

Arsenal-Wide

Spot News

Dial 112

The Redstone Rocket

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VOL. XIV; NO. 21

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

OCTOBER 6, 1965

NEW CENTER OPEN HERE

Propulsion Technology, Management Center Opens At Missile Command

A Rocket Propulsion Technology and Management Center has been established at the U. S. Army Missile Command with the mission of supporting Army-wide research and development of missile and rocket propulsion systems.

Named as Director of the new center is Edward B. Dobbins, a former Army officer stationed at Redstone Arsenal who has been here as a civilian employee since 1958.

In announcing the opening of the center, the Commanding Gen-

eral of the Army Materiel Command, Gen. Frank S. Besson, Jr., said one of its prime objectives will be to obtain coordinated team effort in all of the Army's research, exploratory and advanced development propulsion programs for rockets and missiles, and maintain an effective relationship with the system developers.

The centralized facility will operate as part of the Research and Development Directorate's Propulsion Laboratory, which is directed by Frank W. James. Personnel in

the laboratory who have been doing work now identified with the center will staff it.

Dobbins came to Redstone Arsenal as a civilian employee in 1958, first serving as a unit chief in the Structures and Mechanics Laboratory of the Army Ballistic Missile Agency. Two years later, he was promoted to Chief of the Advanced Propulsion Engineering Branch of the Propulsion Laboratory and held that position until 1964, when he was assigned to the ARPA (Advanced Research Projects Agency) Division of the Research and Development Directorate. There, he was manager of the AMRAD program to design and fabricate reentry targets and HIBEX, an experimental program in high-acceleration technology. His last position before being named to head the Propulsion Center was Chief of the Missiles Experiments Branch of the ARPA Division.

A native of San Marcos, Texas, Dobbins has a bachelor of science degree in mechanical engineering from Texas A&M. After receiving a master of science degree in jet propulsion engineering from Purdue University in 1953, he entered the Army and was assigned to Aberdeen Proving Ground, Md. Two months later, Dobbins was enrolled at the Army Ordnance Guided Missile School, Redstone Arsenal. He was assigned to the Field Service Division of the Army Rocket and Guided Missile Agency after completing his OGMS training. In this position, he served as a Field Service Liaison Officer with duty at Corporal missile plant sites and (See NEW CENTER on Page 3)

Long-Range Zeus Contract Goes To Western Electric

A contract for \$21,580,464 has been awarded to Western Electric Company for development work on an advanced version of the Zeus anti-missile missile. The long range Zeus is one of the two interceptor missiles in the Nike-X system. The other is the shorter range Sprint designed for close in intercepts.

Awarding of the contract was announced Sept. 28 by the Army's Nike-X Project Office.

Designated the DM15X2, the extended range Zeus will be very similar in configuration to the present Zeus; however, it will be slightly longer and heavier in weight. It will employ two solid propellant motors and will carry a nuclear warhead.

Like the present Zeus, the

DM15X2 will be guided in flight by ground based radars in conjunction with high speed computers. It will be capable of intercepting intercontinental and submarine launched ballistic missile warheads outside the earth's atmosphere.

The contract will be administered by the Nike-X Project Office at a subordinate command of the Army Materiel Command. Col. I. O. Drewry is the Project Manager.

Western Electric Company is the prime contractor for the Nike-X system and Bell Telephone Laboratories is responsible for system design and development. Douglas Aircraft Corp., Santa Monica, Calif., airframe subcontractor on the present Zeus missile will also develop the improved version.



STRAIGHTENS PERIODICALS—Miss Lillian M. Long is the newest member of the staff at the Post Special Services Library. Despite polio at age two, Miss Long has also been a school teacher and a high school librarian. She is typical of the reason many employers welcome the physically handicapped—they do the job with no favors asked.

Librarian Proves One Can Do What He Wants To Do

Student Finds Lost Pershing

WHITE SANDS MISSILE RANGE, N.M., Oct. 4—A Pershing missile lost in the Creede, Col., area last November has been found.

Maurice Chassee, 28, of 4025 North Fremont Ave., Tucson, Ariz., found what has been identified as debris of the Pershing missile. The debris was found about 12 miles northwest of Creede. The area is about two and one half miles north of where an intensive search was conducted in August. Identification of the missile was made by a number on one of the pieces. More than 40 pieces of debris have been recovered. Personnel on the site are searching for additional pieces.

Range officials said this morning that Chassee will be paid a \$500 reward offered for information leading to the missile recovery.

Chassee, a graduate student in Geology at the University of Arizona in Tucson, said he was doing field work in the Creede. (See PERSHING on Page 3)

The newest member of the staff at the Special Services Library at Redstone Arsenal is a petite woman with the pixie face of an inquisitive mind ready to tackle almost everything . . .

Miss Lillian Long earned a master of arts degree in library science in 1961 from the University of Michigan but not before she had tried her hand at teaching business and English in high school—typing, after completing a business course at a school in Birmingham, working in the library before she became an accredited teacher with a degree from Alabama State in Montgomery. She majored in business and English.

An Army Special Services librarian provides all the services one would expect in any community library—references for school children, special listings for the hobbyist, relaxation for the soldier and for the busy housewife, and research for the advanced students who use the library for support of scholastic projects. In this case, a child can draw a book as soon as he can legibly sign his name, but his sponsor is still responsible for the withdrawals.

Miss Long works where she is (See LIBRARIAN on Page 3)

Scientists Study Diamonds' Carbon Content

Army researchers at Redstone Arsenal have discovered there is more to a diamond's sparkle than meets the eye.

In fact, scientists at the U.S. Army Missile Command are becoming as enthralled with the glittering jewels as a prospective bride, though, admittedly, for different reasons.

Dr. T. G. Miller, a nuclear physicist with the Missile Command's Physical Sciences Laboratory, tells why.

"By studying diamonds, we find we can determine the nuclear properties of carbon. This data makes it possible to conduct experiments studying the effects of nuclear weapons."

The physicist says diamonds also can be used to measure the polarization of neutrons.

At the moment, Dr. Miller is doing research with a 25-karat diamond loaned to him by the Diamond Research Laboratory at Johannesburg, South Africa. The huge stone, uncut, has been used successfully in experiments by the Radiation Physics Branch of the Physical Sciences Lab.

There were some misgivings, however.

"One theory we had is that a diamond bombarded too long with neutrons might turn into regular carbon," Dr. Miller explained. "I know at first I was afraid to try one of my wife's. But we haven't noticed any ill effects thus far."

Several diamond firms have (See DIAMOND on Page 3)



WHAT A ROCK!—Army physicist Dr. T. G. Miller isn't looking at an ordinary rock. This particular stone is a 25-karat diamond, uncut, which Dr. Miller is using in experiments at the U. S. Army Missile Command. Scientists say the diamond is used to determine the nuclear properties of carbon. Dr. Miller works in the Radiation Physics Branch of the Missile Command's Physical Sciences Laboratory.

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 876-1500.

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Rocket Ruminations

Cynicism is intellectual dandyism.
—George Meredith

Redstone Arsenal Highway ACCIDENT REPORT

	No. of Accidents	Accidents with injuries
Sept, 1964	35	5 with 9 injured
Sept, 1965	31	2 with 4 injured

Handicapped? . . . Not Really!

Elsewhere in today's Redstone Rocket is a story about Miss Lillian Long, a librarian at the Special Services Library. Miss Long makes an unusual subject for a story this week because she is a victim of Polio, suffering a handicap dating back to her second birthday.

Her story makes a particular point this week because we are observing Hire the Handicapped Week, a nationally recognized event.

The Army at Redstone has long been a great supporter of this cause. Among the more than 10,000 civilian employees here are a number who are handicapped, yet perform important work with the same fervor and reliability as those who have been fortunate enough to live with normal physical health.

Our handicapped employees ask nothing of their fellow workers except the opportunity to show what they can do. They have proved themselves as valued members of this important Defense installation.

We take off our hats to Miss Long and all the others who, despite some physical disability, daily prove that it pays to Hire the Handicapped.

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Lee Addresses School Classes At Graduation

The tacit agreement among major powers of the world to ban use of nuclear weapons in limited warfare gives added importance to the role of the missile maintenance technician, a veteran rocket research expert told graduates of the Army Ordnance Guided missile School.

Freeman G. Lee of the Army Missile Command's Air Defense Fire Distribution Systems Office spoke at a ceremony Friday (October 1) in Vincent Hall Auditorium where 22 graduates received diplomas in Nike and Hawk courses. He was introduced by Chief Warrant Officer Charles D. Swick of the OGMS staff.

Today's missile man must be doubly an expert, Lee said, because he must keep his nuclear weaponry in constant readiness while he also maintains the conventional war-

Kentron/Hawaii Will Continue Nike-X Study

The Army's Nike-X Project Office, Redstone Arsenal, Ala., today said it had signed a \$3,863,247 contract with a Hawaii based firm for continued technical work at the Project's Kwajalein Test Site in the Pacific.

The cost-plus-fixed-fee award was made to Kentron Hawaii Ltd., a subsidiary of Ling-Temco-Vought Inc., and will cover a 12-month effort.

Under the contract Kentron/Hawaii will perform operations, maintenance and development of the Kwajalein Test Site range technical facilities.

The test site is operated by the Nike-X Project Office as a research and testing range for the Nike-X missile defense system which is being developed to destroy enemy ICBMs and submarine launched missiles in case of attack.

The contract will be administered by the Contract Office of the Nike-X Project, Col. I. O. Drewry is Nike-X Project Manager. The Project is an element of the Army Materiel Command.

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Troops Begin Training In Ammunition Handling

All personnel of Redstone Arsenal and residents of south Huntsville were advised to expect loud explosions several times a week as the Army Ordnance Guided Missile School begins training ammunition units on two outdoor ranges on the lower part of the military reservation.

Col. Erwin M. Graham Jr., commandant, announced that demonstrations of explosives, which began Tuesday morning at 7 o'clock, will be held throughout each week thereafter. The detonation of a variety of ordnance items will take place on Range 30, about half a mile south of the intersection of Martin and Patton roads and on F Range at the extreme southeast corner of the Arsenal.

Some of the loudest explosions may occur at peak traffic periods, he said, emphasizing that the demonstrations are being conducted under maximum safety supervision.

The new curriculum at the Missile School requires that all students be trained in safe methods of detonating various types of explosives, and much noise and smoke will result from the demonstrations which will be held several days each week for an indefinite period. Some 3,000 ammunition students will take part in the demonstrations during the remainder of the 1965-66 school year.

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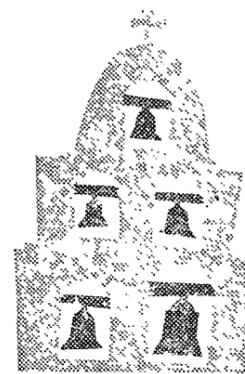
- Check Spark Plugs — Check Ignition Points — Condenser and coil
- Adjust Carburetor — Check and set Timing
- Clean Fuel Bowl and Filter — Check Distributor Cap and Wiring
- Check Fan Belt — Check resistance in Ignition Wires
- Check Starter Capacity — Check Voltage Regulator and Generator output
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LIBRARIAN

(Continued From Page 1)

needed—on the checkout desk; cataloging new acquisitions; and returning items to their rightful places when the user finishes.

For a person with normal limbs, this is a commendable progression up the success ladder, but for Miss Long it took a great deal more effort.

Her story begins when she contracted polio at the age of two. She was living with her aunt, Mrs. Lyda Barton of 404 East 10th Street, Tusculumbia, Ala. Mrs. Barton is her only living relative.

The child, Lillian, was sponsored by the Muscle Shoals Service League which helped obtain hospitalization and rehabilitation for her.

Her early years were spent in a succession of hospitals. She was at the Crippled Children's Clinic in Birmingham, later at St. Vincent Hospital and finally in the West End Baptist Hospital both in Birmingham.

She graduated from a wheel chair to braces and crutches with a built up shoe.

Her first taste of library work was as a part time librarian in high school. When she graduated, she took a business course and was hired at her old high school where they needed a typing teacher. She went to Alabama State, for her teachers certificate. The progression from teacher to fulltime librarian was normal. Library work was her first love.

Like the bus driver who goes for a ride on his day off, Miss Long reads when she has the opportunity—or she sews.

For long trips she prefers a plane, but to get around the countryside and visit with her aunt in Tusculumbia she drives her specially built car.

She says, "I love a vacation." She can prove it. Her travels have taken her into California and south to Mexico and east to New York and into Canada.

DIAMOND

(Continued From Page 1)

volunteered to loan diamonds for experiments, Dr. Miller said, including Harry Winston, Inc., of New York.

He explained how tests are conducted:

Neutrons produced by a Van de Graff generator are impinged on the diamond which emits sparks, or flashes, called scintillations. The number of scintillations per second can be used to calculate nuclear properties of carbon.

Several different grades of diamonds will be checked in future tests, Dr. Miller said, to determine if one grade scintillates better than another. And if tests prove successful, "we might use diamonds instead of liquid helium in measuring the polarization of neutrons."

A native of Bainbridge, Ga., Dr. Miller earned his PhD from North Carolina State College. He is a graduate of Berry College in Rome, Ga., and Emory University in Atlanta, Ga. He has been employed at Redstone Arsenal since

PERSHING

(Continued From Page 1)

area for a graduate project when he found the pieces Thursday. He called the range that evening.

Chassee is a 1st Lt. in the Corps of Engineers, USAR.

A recovery crew from White Sands arrived at Creede by helicopter Saturday and returned here with the piece Monday.

The missile was launched from Hueco Range, Ft. Bliss, Texas, just south of White Sands on Nov. 19, 1964, by a Ft. Sill, Okla., missile battalion. The Pershing, programmed to impact 100 miles north of the launch area, soared into Colorado in an unexplained overshoot of its target area. Recovery teams from White Sands have made three attempts to locate the missile using helicopters and men on horseback.

NEW CENTER

(Continued on Page 1)

Sixth Army area Nike missile sites.

Dobbins was released from active duty in 1957 and worked as a research engineer with Lockheed Missile Space Division, Palo Alto, Calif., before returning to Redstone Arsenal.

He is married to the former Miss Rosemary Ann Robbins of Hornell, N.Y.

The Propulsion Center will be on the same level as the Inertial Guidance Technology and Management Center, which was established at the Missile Command in 1963 to funnel Army work in the area of missile and rocket on-board guidance controls.

Stanford Research Gets Nike-X System Contract

The signing of a \$1,602,119 contract with the Stanford Research Institute for continued research work on the Army's Nike-X missile defense system was announced Oct. 1 by the Nike-X Project Office.

SRI will perform effectiveness studies on the system at its facilities at Menlo Park, Calif., and Huntsville, Ala.

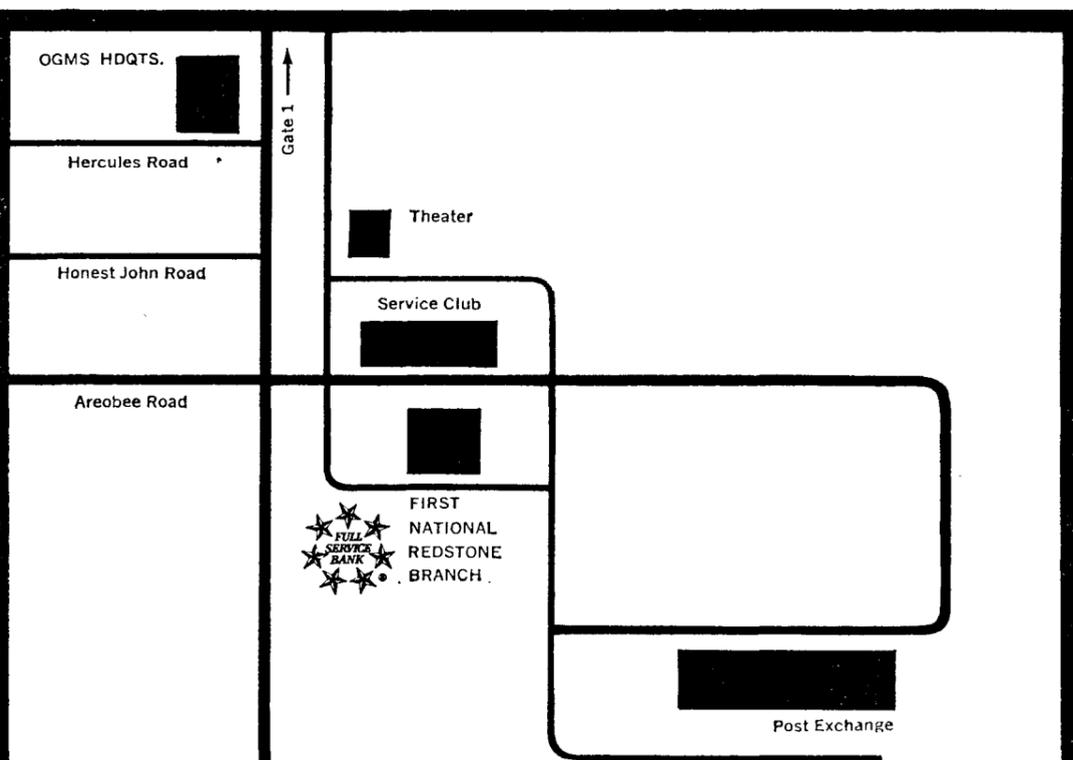
The Nike-X system is being developed as a defense against enemy intercontinental ballistic missiles and submarine launched ballistic missiles.

Under the twelve month contract SRI will, among other things, perform computer simulations of Nike-X engagements.

The cost-plus-fixed-fee contract will be administered by the Nike-X Project office. Col. I. O. Drewry is the Project Manager. The Project is an element of the Army Materiel Command.

1958.

Dr. Miller will present a paper, "Diamond as a Neutron Scintillation Counter," to the Southeastern Section of American Physical Society on Nov. 1-3. The Society will meet at the University of Virginia in Charlottesville.



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SOCIAL ^{and} CLUB EVENTS

Fall Fashions To Be Theme Of Wives Club Show Tuesday

The Fall Fashion show to be sponsored by the Redstone Officers Wives Club will have an international note injected by members who will model costumes native to foreign lands. A number of the models who own the costumes will represent their own native lands. The native American products will be from Jean's Dress Shop

and will be worn by models from the Margaret Lindberg Fashion Model Agency.

Reservations for the lunch and show will be handled by Mrs. William Hooker, 877-5759; Mrs. Wesley L. Taylor, 877-5257; Mrs. Ralph L. Nearhoof, 539-6997, and Mrs. Errol E. Hayes, 877-5262. Reservations can be made until noon Friday, cancellations until noon Monday. The cancellations are taken by Mrs. John Boyes, 877-5144 and Mrs. Nearhoof.

Mrs. Erwin M. Graham named Mrs. C. E. Chapman and Mrs. H. C. Sanford to arrange the decorations, and Mrs. Peter Kostoff and Mrs. O. L. Cox to handle details of the menu. Mrs. Charles M. Hersh will take care of the name tags.

The event will begin at 12:30 p.m.

Peter Pan To Be First Fantasy Play

"Peter Pan" will be presented Oct. 9 and 10 as the first production of Fantasy Playhouse for Children in Huntsville for the current season.

"Cinderella" is scheduled as the second presentation of the series on Dec. 4 and 5. Jo Linger, Fantasy Playhouse director, has written a special version of this children's classic.

Completing this season's most exciting series will be "Sinbad the Sailor," adapted by Jack A. Melanos from the Arabian Nights for the stage, and to be presented May 26 and 27.

Directing "Peter Pan" will be Alice Handley, a newcomer to the Rocket City's theatrical scene, who was active with the Oswego, New York community theatre group in acting, directing, costuming and publicity. Mrs. Handley earned BFA and MFA degrees from Ohio University and has taught in Texas, New York state and Ohio.

Assistant Director of "Peter Pan" is Helen Herriott, who came to Huntsville from Seattle two years ago, and who was active in theatre work in Wisconsin, Illinois, California and Washington. She is currently secretary of the Board of Fantasy Playhouse.

Each performance of the scheduled series of children's classic

MRS. MULLINS WINS

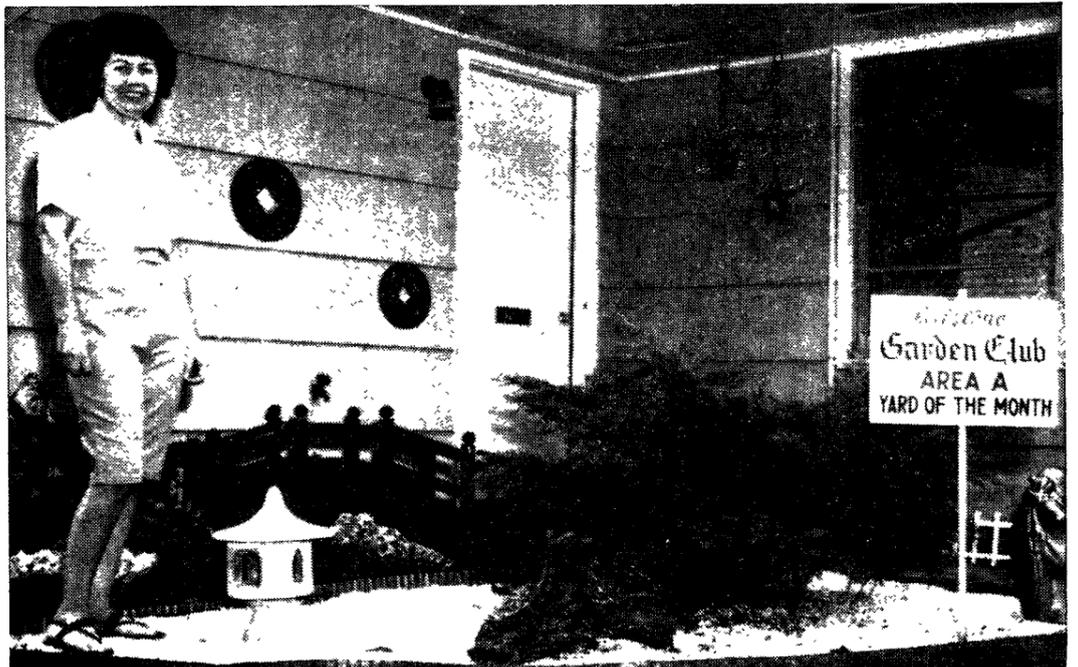
Monday bridge competition at the Redstone Officers Open Mess last week was won by Mrs. J. D. Mullins in first place, Mrs. J. F. Tyson, second, and Mrs. George Dunlap, third.

Reservations are handled by Mrs. Raymond Astor and Mrs. Peter Kostoff.

Nine tables of players attended the event.

plays will begin with a matinee at 2:30 p.m. on Saturday followed by an evening performance at 7:30 p.m. Saturday night and concluding with a 2:30 p.m. Sunday matinee.

Season tickets are \$2.00 for students and \$3.50 for adults, and may be obtained by remitting to Fantasy Playhouse in care of The Arts Council, Inc., 311 West Clinton Avenue in Huntsville. General admission tickets for each play may be obtained at the box office at time of performance at Huntsville High School Auditorium.



THE BEST IN SEPTEMBER—The Redstone Arsenal Officers Wives Garden Club plaque for the winning yard this past month in Area "A" (top photo) went to Air Force Maj. and Mrs. Wallace Jeancon, 14 Ripley Dr. for the Japanese garden they arranged in front of their quarters. The Area "B" winners (center) were Navy Cmdr. and Mrs. J. L. Pateur, 430 Skinner Dr., and Army Capt. and Mrs. H. H. Duffey, 202-D Dyer Circle won the Area "C" award (bottom). The Yard of the Month awards are made each month except in January and February. The Garden Club is an activity sponsored by the Redstone Arsenal Officers Wives Club.

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HIS AND HERS—Ron Fleetwood and Linda Wilcoxon model matching sweaters in yellow at the Redstone Service Club fashion show. Linda's skirt is black, and so are Ron's pants. The Service Club sponsors two fashion shows annually. Approximately 300 people attended this one.

Mrs. Cantrell Wins

Twelve tables of players participated in the Thursday bridge competition sponsored by the Redstone Officers Wives Club at the Open Mess Thursday.

Mrs. Ralph Cantrell was the

winner with Mrs. Peggy Lawson in second place and Mrs. B. A. Saholsky in third.

Mrs. J. L. Estes came out low scorer.

Reservations to play with the group are handled by Mrs. A. V. Garrabraut.

Functions and Personnel Resources Being Realigned

During the remainder of this year, a realignment of functions and personnel resources will be underway at the Army Missile Command, it has been announced by Maj. Gen. John G. Zierdt, Commanding General.

Since last Spring the Command has been in the process of perfecting utilization of its manpower following full development of the Project Manager Offices for its missile programs. The Command has completed studies to arrive at the best possible personnel pattern to accommodate project management and a distribution of personnel among project managers and the functional directorates — Research and Development, Procurement and

Production, and Supply and Maintenance.

As missile systems under project management mature and are fielded, the Procurement and Production and the Supply and Maintenance Directorates, under the new arrangement, take on more of the in-depth, operating job for the Project Manager under his directions.

On the other hand, new missile systems evolve from the research and development effort and continually come into being leading to project management offices requiring growth of their staffs.

The first move will be to equalize personnel strength among the ten

present project offices, taking some from those which manage fielded missiles, and adding to those recently placed on project management status.

Following smoothing of the personnel patterns in the project management offices, personnel for the three directorates will be moved incrementally by 1 July 1966, to jobs in the three functional directorates according to their experience and qualifications and the needs of these functional elements for each weapon system.

These actions do not involve any decrease in the number of people employed at the Missile Command. In fact the total work load for the missile systems is growing.

Army Opens OGC Door To Graduates

The Army is accepting applications from college graduates without prior military service for enlistment for a special training program leading to a commission as a second lieutenant.

College seniors and those already graduated from accredited colleges may apply for active duty and assignment to Officer Candidate School. Those accepted under this program will have a guarantee of assignment to one of the nine schools after successful completion of basic and advanced individual training.

The Army recently announced expansion of the training program, increasing the annual total of candidates from 3,400 to 11,700 beginning in October, and increasing the number of schools to nine.

To meet the increased requirement for junior officers in the expanding Army, Ft. Benning, Ga., Ft. Sill, Okla., Ft. Belvoir, Va., Ft. Gordon, Ga., and Ft. Knox, Ky.,

will conduct officer candidate schools of twenty-three weeks duration.

There are openings for all branches of the Army: the three combat arms—Infantry, Artillery, Armor—and technical and specialist services. Applicants may indicate a preference.

Candidates for commissions in Quartermaster, Transportation, and Ordnance will receive 13 weeks of branch immaterial training at Fort Knox, then nine weeks of appropriate branch schooling.

Candidates in Adjutant General, Military Police, Intelligence, Chemical, Medical Service Corps, and Finance branches will attend Infantry OCS at Fort Benning. Following commissioning, the new lieutenants will attend branch basic officer courses as required.

Men seeking the special option for college graduates must be United States citizens at least eighteen and a half and not over twenty-seven years old.

Successful candidates will be commissioned second lieutenants and serve an obligated tour of at

least two years after commissioning. Outstanding soldiers in the upper tenth of their class may be designated Oistinguished Military Graduates and may apply for a Regular Army Commission.

Those who do not successfully complete the course will complete that time remaining in the two-year enlistment in enlisted status.

● Combat casualties in future Army war games may learn that they have been "shot" through the use of a buzzer and flashing light signals mounted on a hip pack. Currently being developed by the Army and Aircraft Armaments Inc. of Maryland is a "direct hit indicator" which employs infrared light and radio links to replace the guesswork found in maneuvers using blanks. The aim of a rifle is verified by a briem of infra-red light which is detected by a sensor atop a man's helmet. When the firer is accurate, the radio link activates the signals which alert the "victim." (ANF)



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Harvest Ball Tickets Can Be Purchased Now

Auditions For Harvest Ball Scheduled Oct. 11

Auditions for variety acts between the dancing and dining at the annual Harvest Ball sponsored by the Redstone Arsenal Officers Wives Club for charitable purposes will be in the Ballroom of the Redstone Officers Open Mess Oct. 11 at 8 p.m.

This is the second time Mrs. B. R. Luczak, chairman of the entertainment committee, has called for auditions. She said she is looking for all types of performers, song, dance, combos, and other variety acts.

The Army Band will play for the dance. Proceeds will be divided between the Army Distaff Foundation and an on-post fund for per-

sonnel emergencies, among the military.

Tickets for the annual Harvest Ball sponsored by the Redstone Arsenal Officers Wives Club for the Army Distaff Foundation and local welfare programs for military are now on sale, Mrs. C. C. Harvey, Ball Chairman has announced.

She said that Maj. Safron Canja is in charge of the ticket sale which will be limited to 600, the maximum capacity for the Redstone Officers Open Mess.

Other chairman are Mrs. J. G.

Mrs. Luczak's phone number is 877-5442, that of her deputy chairman, Mrs. Safron Canja, is 877-5863. Both are anxious to schedule the auditions and have requested that interested "acts" get in touch with one of them.

Higgins, menu; Mrs. Harold Zier, decorations; Mrs. B. R. Luczak, entertainment; and Mrs. W. D. Sterner, welfare.

The Ball is scheduled Oct. 23. Further details will be published about the Distaff Foundation and a Welfare Fund.

WANTED COINS

- Hordes
- Accumulations
- Collections

\$ FOR CASH \$

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117 Greene Street — Downtown Huntsville

SPORTS

Tom Lindsay Keeps Laurels In Supply MGMT League

PARADE OF STARS

Supply Management League: Tom Lindsay, 612 (247-176-189), Chuck Swafford, 565 (246), Al Miley 564 (215), Tom Patterson, 560, Joe Hill, 553, Jim King, 551.

Redstone League: Dick Cizek, 572 (200-200), Bob Riley, 567, Bob Adams, 559 (216-207), Jim Gulley, 549, Clint Gould 548 (213), Ed Murr-rah, 543 (216).

Field Services League: John Weaver, 565, Bob Adams, 562 (219) Paul Barney, 559, Bill Thompson, 553 (204), Tom Childress, 550 (235), Hal William, 549 (211), Joe Holub, 548 (216), Troy Faulkner, 546 (211), Ralph Poehler, 541.

AMC League: Jim Watts, 589 (223-201), Ken Bell, 570 (207-214), Floyd Clark, 569 (234), Joe Leary, 554, Dick Nicholas, 550 (214), Paul McLin, 548 (229).

For the second consecutive week the Supply Management League produced the top Arsenal civilian bowler last week when Tom Lindsay spilled 612 maples into the pits for the highest individual total rolled this season.

Rolling for the Brick & Tile five, Lindsay started the evening with a resounding 247 and then added games of 176 and 189 to claim Bowler of the Week honors from among the almost 300 bowlers that saw action in the four leagues.

In addition to Lindsay's honor roll total, there were 73 bowlers that turned in better than 500 sets in the most productive week so far. Thirty-two 200 games went into the record books for another seasonal high.

The Supply Management League alone provided 27 500s in addition to the 600.

Charley Swafford came within a single stick of grabbing the high game honors when he tossed a 246 and ended the evening with a 565. Both scores took runner up honors behind Lindsay's efforts in the SML.

The Brick & Tile team used Lindsay's lead to score a sweep over the Top Cats and move into a tie for the league lead with the Debuggers. The only other sweep was scored by Jones Lumber at the expense of the Manglers.

The second best three game total of the week was turned in by Jim Watts in the Army Missile Command League. Watts rolled games of 223 and 201 for a 589 total to edge Ken Bell who also counted a pair of 200s in his 570 series.

The Maulers and the Ramblers each contributed three 500 bowlers to the total to remain in a tie for the league lead. The former five put together a 1107 game and a 2923 series.

Fireworks should fly in this league tonight when the Maulers and the Ramblers meet for the first time.

John Weaver showed his fellow Field Services League bowlers that the league secretary is allowed to be the top bowler too when he put together a 565 series in leading the Chiefs to their third straight sweep.

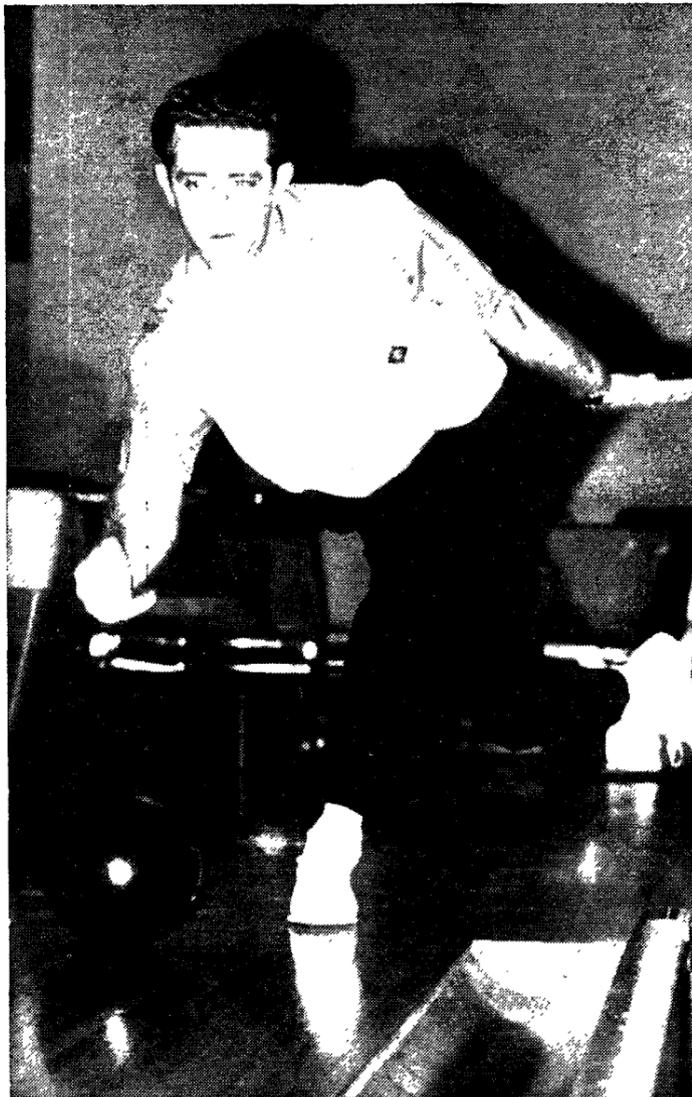
The sweep boosted the Chiefs in-

to the league lead as the erstwhile leading Expediters dropped three out of four to the Wheels. The new leaders shot an even 2900 in their winning effort.

Dick Cizek, who won the individual average crown in the Redstone League last year, got back into stride last week to lead that loop with a 572 total for the Giles Garden Supply quintet.

Bob Riley took runner up honors with a 567 and Bob Adams piled 599 pins. Standard Oil grabbed team honors with a 1053 game and a 2982 series in scoring one of the three sweeps. The other sweepers were accomplished by Pin Palace and Ginger-Ruth.

The Photo Lab won three and a half points to grab the league lead from Dean's Trailer Court.



PACE SETTER—Tom Lindsey has his eye on the 1-3 pocket as he fires another strike on his way to a 612 series and civilian bowler-of-the-week honors. A top Arsenal bowler for several years, Lindsay was the second straight bowler in the Supply Management League to grab the weekly honors. Last week it was Charles Rymer who scored with a 609 effort.

German AF Team Opens Cup Play

With two outside victories in its score book, the German Air Force soccer team at the U. S. Army Ordnance Guided Missile School will open the 1965-66 intramural tournament for the Veterans of Foreign Wars trophy at Linton Field this afternoon.

Led by 1st Lt. Gerhard Bauer, the Luftwaffe team will begin a round-robin series of matches with teams of Japanese, Korean and U. S. students.

Over the past weekend, the Germans chalked up an 8-2 victory over the Nashville Soccer Club on the Vanderbilt University field. SFC Eberle was high scorer with three goals. The win in the Tennessee capital followed a 9-0 triumph in an exhibition game against St. Bernard College in Cullman, Ala., the previous weekend.

The Nashville team will play a return match here next Sunday afternoon and the Germans will go to Dayton, Tenn., for a match with the William Jennings Bryan Memorial University, on Oct. 23.

Other matches are being scheduled for November and December with the St. Louis Soccer Club, the Air University at Montgomery, Ala., Georgia Tech, University of Tennessee, the Lockheed-Georgia Club at Marietta, and Auburn University.

● Big name entertainment for American servicemen in South Vietnam is getting a boost from the USO and the Army Adjutant General's Branch for Armed Forces Professional Entertainment. In response to the troop build-up there, the number of shows touring the country annually will be increased from an average of 12 to as many as 28. During the next few weeks, Connie Stevens, Martha Raye, and the Brothers Four will be on tour. (ANF)

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MAP ON PAGE 3

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Hot Trio Brews Bad News For F Troopers

There was nothing but Bad News coming out of the OGMS Officers Bowling league last week. The Bad News came from a quintet of officers bearing that rather unlikely name. They put together a 2730 series in sweeping a series from F Troop to take over first place, A half-point ahead of the Rocket Rollers. John Harris set the pace for the Newsmen with a 556, Chuck Ayres chipped in with a 535 and Gary Hitt added 520 sticks to the assault. The Black Jacks, although more productive, were only able to make their totals good for three points in a match with the Rounders. The Jacks shot a 956 game and a 2763 series. Their leader, Tom DeLoach, also set the league pace with a 560 series that included a 215 game.

Bargain Bill Kicks Off Touch Football

A big triple-header will usher in the 1966 touch football season at Redstone at the Patton Road gridiron on Friday evening. MICOM and C Company will kick off the season in the 6 o'clock opener. Two more games, featuring teams from OGMS will complete the opening night festivities. The touch football league will have eight teams this year and will play all games on Friday evenings. After the opening week there will be four games played each Friday, starting at 5:30. Two teams, 2nd ETC and A Company, are unable to play this week and will get into action during the second round of games. The remainder of the opening night schedule will find 1st Etc taking on 4th ETC in the second game with 2nd ETC matching passes and runs with A Company in the final game.

Hight, Frazier Share Spotlight For Women

Ginny Hight and Laverne Frazier bowled their way into the spotlight of the fourth night of Metropolitan Ladies League action at the Playmor last week. Ginny put together a 526 series that included a 184 game while Laverne used a 203 opener for the springboard to a 514 set. It was the second time she has passed 200, having opened the current season with a 221. Bobbi Howard also has a 221 single to her credit. Team honors for the week were split between the Marja Dress Shop five and Team No. 7. The former accumulated 2317 pins for the three games while the latter totaled 321 in the middle game. The Marja team used their big total to move into a tie for the league lead with Team No. 2. Each has captured twelve points out of a possible 16.

C Company Pitchers Nab Horseshoe Title

There is not much doubt as to where the premier horse shoe pitchers in the OGMS School Troop Command are assigned. If there was any doubt before last week, it was quickly dispelled by the men of C Company who went out and swept both the singles and the doubles competition in last week's meet. Harold Shogren captured the sole event with a final round victory over Jim Sanders. In the doubles Ted Noble and Steve Horvath combined their talents to shade Karl Atwell and Gerhardt Eggemeyer for the championship.

Arrive Alive

Flowers To Talk In Huntsville On Youth Detention

Attorney General Richmond Flowers will talk to the Friends of the Family Court at the Hunts-

ville Utilities Building tonight at 7:30 p.m.

The subject will be "Juvenile Detention in Alabama." The sponsoring organization handles the administration of the Juvenile Detention Home in Huntsville. Art work produced by the child-

ren in the Detention Home will be on display in the lobby of the Utilities Building.

Both the meeting and the art exhibit are open to the public.

Arrive Alive in '65

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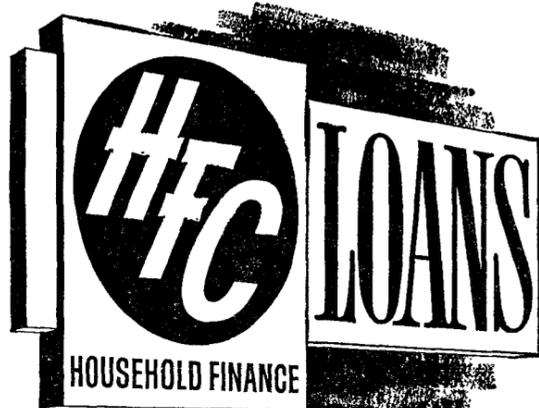
Ann Owens
Lynn Blakemore

9:00 a.m. — 9:00 p.m.

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\$ 50	\$ 9.23	\$ 5.02	\$ 5.45	
75	13.84	7.53	7.27	\$ 5.90
100	18.46	10.05	14.54	11.81
200	36.92	20.09	21.54	17.42
300	55.09	29.87		

Cash You Get	MONTHLY PAYMENT PLANS		
	12 payments	24 payments	30 payments
\$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

Above payments include principal and interest. Life Insurance is available at group rate on loans above \$100.

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.



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Project Hope, whose world symbol is the hospital ship S. S. Hope, carries unique teaching-healing programs to developing nations on three continents.

The American-Korean Foundation helps Korea stand against communism and become self-supporting through vocational training for orphans, 4-H club support, scholarships, earth-block housing, nursing and medical services.

CARE delivers life-giving food, self-help and medical aid to millions of needy men, women and children around the world.



American Hearing Society

HUNTSVILLE-MADISON COUNTY UNITED GIVERS FUND

Aid for Retarded Children seeks to improve the welfare of retarded children and promote a united attack on mental retardation problems.

Alabama Society for Crippled Children and Adults operates the Rehabilitation Center to provide physical, speech and occupation therapy and other services for the crippled.

American Hearing Society works in behalf of hearing, speech and language handicapped individuals.

American Red Cross is a multi-program service including the blood program, gray lady service, disaster service, canteen service and public information.

American Social Health Association seeks to develop training programs to prevent and control venereal disease, prostitution and

drug addiction.

Huntsville Young Men's Christian Association has the objective of aiding in the development of Christian standards of living and conduct.

Child Welfare League of America—nearly 6,000,000 needy children depend upon this agency for the chance in life that parents have failed to give them.

Christmas Charities collect and repair toys for distribution with food to needy families at Christmas.

Salvation Army works for the betterment of all men through activities that aid the underprivileged physically, spiritually and morally.

United Jewish Appeal contributes to the National Jewish Hospital in Denver and provides services to Jewish soldiers at the Arsenal.

U. S. O. is concerned with the morale of the military, both at home and abroad.

Huntsville Boys' Club provides recreation, guidance and training

1. I have been convinced of the obvious need for a better charitable fund raising campaign.

2. From conversations I have concluded that most would prefer using payroll deductions. I believe there was opposition to this method based on an individual's general opinion or widespread sentiment for or against might designate their contribution of their own choice.

3. After considering the facts, I believe they accurately reflect the majority of civilian personnel at Redstone Arsenal. I urge leaders to seek inclusion in the Combined Federal Campaign program.

4. We are now authorized for the first time, as a result of payroll deductions to special contributions over an entire year, so, may designate a special contribution. I believe this is in line with your wishes as I understand the campaign involving civilian personnel to be asked later in the year for Army Emergency Relief and other agencies.

5. Having created the responsibility of supporting agencies that depend upon it, we must support the communities in which we live.

6. As Chairman of the Combined Campaign, I urge you to support the responsibilities. Please give to your local and national organizations and communities who are less fortunate.

UGF AGENCIES

- Guntersville, Ala.
- Morgan County — Decatur, Ala.
- Athens — Limestone County, Ala.
- Sheffield — Colbert County, Ala.
- Florence—Lauderdale County, Ala.
- Moulton — Lawrence County, Ala.
- Arab, Ala.
- Cullman County, Ala.
- Jackson County — Scottsboro, Ala.
- Murfreesboro — Rutherford County, Tenn.
- Shelbyville — Bedford County, Tenn.
- Pulaski — Giles County, Tenn.
- Fayetteville — Lincoln County, Tenn.

for boys.

Madison County Association for Mental Health works for care and treatment of the mentally ill and for research into the prevention and diagnosis of mental illness.

National Council on Crime and Delinquency cooperates with local probation officers to prevent juvenile crimes.

National Recreation Association trains volunteer and professional recreation leaders to deal with young people, the ill and the handicapped.

National Social Welfare Assembly provides planning and leadership for the social welfare field and works for a more effective so-



Salvation Army



Harris Home



Red Cross

RAL CAMPAIGN-1966

And International Fund Raising Agencies

for some time about the
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1. It will be the only cam-
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consider contributions to
Army Relief Society.

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and the charitable agen-
funds required to serve

1966 Combined Federal
ly consider your civic re-
sponsibly to support the local
assist those in our com-
munity ourselves.

J. G. ZIERDT
General, USA
Commanding

cial welfare service.

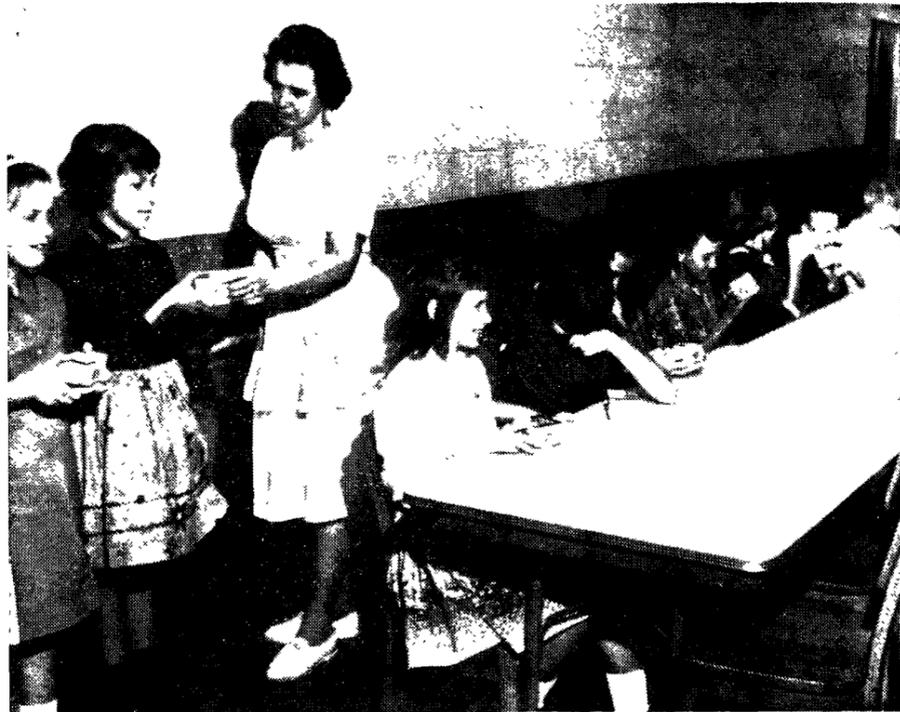
Tennessee Valley Council of Boy Scouts is a program of character building and citizenship training for boys 8 through 18 years of age.

National Travelers Aid Association — an intercity social service to help people with problems related to travel and migration.

Family Counseling Association— provides for a major program directed at the prevention of family breakdown through professional counseling service.

Girl Scouts of North Alabama is a program of character building and citizenship training for girls 7 through 18 years of age.

Day Nurseries — provides facili-



PTA Milk Fund

ties for children whose parents are working.

Harris Home For Children cares for children who have been made homeless because of death, desertion or neglect, or some other problem of their parents.

Joint Activities Council serves the recreational needs of children of military parents at Redstone.

Church Street Community Center provides a recreation program for boys and girls, a library service, meeting place and works with other UGF agencies with youth programs.

PTA Milk Fund enables all children in Madison County schools to buy an extra pint of milk for one cent.

Council of Social Work Education serves social agencies by helping recruit adequate persons to staff welfare programs.

National Council of Alcoholism works for treatment, research and training to prevent and control al-

coholism.

National Kidney Disease Foundation is concerned with the treatment of kidney diseases, patient service and research.

United Seaman's Service provides services overseas for men of the American Merchant Marine.

Catholic Charities gives services to families with marital problems, problems of child-parent relationship, service to unwed mothers and handles adoptions.

Madison County Council of Community Organizations — This council is composed of health, welfare and recreation agencies, both public and voluntary, and other organizations and individuals interested in working and planning together for the well being of the people of this community.

International Social Service provides an international service to assist families and individuals whose problems require help beyond the borders of their country.

NATIONAL HEALTH AGENCIES

United Cerebral Palsy Association seeks solutions to the multiple problems of cerebral palsy through programs of service, education and research into the causes and prevention of brain damage.

The American Cancer Society fights cancer on three fronts: research, education and service. To protect yourself, you should know cancer's seven danger signals and have a yearly health checkup.

The American Heart Association spearheads increasingly successful programs against heart disease, stroke, high blood pressure, affecting 22 million Americans, and accounting for more deaths than all other causes combined.

The Arthritis Foundation — the sole voluntary health organization fighting arthritis, maintains programs of research, patient care and education. Early diagnosis and treatment can prevent serious crippling in most cases.

Muscular Dystrophy Association of America supports an international scientific research and national patient care program, bringing hope and comfort to millions afflicted by dystrophy and related neuro-muscular diseases.

The National Cystic Fibrosis Research Foundation leads the fight against CF, an inherited disorder which primarily attacks the lungs and digestive systems of many thousands of American babies each year.

The National Foundation — March of Dimes is the largest single health organization fighting birth defects. These afflictions cripple more than 250,000 infants each year.

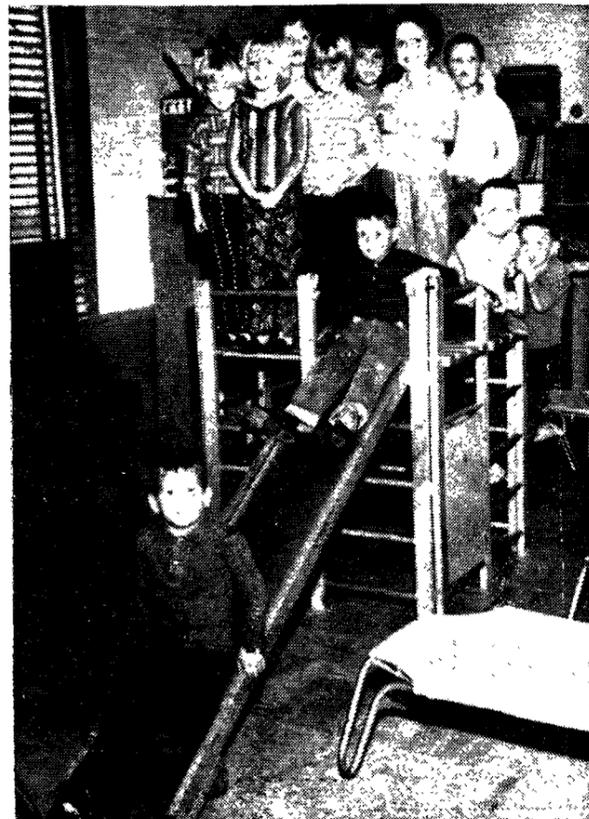
The National Multiple Sclerosis Society supports research seeking cause, prevention and cure of MS, a disabling disease of the central nervous system. Society chapters also provide patient services.



Food Bank



Alabama Society for Crippled Children & Adults



Day Nurseries

Countdowns Release Original Record Here

The Countdowns, local "Rock & Roll" combo, have just released their first record entitled "Jerry Go-Round" backed with "Whiskey Sour." Both songs were written by Mac 'Guitar' McElroy, a member of Headquarters Company, Army Missile Support Command and feature Mac on lead guitar.

Other members of the group are Ardon "Smitty" Smith, Co C, OGMS, Jimmy Garay, 291st MP Co, Larry Elizondo, US Marine Corps and Kirby McCraney of Huntsville.

The group, formerly known as the "Rockin' Ramblers" are well known in the Huntsville area having played at various local clubs over the past year. Jimmy, vocalist and bass player, hails from Hatch, New Mexico.

Larry, who's home town is San Bernadino, Calif., plays sax, Mac calls Camden, Texas home, Smitty, rythm guitar, is from Greensboro, North Carolina.

Kirby, presently attending Florence State Teachers College, is a native of Huntsville. Their re-



FRIENDLY CHAT—Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, chats with Rear Admiral Robert H. Northwood during his visit to Redstone Arsenal last week. Adm. Northwood, Chief of the Defense Electronics Supply Center, was here to discuss mutual areas of interest with the Missile Command.

cord is on Studio label and is available at local record shops.

(M-YP)

TUESDAY, Oct. 12
"24 Hours to Kill" (M-YP)

Two shows nightly at 6 and 8:30 p.m. Saturday matinee at 1 p.m. Sunday matinee at 2 p.m.

Where Is First National's Full Service Branch on the Arsenal?

MAP ON PAGE 3

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Movie Schedule

WEDNESDAY, Oct. 6

"Operations C.I.A." (M-YP)

THURS., FRI., SAT., Oct. 7-8-9.

Walt Disney's "Mary Poppins" (F)

INCREASED ADMISSION: adults 50c, children 25c

SUNDAY-MONDAY, Oct. 10-11

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Leadership and **MANAGEMENT TRAINING**



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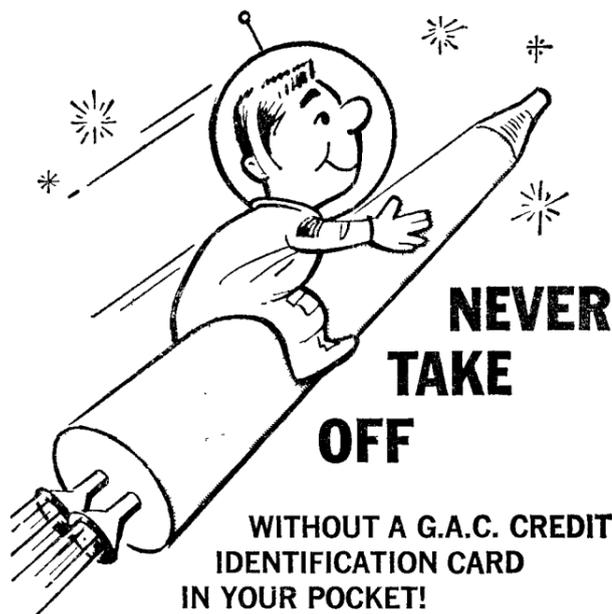
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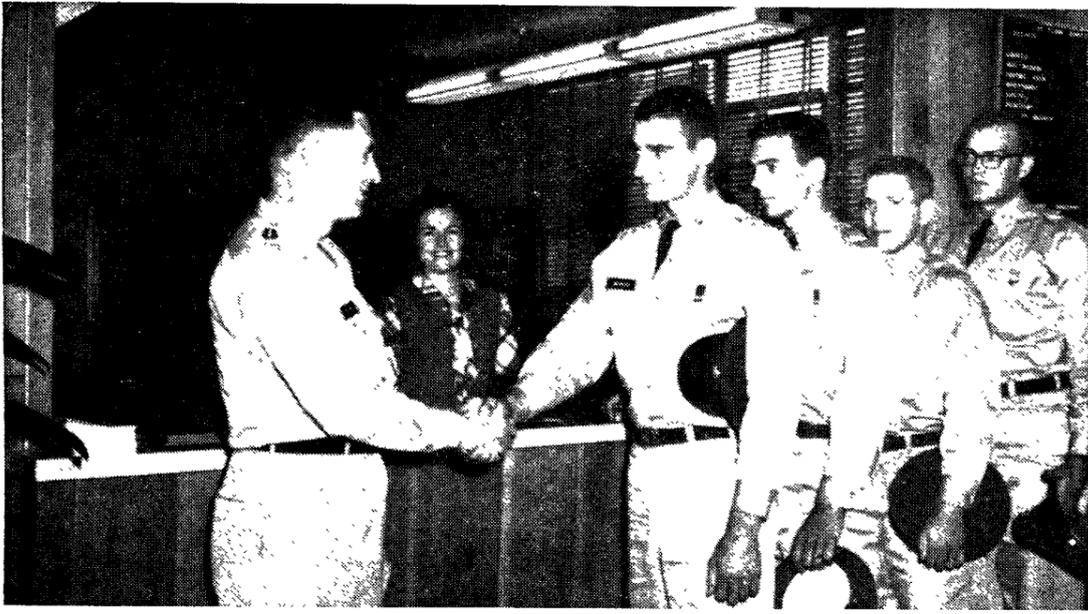
Preston Bldg. Cor. Jordan Lane & Holmes - 536-8841

NITA & DAVE'S Beauty Salon

7548H So. Parkway S. Plaza Shop. Ctr. - 881-5456

NITA & DAVE'S Beauty College

3215 Governors Dr. W. Phone 539-2461



AMMO STUDENTS WELCOMED—The Commandant of the Army Ordnance Guided Missile School, Col. Erwin M. Graham, Jr., left, welcomes the first enlisted students for ammunition training at OGMS. These students will be taking the first courses at Redstone Arsenal which do not deal with missiles and related equipment and will increase the student load from 3,000 to 6,000 graduates a year. Ammunition training was recently transferred from Aberdeen Proving Ground to Huntsville. With Col. Graham, are, from left, Miss Jan Spaulding, Receptionist, Pvt. William M. Morgan, South Carolina; Pvt. James L. Misunas, Illinois; Pvt. Charles F. Wallace, Wisconsin; and Pvt. Larry P. Bell, Illinois.



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**At The
Service Club**
By BETTY HAYES

How do these events sound to you for a week's variety in entertainment: a birthday party; a chess contest; travelogues; and a swinging dance? Wait a minute! Let me stop here and list the programs as they will occur at the Service Club.

Attention Enlisted Men's Council Members! The monthly meeting will begin today at 2 p.m. Plans will be made for November and December, and suggestions from you and the men in your companies will be welcomed.

Where will we travel tonight by films? I promise that you will enjoy your travel adventures to two exciting places which will begin at 7:30 p.m. A sports highlight film may also be shown.

Monopoly, cribbage, and scrabble are only a few of the small games which will be played on Thursday evening in the small lounge at 8 p.m. A table will be reserved for you; don't be late.

How well do you play chess? Why not match your ability with other players on Friday night at 8 p.m.

Take time out from your card game; TV program; or favorite magazine for refreshment time on Saturday afternoon at 3:30 p.m.

That evening a birthday party will be held in the main lounge at 8 p.m. Cake and coffee will be served to honor those who have a birthday in October. If you don't have a birthday this month, come to the party anyway and help those who do celebrate.

Have a hot cup of coffee and a tasty donut with a background of soft music Sunday morning. This program is guaranteed to start your day off right.

Before the dance Sunday evening, the Junior Hostesses will meet at 7 p.m. The purpose of the meeting is to discuss future Service Club programs. Girls, interested in attending Service Club dances are invited to attend the meeting.

Dance to the music of the Kings Men at the October Whirl with your favorite Junior Hostess Sunday at 8 p.m.

Bridge anyone! The little lounge is reserved for bridge players Tuesday, October 12, at 7 p.m.

The October programs are on a table in the main entrance of the Service Club. I suggest that you pick up one during your next visit.

Lots of fun filled events will take place this month. Read this column each week for the times and the dates of the activities.

See you at the Service Club.

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A Cooperative Savings and Loan Corporation

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\$29 Million Plus To Go For Work On Pershing, Shillelagh, Sergeant

The U. S. Army has announced the award of six contracts totaling \$29,729,879 for work on the Pershing, Sergeant and Shillelagh missile systems.

The Martin Company, Orlando, Fla., received two of the awards, one for \$17,429,937 for continued engineering support of the Pershing weapon system, and a \$2,317,910 award for continuation of installation of modification kits on the Pershing.

The work will be done in the company's plant in Orlando.

The Sperry-Rand Corp., was awarded \$4,094,804 for continued engineering services on the Sergeant field artillery ballistic missile system. The work will be performed at the Salt Lake City and Clearfield, Utah plants of the Sperry

Utah Company, a division of Sperry Rand.

A \$2,034,960 contract to the Kearfott Division of General Precision, Inc., will cover production of hydraulic actuation systems for the Pershing, the work to be done in Clifton, N.J.

Philco Corporation's Aeronutronic Division, Newport Beach, Calif., has been awarded a \$2,000,000 modification to a previously awarded cost-plus-incentive-fee contract for missile test sets and transmitter alignment test sets for the Shillelagh missile system.

Engineering services for Pershing missile guidance and control is authorized by a \$1,852,268 award to the Eclipse-Pioneer Division of the Bendix Corp., at their Teterboro, N.J., plant.

The Pershing ballistic missile, a quick reacting system developed as a field Army support weapon, is now deployed with Army units. The Pershing project is the responsibility of Col. Edwin I. Donley, Pershing Project Manager, and his staff.

Sergeant is a 34-foot-long ballistic missile capable of delivering a nuclear warhead 25 to 75 nautical miles, and is in the hands of troops in the United States and Europe. Col. J. Mort Loomis, Jr., is the Sergeant Project Manager.

The Shillelagh is a lightweight, surface-to-surface guided missile designed for close-in support of troops. The Project Manager is Lt. Col. S. R. Baen.

The Project Manager Offices for the Pershing, Sergeant and Shillelagh missiles are located at the Army Missile Command.

The contracts for Pershing work were executed and negotiated by the Procurement and Production Directorate at the Missile Command.

The San Francisco Procurement District awarded and will administer the Sergeant award, and the Los Angeles Procurement District the contract for Shillelagh.

Births At Post Hospital

Thomas Patrick Myro Jr., Sept. 22, son of Sp5 and Mrs. Thomas P. Myro.

Travis Randall Peters, Sept. 24, son of Sp4 and Mrs. Keith M. Peters.

There's a First National Full Service Branch on The Arsenal AT?

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FREE estimates for claims purposes on any damaged electronic item, brought to our store. We will outfit your home with one item or any selection of RCA Victor TV, stereos, radios, tape recorders, or RCA Whirlpool washers, dryers, refrigerators, freezers, dishwashers, or air-conditioners. No down payment necessary, 90 days as cash, or financing up to three years with first payment not due for 45 days. All ranks welcome, no exceptions. If you don't have credit established, let us do it for you. Every item is guaranteed to be the best in price, quality, and serviceability. TV rentals also available. Regardless of what you need, come in and ask for Chuck Salvo (USA-Ret.), co-owner, and let me be of assistance.

Central TV & Stereo Co., Inc.
 Corner of Governors Dr. & Memorial Parkway
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 SALES & SERVICE

Selling At ABSOLUTE AUCTION

Saturday, October 9, 1965 — 9:35½ A.M.

300 ACRE

Elk River Farm, 88 Head of Livestock. (9 Head of Registered Angus Cattle, the balance are Herefords). 5 rooms of Furniture. Complete Line of Farm Equipment Belonging to the Estate of the Late C. L. Groth.

TERMS

For Real Estate 25% Down Sale Day, Balance in One To Ten Years. Bankable Note at 6% On Personal Property And Livestock CASH.

Possession of Farm With Delivery of Deed

SALE SCHEDULE

Farm Equipment And Furniture,

9:35½ A.M. Real Estate 1:00.

Livestock, After Real Estate.

Lunch Will Be Served.

LOCATED 3 MILES EAST OF ELKTON ON KELLY CREEK ROAD AND THE BAUGH-TO-ELKTON ROAD. JUST NORTHEAST OF THE FAMOUS LAKE LOGAN ON A BLACKTOP ROAD. IT IS ONLY 29 MILES NORTH OF HUNTSVILLE, JUST 15 MILES SOUTH OF PULASKI. FOLLOW ARROWS.

This 300 acre farm is on a blacktop road, and has Kelly Creek running through the middle of the entire farm. This furnishes water for irrigation or livestock. The farm has 3 large ponds as well as everlasting Elk River. It has a large 10 room home with bath, hot and cold water. Plenty of shade in the yard and is well sodded in bluegrass. Has one large feeder and stock barn, one of the finest on any farm. Has three other large barns, a set of farm scales, tool shed, and all kinds of outbuildings. Has new net woven wire fence around entire farm. This is by far one of the most complete farms ever to be sold under auction hammer. If you have tried in vain to establish pretty flowers and fine crops, you will be satisfied with the rich soil found here. Pick roses, have a few cattle grazing around, a horse, or a cow! You can have all this here!

Has 93 Acres Elk River Land, 180 Acres in Permanent Bluegrass Pasture. Has 27 Acres in Woods. Has 10 Acre Cotton Base, 55 Acre Wheat Base, 59 Acre Corn Base, 6 Acre Grain Sorghum Base, 17 Acre Barley Base. Has 178 Acre Crop Land And 82 Acres Feed And Grain Base.

THE FARM WILL BE OFFERED IN 3 TRACTS, THEN AS A WHOLE, THE HIGHEST PRICE WILL DETERMINE THE SALE. Tract No. 1—Consists of 40 acres, all level, with the beautiful 10 room Colonial home, 3 barns, tool sheds, and other outbuildings. This has a great deal of highway frontage. This is all in permanent pasture, and has Kelly Creek running through the center of the tract. Every acre of this tract can be irrigated from the creek. If you are looking for a small farm with good buildings and a nice home, this it !!!

Tract No. 2—Lying south on Kelly Creek road to paved highway, consisting of 100 acres in permanent pasture, 73 acres in lush bluegrass pasture, and 27 acres in timber. This tract is fenced and cross fenced. It has 2 large barns, one 4 room house, large shed 40x70. This tract has a ½ mile frontage on the highway. It also has 2 everlasting springs, and a new net wire fence around the entire tract. It has 3 lovely home sites and is close to a fisherman's paradise—Lake Logan.

Tract No. 3—Consists of 160 acres of rolling to bottom land. This tract has 11 acres in hill land. For boundaries, this tract has the L&N Railroad (mainline) and Elk River. This rich Elk River land is some of the richest in Giles County. This tract has a large feeder barn, everlasting water furnished by Elk River and Kelly's Creek. This tract also has the new net wire fence around it. Property of this kind is not sold very often. It is either married, inherited or sold for complete dispersal as this is. This entire tract, with the exception of 12 acres, can be worked with a tractor.

PERSONAL PROPERTY

Mahogany Dresser, Antique Chest of Drawers, Antique Wash Stand, Antique Dresser, 1 Brass Bed, 1 Wash Stand, Dressing Table, Mahogany Chifferobe, Iron Bed, White Single Iron Bed, 2 Oak Tables, 1 Birdseye Table, 1 Churn, Punch Bowl, Rugs, 3 Rocking Chairs, 2 Double Springs, 2 Double Mattresses, 1 Single Springs, 1 Single Mattress, 1 Card Table, Lamp Shades, 2 Electric Fans, 1 Clock, 1 Antique Sofa, 2 Wicker Chairs, 1 Overstuffed Chair, 1 Parlor Chair, 1 Parlor Settee, Telephone Chairs, Green Rug and Mat, Desk, 2 Little Tables, Cabinet, Telephone Table, Enamel Cabinet, Telephone Chair, Rocking Chair, Safe, Hall Tree, 4 Chairs, Glider, Swing, 2 Radios.

FARM EQUIPMENT

1 Moline Tractor, 1950, 1 New International 7 Foot Mower, 1 Disk Harrow, 1 8-foot Cultipacker, 1 New Fertilizer Distributor, 1 Corn Crusher, 1 1948 1½ ton Dodge Truck, Complete Blacksmith Shop. Other items too numerous to mention.

LIVESTOCK

88 Head—88 Head REGISTERED ANGUS. 8 Heavy Springs, 1 Registered Bull. GRADE HEREFORD. 37 Hereford Cows, 25 With Calves, 25 Yearlings, 400-600 Pounds, 1 Registered Hereford Bull, 10 Heavy Springs.

For Maps or Brochures Write or Call BOB KELLER, P. O. Box 290 Pulaski, Tenn. Phone 363-2527.

On the place is a lovely 10 room home with all the conveniences of the city. It has bath, hot and cold water, 4 bedrooms, living room, dining room, kitchen, beautiful floors and winding staircase. The house is ready to move into now.

If you are looking for a young herd, most of them with their second calves, if you want cattle for winter, or replacement stock, no herd would suit you better. These have been handpicked and culled each year. There will be health papers to go anywhere.

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Plenty of Room in This Lovely Home Featuring . . .

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\$150 Closing Cost and Payments of Only \$100 Per Mo. Including Taxes and Insurance

DIRECTIONS: From Parkway City go west on Drake, turn south on Triana until you see our signs just outside Gate 5.

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Western Electric Receives Contract For \$5.5 Million

The Army's Nike-X Project Office, Redstone Arsenal, Ala., today said it had awarded two contracts totaling more than \$5.5 million to the Western Electric Company for the operation and maintenance of equipment at two test ranges used by the missile defense system.

The larger of the two contracts, for \$4,367,640 is for continuation of the Nike-X optics program at the Kwajalein Test Site in the Marshall Islands.

The second contract, totaling \$1,146,650, is for operation and maintenance of the Nike-X target tracking and discrimination radars at White Sands Missile Range, N. M.

Both contracts cover work to be performed during the next twelve months. Western Electric Company is the Nike-X prime contractor.

The Avco Corporation, Everett, Mass., and the Douglas Aircraft Corp., Santa Monica, Calif., will share in the larger contract.

Nike-X is the Army's missile system being developed to engage intercontinental ballistic missile and submarine launched ballistic missiles.

The radars at White Sands and the optical systems at Kwajalein are operated for research and development purposes.

The contracts will be administered by the Project's Contract Office at Redstone Arsenal. Col. I. O. Drewry is the Nike-X Project Manager.

Technical Artists Hear About Films

The Association of Technical Artists, Inc. met last night, at the Redstone Officers Open Mess. The program featured "Microfilm and the Paperwork Explosion." The organizing chairman, Thomas E. Spencer, presided at the meeting.

Jim Garrett, representative of the Microfilm Division of 3M Company made the presentation under the local sponsorship of Bodine-Bryson & Rolling Inc.

Mrs. Philip E. Brock, Red Cross member of board of directors, also spoke to the group concerning the design and fabrication of an exhibit of Red Cross activities in the southeast region.

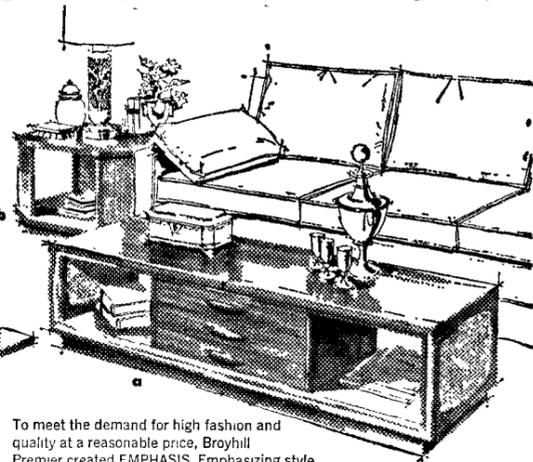
ATA is a professional organization recently formed within the Huntsville area. The Association is made up of technical illustrators and industrial artists, whose joint purposes are to advance all aspects of the technical art field, to enhance the status of their profession and to serve the scientific and industrial community.

The next monthly meeting is scheduled Nov. 2. Programs begin at 7 p.m. with business at 7:30 p.m. and a technical presentation at 8 p.m. Interested persons may call Hughes Michael at 881-4077 or H. F. Nelson at 876-3606 for further information.

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Emphasis
The exciting new design for your home
emphasizing style, character and quality

It's Always Hale Bros.
for the latest design
for your home.



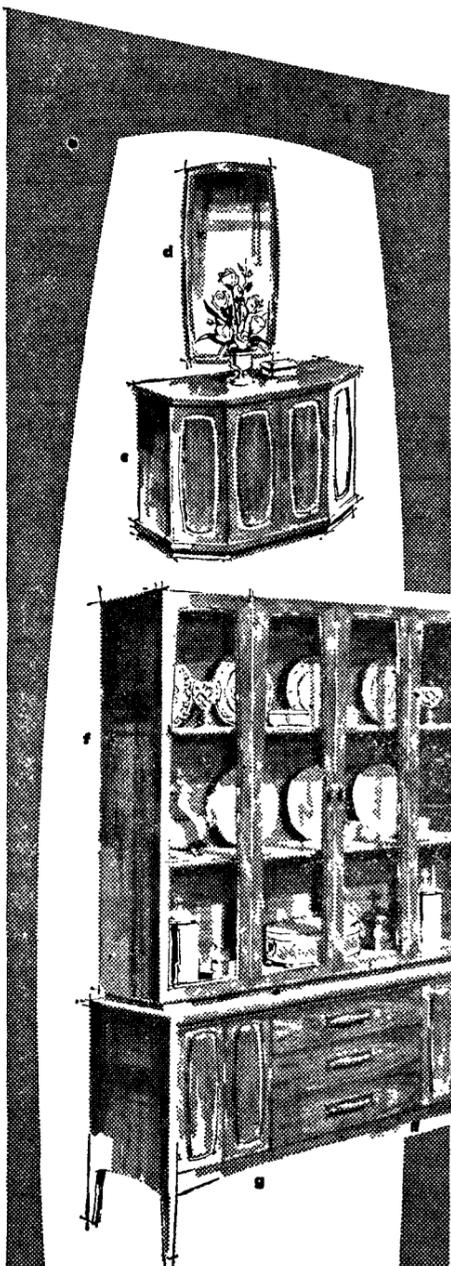
To meet the demand for high fashion and quality at a reasonable price, Broyhill Premier created EMPHASIS. Emphasizing style, the lines are simple, clean and bold. The arch of incised carvings on door panels and the rich finish of walnut veneers emphasize distinctive character. Superb craftsmanship puts the emphasis on Premier quality... at moderate prices.

Unique features lend a new world freshness
to an old world elegance.

It's always Hale Bros.
for the finest quality
for your home.



Broyhill Premier quality and craftsmanship throughout.



With an emphasis on function, EMPHASIS offers a variety of generous size pieces for living room, dining room or bedroom... built for storage as well as beauty. EMPHASIS is at home in a variety of decors ranging from formal to informal. Come in and see how well EMPHASIS suits your style of living.



It's always Hale Bros.
for the prices you can afford.



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WANT AD RATES—\$2.50 minimum, per weekly insertion, covering first 25 words. 5 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Vergie Robinson, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

FOR SALE—Pair of matched ELECTRO-VOICE Stereo speakers, walnut enclosures. Like new, \$110.00 Call Rice, 876-5969. 1tp

NEW SHIPMENT of shoes will be on display Friday at Family Shoe Store, 104 First Avenue N.W., Arab, Ala. 1tp

5. Houses, Lots - Sale

FOR SALE—96 acre rich river bottom farm, 94 acres cultivation allotted crops, 5 room modern brick house, barn, 32 miles Huntsville, 4 miles off 4 lane highway, 4 miles off pavement, River borders farm, good hunting and fishing area, partly financed, \$300.00 per acre. Call 232-3389 Athens after 6 o'clock. Also 90 acre river bottom farm allotted crops, good building site. \$250.00 per acre. 1tp

40 ACRES OF LAND FOR SALE Near Ryan Also 5 acres with 4-room house. W. A. Crawford, Phone 586-3343 Arab. Call after 4 p.m. 10-7p

FOR SALE NEAR MORGAN CITY, extra nice 3 bedroom, 2 baths rancher, full basement, located on 5 beautiful acres of wooded land, priced at only \$17,500 for quick sale, phone Bob Pritchett 539-7456 days or Morgan City 498-2525 nights. 1tc

EAST MCKINNEY AVENUE — Two brand new brick and frame houses Three bedrooms, extra large kitchen with lots of built-in cabinets. Electric heat Hardwood floors. 14 foot carpet. On large grassy lot. Price only \$7,900.00. Small down payment with monthly payments only \$52.63. FRED TAYLOR REAL ESTATE, Phone 878-3061, Albertville, Ala. 10-27c

FOR SALE TWO SMALL FARMS, 10 acres each on Mooresville road convenient to Hick Building, 2 miles outside City limits \$5,000.00 each all beautiful wooded land. phone Bob Pritchett 539-7456. 1tc

FOR SALE, one acre lot located in Hazel Green, \$1,000.00 Phone Bob Pritchett 539-7456. 1tc

232'x150' (corner lot) may be split into two lots. Paved Streets, City Water, Near schools. Will sacrifice for quick sale. Call 539-2719 or Arab 586-3203. 1tp

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Ask for details on the low-cost long-term real estate loan plans now available.
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1. For Rent

FOR RENT—2-bedroom house, with kitchen, dinette, living room, and large covered patio. 112 1/2 White Street, NE. 1 block from 5-Points. Phone 536-2504. \$65 month. 1tp

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964-65 models. Ph. 536-9761 Central TV and Stereo Co., corner Governor's Drive and Parkway. Open 9 a.m. to 9 p.m. daily. Phone 534-8689. 1tc

GUNTERSVILLE LAKE
FOR RENT New Houses on the lake. Playground, Sub-division, just off Highway 431. 3 bedrooms air conditioned, electric heat, ceramic bath, built-in stove, pier, very modern. \$100.00 per month. See Ed Neely, Real Estate Broker Broad Street Guntersville, Ala. Phone 582-2914 or 582-3230. 10-13c

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. 1tc

2. Cars For Sale

FOR SALE—1963 Sting Ray, 45,000 actual miles. 300 hp 4-speed and positraction, less than 22,000 miles on Michelin-X tires, well taken care of, never raced or dragged. Original spare tire, brakes and battery. Call Schmidt 837-5101 or 842-2111 office hours. 1tp

FOR SALE—1960 Falcon Station Wagon (white) new motor, good condition for sale on Oct. 8. Price \$650.00. Phone 876-3201 or 881-7473. 1tc

FOR SALE—1955 Olds 4-door sedan. Good solid car, snow tires, \$185.00. Call 828-3242 after 5 p.m. 1tc

FOR SALE—1957 Lincoln 2-door hardtop. Black, full power, air condition good tires and battery \$275.00. Phone 881-4755. 1tc

3. Miscellaneous

FURNITURE AND APPLIANCES WANTED — We pay cash for good used furniture and appliances. Call us at 539-8113 or visit us at our big new store 2505 University Dr., W. 1/2 blocks west of Parkway. Texas Mobile Homes and Furniture Sales. 1tc

ABS SECRETARIAL SERVICE, 915-F Franklin St. SE (Franklin Center) Phone 534-6451 For: Photocopying, Mimeographing, Transcribing (Dictaphone) telephone answering. Employment applications prepared (Government and other) Notary Public. Our office or yours. 1tc

WANTED TO BUY—KLH Model Thirteen (or 8-MX and 8-AS) Multiplex Adapter and Speaker System. Condition unimportant. Phone 881-4696 after 5. 1tp

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FOR A NAME BRAND Mobile Home come to Texas Auto Sales, 1003 Meridian St., next door to Ray-Piermon Mercury. \$2995.00 Payments as low as \$42.67 monthly. 1tc

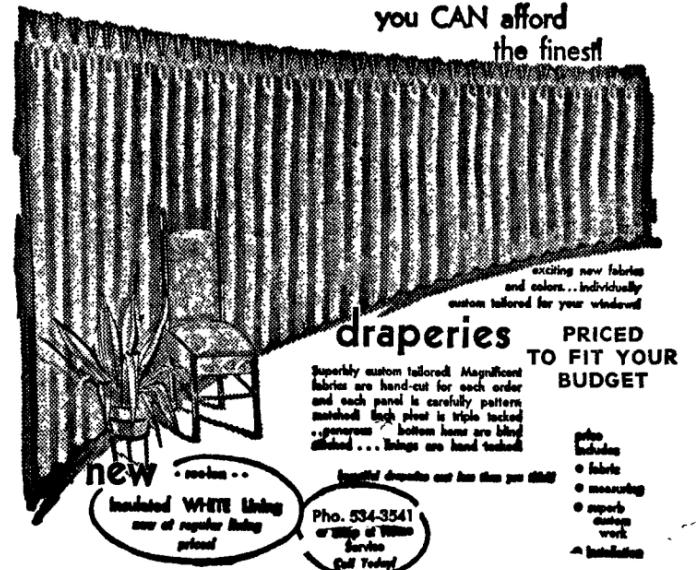
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Regular Haircuts — \$1.50
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Fast Service - Expert Wheel Mechanic
All Work Fully Guaranteed
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Across From Butler High
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400 ACRES
Located 7 miles from Cullman on good road. Has good dwelling with bath, large cattle and hay barn; 280 acres under 4 barb wire fence, 70 acres in highly improved pasture, 210 acres woods pasture, 2 acre lake well stocked. Running water through farm ample for live stock. Natural site for 10 acre lake.
The bulk of timber is pine. Hardwood has been sprayed to eradicate. This is the 1st time this farm has been offered to the buying public through a real estate broker. Don't wait if you are looking for a bargain of a life time. Price \$55,000.
E. G. "Buck" Williamson
1803—3 Ave., East
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Panel Dens, Tappan Range & Ovens, Vent Hoods, Patio, Garages, Disposal, Air Conditioning.
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Introducing . . .
New Housing Bill Pertaining to PEACETIME VETERANS
The new FHA insurance program for every veteran who has not received any home financing assistance through VA. This provides: no down payment on the first \$15,000, 10% for the next \$5,000, and 15% for the value above \$20,000 to a maximum of \$30,000. The veteran must make a cash investment of not less than \$200 on all transactions.
Mountain Gap, Morris Heights and Rolling Hills Homes ELIGIBLE
Call for Further Information
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Payroll Deduction Method Still Leading In CSC Drive

The largest total contribution in the shortest period of time is the present goal of the Arsenal officials for the 1966 Federal Campaign that has completed the first third of the current six-weeks drive.

The second weekly report submitted by the area chairmen last Friday reflected contributions totaling \$147,465 from 47 per cent of the personnel included in the drive.

Leonard Brockman, executive chairmen for the drive, said that this excellent start indicates that the campaign could very easily be concluded a week or two prior to the pre-campaign estimates.

The total contributions include

the cash donations together with the payroll deduction authorizations. The latter system of pledging, which was authorized for the first time at Redstone this year, continues to have great favor here.

Over two-thirds of the donations have been made through payroll deductions. Authorizations totaling \$106,501 have been received along with cash donations totaling \$40,964.

The 100 per cent roll call of organizations was augmented during the week by the addition of the Office of the Commanding General. This brings the number of perfect organizations to three.

Rocket Motor Cases To Be Manufactured

Production of rocket motor cases for the Pershing ballistic missile will be funded under a \$613,530 contract to the Intercontinental Manufacturing Co., Inc. The U. S. Army Missile Command made the award.

The work will be performed in the company's Garland, Texas plant.

Pershing is a two-stage solid propellant ballistic missile. The missile system program is managed by Col. E. I. Donley and his staff from headquarters at the Army Missile Command.

The contract was executed and negotiated by the Missile Command Procurement and Production Directorate where Col. B. A. Saholsky is the Director.

Previously announced 10 per centers were the Comptroller and Director of Programs, and the Quality and Reliability Management Office.

The Procurement and Production Directorate continues to lead the larger organizations in participation while the Army Missile Support Command still shows the largest contribution.

Sixty-four per cent of the P&P work force have already participated in the drive. Research and Development is second with 61 per cent, Nike X has reached 60 per cent and Missile Intelligence is at 59 per cent.

Support Command contributions, from 43 per cent of the assigned personnel, total \$32,457. R&D is next in line with donations totaling \$26,000, P&P has contributed \$21,540 and Supply and Maintenance has made contributions totaling \$20,670.

BROWN RECEIVES NIKE-X CONTRACT

A Huntsville, Ala., firm, Brown Engineering Company, has received a \$333,602 contract from the Army's Nike-X Project Office, Redstone Arsenal, Ala., it was announced today.

Under the 12-month contract Brown will continue to perform engineering, design and development work for the Nike-X Pro-

gram. Nike-X is the Army's missile system being developed as a defense against attacking ICBMs and submarine launched ballistic missiles.

The contract will be administered by the Project's Contracts Office. Col. I. O. Drewry is the Nike-X Project Manager.

Oct. 1, 1861—First Army Balloon Corps was Organized, under Signal Corps auspices, a predecessor of AMC.



OUR FALL SHOES

ARE HERE!

Save 40 to 70% on Sample Shoes

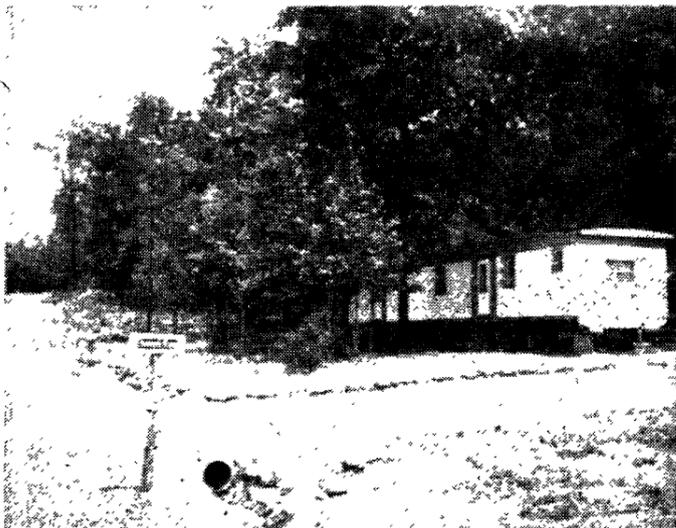
Sizes 4 to 12 — B to 4A

SELF SERVICE SHOE STORE

Open 8 a.m. to 5:30 — Open 'til 8 p.m. Thursday
SOUTH SIDE SQUARE — DOWNTOWN

CLOSE-OUT SALE ON CHOICE MOBILE HOME LOTS

Nestled Among Rolling Hills and Beautiful Trees! "As Pictured"



Pinehill Mobile Estates

Only a Few Lots Left — So Hurry for a Choice Lot . . .

- Located 7 Miles From Redstone Arsenal
- Large 3/4 Acre Wooded Lots.
- State Approved Community Water System.
- Septic Tanks On Each Lot.
- School Bus Service.
- Garbage Pickup Available.
- Beautiful Mountain View.

BUY FOR LESS THAN RENT—

\$150.00 Down

PAYMENTS AS LOW AS \$29.29

DIRECTIONS: Go south on Hwy. 231 past Tenn. river bridge, turn right on Hwy. 36, go 1 mile and turn left on first county road and follow signs.

Call Bob Pritchett

DAYS—539-7456

NIGHTS AND WEEKENDS:

Morgan City, Ala. — 498-2525

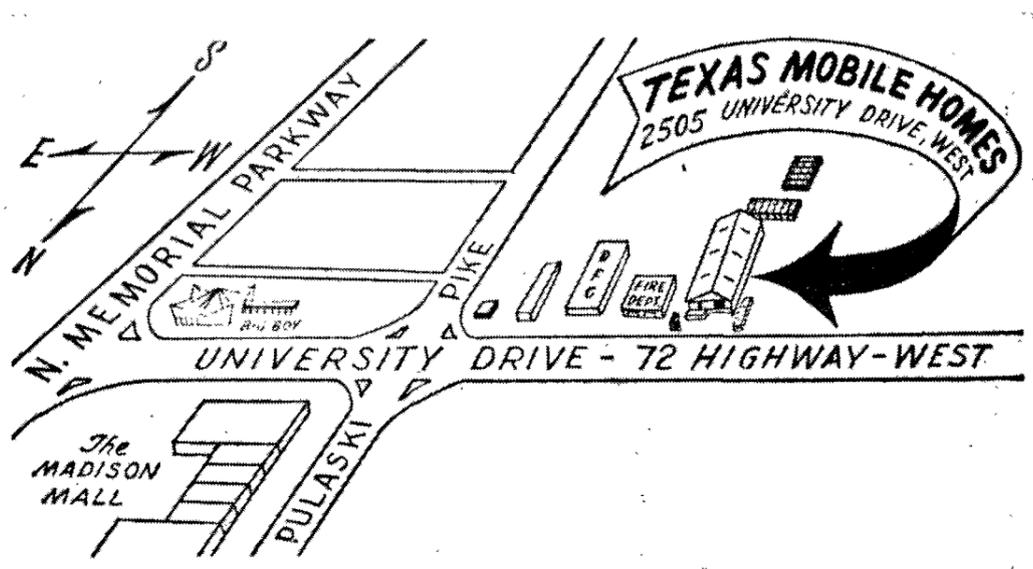
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R&D Men To Participate In Conferences In U.S.

Five members of Army Missile Command Research and Development Directorate Laboratories will take part this month in conferences to be held throughout the United States.

Dr. Pasquale Martignoni of the Propulsion Laboratory will present a paper on "Rapid Determination of Ionization and Appearance Potentials" to the Seventh Annual Time-of-Flight Mass Spectrometer Symposium. This meeting will be held Oct. 4-7 in Cincinnati, Ohio. Dr. Martignoni has recently developed an electronic technique to measure ionization and appearance potentials with the mass spectrometer and his paper has been tentatively accepted for publication by the Review of Scientific Instruments.

Presentation of a paper on trends in missile containers will be given Oct. 6-8 in Salt Lake City, Utah, by Charles E. Lyons, Chief, Container Design Branch of the Ground Support Equipment Laboratory. He will speak before a conference sponsored by the American Ordnance Association.

Stewart B. Tullock, a chemist with R&D Directorate, will do double duty at the Southeastern Regional Conference of the National Association of Corrosion Engineers in Houston, Texas.

His paper will concern research performed by him in the Structures and Mechanics Laboratory leading to methods for the detection of defective bonds and presence of moisture and corrosion in adhesively bonded aluminum honeycomb hardware.

In addition, Tullock will serve as Chairman of a Task Group on Erosion Resistant Coatings. The meeting will fall on Oct. 18-21.

"Theoretical Photodetachment

Cross Section for the Negative Atomic Oxygen Ion" is the subject of a paper to be given by H. Tracy Jackson, Jr., in Minneapolis, Minn. He will attend the 18th Annual Gaseous Electronics Conference sponsored by the American Physical Society. The meeting will be held October 20-22 at the University of Minnesota.

Jackson is a physicist in the ARPA Division's Re-entry Physics Branch.

The Western States Section of the Combustion Institute in Santa Barbara, Calif., will be attended Oct. 25-26 by Barry D. Allan, a research chemist in the Propulsion Laboratory.

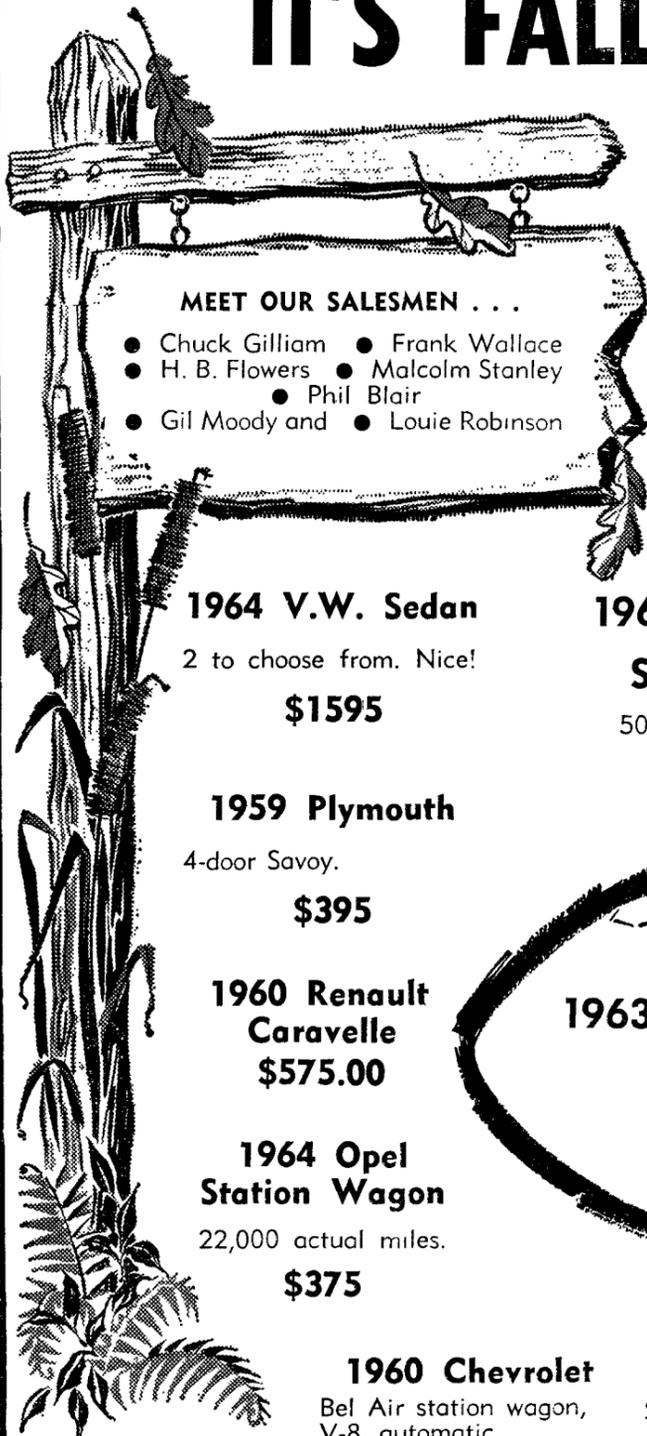
As a result of his work in helping develop a test method for sensitivity studies, Allan has been asked to submit a paper to the session.



EYES ON ZERO DEFECTS—At a meeting on Redstone Arsenal, of Zero Defects representatives from the subordinate commands of the Army Materiel Command, two visitors are shown a Zero Defects display in the Army Missile Command headquarters. From left to right are: Kenneth E. Joy, Chief, Quality Reliability Management Office, Missile Command; Guy Bevers, Zero Defects Coordinator, Ft. Huachuca, Ariz.; and S. J. Lorber, Acting Director of Quality Assurance Directorate and conference chairman, Army Materiel Command.

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OOPS!--It Happened

Taking Hannibal to the Mountain Department.

Four motorists on Redstone Arsenal who tangled during a rain last Thursday morning didn't have to wait long for Military Police to investigate.

Their cars piled up right under the archway of the Main Gate where the MPs were directing traffic onto the post.

Damage appeared to be light.

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