command. He died in 1961.

AUSA

(Continued From Page 1)

in the Battle of the Bulge.

John E. Hatch, president of the local chapter, announced that Gen. Kinnard will speak at a barbecue dinner to be held at Fort Raymond Jones on Tuesday evening, Feb. 11th.

Tickets for the dinner, will go on sale next week. Col. Jackson Balch and A. A. Stewart, Louis Grabensteder and Reavis O'Neal Jr. are coordinating ticket sales at the various agencies on Redstone Arsenal, while A. A. Demetriou and Vance Thornton are in charge for sales in the city.

Hatch said the barbecue dinner was arranged at a reasonable price to encourage all military members of AUSA, commissioned and enlisted, to attend the meeting. Ladies are invited.

Hawaii as well as in Europe and the United States.

Before her present assignment, she was Chief Nurse, Surgeon's Office, Headquarters Sixth U. S. Army.

From Redstone, Col. Clark and Lt. Col. Kammeraad was to go to Ft. Campbell, Ky. Col. Clark is scheduled to go on to Ft. Knox, Ky., before returning to Washington, D. C.



COL. VAN WERT

COL. GROTE

(Continued from Page 1)

capable of processing 10,000 military vehicles monthly for overseas shipment. Col. Grote remained in this position throughout the war years and in 1945, he was assigned to the Philippine Islands.

Later that same year, he was assigned as Ordnance Officer at Kobe, Japan, where he was responsible for support of the U. S. Forces in southern Japan.

Col. Grote returned to the U. S. in 1948, and was assigned to the Office, Chief of Ordnance in Washington. In 1953, he was named Chief, Field Service Division, Ordnance Tank-Automotive Command, in Detroit, Mich. From 1957 to 1960, he served consecutively as Director of Logistics, Chief of Staff and later as Deputy Commander, Base Section, Communications Zone, U. S. Army, France.

In 1960, he was named Commanding Officer of the Pueblo Ordnance Depot, Colo., a major supply and maintenance installation. In 1962, he left his position to assume his role with the Defense Supply Agency.

During his military career, Col. Grote has attended the Command and General Staff College, Ft. Leavenworth, Kan.; the Armed

Tennessee Valley Boy Scout Leader Meeting Scheduled

A training seminar for the Tennessee Valley Council of the Boy Scouts of America will be held Jan. 24-25 at the Army Ordnance

Guided Missile School, Col. William J. Macpherson, commandant, has announced. Approximately 100 leaders of the professional scouting group are expected.

The meeting will begin Friday night and continue Saturday. The general theme of the business meeting will be centered on finding and training leaders and on planning leadership programs.

Maj. James MacDonald, chief of operations at OGMS, and Bob Haskins of Huntsville, head of the Tennessee Valley Council, will be in charge of the program.

The council is made up of scouting leaders from Johnson, Madison, Arrowhead, Muscle Shoals, Lauderdale, Limestone and Cotaco districts.

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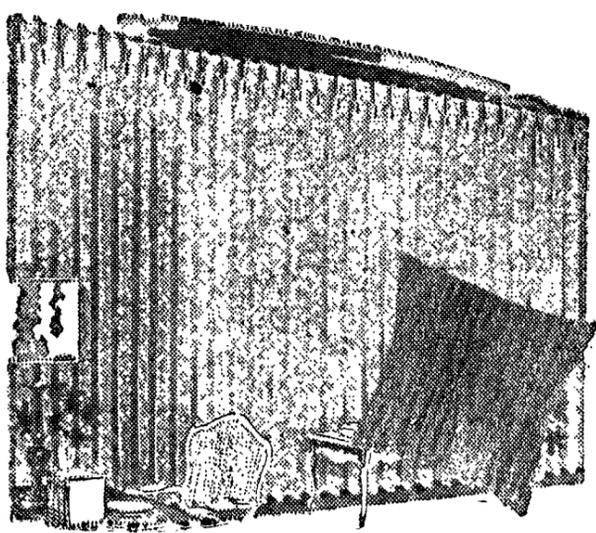
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Focal Point Of Nose Cone Reentry Studies Is Quebec

Scientists at the Army Missile Command are learning about nose cones re-entering the atmosphere through a unique cooperative program which stretches across international boundaries.

The focal point of the program is located across the Canadian border in Quebec, at the Canadian Armament Research and Development (CARDE).

Through the program, scientists in the Missile Command's Research and Development Directorate are receiving information that is not currently available from research conducted in the labs at Redstone Arsenal, Ala.

The point of interest is a unique gun system capable of firing missile-sized projectiles at speeds up to 25,000 feet per second, although hypervelocity is only part of the capability. Included as part of the range is a vacuum chamber 400 feet in length and 10 feet in diameter, which can simulate altitudes up to 250,000 feet.

At the Missile Command, project engineer for the CARDE Support Program is Andrew H. Jenkins, a research aerospace engineer with the Physical Sciences Laboratory in the Directorate of Research and Development. Costs and benefits of the CARDE program are shared by the Canadian Government and the Advanced Research Projects Agency (ARPA), an agency of the Department of Defense.

The Missile Command's interest in the CARDE program centers mainly around use of the hypervelocity range for re-entry physics studies, which will give missile scientists information on the characteristics of a re-entering nose cone.

By firing projectiles of different shapes and sizes at hypervelocities, the experimenting scientist can study the shape of air flow around the projectile and determine characteristics of its wake.

CARDE range is equipped to use guns with bore diameters from one-fourth inch to seven inches, with variable simulated altitudes in the vacuum tank. Instrumentation to study the projectile's characteristics are set up over the course of the range, which covers a total of 630 feet.

The "bullets" are powered by compressed hydrogen or helium, with a conventional-type gunpowder exploded at peak pressure. The gun is loaded by remote control. The amount of money furnished

the CARDE project by each government depends on what programs are being conducted, and has no fixed pattern. If U. S. missile scientists want an experiment run in which the Canadian government has no interest, the U. S. pays the full cost of the experiment. In past years, Advanced Research Projects Agency has paid about one-third of the cooperative program's total annual cost since the joint effort began in 1959.

A project officer at CARDE plans and coordinates the Missile Command's activities conducted under the joint program. He is Lt. Col. Edmund W. Kreischer, who is responsible for a part of CARDE's concentration on the re-entry phenomena of ballistic nose cones.

Col. Kreischer is assisted by two engineers from the Bendix Corp. The Systems Division of Bendix is prime contractor of the joint program, and the Detroit Procurement District administers the contract.

The CARDE range is believed by Canadian officials to be the largest in the world because of the number of ranges and wide variations of gun calibers. Jenkins and his co-workers at the Physical Sciences Laboratory use information from CARDE experiments in conjunction with local experiments to broaden their knowledge of re-entry phenomena.



DISCUSS CARDE ACTIVITIES—Lt. Col. E. W. Kreischer (center) Army Missile Command Project Officer, discusses activities of the Canadian Armament Research and Development Establishment (CARDE) with industry representatives. To his left is R. W. Cooke, and W. G. Tengen is to the right. They are with Bendix Corporation. CARDE is a joint effort of the United States and Canada.

Dental Surgeon's Staff To Talk To School Children

The Post Dental Surgeon's staff will cooperate with the Huntsville-Madison County Dental Society to emphasize proper year-round dental hygiene during National Children's Dental Health Week, Feb. 2-8.

Lt. Col. James T. Thompson, Redstone Arsenal Dental Surgeon, said that members of his staff will talk to assemblies of school children in classes ranging from seven to 12 while the Ladies Auxiliary of the Huntsville Madison County Dental Society will talk to lower grades.

The Auxiliary is also sponsoring a jingle contest for the first three graders and a poster contest for those in the fourth through the sixth.

Most of the schools in the County and City have been working on dental health projects. Safety and the Post Engineer Divisions of the Army Missile Support Command have combined their talents to develop billboard posters with a den-

tal health-safety theme.

A further project through the efforts of the dental surgeon is a postal cancellation stamp using the National Dental Health poster

theme.

An additional project is a closed circuit telecast at the Ordnance Guided Missile School covering proper preventive dentistry.

Leeth Named Outstanding

Larry A. Leeth, an electrical accounting machine operator, has been named Outstanding Employee of 1963 in the Finance and Accounting Office, AMSC.

Leeth was selected for the award as a result of his alertness and ability to implement new procedures and functions within the realm of his responsibility, Col. David A. Marcelle, F&A Officer, said. He lives in Boaz.

First runner-up for the award was James D. McCune of the F&A Administrative Division. A retired Master Sergeant, he lives in Florence.

Second runner-up was L. C. Templeton of the General Fund Accounting Division, F&A. He lives at 2818 Hastings Road, SW, Huntsville.

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SUGGESTION PAYS—Edward Adcock (right) takes a close look at the front end loader used to stoke the Redstone Arsenal steam plant furnaces with little effort in any weather. In the old days before Adcock suggested the front end loader, the inside crew as

well as the outside loaders would work side by side to hand load the frozen coal—breaking it loose as though they were mining it. The suggestion saved approximately \$7,000 for the government and put \$375 in Adcock's pocket.

ADCOCK BELIEVES:

Use Your Head And Save Your Back

In keeping with Benjamin Franklin's philosophy "Use your head and save your back," Edward Adcock, a tool parts and stock keeper for the Army Missile Support Command had a clear view of men straining their backs on frozen coal piles from his desk at the Redstone Arsenal steam plant, so

he made a suggestion to the Incentive Awards Board to change the situation.

Adcock suggested that after coal was off-loaded from the rail cars and motor trucks to be stockpiled until needed, it should be handled thereafter by a mechanized front end loader which has a hopper big enough to handle a ton of coal at a time. The operation is run by the Post Engineer Division of the Army Missile Support Command.

The Arsenal's furnaces for the steam plant consume 225-250 tons of coal on a normal day and when all the burners are going and it's cold they may burn as high as 450 tons.

Now, in freezing weather the inside crew as well as the outside crew no longer need to get out with a pick and shovel and mine the coal, barely keeping ahead of

the furnaces, as they did in the past. The result is that Adcock is \$375 ahead and everyone involved is relieved.

The first year's estimated savings in using the equipment is

\$7500 for the government.

Adcock lives at Toney with his wife, Angeline, and son, Jeffrey, 7. He came to work at Redstone Arsenal in September, 1956, after serving two years in the Army in Japan and Korea. He has a small farm with cattle and chickens where he raises cotton and corn.

When he has an opportunity, which he admits isn't often, he likes to hunt rabbit and squirrel.

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Bloodmobile Collects 469 Pints Blood

The Red Cross Bloodmobile collected 469 pints of blood from Redstone Arsenal donors during its visit at the Old Post Hospital building last Wednesday.

In addition, although the blood was contributed directly to the Post Hospital instead of to the Bloodmobile, the Medical Detachment donated 37 additional pints which are counted in the total. This gave the Medics the highest percentage of military donors for the month and they will be awarded the revolving plaque which goes to the unit with the highest percentage of participation.

Army Missile Support Command donors outnumbered all others for the January visit.

Mrs. R. B. Braid, Co-Director of Volunteers, coordinated the activities of the 23 Gray Ladies and two nurses aides assisting the Red Cross staff under Dr. Charles Moss and Red Cross Nurse Alice Swanson. Mrs. John Martinez was in charge of the canteen operation.

Col. William Luk is the Arsenal co-ordinator, his assistant is CWO Frank Welch.

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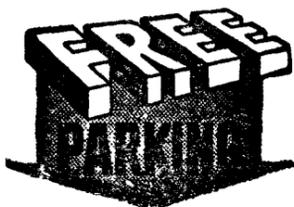
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March Of Dimes Bowling Tournament Being Rolled

Both divisions of the March of Dimes bowling tournament at the Redstone Arsenal lanes has a new leader as the month-long meet reached the three-quarter mark.

Luther Cox rode a big opening game through to a 654 handicap total and the lead in the Men's Division while Norma Worthen rolled a consistently strong 652 total to move in front of the Women's Division.

The meet, now in its third week, will end on February 1, with the winner in each division qualifying for the City-wide roll-off sometime during February. The meet is sponsored by the Madison

County chapter of the March of Dimes.

Bowlers can enter the meet during their regular league schedule by contributing one dollar to the March of Dimes. There is no limit on the number of times that a bowler can enter.

Prizes in the tournament are being donated by local merchants and all of the money contributed will go to the March of Dimes.

Bowling in the American-British-Canadian Officers League, Cox opened his set with a whopping 235 and ended the evening with a 540 scratch total.

Mrs. Worthen posted her big total in the Friday morning Officers' Wives League. She put together two games of 174 sandwiched around a 187 for a 535 actual score.

Scoreboard

SATURN BOOSTER LEAGUE "A" DIVISION

Team	Won	Lost
Black Forest Lounge	52½	15½
Lockheed (RIFT)	37	31
Martin Company		
Mfg. Div.	37	31
Hayes Top Seven	36	32
Brunson Instruments	35	33
Hall's "65" Service	34	34
Hilding Holmberg	34	34
Spaco	34	34
Garrett Airesearch Corp.	33	35
Republic Aviation Corp.	32	36
C. W. Stewart Machinery	26½	41½
Hayes Ex-Cons	17	51

"B" DIVISION

Team	Won	Lost
Redstone Federal Credit Union	49	19
All Sports Trophies	41	27
Pin Palace Lanes	41	27
Arrowhead Products	39	29
RCA	38	30
Norris-Riddle Furn. Mart	36	32
Modern Machinery Assoc.	34	34
Redstone Mach. & Tool Corp.	33½	34½
Terry Heights Cleaners	27½	40½
Hayes Designers	26	42
Progressive Welders	23	45
Reba's Bowling Apparel	20	48

200 GAMES: Stephens, 203; Ackerman, 208; Vadasy, 210; Woodward, 211; Dupree, 211; Messer, 212; Meadows, 219.

THURSDAY MORNING LADIES LEAGUE

Team	Won	Lost
Splits	33½	18½
Terrific Tric	27	25
Roaring Trio	26½	25½
Tryettes	26½	25½
The U. N.	26	26
Old Timers	24	28
Gutter Dusters	23½	28½
Youngsters	21	31

High Team 3 Games: Roaring Trio—1265 (Scratch)

Roaring Trio—460
High Ind. Game: J. Arnold—222
High Ind. 3 Game: J. Arnold—533

OGMS OFFICERS LEAGUE

Team	Won	Lost
Rounders	42	18
Bohunks	29	31
Zeros	30	30
Admin.	32	28
Bowl Weevils	28	32
Missil Comp. Division	19	41

High Team 3 Games: Rounders—2545 (Scratch)
High Team Game: Rounders—873
High Ind. 3 Games: Hitt—623
High Ind. Game: Hitt—236

BANTAM LEAGUE (8-12 Yrs.)

Team	Won	Lost
No. 5	28	10
No. 2	23½	15½
No. 3	22½	16½
No. 4	22	17
No. 8	20	19
No. 1	19	20
No. 7	13	26
No. 6	8	31

High Ind. Average (Boys): T. Thompson—116
High Ind. Average (Girls): B. Quants—106
High Ind. Game (Boys): B. Handy—178
High Ind. Game (Girls): Graham—152

JR. AND SR. LEAGUE

Team	Won	Lost
Alley Dusters	40	20
Fearsome Five	35	25
Pin Devils	35	25
Team No. 1	29	31
Strike "N" Spare	32	28
Screwheads	32½	27½
The Jinx	21	39
Strike Outs	15½	44½

Jerry Smith of the Fearsome Five bowled a 654 Scratch Series Saturday, Jan. 11.
High Ind. Game: Jerry Smith—242 (Scratch)
High Ind. 3 Games: Jerry Smith—654 (Scratch)
High Team 3 Games: Screwheads—3013
With Handicap

High Team Game: Screwheads—1193
With Handicap

OFFICERS WIVES LEAGUE

Team	Won	Lost
Gamblers	34	26
Merry Mrs.	33	27
Comets	33	27
Who Cares	32	28
Missers	30	30
Crazy Eights	20	31
Poor Excuses	25	35
Misfits	24	36

High Team 3 Games: Comets—1839 (Scratch)
High Team Game: Crazy Eights—691 (Scratch)
High Ind. 3 Games: Lau—578 (Scratch)
High Ind. Game: Lau—213 (Scratch)

ENLISTED MEN MIXED COUPLES LEAGUE

Team	Won	Lost
Keglers	46	22
Draggins	42	26
Hot Shots	36½	31½
Douttles	33	35
Brokenettes	30	38
Washouts	29	39
Breaking Points	28	40
Unpredictables	27½	40½

High Team 3 Games: Hot Shots—2027 (Scratch)
High Team Game: Draggins—728 (Scratch)
High Ind. 3 Game (Men): Taormina—620 (Scratch)
High Ind. 3 Game (Woman): Arnold—561 (Scratch)
High Ind. Game (Men): Hamer—244 (Scratch)
High Ind. Game (Woman): McClure—267

OFFICERS LEAGUE

Team	Won	Lost
Spoilers	41	23
Robbers	38	26
Mets	36	28
Procure Mites	34	30
Bandits	30	34
Alley Cats	28	36
Medico No. 1	26	38
OGMS	25	39

High Team 3 Games: Spoilers—2600 (Scratch)
High Team Game: Spoilers—951 (Scratch)
High Ind. Game: Ailles—245 (Scratch)
High Ind. 3 Games:

Roll-Offs For Redstone's Bowling Team Will Begin

The search is on for a representative team of Redstone bowlers in hopes of regaining the Third Army championship.

A six-man team will be selected through a roll-off among active duty personnel to represent the Arsenal in the tournament that is being held at Ft. Rucker again this year.

Entry blanks are available at the Redstone Lanes and Sgt. Bob Han-

dy, manager of the Lanes said that persons desiring to try for a place on the Post team should make their application as soon as possible. The deadline for entries will be 4.30 p.m. on Feb. 21.

The roll-off will be a five-day scratch event with the participants rolling four games per day. The Post team will be the six bowlers with the top total pinfall. The roll-off opens March 2.

AMERICAN BRITISH CANADIAN OFFICERS

Team	Won	Lost
S. Winners	97	23
Lucky Strikes	85	35
Black Jacks	64	56
Wheezers	64	56
Hopefuls	58	62
Pin Splitters	44	76
AF Jupilos	42	78
Maulers	28	92

High Team 3 Games: S. Winners—2755 (Scratch)
High Team Game: Lucky Strikes—990 (Scratch)

OFFICERS MIXED LEAGUE

Team	Won	Lost
D Yanks	93	42
Bombers	86	49
Redstones	72½	62½
Bowl Weevils	70	65
Pin Droppers	67	68
D Doms	54	81
Baby Splits	52	83
Hi Counts	46½	88½

High Team 3 Games: D Yanks—3908 (Scratch)
High Team Game: D Yanks—739 (Scratch)
High Ind. Game: R. Reier—257 (Scratch)
High Ind. 3 Games: D. Vanderheyden—620 (Scratch)

SCHOOL TROOP COMMAND LEAGUE

Team	Won	Lost
Raiders	50	14
Bisons	44	20
Co. "C" No. 1	32	32
Pip Tops	31½	33½
Pin Pickers	31	33
Five Aces	30½	33½
Co. "C" No. 2	23	41
HQ STC	14	50

High Team 3 Games: Raiders—2697 (Scratch)
High Team Game: Raiders—937 (Scratch)
High Ind. Game: Kasper—637 (Scratch)
High Ind. 3 Games: Kasper—245 (Scratch)

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CATHOLIC

SUNDAY:

Masses 0730 hrs (Post Chapel)
 0845 hrs.
 1230 hrs.
 1700 hrs.
 1115 hrs. (Chapel Annex Bldg. 3151)

TUESDAY: Catechism classes from 1830 hrs. until 1950 hrs. in the Chapel Annex, Bldg. 3151.

THURSDAY: Perpetual Help Novena 1930 hrs. Confessions 1945 hrs. Choir practice 2000 hrs.

DAILY MASS: 1100 hrs., Tuesday through Friday at Post Chapel.

BAPTISMS: By appointment only.

SATURDAY: Confessions—1800 hrs. through 1930 hrs.

REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday School. 1100 hrs. — Morning Worship Service. 1800 hrs. — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hrs. — Evening Worship Service. (Nursery is open for both Services.)

JEWISH SERVICES

Conservative Jewish services will be held weekly each Friday at 2000 hrs. and each Saturday at 1000 hrs. at 2333 Poincianna Street, SW, Huntsville, behind the Scottish Rite Temple which is located at 314 Bob Wallace Avenue, SW.

Reform Jewish Services are held at Temple B'Nai Sholom, 2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE, Huntsville. Sunday School at 0930 hrs.

For further information concerning these Services, contact Rabbi Stein, 536-4771.

CHRISTIAN SCIENCE SERVICES — SUNDAY — 1100 HRS.

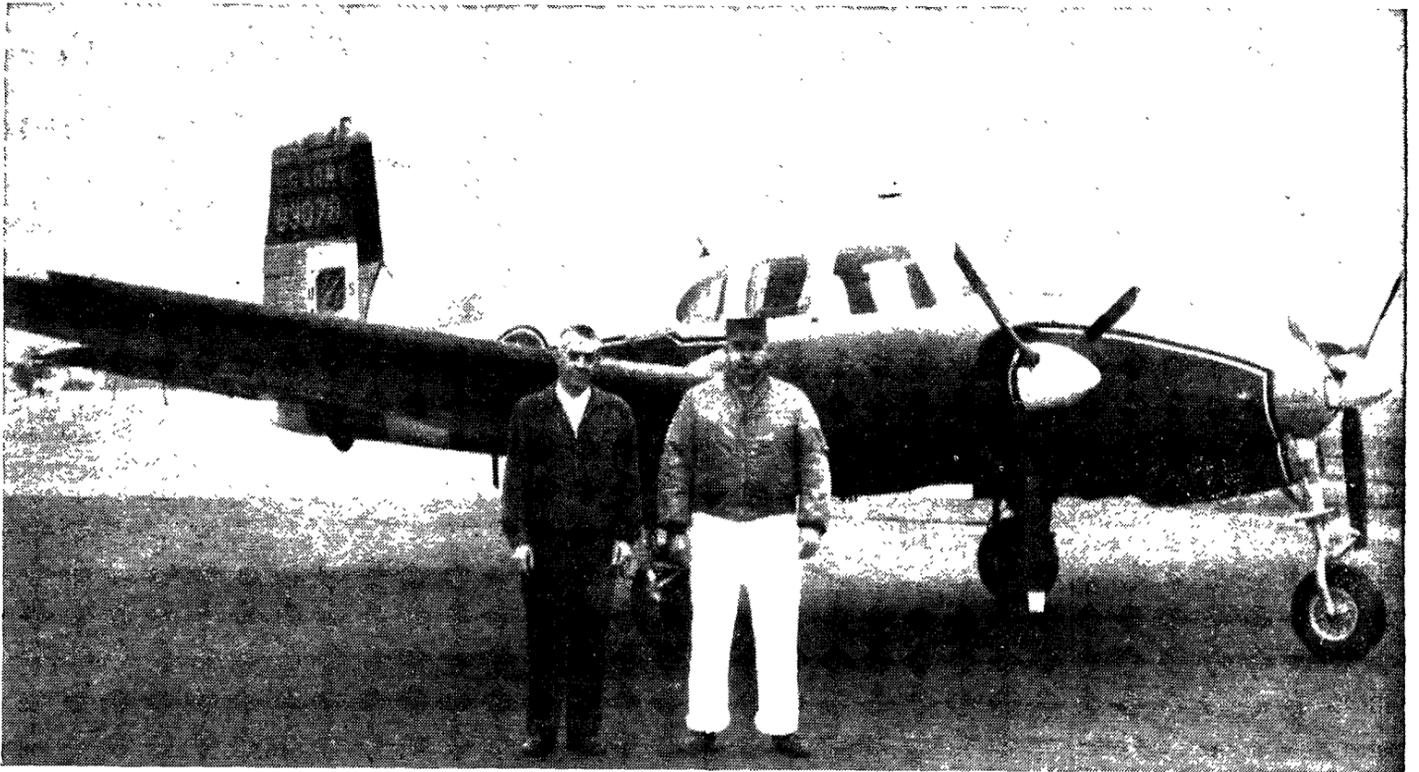
Wednesday services are held at 2000 hrs. at S. White and Wells



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AIRCRAFT RELIABILITY—Sfc. James Perryman, right, a maintenance official at the Redstone Arsenal Airport, stands with Charles Nelson, a representative of the Beechcraft Company, before a Beechcraft U8D, which flew a total of 148 hours in a single month—breaking the record at Redstone Arsenal. More than 350 hours of inspections and maintenance were performed on the aircraft, one of 10 military planes assigned to Redstone Arsenal.

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SPECIAL

SOCIAL ^{and} CLUB EVENTS

Judy Lee Is Top Junior Hostess '64

Miss Judy Lee, an active Junior Hostess at the Redstone Arsenal Service Club, was recently named "Junior Hostess of the Year" for the work she performed in 1963. She will wear the crown for a year.

Miss Lee was presented a bouquet of roses and a loving cup by Miss Betty Hayes, program director at the club.

Walter Titouick escorted Miss Lee during the formal ceremonies directed by Miss Molly Patterson, Club director.

Miss Lee's selection as "Hostess of the Year" was made on the basis of her participation in Service Club activities, assisting the paid staff develop and carry out the weekly programs.

MRS. SCHORSTEN WINS AT BRIDGE

Mrs. Ed Schorsten was the winner of the bridge competition at the Squirrel Hill Officers Club Thursday.

She was playing with the group sponsored by the Redstone Arsenal Officers Wives Club. Eight tables were in play.

Second high was Mrs. R. R. Javins, third Mrs. L. F. Deppensmith.

All members and associate members of the Wives Club are eligible to play with the group on Thursdays, beginning at 10 a.m. Reservations are handled by Mrs. E. M. Krembs, 877-5379 and Mrs. William Mattis, 539-4566.

SERVICE PINS

Col. B. R. Luczak presented length of service pins to three in the Nike Hercules Project Office; ten year pins to Irene McKinney and Carolyn Jones, and a 20-year pin to Paul Grivet.



NEW OFFICERS—New officers were installed by the NCO Club Wives Auxiliary Saturday night during a dinner meeting attended by husbands and guests at the NCO Club. The officers are (left to right): Mrs. Joseph Cormer, secretary; Mrs. J. R. Moore, vice president; Mrs. William Lowery, president; and Mrs. Keith Brown, treasurer.

NCO Wives Club Installs New Officers

The Redstone Arsenal Noncommissioned Officers Wives Auxiliary held an officer installation and dinner meeting at the NCO Club Saturday night.

Approximately 100 people witnessed the ceremony. Maj. Robert H. Vereen, Army Missile Support Command, was the installing officer representing Col. T. W. Cooke, Commander.

The new officers are: Mrs. William Lowery, president; Mrs. J. R. Moore, vice president; Mrs. Joseph Cormer, secretary; Mrs. Keith Brown, treasurer for a second term; and executive board members: Mrs. Lonnie Crane, Mrs. Harry Bullard and Mrs. Edwin T. Flower.

SFC Keith Brown was the master of ceremonies in which Chaplain William T. Condon and outgoing president, Mrs. John Sloan, also took part.

Mrs. Sloan gave her thanks to her officers and standing committees for helping to make her term

of office successful.

She also presented letters of appreciation to SGT. Henry Brannan NCO Club Manager and First Sgt. Francis Gureki, NCO Club President, for the part they played

in making the year a success.

The 1963 officer slate included Mrs. Sloan, Mrs. Brown, Mrs. Louis De Michele, Mrs. Richard Maroon, Mrs. Joseph Cormer, Mrs. James Walden and Mrs. Carl English.



EXCHANGE THE GAVEL—Mrs. William Lowery, newly-elected president of the Redstone Arsenal Noncommissioned Officers Wives Auxiliary, accepts the symbol of office from Mrs. John Sloan, outgoing president. The installation of officers took place at a dinner meeting at the NCO Club Saturday night. Approximately 100 people attended.

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AT NEWCOMERS COFFEE—In a reverse twist, Mrs. Robert E. Kelly (left) receives coffee from a newcomer, Mrs. James H. Wharton during the get acquainted Coffee sponsored by the Redstone Arsenal Officers Wives Club at the Squirrel Hill Officers Club last week. Mrs. Kelly has been at Redstone since 1961. Mrs. Wharton found she had time on her hands after she settled in her quarters and offered to assist the hospitality chairman prepare for the event.

At The Service Club

By: Brenda Hanson

I hereby declare this week to be "Get out-of-the First-of-the-Year-Slump-Week." This is usually a doubtful week by any standards. The holidays are well over, it's too early to start sending any Valentine sentiments, the weather is not cooperating at all, and broken New Years resolutions are no doubt littering the landscape in all directions.

I must admit that I have seen more promising weeks. However, be it resolved that we refuse to be daunted, and instead intend to use this otherwise useless week to have a ball. Would you care to join us?

Wednesday night, we have a contest which should be a challenge to you who excell in Table Tennis.

The contest will begin at 8 p.m., and prizes will be given to the winners.

Thursday night the Bridge Club will meet at 7 p.m. Also, the Bridge Class will meet at this hour in the small lounge. We have an excellent instructor and would be happy to have you join either the class or the club.

The 24th is the date for a special program. The Irene Jones School of Dancing will do an exhibition of various dances. My prediction is that the program will prove to be very interesting—one you will not want to miss. So make a special effort to see the dancers from Irene Jones Studio.

Saturday night is another date for one of our outstanding January programs. The German Choral Group will present a choral program at 8 p.m. All of you have a special invitation to attend.

Sunday the 26th, Betty will

serve coffee and donuts beginning at 9 a.m. Then, the big event of the day will be the "Ole Fashion Hoedown." Jim Baker will call for the dancers.

Monday at 8 p.m. an evening of games begins. We have an interesting array of prizes to give away. Don't miss! You might be the winner!

Tuesday the weekly dance class is scheduled. If you would like to become more familiar with some of the more difficult dance steps, come down to the club and let Walter Titovick smooth out your problem for you. He is a very

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HOWARD WOLF

Births At Post Hospital

Lawrence Albert Gegel, 6 lbs., 12 1/2 ozs., Jan. 8, son of 1/Lt. and Mrs. Gerald A. Gegel.
Kermit Willie Clinton, 7 lbs.,

13 1/2 ozs., Jan. 8, son of MSgt. and Mrs. William P. Clinton.

Michael Allen Vines, 7 lbs., 11 1/2 ozs., son of SSgt. and Mrs. Lowell N. Vines.

Michael Vannoy Moore, 8 lbs., 6 1/4 ozs., Jan. 9, son of WO and Mrs. John E. Moore.

capable instructor.

MISCELLANEOUS

There will be one big dance in February that you won't want to miss, plus several unusual programs. We're going to have another Hootenanny and a production in February. So glance through this column every once in a while, and keep up with the programs coming up in the weeks ahead.

Until then, see you at the Service Club.

—Brenda

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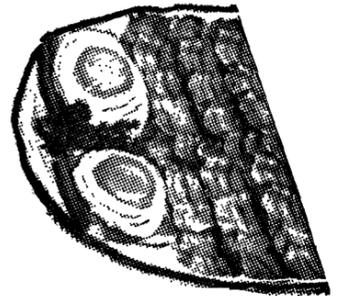
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SO, THERE WE WERE, DOWNRANGE IN A ROWBOAT—Col. Glenn Crane, Chief of the Nike Zeus Pacific Field Office on Kwajalein Island, seems to be teiling Col. I. O. Drewry, the missile defense system Project Manager, a humorous tale. The picture was snapped during Col. Drewry's recent trip to Kwajalein. Kwajalein is a small palm shaded island where components of the new Nike X System are being tested. Col. Crane's pith helmet shows how weather conditions on the tropical island vary from those at Redstone Arsenal Where Col. Drewry's service cap is more in keeping. Barely visible in the background are J. W. Schaefer, head of the Bell Telephone Laboratories Field Station of Kwajalein, and Maj. Ed Rudd, Col. Crane's Support Operations Division.

Lt. Gen. G. A. Blake Is AFCEA Banquet Speaker

Lt. Gen. Gordon A. Blake, Director of the National Security Agency at Ft. Meade, Md., will be the guest of honor and principal speaker at the annual banquet of the Redstone-Tennessee Valley Chapter of the Armed Forces Communications and Electronics Association at the Squirrel Hill Officers Club, Jan. 30.

A veteran Air Force officer with over 30 years of active duty, Gen. Blake has been very active in AFCEA affairs for a number of years and is a Life Honorary member and National Director of the organization.

He will be accompanied to Huntsville by several distinguished guests from AFCEA Headquarters in Washington, D. C. Other dignitaries are expected to attend the annual meeting from Birmingham and Atlanta as are many scientific, technical, military and civic leaders in this area.

The banquet will be held in the Main Ballroom starting with a social hour at 6:30 p.m. The dinner and business meeting will follow an hour later.

The guest speaker has spent most of his military career in some phase of communications. A native of Iowa, Gen. Blake is a graduate

of the United States Military Academy in the class of 1931.

He was commissioned in the Coast Artillery Corps and detailed as a student officer to pilot training. Upon completing Primary and Advanced Flying Schools, he was assigned to a pursuit squadron.

Gen. Blake completed the Signal School and the Communications Officers Course and was assigned to the Air Corps Technical School as a communications instructor.

He was assigned to Hawaii in 1939 as Communications Officer for the 18th Composite Wing and he acted in this capacity for the first land-based aircraft flight from Hawaii to the Philippines in September, 1941. He was awarded the Distinguished Flying Cross for the operation.

Three months later, when the Japanese struck Pearl Harbor, Gen. Blake was Base Operations Officer at Hickam Field and was awarded the Silver Star for gallantry in action that day.

Throughout the remainder of the war he served in various communications assignments in the Pacific Theater and was awarded the Legion of Merit by Admiral Nimitz plus an Oak Leaf Cluster to the Legion by the War Depart-

ment.

Soon after the conclusion of the war, Gen. Blake went into Research and Development work at Wright-Patterson AFB. He was assigned to the Ohio installation for over four years serving in such positions as Chief of the Armament Laboratory, Director of 12 development laboratories, and Vice Commander of Wright Field. He was promoted to Brigadier General during his stay at Wright-Patterson.

Transferred to Air Force Headquarters in January, 1953, Gen. Blake was named Deputy Director of Communications in the office of the Deputy Chief of Staff for Operations, becoming Director of Communications a month later.

Many changes in the Air Force system for global communications and navigation were implemented during Gen. Blake's tour as Director of Communications. These included pioneer operational circuits using "scatter" communications for the first time.

He was named Assistant Deputy Chief of Staff for Operations in 1956 and in this capacity served on the Permanent Joint Board for Defense, Canada-U. S., under which many projects such as the Dewline radar network were planned between the two countries.

More recent assignments have

seen Gen. Blake named Commander of the USAF Security Service, Vice Commander in Chief and Chief of Staff, Pacific Air Forces, and Commander of the Continental Air Command. In the latter capacity, he preceded Lt. Gen. E. J. Timberlake, who came to Huntsville to speak to the Reserve Officers Association recently.

Gen. Blake assumed his present position on July 1, 1962. The Na-

tional Security Agency is charged with the performance of highly specialized technical and coordinating functions relating to the security of our country.

Gen. and Mrs. Blake are the parents of a daughter and two sons, both of whom are Captains in the Air Force. The older son is a graduate of the U. S. Naval Academy and the younger completed the family cycle by graduating from the U.S. Air Force Academy.



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ADMIRAL VISITS—Rear Adm. Robert H. Northwood, Commander of the Defense Electronics Supply Center (DESC), visited the Army Missile Command on Jan. 15. The Missile Command is one of the Army's largest "buyers" of electrical and electronic components which the DESC purchases and distributes to all services. Shown left to right are Col. R. W. Van Wert, Director of the Missile Command's Directorate of Supply and Maintenance; Air Force Col. John E. Devine, DESC Office of Planning and Management; Maj. Gen. John G. Zierdt, Commanding General of the Missile Command; and Adm. Northwood.

Rear Admiral Is Army Guest

The Army Missile Command was host last Wednesday to a Rear Admiral who runs what amounts to a supermarket for military services. The supermarket, located at Dayton, Ohio, deals in electrical and electronic items.

He is Rear Adm. Robert H. Northwood, Commander of the Defense Electronic Supply Center (DESC). DESC is the first single-manager agency within the Defense Supply Agency to handle technical equipment for all the services.

The Missile Command is one of the Army's largest users of electrical and electronic parts from the Admiral's store. Missiles and their supporting equipment require hundreds of thousands of electronic items, from resistors to transistors.

DESC is not really a store in the sense that a buyer wheels a cart along the aisles picking up

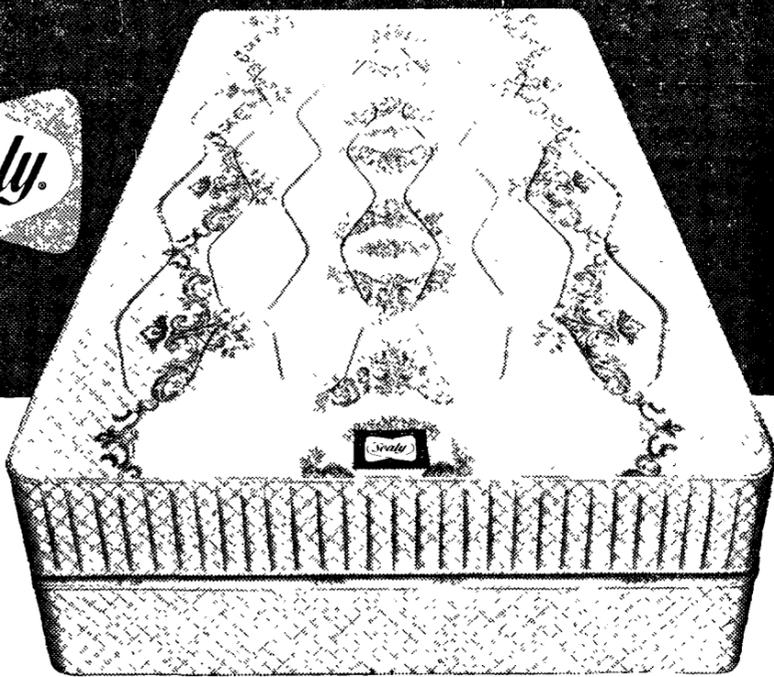
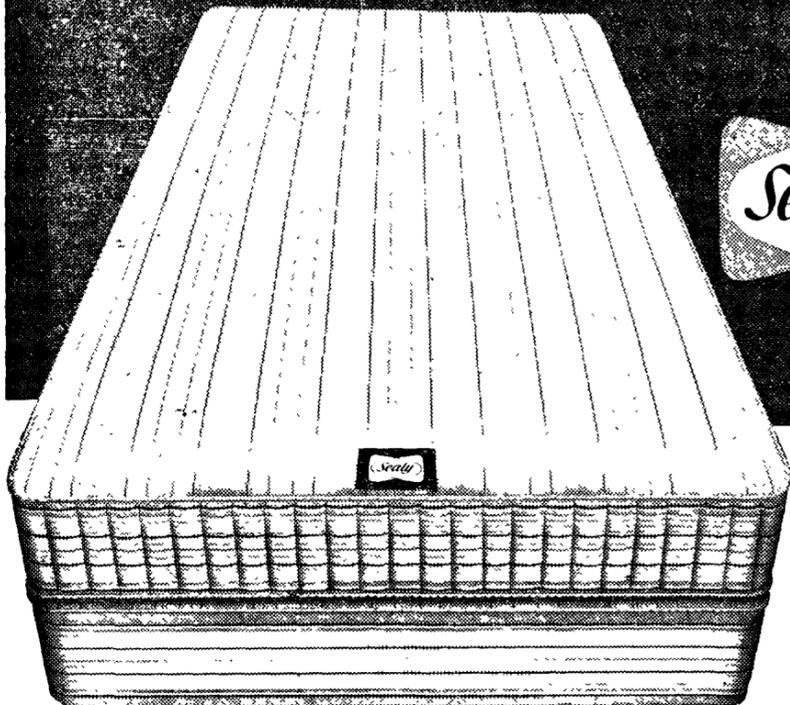
parts he needs from shelves. Instead, it is a vast clearing house to handle the procurement, supply and distribution of common electronic parts—that is, parts used by all services. By buying in quantity the DESC can save money.

Adm. Northwood and Air Force Col. John E. Devine, Chief of the DESC Planning and Management Office, visited Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, and Col. R. W. Van Wert, Director of the Missile Command's Directorate of Supply and Maintenance.

The Senate Finance Committee has approved legislation to increase monthly indemnity compensation payments to service widows from \$112 to \$120.

ENJOY "OK" USED CAR SAVINGS
B-U-Y W-I-T-H
WARRANTED CONFIDENCE
HILL CHEVROLET CO.

NEVER BEFORE... 2 values in one sale guaranteed like this



THE SAME GUARANTEE
AS FOUND ON SEALY'S
\$59.50 MATTRESS — ONLY

\$39.88
FULL OR
TWIN SIZE
box spring also \$39.88

Sealy 83rd Anniversary

A bedding set with a 10 year guarantee... the same guarantee found on a Sealy mattress priced at \$59.50. Now Sealy's firm 83rd Anniversary Mattress merits the same guarantee of mattresses costing almost \$20 more! Come in today and compare these fine features.

SET GUARANTEED 10 YEARS / If structurally defective, free repair first year. Proportionate annual use charges thereafter.

- Famous Sealy FIRM construction
- Heavy 8-oz. woven stripe cover
- Smooth button-free top
- Exclusive Sealy Edge Gards*
- Pre-built borders for added support

THE SAME GUARANTEE
AS FOUND ON SEALY'S
\$69.50 MATTRESS — ONLY

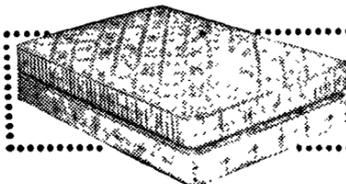
\$49.88
FULL OR
TWIN SIZE
box spring also \$49.88

Sealy Anniversary Supreme

Fifteen years from now you'll still be enjoying the same superb comfort and support... this set is guaranteed 'til 1979! Up to now this guarantee came only on a Sealy mattress priced at \$69.50. Now it can be offered on Sealy's Anniversary Supreme—selling for \$20 less. Look at all you get!

- Famous Sealy EXTRA FIRM construction
- Sealon cover in smart panel print
- Quilted to luxurious Sealyfoam*
- 312 quality steel innerspring coils
- Edge Gards* prevent sagging borders

SET GUARANTEED 15 YEARS / If structurally defective, free repair first year. Proportionate annual use charges thereafter.



from the makers of the world's finest mattress
SEALY POSTUREPEDIC*
No morning backache from sleeping on a too-soft mattress **\$79.50**

HALE BROS. FURNITURE CO.

106 Jefferson St. — Phone 536-8508 or 536-8509 — Downtown Huntsville



AOA LEADERS—Newly-elected officers of the Tennessee Valley Chapter, American Ordnance Association, pose following their election at annual meeting last week. From left are: Col. O. M. Hirsch (Ret.), NASA, named to board of directors; J. H. Goodloe, Thiokol, vice president; Col. E. R. Billings (Ret.), vice president; A. A. Demetriou, Northrop, president; P. K. Schaeppi, Missile Command, vice president; H. R. Lowers, Missile Command, board of directors; A. F. Wild, General Electric, secretary-treasurer, and D. H. Newby, NASA, national council member.

Combat Development Has New Physical Science Man

George H. Youmans Jr. has recently been assigned to the Combat Development Command at Redstone Arsenal, Ala., as a physical science advisor. He formerly was with the Combat Developments Command's Ordnance Agency at Aberdeen Proving Grounds, Md., in the evaluation and material developments division.

The CDC is the branch of the Army devoted to planning long-range needs in weapons and supplies. Lt. Col. William Paris is the chief of the Redstone agency which is housed at the Ordnance Guided Missile School.

Youmans was graduated in 1949 from Georgia Institute of Technology with a B. S. in industrial management and from Johns Hopkins in 1959 with a B. S. in engineering.

He served in the U. S. Army from 1950 to 1952 as an enlisted man and later was commissioned in the Maryland National Guard where he was a major and served as assistant G-4 officer in the 29th Infantry Division.

The people are entitled to the most efficient public service we can devise. The way to provide such service is to make sure that all Government employees, except those in top policy jobs, are under the merit system.

—Harry S. Truman

BORROW

\$2200 REPAY \$24.43

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Amount	Mo. Pymts.
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\$2,000	\$22.21
\$3,000	\$33.31
\$5,000	\$55.52

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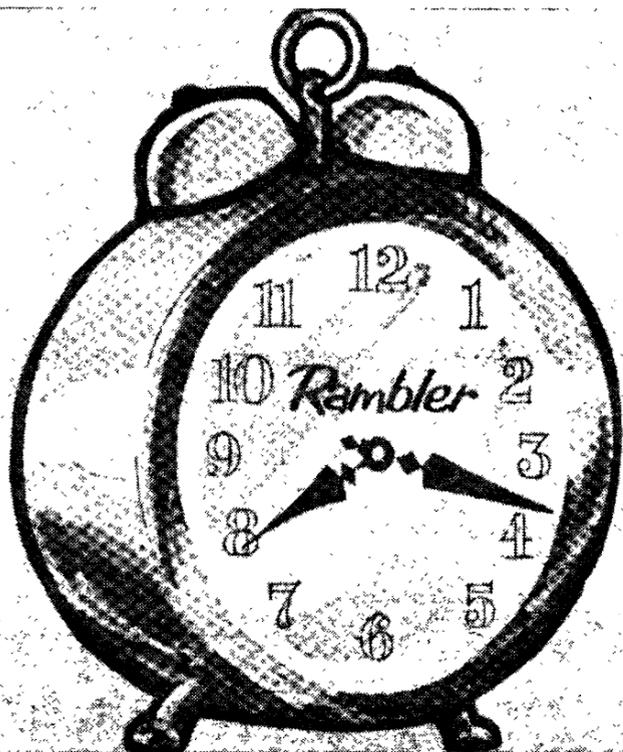
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6% RETRO-ACTIVE AUGUST 1, 1963

Coupon No. 1 — Redeemable Feb. 1, 1964

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IT'S TRADIN' TIME!

Terrific 1964 Rambler Sales

Are Bringing In **SELECT Trade-ins!!**

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UNUSUALLY GOOD FINANCING AVAILABLE

YOU'LL WANT TO TEST-DRIVE ONE OF THESE CARS

1962 LARK — 4-door, O'drive. \$1275	1961 CHEVROLET—4-dr. Sedan with automatic transmission and heater. \$1075	1960 FORD—Fordor V8 with standard shift, radio and heater. \$975.	1960 SIMCA—4-dr. Radio and heater. \$575	1959 CHEVROLET — 2-dr. "6" with radio, heater and standard shift. \$875
1960 FALCON — 4-dr. Radio, and heater. \$1075	1958 PLYMOUTH—Station Wagon with radio, heater and automatic transmission .. \$675	1960 CHEVROLET—2-dr. with radio, heater and standard transmission. \$1175	1954 METROPOLITAN \$375	1962 FALCON—Futura 2-door, with radio, heater and standard shift. \$1275
1959 FORD—2-dr. Radio and heater. Automatic shift. .. \$875	1959 FORD—Hardtop 2-Dr. Radio and heater. Automatic shift. \$875	1958 RAMBLER—Classic Station Wagon with radio and heater. \$675	1956 METROPOLITAN — New Motor. \$575	1956 HUDSON — Sedan with radio, heater and automatic transmission \$475
1960 RAMBLER—Classic Station Wagon with radio, heater and automatic shift. \$1175	1960 FORD—Tudor with radio, heater, "6" cylinder engine and standard shift. \$975.	1959 FORD — Station Wagon with radio, heater, automatic shift and factory air conditioning. \$1175	1957 DODGE — Station Wagon with radio, heater and automatic transmission. \$675	1958 CHEVROLET — Nine passenger station wagon with radio, heater, automatic shift and its unusually nice. \$975

NOTHING DOWN AND \$17.42 PER MONTH WILL BUY:

1957 DeSOTO	1953 OLDSMOBILE
1955 DeSOTO	1956 CHEVROLET
(2) 1955 OLDSMOBILES	1956 PLYMOUTH
1955 FORD	1953 RAMBLER

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Rambler
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529 MERIDIAN ST. N. PHONE 534-4514

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COMMAND SHIFTS
New commanders have been named for two companies at the Ordnance Guided Missile School. Capt. Hershel P. Entrekin, formerly commander of "A" Company of the School Troop Command, has been named command-

er of the 3d ETC, STC. He replaces 1st Lt. Wesley N. Laing Jr., who has been shifted to S/2-S/3 office of STC. Taking command of "A" Company, STC, is 2d Lt. Henry E. Culbertson, formerly S/2-S/3 officer at STC.

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Civil Service Has Openings

The board of U. S. Civil Service Examiners has announced openings in three fields and the closing of one examination.

Openings are on Announcement No. AT-35-1(64) for electronic

Rorex, Electrician, Post Engineer; Betty K. Amacher, Clerk (Typing), Provost Marshal Division.

maintenance technicians (computer) in grades GS-5 through GS-10;

Announcement No. AT-35-2(64) for air traffic control specialist (tower) and supervisory air traffic control specialist (tower) with grades ranging from GS-7 through GS-10;

And Announcement No. AT-35-3(64), for statisticians in engineering economics, general, operations and administration and for survey statisticians with grades ranging

from GS-9 through GS-14.

Announcement No. AT-35-15(62) for supervisory air traffic control specialist (station) closes at the close of business today.

The observance of the letter and spirit of the civil service law is the first requisite in obtaining clean, decent, efficient Government service in any branch or bureau of Government. —Theodore Roosevelt.



FUND DRIVE STARTS—School Troop Commander Maj. Leonard A. Stanley Jr. (center) gets checks from Mike Deegan (left), Comptroller for the Ordnance Guided Missile School, and Col. William J. Macpherson, commandant, to start the fund raising campaign of the National Health Agencies and the Federal Services Joint Crusade for 1964. Maj. Stanley is chairman of the drive for OGMS. The drive will last until April 30.

INCENTIVE AWARDS

CERTIFICATE OF ACHIEVEMENT

Joseph N. Beaver, Supv Accountant, Finance & Accounting Office; Beulah P. Kennamer, Accounting Technician, Finance & Accounting Office.

OUTSTANDING PERFORMANCE

William H. Klieber, Fire Prev Prog Admin, Post Engineer; Billy Brown, Supv Elex Maint Tech, Maintenance Support Division; William E. Potter, Fixed Ind Equip Repr Fmn, Charlie A. Copeland, Fire Fighter, Post Engineer; Emmett N. Creekmore, Supv Trng Instr, OGMS; LaVain H. Bowman,

Secretary (Steno), Dir of Proc & Prod.

OUTSTANDING PERFORMANCE QUALITY INCREASE

Ray Jones, Security Specialist, Asst for Intell, Opers & Sec; Burmah R. Lee and Mamie B. George, Telephone Opns Supervisors, Asst for Communications; Arthur J. Hogan, Security Specialist, Asst for Intell, Opers & Sec; Ruby G. Bowman and Mary A. Langner, Telephone Operators, Asst for Communications.

OUTSTANDING PERFORMANCE SUSTAINED SUPERIOR PERFORMANCE

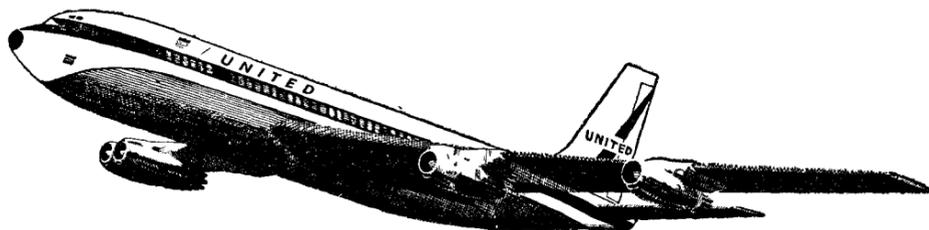
Jane F. Bentley, Librarian, and Arthur D. Criswell, Engineering Technician, Directorate of R&D; Marvella A. Hamilton, Clerk General (Typing), PERSHING Project Office; Julian Davidson, General Engineer, Directorate of R&D.

SUSTAINED SUPERIOR PERFORMANCE

Charles S. Weaver, Mail & File Clerk, Asst for Pers & Admin.; Carl A. Boyd, and Horace L. Broyles, Supv Supply Clerks, Adjutant Division;

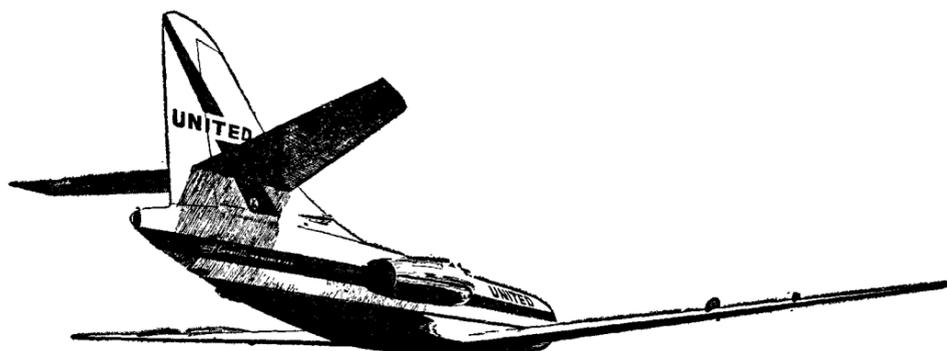
Hilda M. Patte, Accounting Clerk, and Ida L. Shumate, Voucher Examiner, Finance & Accounting Office; Ernest Nevels, Truck Driver, and Nancy R. Martin, Clerk Steno, Directorate of R&D; Corinne S. Bass, Secretary (Steno), Dir of Missile Intelligence; Louis B. Hatley, Electrician, and James L.

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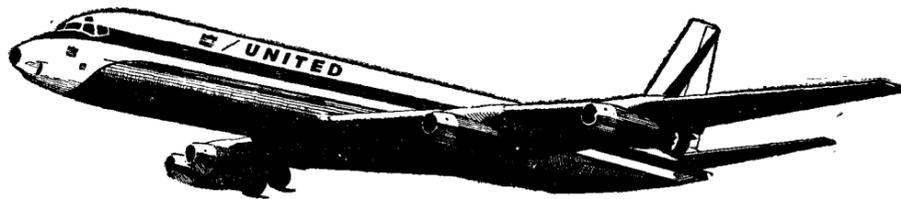
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The military standby fare (half the jet Coach fare) applies to First Class flights on all Caravelle jets, except "Executive" flights between New York and Chicago.



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Of course, the plan applies on all our jet Coach flights (or First Class if Coach is full) and on all propeller flights too. If you want the widest choice of services under the military standby fare plan, stand by with United Air Lines. Just come to the United ticket counter, or your base airline ticket office (JAMTO) in uniform and with a copy of your leave authorization or discharge papers (within seven days after discharge). Members of the National Guard or Reserve military units are not eligible for military standby fares.



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1959 STUDEBAKER

4-dr. Deluxe, std. shift. Decent condition. Good tires. New paint. AS-IS. \$485.90

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Madison Street Branch — Five Points Shopping Center

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Page 14 The Redstone Rocket — January 22, 1964

1. For Rent

FOR RENT—5 room, unfurnished apartment located at 2304 Whitesburg Drive, \$125 per mo., heat furnished. Call 534-0183 1-22c

FOR RENT—3 room furnished apartment, private bath, front and back entrance, water furnished, \$60.00 per month. Phone 772-6628 1tp

WATERFRONT COTTAGE FOR RENT—Completely furnished, two bedroom, fire place, large livable area, fishing dock. Pine Island S/D—One month or long lease. ED NEELY REAL ESTATE, Box 224, Guntersville, Ala., 582-3914. 1-22c

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tfc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial 534-6452. tfc

FOR RENT—Two nicely furnished 3 room apartments, private bath, tub and shower, private entrance, off street parking, natural gas heat, 417 and 419 East Clinton Ave., Couples only. \$75.00 per mo. Also one 2-room bachelor apartment, upstairs, 419 E. Clinton St., \$60.00 per mo. Phone 534-5127 or 534-4551. tfc

FOR RENT—TV's, portables, UHF-VHF, by day, week or month. Phone 536-9761. Central TV and Stereo Co., Inc., Corner Governors Drive and Parkway. Open 8 a.m. to 7 p.m. daily. tfc

2. Cars For Sale

CASH! FOR YOUR CAR—We need all makes and models. We will pay you more. We buy and sell imports, too. TEXAS AUTO SALES, Phone 536-6121. tfc

1958 CHEVY Bel-Air 2 door 6 cyl. Automatic, power steering Red & White, very clean \$695.00 Universal Motors Used Car Dept. No Memorial Parkway. Phone 539-7456 1tp

1958 DODGE 4 door hardtop full power new tires and paint \$695.00. Universal Motors Used Car Dept. No. Memorial Parkway Phone 539-7456 1tp

ENGLISH FORD—4 dr. Consul, extra clean, '60 Model ideal economical transportation no money down to qualified buyers or \$790.00 cash. Universal Motors Used Car Dept. Phone 539-7456 1tp

1959 STUDEBAKER 4 door deluxe 5 S. descent condition good tires, new paint as is \$485.00. Universal Motors Used Car Dept. Phone 539-7456 1tp

1959 CHEVROLET Blue standard shift 6 cyl. 2 door extra good mechanically, clean inside and out as is \$893.76. Universal Motors Used Car Dept. Phone 539-7456 1tp

1954 CHRYSLER Deluxe — A sound old car drives easy, good tires as is \$198.00 Universal Motors Used Car Dept. Phone 539-7456 1tp

GOOD SECOND CAR—1957 Ford 2 door hardtop Black body is a little rusty but it runs good, rebuilt transmission this week, only as is \$198.30 Universal Motors Used Car Dept. Phone 539-7456 1tp

GOOD TRANSMISSION 1957 Chevy 2 door V-8 stick shift green, good tires, needs seat covers as is \$393.98 Universal Motors Used Car Dept. Phone 539-7456 1tp

1956 FORD FAIRLANE—Extra clean, Thunderbird engine, Ford-O-Matic trans, radio, and heater, new battery. New tires Must sell for \$450.00 or best offer. Phone 539-2464. tfc

3. Miscellaneous

INCOME TAX RETURNS Confidentially prepared. For appointment 534-0131 after 5:30 p.m. tfc

MODERN HEALTH CLUB SERVICES—Central Y.M.C.A., 203 South Greene St. is offering massages, turkish baths, electric heat, cabinets, ultra-violet and infra-red lamps, diathermy sun lamp, swimming pool. Graduate masseur in charge. Phone 534-2444. tfc

FOR SALE—Newly reupholstered couch and chair, like new condition. Phone 539-0382. tfc

ANNOUNCING—Our new location as of 15 January 1964. 915-F Franklin Street, SE (Franklin Center) ABS SECRETARIAL SERVICE. We appreciate your patronage and look forward to serving you in the future. Phone 534-6451 or 536-5992

FOR SALE AT A BARGAIN—2 Air Conditioners. 1 2-ton Fedders used 3 summers; one 34-ton 110 used one summer. \$125.00 each. One antique console radio. A rare item. Must see to appreciate. Phone 852-2063. 1tp

NEW UHF CONVERTERS \$11.97
North Alabama's largest sales and service dealer for Zenith, RCA and Motorola TV and Stereo. Our prices are equal to or lower than advertised so called "discount or wholesale" prices. Price, then compare. Our merchandise is visually priced tagged at all times. We accept trade-ins. Used TVs sold for \$20 and up. We service all makes and models. Picture tubes, 21 in. 90 degrees, \$21.00 exchange with 1 year guarantee. TV rentals by day, week or month.
CENTRAL TV & STEREO CO.
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Phone 536-9761

ALL KINDS OF USED FURNITURE Trade-in on mobile homes. All kinds of appliances. See at Texas Auto & Mobile Home Sales. 1003 Meridian. No phone calls please! tfc

4. Mobile Homes

SEE OUR FULL LINE OF—Mobile Homes—or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. tfc

FOR SALE BY OWNER—10'x41' 1958 Marlette, 2 bedrooms, like new. 426 Paradise Park, phone 539-8134. 1tp

5. Houses, Lots - Sale

FOR SALE—New Brick Home in Arab, 3 bedrooms 1 1/2 ceramic baths birch paneled, Kit—Den, paved street city water Hyatt Sub Division Call 534-1720 or 539-5880 1-22-p

FOR SALE!
19 ACRES located 12 miles northeast of Cullman, 38 miles of Huntsville — COUNTRY ESTATES, all city conveniences. Large 3 bedroom brick home, 2 good wells, 1700 sq. ft. of living space, large oak shade tree, 2 full baths, gas heat, large patio and barbecue pit, large barn, two 10,000 capacity chicken houses, good fish pond, fallout shelter, fenced and cross fenced. All this for only \$27,500.00. tfc

22 ACRES, choice retirement property, tract located in a thickly settled community, 20 miles south of Huntsville on black-top highway. Area is a highly developed agricultural section. Has 6 room dwelling, 3 bedrooms, bath, fine well, good barn, won't last long. \$8,000.00 E. G. WILLIAMSON, Real Estate Broker, pho. 734-6294, Cullman, Alabama. tfc

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1959 CHEVROLET Blue, std. shift, 6 cyl., 2 dr. X-tra good mechanically. Clean inside & out. AS IS \$893.78
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SPECIAL

the U. S. Army Ordnance Guided Missile School.

Mrs. Luz Velez, wife of the newly promoted officer assisted Colonel William J. Macpherson, commandant at the Missile School in pinning on the bars.

WO Velez entered the Army in 1950, before entering the service he was employed by the Department of Education, San Juan, Puerto Rico as a junior high school teacher.

PROMOTED TO WARRANT OFFICER

SFC Carlos R. Velez, son of Mr. and Mrs. Carlos R. Velez, Laoco, Puerto Rico was recently promoted to the rank of Warrant Officer at

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JOHN F's FURNITURE SUPER MART
On Highway 231 North at City Limits of Shelbyville
"Location: Old Parker Furniture Co. Bldg."
Thousands of Arsenal People Know This As The
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Information Center Holds Open House

Top scientific officials from the Army and National Aeronautics and Space Administration received an extensive briefing on the centralized Redstone Scientific Information Center.

In the Center's newly-completed facilities, officials, including three technical experts from Washington, D.C., saw and heard described the newest techniques and methods for securing and disseminating information for missile and space programs, both present and future.

Among the officials on hand for the informal open house were Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command; Harry Gorman, Deputy Director for Administration of the Marshall Space Flight Center; and Col. Andrew A. Aines, director of Army Technical Information, Office of Research and Development of the Department of the Army.

Others included Melvin S. Day,

Director, Office of Scientific and Technical Information, NASA; Dr. Robert B. Stegmaier, Jr., Administrator of the Defense Documentation Center; and Fred Koether, Technical Information Office, Advanced Research Projects Agency. The Information Center is available to scientists and engineers of both the Army missile programs and to personnel engaged in projects for the National Aeronautics and Space Administration. In addition, the Center serves industry, both on Redstone Arsenal and off. Serving as host was F. E. Croxton, director of the Center.

Officials have pointed out that the Redstone Scientific Information Center is believed to be the first major program where different government elements have combined efforts to disseminate technical information.

In addition to an extensive technical library, the Center includes a Translation Branch and a Research Branch capable of conducting investigations to answer any scientific question in depth.

An Information Program Branch, concerned with improving information systems, is also a part of the Center.

The Redstone Scientific Infor-



INFORMATION CENTER DESCRIBED—Col. D. F. Shepherd points out different sections of the Redstone Scientific Information Center during a recent tour for Washington and local visitors. Looking on from left to right are Col. A. A. Aines, Chief of Army Technical Information; Melvin S. Day, director of the Office of Scientific and Technical Information, National Aeronautics and Space Administration; Dr. Robert B. Stegmaier, administrator of the Defense Documentation Center; Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command; and Fred S. Koether of the Technical Information Office, Advanced Research Projects Agency.

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ation Center was organized to provide services to both the Army Missile Command and the Marshall Space Flight Center, in addition to private concerns working on related government contracts. A branch of the office of the Defense Documentations Center, administered by the Defense Supply Agency in Washington, is attached to the RSIC organization.

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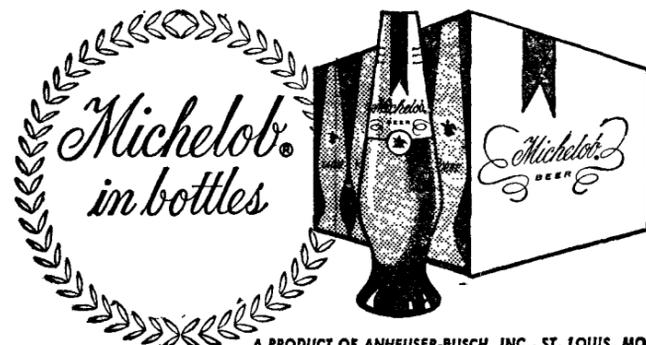
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WEDNESDAY, January 22
"The Student Prince" (F)
THURSDAY-FRIDAY, January 23-24
"Soldier in the Rain" (M-YP)
SATURDAY, January 25
"Hide and Seek" (M-YP)
SUNDAY-MONDAY, January 26-27
"Beach Party" (M)
TUESDAY, January 28
"Stolen Hours" (M-YP)
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SUPPORT COMMAND INITIATES VALUE ANALYSIS STUDY COURSE

Value analysis, a new program in the Army Missile Support Command, is being studied by key personnel, Col. Thomas W. Cooke, Commander, announced.

The first classes in a Value Analysis Training Course were held on Jan. 20-21. Approximately 20 people from the Support Command were in the first class at which Col. Cooke was introduced by Lt. Col. Robert F. Kriz, Chief, Control Office. Col. Cooke stressed the importance of the use of value analysis as a method for detecting and eliminating unnecessary cost.

Secretary of Defense Robert McNamara has identified value analysis as one of the vital areas of cost reduction which will help minimize the cost of our defense effort.

Instructors for the course are Bill Edwards, John V. Yelverton and Owen Hitt of the Missile Sup-

port Command Office, and Dr. B. E. Bess, Occupational Health Service psychologist.

F. H. Ellingsen, Chief, Management Services Branch of the Control Office, is manager of the program with Louis V. Jackson serving as program principal.

The Army Missile Command has had an active value analysis program for several years—applied to missile hardware. Application of the technique to conventional military activities is still relatively unexplored. The Missile Support Command's effort will be among the pioneers for application to the latter.

Organized methods for eliminating unnecessary cost in products and functions is equally applicable to private enterprise and government operations and is being applied by both to attain maximum output for minimum cost.



VALUE ANALYSIS COURSE PLANNERS—Lt. Col. Robert F. Kriz (center) and the men from the Army Missile Support Command Control Office meet to coordinate last minute details before the value analysis instruction sponsored by the control office begins. The people involved (clockwise) are: O. E. Hitt, Control Office, Dr. B. E. Bess, U.S. Army Hospital; Bill Edwards, John V. Yelverton, Louis Jackson and F. H. Ellingsen, all members of the Control Office staff. Ellingsen is in charge of the newly initiated value analysis training with Jackson as his assistant. The others will instruct the course.

CADETS SOUGHT

Commanders in the Third Army area are being urged to seek out qualified enlisted men and encourage them to apply for enrollment at the U. S. Military Academy, Col. William J. Macpherson, commandant of the Ordnance Guided Missile School, said today.

Enlisted men can obtain information on examination requirements from their immediate commanders, Col. Macpherson pointed out. They must fill out a DD Form 207 and forward it, together with a request to take the test, through their commanders, he said.

Selections are made solely on the basis of performance in the scholastic aptitude test of the College Entrance Examination Board, Col. Macpherson said.

HABIT FORMING

SFC Stanley Wojciechowski seems to make a habit of collecting "Best Mess" awards. He won again for December—his fourth.

SFC Wojciechowski is mess steward of Mess number three at the Ordnance Guided Missile School.

Col. William J. Macpherson, commandant, presented the plaque to Wojciechowski.

CSC STAFF MOVES

Civil Service Commission's headquarters staff has moved from two of the oldest Federal office buildings in Washington to the newest. The old Patent Office Building, begun in 1836, and the Pension Building, built in 1883, as well as spaces in Temporary Building E and 800 E Street, NW., were vacated recently, and all CSC headquarters personnel are now housed under the same roof for the first time in many years in new Federal Office Building No. 9 at 19th and E Streets, NW.



OOPS! — Pfc Lawrence B. Goodman discovers the importance of expert care in dismantling a field mine at Fort Bragg, N.C. He has accidentally tripped the detonator of a realistic training aid, starting a flash of powder almost as startling as the real thing. New methods of realistic instruction make clear the necessity of knowing exactly what to do, and how to do it.

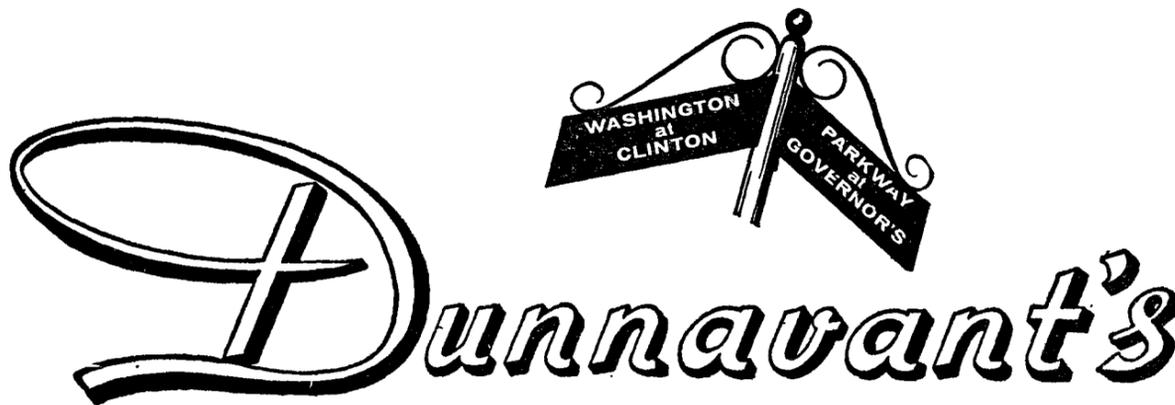


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