

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XII; NO. 11

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

July 24, 1963



HAWK TALK—Brig. Gen. Selwyn D. Smith Jr., Chief of Staff, Army Materiel Command, (left) talks Hawk with Col. Charles R. Graham, the weapon system project manager, during a briefing session Monday. Gen. Smith toured Redstone Arsenal, met with project managers, directorate chiefs and other key Missile Command personnel during an activity-packed day. Visit here was General Smith's first since taking his new post in AMC Headquarters.

Regional Director Discusses Civil Service Policy

The United States Civil Commission last week announced details of its plans to make certain that full opportunity is given all citizens of Huntsville, to compete for Federal positions in the area.

The Director of the Atlanta Region of the Civil Service Commission, Hammond B. Smith, met with Managers of Federal offices here. The meeting was a review of progress made under Executive Order 10925 issued March 6, 1961, dealing with Equal Employment Opportunities.

A team of Civil Service Commission representatives working out of the Atlanta Regional Office, under the direction of Mr. Gordon S. Pressley, Jr., will remain in Huntsville to make further studies of employment practices and to assist local agencies with their plans to assure that equal employment opportunity is provided for all citizens who desire to compete for positions in the Federal Government.

Smith emphasized the Commission's policy to attract and make available the best qualified candidates for each position. He pointed out that quality is where it is found. In Federal employment there is no room for prejudices or discrimination based on race, color, religion, or other considerations.

Smith said that the type of study being made here has been and will be made in other major Federal employment centers in the Southeast.

The attention given to recruitment and placement in the Huntsville area does not imply an employment boom in the Federal agencies, the Commission said. However, the Commission is assuring itself that opportunity to compete for existing vacancies is available through proper publicity and recruiting to all citizens who wish to apply.

Agencies having vacancies will make their selection from among those qualified in accordance with the regular rules and regulations of the Civil Service Commission.

Shot Tests Mauler's Guidance

A mobile missile air defense system designed to operate in the front-line environment of the combat infantryman came closer to reality, the Army said today, with the first guided flight of a Mauler missile.

The Department of the Army announced the dart-like missile tracked a drone target plane over the White Sands Missile Range, New Mexico, in a recent test.

The test was a measure of the system's radar and guidance equipment performance.

Mauler is designed to detect and kill high performance aircraft and short range tactical missiles in the forward battle area.

For mobility the Mauler packs its own radars, electronic computer, power supply and arsenal of nine canister-mounted missiles on a self-propelled tracked vehicle similar to an armored personnel carrier. The normal crew is three, including the driver, but one man can operate the system.

To reach the front with a minimum of delay, Mauler can be air-lifted by cargo aircraft. The Mauler weapon, minus the tracked vehicle, can be lifted by helicopter. Mauler's quick reaction and shoot-on-the-move capability will provide continuous all weather air defense to forward elements of Army divisions. Mauler can also be employed to protect critical points such as bridges and supply points.

The firing was one of a series conducted since the start of development of the system in March, 1960. Other firings have checked out the missile hardware, airframe and propulsion system.

The Mauler is being developed by the Pomona Division of General Dynamics Corporation at Pomona, California, under the technical management of the Army Missile Command, Redstone Arsenal, Alabama. Colonel Norman T. Dennis is project manager.

Fagan To Head Redstone's 1963 United Fund Drive

A veteran missile scientist and engineer will head the 1963 Redstone United Givers Fund Drive.

He is James J. Fagan, scientific and engineering assistant to the director of Research and Development.

Fagan was selected by Maj. Gen. F. J. McMorrow, Commanding General of the U. S. Army Missile Command, to coordinate the United Givers fund drive. UGF supporters working at Redstone Arsenal are asked to apportion their donations between the Huntsville-Madison County Drive and the one in their home city.

Allan A. Norman is the executive secretary. Fagan will head the Federal Plan Coordinating Committee composed of representatives from all elements of the Army and Army contractors at the Arsenal.

The United Givers Fund helps support approximately 30 welfare agencies in Huntsville and Madison County.

Last year, under the leadership of H. R. Lowers, Missile Command Chief Engineer, the Redstone United Givers Fund Drive netted a record \$201,710.

(See FAGAN on Page 3)

Gen. John Daley Died Sunday

Lt. Gen. John P. Daley, Commanding General of the Combat Development Command, died Sunday of a heart attack while visiting in Albany, N. Y.

The West Point graduate came from a military family. His father was a general and a Military Academy graduate. His grandfather had been Master of the Sword at West Point.

Gen. Daley took command of the newly activated Combat Development Command at Fort Belvoir on June 20, 1962. While in the Office of the Chief of Army Research and Development, he had been responsible for R&D in air defense, guided missiles and atomic defense.

RAIN LENDS REALITY TO CHEZ PUP

More than 20,000 persons participated in a mass evacuation exercise held despite torrential rains. Exercise officials analyzing results pronounced the test a success.

Some portions of the passive defense exercise called Exercise Chez-Pup (pronounced Shape Up) involving all military and government civilian personnel at the Arsenal concluded late Thursday. About 100 volunteers Friday emerged from empty ammunition bunkers which they entered Thursday evening to test their effectiveness as fallout shelters.

A group of soldier volunteers occupied one of the improvised shelters. In the second were military families including children.

Although portions of the exercise had been underway since July 2, most of Redstone's working population had their only contact with it at 3:55 p.m. Thursday when the signal came to evacuate.

At the Marshall Space Flight Center, Army Missile Command, Army Missile Support Command, Ordnance Guided Missile School and Zeus Project Office work stopped and personnel not required for essential operations left for home in their cars along routes they normally follow returning from work.

Those exiting north and east into Huntsville ran straight into blinding rain which gave an unexpected air of realism to the exercise. Up to four inches of rain fell in the area while the exercise was in progress, flooding intersections and reducing traffic movement in some areas to a blind crawl.

Some traffic congestion resulted, but the results of the evacuation surprised even the exercise planners. On a normal working day it takes approximately 70 minutes for homeward bound motorists to clear the Arsenal. The Arsenal gates were clear in less than 60 minutes Thursday despite the rain. More than 11,000 vehicles participated in the exercise.

Chez-Pup was conceived in March as the largest passive defense exercise ever held on the 40,000 acre installation. Last September a group of soldier volunteers had spent a day and a night in one of the ammunition bunkers, 80 by 26 foot storage areas covered with concrete and a burden of earth. They were built to store ammunition during World War II when Redstone was an ammunition loading center.

Thursday's drill was the first time the Arsenal's civilian work force had been involved in an

exercise of this magnitude. Shortly after they had evacuated the installation, all military personnel and their dependents drove — on signal—in their own autos to the southern portion of the Arsenal to check in at the bunkers — called igloos—which would provide shelter for them during a real emergency. This group, numbering more than 4,000 persons in all, returned to their homes after reaching their assigned shelters.

Harold Carpenter of the Army Missile Command's Comptroller staff, was Missile Command project officer for the exercise. Col.

(Other Pictures, Pages 4, 5)

Robert M. Allgeier was Missile Support Command exercise director assisted by Capt. Farley Thompson, serving as his deputy.

Heading the Marshall Space Flight Center operation was C. W. Huth, deputy civil defense director for MSFC, and his deputy Howard Slayden.

Maj. Henry R. Arnold was Project Officer at OGMs.

Harris Mitchell, Civil Defense Director, Huntsville-Madison County and his Civil Defense Police and communications personnel participated with Huntsville City Police in directing traffic outside the Arsenal.



EMERGENCY PREPARATIONS—Capt. Donald M. Richards and his family are ready for their first meal in a fallout shelter at Redstone Arsenal where they volunteered to stay 24 hours during Exercise Chez Pup. More than 20,000 military and civilian personnel at Redstone Arsenal participated in the passive defense measures test last week. Left to right are: Ann, 2; Mrs. Richards; Keith, 4; Capt. Richards; Catherine, 5; and Lynne, 6.

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 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication. The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

Rocket Ruminations

The world is so full of a number of things
I'm sure we should all be as happy as kings.
—Robert Lewis Stevenson

Shaped Up Well

Four inches of rain were not part of the exercise plan, but it certainly provided an unexpected opportunity to evaluate our evacuation plans under less than optimum conditions Thursday.

Thanks to the wholehearted cooperation of everyone concerned, the rain clouds proved to be the only dark spot during Exercise Chez-Pup.

The event was well planned and well executed. Results of the exercise and the lessons that have been learned will be of inestimable value in our passive defense and emergency planning.

The soldier volunteers who endured extreme discomfort in an improvised fallout shelter deserve special recognition for a job well done.

It was gratifying to note the number of wives and children who participated in the family fallout shelter test. The behavior of the youngsters sealed off from sunshine for a day and night is beyond praise. They proved beyond question that there are good soldiers on this installation not yet old enough to wear a uniform.

My thanks to all who participated. When called upon, you "shaped up" well.

F. J. McMORROW
Major General, USA
Commanding.



THIRD ARMY VISITOR — Maj. Gen. Daniel A. O'Connor, new deputy commanding general of the Third Army in Atlanta will make his first official visit to the Army Ordnance Guided Missile School July 29, it is announced by Col. William J. Macpherson, commandant. Gen. O'Connor was formerly commanding general of the 31st Air Defense Artillery Brigade, assistant commandant of the Army Air Defense School and Chief of Staff of the Caribbean Command.

Cummings Heads Sub-Committee

Appointment of a special Huntsville-Madison County Chamber of Commerce sub-committee to work directly with the Army Ordnance Guided Missile School is announced by James D. Thornton, president.

William H. Cummings heads the 11-man group which will function as a part of the over-all Redstone Arsenal Committee, Thornton said.

Other members include Harvey Eckenrode, Rev. George Hart, J. E. Humphrey, W. W. Koerner, John M. Lott, S. E. Miller, Arthur E. Oswald, Douglas Ray, Earl Schmidt and Dorsey Uptain.

Establishment of the committee was hailed by Col. William J. Macpherson, commandant of the Missile School, as "gratifying recognition of the contributions of OGMS to the local economic and cultural environment during its 10 years of operations here." Macpherson said about 5,000 students will come here in 1964. They and the permanent staff and faculty account for an annual payroll of about \$23,000,000.

The School also expects to boost its enrollment of foreign students to 900 during the coming academic year, a 50 percent increase over the 600 who attended last year. Since many will be accompanied by their families, he forecast that as many as 1,500 men, women and children from 16 countries will be in Huntsville during the year.

He said OGMS will make recommendations to the committee for

Col. Braid Is Assigned; Col. Nelson Leaves Zeus

Col. Robert B. Braid, who has been Commanding Officer of Watertown Arsenal since May, 1960, will succeed Lt. Col. William J. Nelson as Deputy Project Manager for the Nike Zeus Anti-missile Missile System.

Col. Nelson was transferred this week to Carlisle Barracks, Pa., where he will attend the Army War College.

The personnel changes were announced today by Col. I. O. Drewry, the Nike Zeus Project Manager.

Col. Nelson came to Redstone Arsenal in July of 1960 from a tour as Chief of the West Coast Field Office of the Army Missile Command at Pasadena, Calif. He was awarded the Army Commendation Medal for his service with Nike Zeus.

A West Point graduate, Col. Nelson received a Masters Degree in Electrical Engineering from Rensselaer Polytechnic Institute and served at key Army installations in the U. S., Europe, Japan and Korea.

Col. Braid is a native of Quincy, Fla., and a graduate of Rutgers University. He entered the Army in September, 1940. During subsequent tours of duty he was Executive Assistant at the Ordnance School at Aberdeen Proving Grounds, and served in the Office, Chief of Ordnance.

He attended the Army War College in 1955 and later became Chief of the Industrial Division at Watervliet Arsenal.

Col. Braid returned to Germany in 1957 as Commandant of the U. S. Army Ordnance School.

The new Nike Zeus Deputy Project Manager was commander of Watertown Arsenal when the Army's first nuclear reactor was dedicated there. It was also during his tour that the Arsenal came under the Army Missile Command and facilities there were oriented toward the support of missile hardware devel-



COL. R. B. BRAID

opment and requirements. As Commander of the Arsenal, he was also Commanding Officer of the Army Materiel Research Agency there which does research in a broad number of fields, including metallurgy.

Col. Braid is scheduled to report to the Nike Zeus Office in the latter part of August. Lt. Col. Alfred Holston, Chief of the Engineering Requirements and Plans Division, is the Acting Deputy Project Manager.

CARTOON OF THE WEEK
Selected by AFPS from...
The BERLIN OBSERVER
APO 742-NEW YORK, N.Y.

"I'M TELLING YOU, FINSTER, FOR THE LAST TIME--YOU WON'T LOSE YOUR STRENGTH IF YOU CUT IT OFF..."

community action in the areas of "people-to-people" hospitality for U. S. and foreign students, industrial tours and recreational and social programs.

OPEN HOUSE

—IN—

OAKMONT

Offering three bedrooms and den homes from \$16,700 and up on 100% VA or minimum down FHA.

—DIRECTIONS—

Drive west on Oakwood Avenue four blocks past Pulaski Pike and turn right.

HUNTER & MITCHELL
REALTORS — PHONE 539-1759

LOANS

\$325 to \$1500

To Consolidate Bills — To Repair House
For Other Purposes

Phone 536-9675
For Your Money TODAY!

G. F. C. CREDIT CORP.
218 Holmes Ave., N.E. Times Bldg.

WE CAN NOW INSURE YOUR V.W. THROUGH

V. I. C. O. Insurance Co.

Exclusively For Volkswagen Owners
— AT VERY LOW RATES —

- Bodily Injury
- Property Damage
- \$50 Deductible
- Towing & Labor
- Family Protection Against Uninsured Motorist
- Comprehensive
- Collision
- Medical Payments

ALSO LOW RATES ON DOMESTIC CARS
CALL . . . BOB PRITCHETT

UNIVERSAL MOTORS, INC.
NO. MEMORIAL PARKWAY PHONE 539-7456



Enjoy
Budweiser
tonight!

KING OF BEERS
ANHEUSER-BUSCH, INC. • ST. LOUIS • NEWARK • LOS ANGELES

Distributed By
TURNER BEVERAGE CO.
Huntsville, Alabama

INCENTIVE AWARDS

Suggestions

Paul D. Yates, Army Ordnance Guided Missile School, \$20 award—this suggestion resulted in the installation of "drop lights" in the missile vans used for instructional purposes.

Roy R. Townsend, Army Missile Support Command, \$225 award—this suggestion resulted in a method of testing the miniature type tubes used in all type missile systems without removing them from the circuit. This idea has been adopted with slight modifications. The estimated first year savings is \$4423.

Charles E. Stubbs, Army Missile Support Command, \$70 award—this suggestion resulted in MWO 9-2330-212-20/6 dated February 12, 1959, being revised to include some additional Nike System Vans that have classified material stored in them at the time of shipment or when in the field.

Billy W. Hardin, Army Missile

Support Command, \$20 award—this suggestion resulted in a low limit thermostat being installed on each of the five supply fan units on the air conditioning system at building 5201.

Johnny E. Wise, Army Missile Support Command, \$15 award—this suggestion resulted in the prints for preparation of Master Planning Maps and Utility drawings being reproduced from ready cut sheets of reproduction paper. The estimated first year savings is approximately \$300 to \$400.

Billy F. Kinner, Army Missile Support Command, \$20 award—this suggestion resulted in the heater control in building 5201 being changed so as to be supplied with air from the "main" line in order to allow the cooling tower heater to operate whenever the water temperature in the cooling tower basin requires warming.

Thomas M. Frazier, Army Missile Support Command, \$215 award—this suggestion resulted in the Anniston Army Depot submerging the resistors on their material handling equipment in transformer oil to reduce the frequency of these resistors burning out. The estimated first year savings is \$4250.

Kenneth W. Bloom, Army Missile Command, Letter of Appreciation, this suggestion concerned the practice of setting a definite effective revision date on Command Memorandums and other procedures generated by the U. S. Army Missile Command being discontinued and that revisions or recisions only be made when necessity arises.

LaVain H. Bowman, Army Missile Command, Letter of Appreciation, this suggestion resulted in a water heater of sufficient capacity and recovery ability being installed in building 4488 to supply adequate hot water to the rest rooms.

Gerald Geller, Army Missile Command, Letter of Appreciation, this suggestion concerning magnets to be used in attaching drawings and blue prints has been par-

CARS AND MOTOR SCOOTERS OPERATE UNDER THE SAME LAW

Many persons who have recently purchased motor scooters have found that the legal, safety and insurance requirements are quite different from the pedal type two-wheelers.

The following may help those who are thinking about buying motor scooters.

Motor scooter is classified as a motor vehicle by law. Therefore, its operator is subject to traffic violation fines the same as the operator of an automobile.

The same basic safety devices are required as for a four wheeled vehicle: a horn, good brakes, rear vision mirror and lights. The motor scooter must pass inspection before a state license is

awarded. For operation on Redstone Arsenal, a safety helmet approved by the American Motorcycle Assn. must be worn. The operator is subject to arrest for carrying a passenger unless he has an approved "buddy-seat," or he can be arrested operating on a side walk.

An operator under 16 years of age is restricted to a motor under 5 hp. He must show a dealer's

affadavit that the engine is less than 5 hp. and show his birth certificate to get his operators permit.

Military personnel must show a non-resident affadavit to be eligible for state tax exemption.

Liability insurance is required for operation on Redstone Arsenal.

License plate and Redstone decal must be properly mounted.

A new motor scooter requires a bill of sale. A used scooter requires a transfer receipt.

July 30, 1928—First colored motion pictures in United States exhibited by George Eastman at Rochester, New York.

FAGAN

(Continued From Page 1)

Six organizations received citations for more than 100 per cent "fair share" participation.

Fagan came to Redstone Arsenal in 1950 as assistant chief of the Research and Development Division, Ordnance Missile Laboratories.

Before that he was advisor to the commanding officer at the Ordnance Research and Development Division Sub Office (Rocket) at Ft. Bliss, Tex.

Fagan earned his bachelor of science degree in chemical engineering at the University of Notre Dame.

A native of Terre Haute, Ind., he is married to the former Miss Mary Danish of Albany, N. Y. They have a son, Bruce, a university student.

tially adopted in that magnets, although without the drawer pulls, can now be obtained through supply channels.

Jesse P. Evans, Jr., Army Missile Command, \$75 award—this suggestion resulted in all EAM aperture cards located in the master files of AMSMI-IEDD being annotated with a "CI" to indicate that the card is a common item and is contained in the Automatic Data Retrieval Engineering System. The estimated first year savings is \$1440.

Willie H. Martin, Army Missile Command, \$215 award—this suggestion resulted in each cataloging technician that prepares item descriptions supported by tabulated Ordnance Drawings and Military Standard Drawings preparing a template description on the basic item and filling these templates by the most convenient manner. The estimated first year savings is \$4272.

Edward C. Gill, Army Missile Command, \$115 award—this suggestion resulted in inventoried property being numbered to identify the hand receipt holder who is responsible for the property. The estimated first year savings is \$2234.



GOVERNMENT EMPLOYEES LIFE INSURANCE COMPANY
A Legal Reserve Company Not Affiliated With The U. S. Government

NOW HAS A LOCAL REPRESENTATIVE TO SERVE YOU

GAYLORD E. MULLINS
6114 STRATFORD COURT, N.W.
HUNTSVILLE, ALABAMA
Phone: 536-0202

**FAMILY PLANS
MORTGAGE INSURANCE
WHOLE LIFE & TERM INSURANCE**



Guntersville Lake Vacation Cottages FOR RENT!

Write Tanglewood Acres, Scottsboro, Ala., R.F.D. No. 3 or Call Guntersville 582-4702 for information and reservations. 10 miles N.E. of Guntersville, Highway 79 (Guntersville-Scottsboro Highway).

WANT MONEY?

| Cash You Receive | 24 Monthly Payments |
|------------------|---------------------|
| \$400. | \$18.66 |
| \$800. | \$37.33 |
| \$1200. | \$56.00 |
| \$2000. | \$93.33 |

LOANS From \$301. Up
For Any Good Purpose . . . On Signature, Furniture, Automobiles, Real Estate.

CONSOLIDATE YOUR BILLS—PAY ONE SMALL NOTE!



Guardian Discount

PHONE 539-2787
1004 MERIDIAN ST., NO. HUNTSVILLE

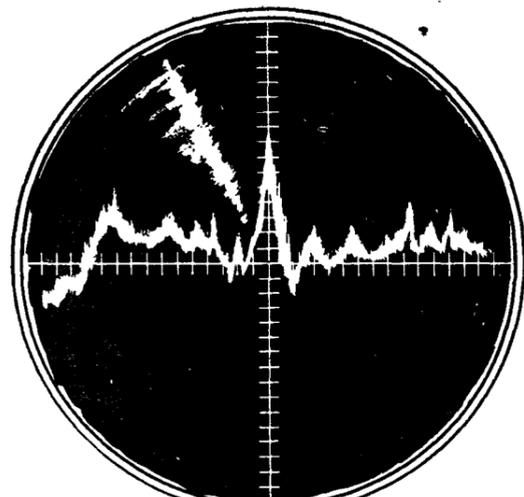


Melton Hotel
A LANDMARK OF SOUTHERN HOSPITALITY
Twentieth Street at Fifth Avenue
BIRMINGHAM 1, ALABAMA

- 200 Beautiful Guest Rooms
- Air Conditioning & TV
- Rates from \$5.00
- Famous for Fine Food
- Free Night Parking
- Children Free
- Executive Conference Suite

BILL WRIGHT
General Manager
251-7243

Need "on target" money help?



Get a loan from HFC

Get the exact loan for your exact need. Pay bills, buy a car, take a leave. If you need cash for any good purpose, go where more servicemen go—to HFC.

| Cash You Get | MONTHLY PAYMENT PLANS | | |
|--------------|-----------------------|-----------|-----------|
| | 30 months | 24 months | 12 months |
| \$500 | | \$24.73 | \$46.81 |
| 700 | | 34.30 | 64.92 |
| 1000 | \$40.05 | 48.76 | 92.30 |
| 1500 | 59.80 | 72.80 | 137.80 |
| 2000 | 78.96 | 96.13 | 181.96 |

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



HOUSEHOLD FINANCE
Company of Alabama

HUNTSVILLE OFFICE
706 Heart of Huntsville Shopping Ctr.
PHONE: 539-4496

Hours: Mon., Tues., Wed., Fri. 9:30 to 5:30—Thurs. 11 to 8 P.M.
Loans made to residents within a 100 mile radius



Check MIDAS

When it comes to MUFFLERS



Sold Only at MIDAS



MUFFLER SHOPS

PRICE Midas Costs Less with Free Installation

QUALITY Guaranteed As Long As You Own Your Car[®]

SERVICE 15 Minute Service, Mufflers for all Cars

MIDAS BUDGET PLAN • NO MONEY DOWN
NO INTEREST • TERMS TO SUIT YOU

*If replacement muffler ever needed you pay only a \$4.00 service charge.

STORE HOURS:
8:00 A.M. - 6:00 P.M.

BOB WALLACE AVE. AT PARKWAY
TELEPHONE 539-5741



BATTEN THE HATCH—The rearguard among the volunteers for 24 hours of confinement during a mock fallout—one phase of Exercise Chez Pup at Redstone Arsenal last week—tug the heavy door to close themselves inside.



READY TO RIDE—Trucks carrying volunteers from among the troops at the Army Missile Command, the Ordnance Guided Missile School and the Army Missile Support Command wait for the signal to take shelter during Exercise Chez Pup at Redstone Arsenal Thursday afternoon. Leaders converge beside a Military Police vehicle for a check on last minute details.



TWENTY-FOUR HOURS TO GO—Volunteers stream into the fallout shelter where they will spend the next 24 hours to test the effectiveness of the igloos at Redstone Arsenal as possible shelters in case of attack. Approximately 100 volunteers spent Thursday night and Friday inside.

R. G. Moran Joins Thiokol

Richard G. Moran, former Georgia industrial executive, is the new contract negotiator for Thiokol Chemical Corporation's Alpha Division—Huntsville Plant.

Moran succeeds Bruce Key who will join Thiokol's corporate office at Bristol, Penn. on Aug. 1.

A native of Iowa, Moran is a magna cum laude graduate of Creighton University, Omaha, Nebraska.

He joined the Tumpane Company in 1951 as chief accountant of the company's Marietta Division. He was acting assistant plant manager and director of administration before becoming a vice president and director in 1954. For the past two and one-half years, he has also been general manager of the division—responsible for a considerable portion of the firm's negotiations.

Moran is a veteran of World War II. He was a squadron executive officer in the Army Air Corps' 97th Bomb Group in Italy, and was released from active duty with the rank of major.

He and his wife, the former Marjorie Backstrom of Omaha, are the parents of a daughter, Judith Ann, 20.

Moran will be responsible for negotiations involving Thiokol's Huntsville Plant with the Army,



R. G. MORAN

Navy, Air Force, and the Atomic Energy Commission as well as with prime contractors.

Key, in his new job, will do legal and contract work involving all Thiokol divisions. He will report to Charles J. Moxley, Thiokol's Director of Contracts, Materiel, and Legal.

Time for a Treasury Tip. Seldom would a Savings Bonds owner realize a gain by cashing his older E. Bonds and buying new ones with the proceeds.



BARE ESSENTIALS—Rows of mattresses present a bleak but safe spot for refugees from a mock attack during Exercise Chez Pup. Rations were provided for the soldiers who volunteered to test their ability to withstand crowded quarters and boredom in a converted ammunition igloo during the 24 hour test last week.

July 2, 1926—Army Air Corps created by Act of Congress.

MONEY

For
**HOME LOANS
FARM LOANS**

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

• Also All Types of Insurance

GATES

Insurance Agency
303 Terry-Hutchens Bldg.
Office Phone—534-0371
Home Phone—534-6308

Be A Successful Secretary



By Attending NACC Night Classes

Beginning and Refresher Classes in Gregg Shorthand, Space, Missile, and Engineering Shorthand, Federal Entrance Coaching and Stenograph Machine Shorthand.

Since 1948 more graduates from NACC have passed Civil Service exams than any other commercial school in Alabama.

North Alabama College of Commerce

North Alabama College of Commerce Bldg.
528 Madison Street — Huntsville, Alabama

PHONES 536-2611 or 539-0429

Accredited by: The Accrediting Commission for Business Schools, Washington, D. C.

HEALTHY HABIT

Make a habit of serving the family nourishing milk with meals and at snacktime.

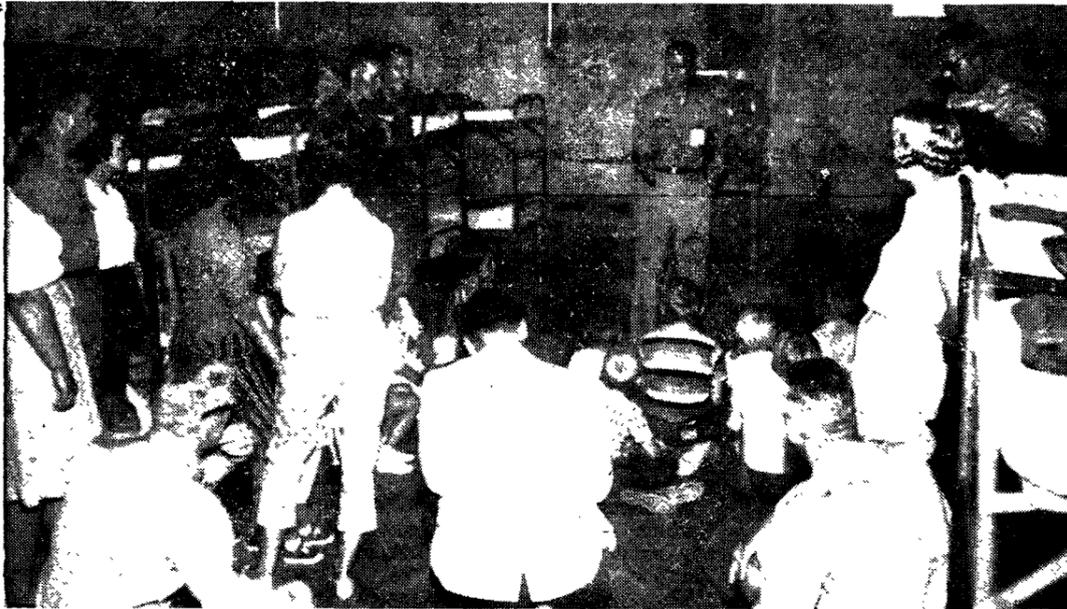


Meadow Gold Dairies

CLINTON STREET — HUNTSVILLE, ALA.

Photos Of Exercise Chez - Pup

(STORY ON PAGE ONE)



GOOD LUCK IN CHEZ-PUP—Col Thomas W. Cooke (center background) Commander of the U. S. Army Missile Support Command, welcomes family volunteers to a fallout shelter where they spent the night, as part of Exercise Chez-Pup. The shelters were occupied as a part of passive defense testing at Redstone. Chaplain (Lt. Col.) Wilmer R. Bottoms (far left) is shelter commander for the family shelter. Soldier volunteers shared another shelter in the exercise.



TEA TIME—Mrs. William Luk hands son Robert, 6, a drink during the family test of ammunition bunkers as fallout shelters in Exercise Chez Pup. The other two Luk children are William, 9, and Mary, 5. Col. Luk is Provost Marshal and Troop Commander at Redstone Arsenal.



TINY VOLUNTEER—Tina Marie Moseley (3) is settled on a bunk in a fall-out shelter at Redstone Arsenal by her mother, Jeanetta during Exercise Chez Pup, last week. Wife and daughter of S/Sgt. Theodore Moseley, they were among 20,000 persons participating in the most extensive evacuation exercise ever held in the area. Tina Marie is one of several children who spent the night in the fall-out shelter.

money

Just tell us how much money you need to meet all your seasonal expenses! Phone before noon to arrange for your money the same day! Do it now!

Under State Supervision

LOANS UP TO \$300

MUTUAL

FINANCE

106 South Side Square
Phone: 536-8591

109 Holmes Ave., N.E.
Phone: 534-0611

In Decatur

121 East Moulton St.
Phone: EL 3-4413

Pay all your bills with a CONSOLIDATION LOAN. This way, you will have less to pay out each month and only one place to pay. Phone us today for prompt, courteous service!

LOANS \$301 AND UP

MUTUAL

INDUSTRIAL FINANCE

106 South Side Square
Phone: 536-8591

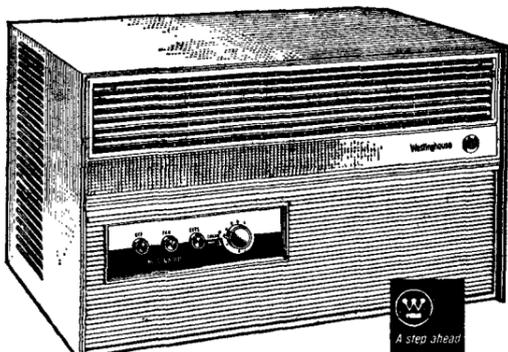
109 Holmes Ave., N.E.
Phone: 534-0611

In Decatur

121 East Moulton St.
Phone: EL 3-4413

Air Conditioner CLOSE OUT SEASON SALE

ALL SIZES WESTINGHOUSE
5,000 BTU to 2,400 BTU



YOU ARE NOT BUYING DISCOUNT IF YOU ARE NOT BUYING HERE!

APPLIANCE CENTER

203 Washington Street

Phone 534-1191

SELECT USED CARS!!

RAMBLER ————— **RAMBLER**

'60 Chevy Bel Air \$1275

'56 Chrys. hardtop \$675

'62 Ford Galaxie \$2475

'56 Olds "88" 4-dr. \$1275

'60 Ford Wagon \$1275

'59 Ford Galaxie hardtop \$1175

'57 Chevy 2-dr. \$675

'58 Ford F'lane 500 \$775

'59 Rambler Classic \$975

'58 Ford F'lane 500 \$775

BILL PENNEY



Rambler

Trade With Penney And Save Dollars

529 MERIDIAN ST. N.

PHONE 534-4514

Rockets Rip Ardmore

The Redstone Rockets played host to the Ardmore Chiefs here July 12.

It was a scoreless game until the last half of the fourth inning. Redstone cut loose and came up with five runs to be followed by eight runs the following inning.

Good hitting and excellent coaching paved the way for Redstone's second win of the season. Redstone on June 29, won out over Eddy of Arab by a score of 6-0.

Ardmore's runs came in the fifth and sixth innings. They scored one run in each inning. The final score of the game was Red-

stone 13, Ardmore 2. Redstone now has a two win, no loss record. Games Redstone has scheduled: July 19, Huntsville Mets vs. Redstone Rockets. July 21, Huntsville Hawks vs. Redstone Rockets. July 23, Hartselle, Ala. vs. Redstone Rockets. July 30, Grant, Ala. vs. Redstone Rockets.

ARDMORE

| ab | r | h |
|--------------|---|-----|
| Payne, ss | 3 | 1 0 |
| Hodges, 2b | 3 | 0 0 |
| Saraceno, 3b | 1 | 0 0 |
| Baughner, 1b | 3 | 0 0 |
| Tucker, lf | 3 | 1 1 |
| Hall, cf | 3 | 0 0 |
| Haney, rf | 3 | 0 2 |
| Martin, p | 3 | 0 0 |
| Thompson, c | 1 | 0 0 |
| Hillis, c | 1 | 0 0 |

TOTALS

| | | |
|----|---|---|
| 24 | 2 | 3 |
|----|---|---|

REDSTONE

| ab | r | h |
|--------------|---|-----|
| Davis, cf | 3 | 1 2 |
| Sabourin, c | 4 | 2 1 |
| Anderson, ss | 3 | 2 1 |
| Gebhard, 2b | 3 | 1 2 |
| Wollet, lf | 4 | 2 1 |
| Aughtman, 3b | 3 | 2 1 |
| Edmonds, 1b | 3 | 1 1 |
| Parker, rf | 4 | 1 1 |
| Drabczyk, p | 2 | 0 0 |
| Gawelko, p | 1 | 1 0 |

TOTALS

| | | |
|----|----|----|
| 30 | 13 | 10 |
|----|----|----|

New Band Master Takes Over 55th

The 55th Army Band has a new bandmaster who signed his first morning report a week ago.

He is Warrant Officer Robert E. Edmonds, Jr., who completed the advanced course at the U. S. Naval School of Music before taking over the band from CWO DeWitt Mytinger.

WO Edmonds was born at Norfolk, Va., and studied at schools in Norfolk and Galesburg, Ill., before attending William and Mary College in Norfolk and later Catholic University of America in Washington, D. C. He majored in music.

In 1948, he joined the Armed Forces at Schofield Barracks, Hon-

olulu and has been assigned to bands at Ft. Sam Houston, Tex., the 1st Infantry band and 7th Army Symphony in Germany, and the U. S. Army Band in Washington D. C.

His parents are Col. and Mrs. R. E. Edmonds, 103 Chinaberry Court, San Antonio, Tex. WO Edmonds is married to the former Miss Margaret Ann Fick, daughter of Mr. and Mrs. Nathaniel Fick of Arlington, Va. The Edmonds have a three-year-old daughter, Deanna Lynn.

During his assignment at Schofield Barracks, WO Edmonds was decorated for bravery.

He likes sports and was a member of the Ft. Myer Golf team while stationed there. He also plays baseball, softball and played with a semi-pro football league at Norfolk.

Schorsten-Cobb Wins Junior Scotch Foursome

Junior Golfers, sponsored by the Golf Group of the Redstone Arsenal Officers Wives Club, played Scotch foursomes Thursday with Danny Schorsten and Buster Cobb shooting the lowest score.

Second were Charles Graham and Timmy Thompson.

Tomorrow the Advanced Juniors will tee off at 12:30 p.m. so that students attending Summer school will have a chance to play.

The younger group will tee off as usual at 8:30 a.m.

CHEMISTS HOLD ELECTION

The North Alabama section of the American Institute of Chemical Engineers elected new officers for the 1963-64 term, naming C. W. Whatley of Decatur as chairman.

The chairman-elect (vice president under most organization structures) is W. D. Fiser of Thiokol Chemical Corp., with L. A. Troeltech, Decatur, secretary; William Warmack, Sheffield, treasurer; Lewis Hurt, Rohm and Haas, R. C. Libey, Decatur, and W. R. Johnson, Sheffield, all vice chairmen.

The group ends its calendar schedule for a year with a boat ride and picnic on the Tennessee River. The next meeting will be in September. Meetings are alternated in Huntsville, Decatur, and the Tri-Cities.

Scoreboard

MEN'S SUMMER BOWLING LEAGUE HANDICAP

| Team | Won | Lost |
|------------------------|-----|------|
| 1st Place UTC Raiders | 19 | 5 |
| 2d Place Co. "B" | 17 | 7 |
| 3d Place 291st MP | 17 | 7 |
| 4th Place O'Hms | 14 | 10 |
| 5th Place Hq's STC | 11 | 13 |
| 6th Place Section-Ates | 8 | 16 |
| 7th Place Cellar | | |
| Dwellers | 7 | 17 |

TUESDAY NITE LADIES LEAGUE

| Team | Won | Lost |
|----------------------|-----|------|
| 1st Place Team No. 3 | 23½ | 8½ |
| 2d Place Team No. 4 | 19½ | 12½ |
| 3d Place Team No. 8 | 18 | 14 |
| 4th Place Team No. 7 | 16 | 16 |
| 5th Place Team No. 2 | 16 | 16 |
| 6th Place Team No. 5 | 14½ | 17½ |
| 7th Place Team No. 1 | 13½ | 18½ |
| 8th Place Team No. 6 | 7 | 25 |

High 3 Games:
(Team No. 8—2255)
High Team Game:
(Team No. 4—791)
High Individual 3 games:
(F. Sullivan—561 Scratch)
High Individual 3 games:
(S. Vaughn—650 w/handicap)
High Individual game:
(F. Sullivan—217 scratch)
High Individual game:
(B. Ratliff—249 w/handicap)

RSA SCRATCH TRIO LEAGUE

| Team | Won | Lost |
|-----------------------|-----|------|
| 1st Place Russell's | 30 | 15 |
| 2d Place Drifters | 30 | 15 |
| 3rd Place Rinky Dinks | 28 | 17 |
| 4th Place Strikers | 24 | 21 |
| 5th Place 3 Aces | 23 | 22 |
| 6th Place VIP's | 17 | 28 |
| 7th Place Winners | 17 | 28 |
| 8th Place Mitchells | 11 | 34 |

High Team 4 games:
(Winners—2123)
High Individual 4 games:
(S. Douglas—804)
High Individual team game:
(Strikers—597)
High Individual game:
(Joe Calamusa—237)

SUMMER MIXED LEAGUE

| Team | Won | Lost |
|----------------------|-----|------|
| 1st Place Team No. 1 | 18 | 6 |
| 2d Place Team No. 2 | 16 | 8 |
| 3rd Place Team No. 4 | 12 | 12 |
| 4th Place Team No. 3 | 2 | 22 |

Softball Scoreboard

July 11

Officers 22—Med. Det.—0.
Co. A OGMS 13—Hq. AMC—9.
Co. B OGMS 12—Hq. STC—1.
Hq. AMSC 7—291st MP—0.

July 15

Co. B OGMS 6—Hq. STC—4.
Hq. AMSC 4—291st MP—9.
Officers 32—Med. Det.—3.
Co. A OGMS 7—Hq. AMC—0.

July 17

Med. Det. 7—Hq. UTC—0.
Co. B OGMS 7—Hq. AMC—0.
Hq. AMSC 9—Co. A OGMS—1.
Hq. STC 5—Officers—1.

Softball League

| Team | W | L | % | G.B. |
|--------------|----|----|------|------|
| Hq. AMC | 23 | 3 | .885 | |
| Co. A OGMS | 20 | 6 | .769 | 3 |
| Officers | 17 | 10 | .630 | 6½ |
| Med. Det. | 13 | 13 | .500 | 10 |
| Hq. AMC | 13 | 13 | .500 | 10 |
| Co. B OGMS | 11 | 15 | .423 | 12 |
| 291st MP Co. | 10 | 15 | .400 | 12½ |
| Hq. UTC | 8 | 17 | .320 | 14½ |
| Hq. STC | 6 | 20 | .231 | 17 |

Rifle Team Scores High In Knoxville Competition

Redstone Arsenal's Smallbore Rifle Team came home from the Knoxville Southeastern Division Region meeting with more "firsts" to tuck in the trophy case.

Sharpshooter, SP5 John R. Viollette scored first in prone, metallic sights and in the metallic sight aggregate; he was first in any sight, standing; first with any sight, kneeling; first in the any sight aggregate and first in the

grand aggregate.

Marksman, SP5 Nicholas P. DiMona placed first in the sitting position with a metallic sight and scored the metallic sight high aggregate.

Another marksman, Gary R. McGeehee, took first place in the any sight aggregate and first in the grand aggregate.

This was the first position match in which the Redstone team has competed.

Taking off on leave, furlough or pass?



REMPSEN E
RA 510672519

Take off on Eastern!



EASTERN AIR LINES

SAVE 50% OFF ONE-WAY OR ROUND-TRIP JET FARES!

If you're a member of the U. S. Armed Forces, on authorized leave, furlough or pass, you can fly for just half the regular Jet Coach fare to any of the 113 cities served by Eastern in the continental United States. Between cities where there is no Eastern jet service, your half-fare rates will be based on equivalent Jet Coach fares. Half-fare rates available on standby basis.

To qualify for half-fare rates: Purchase your tickets in advance (this applies to all flights, including Eastern's "Air-Shuttle" and "Walk-On" service). Show a copy of your leave, furlough or pass when you purchase tickets, and be in uniform when you purchase tickets and when you travel. Get full details from Eastern or your base JAMTO or transportation office.

JET CONNECTIONS TO MIAMI AND NEW YORK AT ATLANTA
In addition—NON-STOP SUPER ELECTRA TO CHICAGO



EASTERN AIR LINES
THE NATION'S MOST PROGRESSIVE AIRLINE

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



VALUE ENGINEER—Morris Knight of the Directorate of Procurement and Production Contract Division was one of 52 Missile Command employees who attended a three-day value engineering seminar. Here he receives a training certificate from Col. Edward Billings, Deputy Director of P&P. In the background is W. E. Gibbons of the P&P Value Engineering Division which sponsored the seminar.

Value Engineers End Meeting Here

A total of 52 top managers from the Army Missile Command have wound up a training seminar during which they put missile items through a critical review from a value engineering standpoint.

The Value Engineering Division of the Directorate of Procurement and Production which sponsored the seminar estimated that suggestions on how to eliminate "gold plating" on the 11 items studied would save up to 70% of their production cost.

The purpose of the seminar was to train Missile Command personnel in methods of applying value engineering. The Missile Command is interested in value engineering as a method of meeting the Department of Defense's requirements for economy in producing defense hardware.

The seminar was led by employees of three firms which have effective value engineering programs. They were Robert Smith and Vern Meyer of Litton Systems, Glenn Hart of Aerojet-General, and Robert Bidwell of Mar-

Island Hiway Closed

Hobbs Island Road from U. S. Highway 231 at the Tennessee River Bridge to Buggs Chapel will be closed to through traffic until approximately August 1.

Madison County officials reported the closing of this Redstone Arsenal commuters' route because of resurfacing by the county.

There is no alternate route. Traffic normally using the Hobbs Island Road from U. S. Highway 431 to the Arsenal will have to proceed north on U. S. 431 over Monte Sano Mountain.

Treasury Department records show that tens of millions of American families now own more than \$46 billion worth of U. S. Savings Bonds Series E and H.

Technical Panel Studies Guidance And Navigation

More than 30 of the Army's top inertial guidance and navigation specialists are meeting at the Army Missile Command Tuesday and Wednesday to discuss the Army's present and future work on gyroscopes, accelerometers, and navigation and guidance computers.

The meeting is the first for the newly-formed Army Technical Panel on Inertial Guidance. It will meet quarterly to coordinate all Army research and development work on inertial systems and components.

The conferees are beginning the task of tying together all the inertial guidance work now being done separately by several Army commands and agencies. This work totals more than \$40 million per year for the research and development of missile guidance systems, aircraft and land navigation systems, surveying instruments, fuzing systems, and various control and stabilization

systems.

Host for the meeting is the Army Inertial Guidance and Control Laboratory of the Directorate of Research and Development. William V. Gudaitis, deputy director of the laboratory, is chairman of the technical panel, which has representatives from all Army commands and agencies involved in the design and development of systems using inertial components.

The group was welcomed by Col. C. W. Eifler, Deputy Commander, Land Combat Systems, Army Missile Command. Col. Eifler was followed by John L. McDaniel, technical director of the Directorate of Research and Development, who discussed the objectives of the two-day meeting.

The remainder of the first day was spent in discussing the status of current Army programs on missile guidance, aircraft navi-

gation, land navigation, and inertial surveying systems. Wednesday morning will be spent discussing the present status in gyroscopes, accelerometers, and guidance and navigation computers.

The meeting will close with a tour of the Army Inertial Guidance and Control Laboratory, for a look at the extensive facilities of the Army Missile Command for design and development of missile inertial guidance and control systems.

Subsequent meetings of the technical panel will take place at other Army installations to permit members to see all of the Army resources for managing and technically supervising the many programs going on within the Army, industry, and at universities.

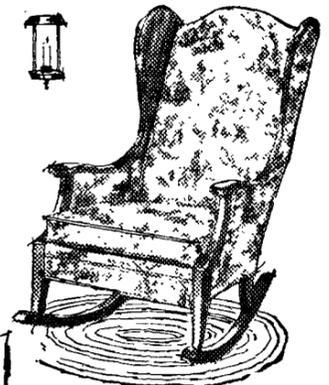
July 2, 1926—Distinguished Flying Cross commissioned for anyone who "while serving in the Armed Services, distinguishes himself by heroism or extraordinary achievement while participating in aerial flight."

tin-Marietta.

Hale Bros. Furniture Co.

106 South Jefferson Street
DOWNTOWN HUNTSVILLE

So popular! This comfortable grandfather rocker. Many, many colors and fabrics.

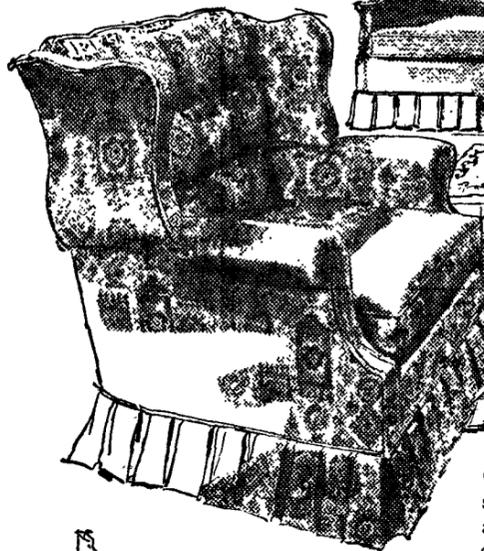


you'll *LIVE* with EARLY AMERICAN

"made-to-your-order" in this great fabric and color selection so perfectly coordinated by

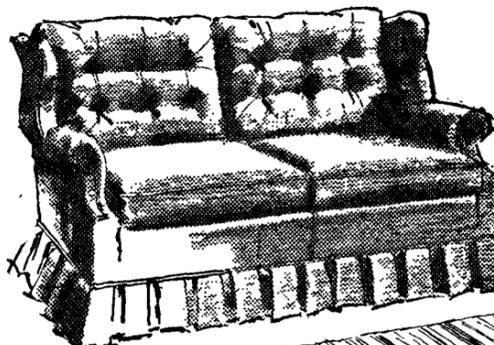
Broyhill
PREMIER

Our new collection of upholstered furniture brings you Early American as you like it. You custom choose styling, fabric, color . . . each piece coordinates with others to give a wonderful look of harmony. Prices are surprisingly low.



Charming chair and sofa to mix or match as you choose fabrics, colors.

and . . . only the *LOOK* is expensive . . . with Broyhill
PREMIER



A loveseat you'll love for almost anywhere! Fabrics galore!

Exposed wood arms, cozy tufted back, patchwork fabric make this charmer!



HALE BROTHERS FURNITURE COMPANY

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

★ For Your Convenience—You Can Pay Your Telephone Bills Here.

Lyric Theatre

"HUNTSVILLE'S FINEST"

STARTS—JULY 25

Here Comes **HAYLEY!**



©1963 Walt Disney Productions
Released by BUENA VISTA Distribution Co., Inc.

SOCIAL ^{and} CLUB EVENTS

Mrs. Robert Scott, CWO S. G. Lewis Win at Party Bridge

Mrs. Robert Scott and CWO Samuel G. Lewis took home high scores from the Monday night party bridge competition at the Squirrel Hill Officers Club last week.

Runnersup were Mrs. Wesley W. Scott and Col. Jesse Fishback.

Reservations to play with the group are handled by Mrs. Jerry Maloy, 877-5627.

DINNER DELAYED FOR 'CHEZ-PUP'

The clouds burst, the sirens blew and operation "Chez-Pup" and the evacuation rolled into high gear.

Meanwhile back at the Post Chapel meat was in the oven for the Protestant Fellowship dinner. The first returnees from the shelter area found the kitchen door locked and could smell the dinner burning. Dinner was an hour late.

Capt. George Kuykendall spoke on "Americanism." He told of his experience in Berlin and what it meant to visit a land of oppressed peoples.

He told of churches with boarded-up doors and buildings with false fronts in East Berlin. He told of what it means to be free and reminded the fellowship of how our freedoms were clearly bought and defended.

It was announced that plans for next month's meeting include a well-known Arsenal personality as guest of honor and speaker. For-

Mrs. Hardenburgh Is Best Speaker

The Huntsville Toastmistress Club met July 17, at the Plantation Restaurant.

Mrs. Miles Hardenburgh was awarded the best speaker's cup. Miss Dollie Wiginton was voted best topic speaker.

Toastmistress of the evening was Mrs. Cora Carr Briskey. Mrs. William Russell served as topicmistress. Other speakers were Mrs. Thomas Bobenia, Mrs. Gere Wyss, and Mrs. James Beasley.

Mrs. R. B. Hearn distributed program assignments for the next three months and announced the term theme, "Something of Value."

Guests were Mrs. Ivan L. Henthorne, Mrs. Sybil Anderson, and Miss Michele Beasley.

Movie Schedule

WEDNESDAY, July 24
"Get On With It" (F)

THURSDAY-FRIDAY, July 25-26
"Lancelot and Guinevere" (M-YP)

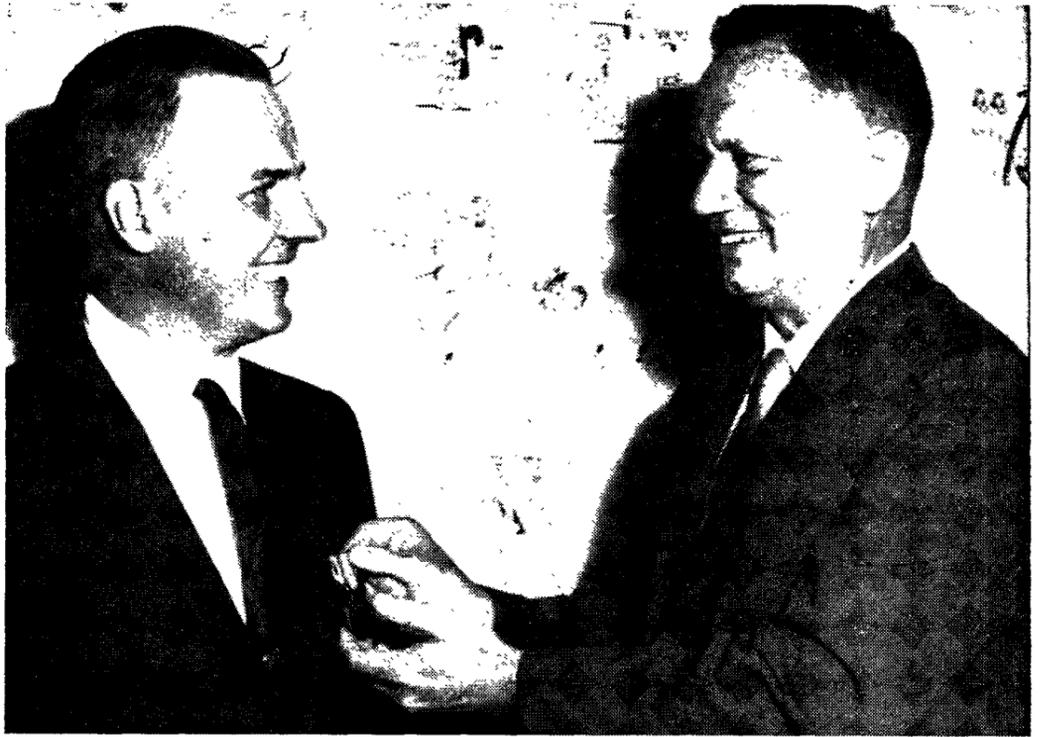
SATURDAY, July 27
"Harbor Lights" (F)

SUNDAY-MONDAY, July 28-29
"I Could Go On Singing" (M-YP)

TUESDAY, July 30
"The Valiant" (F)

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

mal announcement will be made as soon as details are final. The next meeting will be on August 15 at 6 p.m.



FOR ZEUS WORK—Lt. Col. William J. Nelson got the traditional going away party Friday night—and an Army Commendation Medal. Col. Nelson, left, Deputy Nike Zeus Project Manager, was reassigned to the Army War College at Carlisle Barracks, Pa. He had been at Redstone since July, 1960. Col. I. O. Drewry, Zeus Project Manager, presented the medal. In the background is a PERT chart showing events in Col. Nelson's life.

At the Service Club

By: Brenda Hanson

"It isn't so much the heat, it's the humidity." How many times have you heard this in the past week? If you're one of the multitude in search of a cool dry place, don't forget the Service Club. We have an air-conditioned building and we have a roster of programs guaranteed to take your mind off the weather.

On Wednesday night the 24th, the weekly dance class will take over the main lounge at 7 o'clock. Classes are under the direction of David Izen. If you are having trouble learning to dance, come to class and let David assist you to become a good dancer.

Thursday night at 7:30 p.m. cardboard kapers begin in the small lounge. If you happen to be one of the men who enjoy chess, this program is planned for you.

Calling all pool sharks: Friday night we have a pool contest scheduled for 8 o'clock. If you would like to enter be at the club.

Some contestants such as PFC Green and PFC Osborn seem to

BANQUET PLANNED

Lodge 1858, American Federation of Government Employees, will hold a celebration banquet in the National Guard Armory on S. Memorial Parkway on August 2.

The event will begin with a social hour at 6 p.m. and will be followed by dinner, formal program and a dance.

COFFEE SCHEDULED

Wives of officers in the Army Missile Support Command will hold a Coffee Aug. 1 at the Squirrel Hill Pool Patio at 10 a.m.

Mrs. Daniel R. Holt, 877-4758 and Mrs. Carlton J. Robinson, 877-4347, are handling reservations. Mrs. Harry C. McClain will be hostess.

hold the lucky "cues" and are stiff competition.

Saturday night will feature a "Patio Eat-Out." The feast will begin at 5:30 p.m. a Record Dance with Bob Perry spinning your favorite records will follow at 7 p.m. and end at 9:30 p.m. Mark this as an event you don't want to miss.

Sunday, the Service Club doors will open at 9 a.m. and Betty will serve fresh donuts and hot coffee. This is a good way to get the day off to a bearable start. Sunday night at 8 p.m. the rafters of the Service Club will rock to the swinging sounds of the tops in popular field, again brought to you by Bob

Perry. The theme is Dance Craze. The Huntsville Hostesses will be here.

Monday night is game night. Tuesday night the spotlight turns to the cards. Bridge, hearts, Canasta and poker. are planned. The small lounge is reserved for card players after 7 p.m.

Two programs in August that I strongly recommend are the "Third Army Rolling Along Show," and the "Western Round-Up." Keep your eye on this column and I will keep you informed as to the date and the time.

Until then, see ye at the Service Club.

Do You Have Summer Tired Hair?



ONLY YOUR HAIRDRESSER IS TRAINED TO KNOW THE CORRECT CONDITIONER FOR YOUR HAIR. DON'T TAKE CHANCES WITH YOUR CROWNING GLORY!

HAIR CONDITIONERS

Make Your Appointment Now!

\$1.50 Up

It Only

Takes Minutes!

Nita and Dave are just returning from Atlanta with the new fall styles and latest trends in the new Dandy style.

— For Beauty Dial —

NITA'S Beauty Salon

HEART OF HUNTSVILLE SHOPPING MALL

539-1845

—or—

NITA & DAVE'S

SALON OF BEAUTY

PRESTON BLDG., COR. JORDAN LANE & HOLMES

Phone 536-8841

FIRST STOP ON THE WAY TO COLLEGE

The TOWN and COUNTRY SHOPPE



Shop Now — Use Our Convenient Lay-away Plan

For the School Students

For the Working Girl

For the Housewife

Summer Headlines!



Summer's a breeze when we style your hair in a carefree coiffure perfect for sunning and swimming! Call and arrange for regular appointments.

Quick's Beauty Salon

117 GREENE ST., S.E.



Downtown Huntsville

PHONE 534-5441



30,000TH MISSILER—The 30,000th student to be graduated from the Army Ordnance Guided Missile School since it was established in 1952 is SP5 Hubert F. Neal, 22, of Rogersville, Tenn. At right, he receives a commemorative plaque from Maj. Gen. Richard J. Meyer, deputy chief of staff of the Continental Army Command which operates 26 Army schools from its Ft. Monroe, Va., headquarters. Neal hit a military jackpot at the ceremony and also received an outstanding student award from the Association of the U. S. Army for averaging 96 in a ballistic missile rocket motor course.

Marine Promoted; General Tells Of Nuclear Power

The spot promotion of a Marine Corps missile student to Lance Corporal, a prediction of nuclear-propelled missiles by a Continental Army Command general and the awarding of the 30,000th diploma by the Army Ordnance Guided Missile School were highlights of a colorful graduation ceremony at the Post Theater last Friday.

The on-the-spot promotion went to Marine John L. George, 24, of San Diego, Calif., when he won an Association of the U. S. Army outstanding student award for averaging 96.7 in the Hawk internal guidance course.

Maj. Martin Pearson, local Marine Corps liaison officer, appointed the new Lance Corporal under special authority. At the same time, he recommended two other Marines for promotion that requires action by higher headquarters. They were Sgt. Don O. Thompson, 25, of Elwood City, Pa., who averaged 98.2; and Sgt. James E. Cejka, 29, of Redondo Beach, Calif., who had a 97.1 score.

A fantastic array of weapons for the Army of the 1970's was outlined by Maj. Gen. Richard J. Meyer, deputy chief of staff for individual training at the Continental Army Command's headquarters in Fort Monroe, Va. OGMS is an element of CONARC. He spoke to 65 officers and men who completed a variety of missile maintenance courses. Col. William J. Macpherson, OGMS commandant, presided at the event.

New portable nuclear power generators point to the prospect of missiles with nuclear warheads being propelled by nuclear power, Gen. Meyer said. He complimented OGMS on the savings in manpower and training time being accomplished under the "common block" system of missile maintenance training which the school pioneered. Its goal is a technician who can maintain parts of several missile systems.

The 30,000th graduate of OGMS was SP5 Hubert F. Neal, 22, of Rogersville, Tenn. He also qualified for an AUSA award with an average of 96 in the ballistic missile rocket motor course. Gen. Meyer presented him with a large OGMS crest, while John Hatch, president of the Tennessee Valley Chapter of the AUSA awarded him the coat-of-arms of that organization. Neal hit the military jackpot when he also won an OGMS lighter for being top man in his particular class.

High man in the Ordnance Guided Missile Officer course was 2nd Lt. Eugene R. Bratton. Other honor men included PFC Allen M. Green, Marine, PFC Arthur E. Crafts and PFC Michael Cushing.

Births at Post Hospital

- Nancy Anne Lanzarone, 6 lbs., 4¼ ozs., July 7, daughter of 1/Lt. and Mrs. Michael R. Lanzarone.
- Vicki Lee Snavelly, 4 lbs., 15 ozs., July 9, daughter of L/Cpl. and Mrs. Gerald H. Snavelly.
- Malia Gail Wynn, 6 lbs., 7½ ozs., July 11, daughter of 1/Lt. and Mrs. Edward R. Wynn.
- Kari Marie Crawford, 7 lbs., 15 ozs., July 11, daughter of SP/4 and Mrs. Forest L. Crawford.
- Cheri Leigh Bannister, 6 lbs., 10½ ozs., July 11, daughter of S/Sgt. and Mrs. B. S. Bannister, Jr.
- Teresa Rose Lewis, 7 lbs, 8¼ ozs., July 14, daughter of 1/Lt. and Mrs. Andrew C. Lewis.
- Jonathan Keith Morgan, 6 lbs.,

14½ ozs., July 14, son of SFC and Mrs. James A. Morgan.
John Matthew Balkovic, 7 lbs., 9 ozs., July 15, son of 1/Lt. and Mrs. Matthew D. Balkovic.

Pamela Lynn Trammel, 8 lbs., 12 ozs., July 15, daughter of Sp/5 and Mrs. Robert E. Trammel, Rt. No. 1, Box 61B, Harvest, Alabama.
David Allen Wagner, 7 lbs., 13¼ ozs., July 16, son of Sp/5 and Mrs. Kenneth F. Wagner.

HEROES OF '76 ADMIT ONE

The summer bivouac of the Monte Sano Camp, Heroes of '76 was held last week at the home of Theo Combel Jr., 819 Giles Drive, Huntsville, its commander. Capt. Ernest F. Schick Jr., who is the deputy commander of the Unit Training Command, OGMS was admitted as a new member.

STRIDE RITE SHOES For Children

Straight Last — Thomas Heels — Plain Shoes

Also

"SPARKLE TOES" By Alexis

The Junior Booterie

120 Southside Square — Downtown Huntsville
Phone 539-1112 — Open Thursdays til 8 p.m

BEAUTY ON A BUDGET!

Price List For Student
Work Under Supervision
Of Expert Instructors!

Hot Oil and Other
Conditioners \$1.00 & \$1.50

PERMANENTS \$4.50 UP
SHAMPOO & SET75 UP
HAIR CUTS75 UP
MANICURES \$1.00
HAIR COLOR \$3.50 UP

MONDAY, TUESDAY AND
WEDNESDAY SPECIAL

PERMANENTS — \$3.50
Includes Styling, Shampoo & Set

Color Special by Roux & Clairol to Cover or
Highlight Gray Hair \$3.25 Including Sham-
poo and Set.

Phone For Appointment 539-2461

— REGISTER NOW —

For Classes Beginning August 1st
FINANCING AVAILABLE FOR TUITION
Don't Miss These Classes — Register Now!

NITA & DAVE'S BEAUTY COLLEGE

3215 Governors Drive

Phone 539-2461

NEWS RELEASE --- JULY 15th, 1963

Your hair style will be a "Dandy" this fall and winter, reports Mary Grady, who is meeting with thousands of cosmetologists from all parts of the United States at the national premiere of new hair fashions at the Flamingo Hotel in Las Vegas. The new styles are being shown by the Official Hair Fashion Committee of the National Hairdressers and Cosmetologists Association.



Yes, the word is "Dandy," a direct reference to the incredibly elegant dandies of the last century. But, now, the term inspires a delightfully free elegance and feminine wit in women's hair fashions.

The "Dandy" features a vitally young and sportive lock in a casual "down" line for day, converting dramatically into a frankly feminine "up" line of classic beauty and romantic charm for evening.

Key features of both "Dandy" lines are a small and dainty head poised on an elegantly shaped nape of head hugging waves that lend important back interest.

Important note for both is the new "Dandy" haircut, which gives fuller, richer texture to the hair ends, and professional permanent waving needed to give the hair substance and ease of care.

PHONE 536-3941 or 536-0779

OPEN EVENINGS BY APPOINTMENT

PLENTY FREE PARKING — EXPERT STYLISTS

GRADY'S BEAUTY SALON

2009 SEMINOLE DR., S.W.

"Corner Governors Drive and Seminole"

LOCAL & LONG DISTANCE MOVING • STORAGE



"A Mayflower Move Is A
Good Move"
Call 534-2445
WHITE-MAYFLOWER

WRECKER SERVICE

In case of an accident
ask for our new wrecker.
Courteous operator, rea-
sonable charges. Day
Phone 539-6541, nights
534-0776.

Hill Chevrolet
Company

SUMMER GROOMING CAN BE A PICNIC !!

Vacation's a breeze when
we keep your family look-
ing the best in crisp, clean
clothes dry-cleaned by
our experts.



Valley Cleaners

Parkway City

OPEN 7 A. M. to 7:30 P.M. DAILY

Hercules Project Group Visits Site

There are 37 people in the Nike Hercules Project Office today with a closer feeling for the missile system.

They saw a Nike Hercules battery in operation Friday. The group visited the headquarters of the Cincinnati Army Air Defense Command at Wilmington, Ohio.

† The battery at Wilmington is part of the 5th Missile Battalion, 56th Artillery. Like other Nike sites, it is a tactical unit, in operation around the clock, seven days a week.

‡ The group was led by Melvin Johnson, Chief of the Program Management Office, and Capt. Michael F. Kernan, a Project Officer.

They were briefed on the bat-



NIKE K-9 — Dolph, a German Shepherd that guards a Nike Missile site at Wilmington, Ohio, looks docile enough when he meets friends. But he can be a four footed terror. Here Noel Summers, a Nike Project Office mathematician, is introduced to Dolph and his trainer, Pfc. William Wolfe, by Lt. Col. Roy L. Baber, Commander of the 5th Missile Battalion at Wilmington.

tery operations by Col. Ned E. Ackner, Commander of the Cincinnati Air Defense Command, and Lt. Col. Roy L. Baber, the 5th Missile Battalion Commander. During the tour they saw the

NIKE X CONTRACT GIVEN BECHTEL

The Nike Zeus Project Office at Redstone Arsenal has announced a \$45,000 contract awarded to a San Francisco firm for feasibility studies of two Nike X anti-missile system power plants.

The plants, of approximately 41,000 kilowatts and 2,400 kilowatts capacity, will be built in the Kwa-

Nike crews run through simulated engagements, including last minute checkout of equipment and elevation of the missile into firing position.

The group ate lunch in the battery mess hall.

jalein Atoll in the mid-Pacific. Kwajalein Island, a part of the Atoll, will be used for developing and testing the Nike X system. It is presently a Nike Zeus anti-missile missile system testing site.

The contract was awarded to the Bechtel Corp. by the Honolulu District of the Army Corps of Engineers.

The Corps' Honolulu District Engineer said that the larger power plant will be unique because generators of the size and characteristics required for it have not been manufactured before.

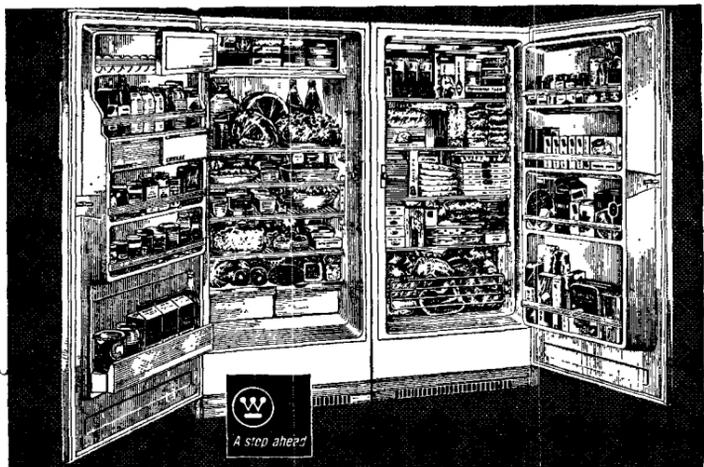
Millions of Series E Savings Bonds bought 20 years ago are still outstanding. They're worth about 83% more than their cost price, and are still earning interest.

You Can Be Sure . . . If It's WESTINGHOUSE AT THE LOWEST PRICES AT D.F.C.

SEE THE COMPLETE LINE OF WESTINGHOUSE ON DISPLAY NOW!!

Westinghouse 'SPACE KING'

Refrigerator and Food Freezer



REFRIGERATOR — Exclusive Cold Injector cooling system chills food in every square inch of the giant 21 square feet of shelf space in this Westinghouse Space King. Has Glide-Out shelf, 2 adjustable shelves, twin porcelain crispers, plenty of door storage.

FOOD FREEZER — Westinghouse Air-Sweep Shelf design permits air to circulate thru shelves to give fast freezing and a more constant low temperature. You can quick-freeze in any compartments. Deep door shelves, bulk package storage.



ONLY—
\$499.
For Both Units

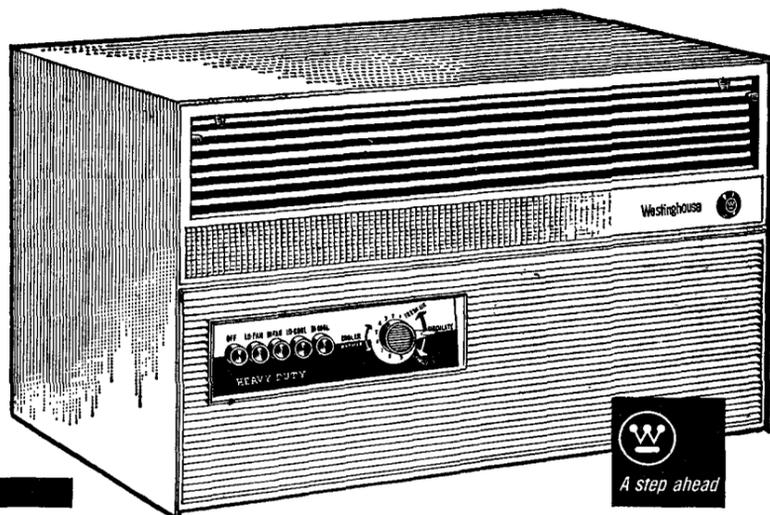
- FREE DELIVERY WITHIN 100 MILES
-
- FREE SERVICE & WARRANTY ON ALL APPLIANCES
-
- UP TO 36 MONTHS TO PAY
-
- OPEN DAILY 10 A.M. TO 9 P.M.
-
- PLENTY FREE PARKING



WESTINGHOUSE 740 Lb. Capacity 20 cu. ft. Deluxe Chest FREEZER

Only—
\$249.

Separate quick-freeze compartment, rust-proof porcelain liner plus tumbler lock, "Dry Wall" construction, food spoilage warranty, safety signal light, interior light, lift-out basket, package divider and Westinghouse built-in quality.



WESTINGHOUSE
AIR CONDITIONER
14,500 B.T.U.
\$239.



100% Frost-Free Refrigerator-Freezer Special Low Price
\$288.

- No more defrosting ever
- 110 lb. zero freezer
- Flush door opening
- Soft seal keeps hot air out
- Aqua, copper-tone, yellow, pink and white.



"Where You'll Find Name Brands For Less"

DERRICK'S FURNITURE CENTER

3000 University Dr. (Hwy. 72 W. to Athens) 1 Mile West off Memorial Pkwy.
Open Daily 10 a.m. to 9 p.m.—Phone 536-9762
It Will Be Worth Your While to Drive a Mile to Shop & Save in Self-Service Family Style Shopping With No High Pressure Salesmen to Bother You.

Unique Arsenal Plants Not In Missile Age

In the shadow of sprawling Army laboratories and missile test sites on Redstone Arsenal are four World War II chemical plants that are as far removed from missile development as ballet is from baseball.

Among other things, they produce a major part of the country's DDT, enough chlorine each day to purify 14 million gallons of water and a unique iron powder that makes television possible.

Three of the four plants were built to produce war gasses which were loaded in shells on Arsenal assembly lines. The plants survived the shift from mortar shells to missiles by turning to civilian pursuits.

At the end of the war, and before Redstone became the fore-runner of today's Army Missile Command, many plants looked forward to the same fate as puttee plants of an earlier war.

But the plants were converted to peacetime use and today, in the midst of this vast defense and space center, they are pouring out products that find everyday usage in television sets, drinking water, clothing manufacture and garden spray.

Drop into most any store and ask for some Dichloro Diphenyl Trichloroethane and you are likely to get blank stares, or worse. But ask for DDT and you'll find it in dozens of forms ranging from sprays to dusts to aerosol cans.

Some 25,000,000 pounds of DDT are produced yearly on the Arsenal by a plant run by the Olin Mathieson Chemical Corp. That is nearly 20% of the country's total production. The DDT produced here is a grainy white powder that is 99.99% pure. The insecticide you buy in the store is diluted to a fraction of that strength.

DDT is a combination, under strict control, of a by-product from steel plant coke ovens and a drug with a notorious reputation for rendering a human unconscious—usually after being slipped into a martini.

The first is a jawbreaker called momochlorobenzene. The second is chloral—usually referred to in spy thrillers and gangster movies as a Mickey Finn.

In a jungle-gym plant of steel and glass pipes and glass-lined tanks that was once used to produce the components of mustard and Lewisite gasses these two chemicals are combined under strict temperature and pressure controls to produce a hard white slab of DDT. Resembling a chunk of white sugar candy, it is milled to powder before being shipped.

The small plant employs only 60 persons, including three chemical engineers and a chemist. The plant superintendent is Don Morgan, a rugged engineer in hard hat, khaki trousers and steel toed shoes who literally "smells" his work. Like most chemical plants, the DDT



BRRRRR—Chlorine is normally a gas. But, when you freeze it to 0 degrees Centigrade and put some pressure on it you have a liquid. That's what the Stauffer Chemical Co. does before it ships chlorine out in tank cars. Here Leo Lawler, Safety Supervisor at Stauffer, shows how to keep cool on warm days by staying close to the chlorine shipping room.

plant has its own pungent odors that assail the nostrils of visitors. These smells are a safety factor, however.

The noses of the plant employees are so inured to the odors that an unusual combination—signifying something has gone wrong—triggers an instant alarm.

The plant started making DDT in 1947 when Benton Wilcoxon, a War Production Board chemical plant specialist, and two others leased it from the government to start the Calabama Chemical Co. Olin Mathieson bought Calabama in 1954 and retained Wilcoxon as works manager.

As a by-product the plant produces a tank car of fertilizer grade sulphuric acid a day.

Salt is one of the most common minerals. But, it's unusual to use 5,000 tons a month, and that's what the Stauffer Chemical Co. does on Redstone Arsenal.

It barges the salt—1400 tons per barge—up the Tennessee River to its dock on the Arsenal waterfront. From there it trucks the salt to two plants it operates 14 miles inland on the vast reservation.

Much of the chlorine and caustic Stauffer produces is shipped by tank car back to the dock, loaded aboard special tank barges, and shipped north.

The Stauffer plants were built by the Army to produce chlorine gas for chemical shells during

World War II.

The plants produce 110 tons of chlorine and 120 tons of caustic per day. Caustic, like chlorine, has thousands of uses, including the making of soaps and production of textiles.

The two elements are produced when sodium chloride, the chemical name for common salt, is broken down by passing an electrical current through a brine solution.

The plants are managed by E. W. Newton who helped build one of them back in 1943 when he worked in the Chemical Warfare Service at Redstone Arsenal. He left during the middle of the war and then returned 10 years later with the United States Industrial Chemical Co. which was producing chlorine at the plants for peace time use. When Stauffer leased the plants in 1961 Newton stayed as manager.

Chlorine is regarded as a dangerous chemical and a deadly gas. But, among the 101 people who operate the Stauffer plants on a round-the-clock, seven-day-a-week basis there have been only two lost-time accidents in 10 years. And these were a broken foot and a fractured leg.

Developing missiles calls for some pretty exotic scientific pursuits. But, one little plant on Redstone Arsenal that virtually sits in the shade of a big oak tree makes one of the strangest products of all and, directly at least, it has nothing to do with making mis-

siles.

The plant, leased by General Aniline and Film Corp., makes a perfectly round little steel marble so small that 5,000 would fit between the inch marks on a ruler.

It makes them by turning iron into a cold liquid, then into a vapor, and finally condensing the vapor.

The little pellets have unique properties. But the one that makes them valuable is their magnetic permeability—the ability to be magnetized and de-magnetized rapidly. This property finds extensive use in electronic equipment such as television sets. Adjustable cores for electronic apparatus tuning coils are made from the powder.

It is mixed with a binding agent—like mixing up a batch of plaster—and then machined into rods, cylinders, threaded bolts and slugs.

The plant produces about 600,000 pounds of the iron powder a year and ships it to users in 7½ gallon drums that weigh 200 pounds when full and are pressured with nitrogen to keep the iron from rusting.

The selling price, in case you should want some, is up to \$7 a pound. Of course, a pound will make thousands of television parts.

The plant is the only one of the four that was built specifically for the purpose it's being used for today. Roy Martin, a chemical en-

gineer who manages the plant, developed the process while working with General Aniline in Linden, New Jersey. He came to Redstone Arsenal when the government decided that the powdered iron was a strategic war material and established the plant here.

The plant can also make powdered nickel of the same quality and did at one time. But some stages in making powdered nickel are hazardous and this operation is not carried on now.

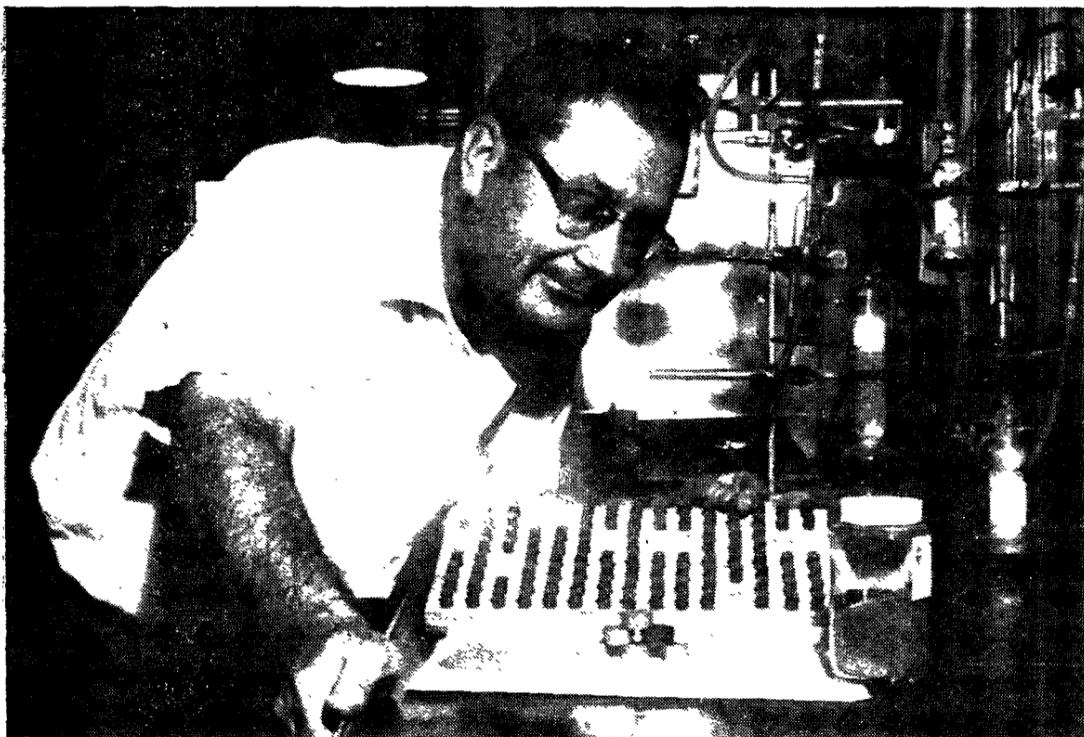
The process goes something like this. Sand-like grains of sponge iron are first stamped into thick dime-sized "coins" and are dumped into pressure vats where they are treated with carbon monoxide gas. The result is a liquid that looks like a fine old burgundy wine. However, this "wine" would burn in a flash if exposed to air, so it is kept under pressure of an inert gas—more carbon monoxide.

The liquid is allowed to vaporize and heat is applied. When heated the vapor gives up its carbon monoxide—which is recovered and reused—and iron powder. This powder is really the billions of tiny spheres that are shipped out as the final product.

So, millions of people who think of Redstone Arsenal only in terms of missiles never realize how close they are to it every-time they drink a glass of water, buy a new shirt, spray the garden or turn on their television set.



BUG KILLER—There are no bugs around the Olin Mathieson plant on Redstone Arsenal and no wonder. It's one of the country's major producers of DDT. Here William McGregor, a chemical engineer, looks over a batch of the 99.99% pure insecticide. It will be powdered and shipped to other plants for compounding into various forms ranging from powder to aerosol sprays.



POWDERED IRON—Those little cylinders Tom Tarantino is looking over have some unique properties. Among other things, they are made from a special powdered iron that is produced only on Redstone Arsenal by the General Aniline and Film Corp. Tarantino is an employe of the company from Linden, New Jersey. In front of the cylinders is a bottle of the talcum powder-like iron powder. To the left of it is a pile of sponge iron, the initial product from which the powder is made, and a stack of iron "coins" representing an intermediate step in the process.

IT COST **LESS**
to
Furnish Your Home
at

Sterchi's
North Alabama's Largest Furniture Store



**DOWNTOWN
HUNTSVILLE**
Phone 534-5681

Also Sterchi Stores to Serve You at Scottsboro and Fayetteville.

The Judge Advocate Advises



AUTO ACCIDENT TIPS

With the coming of summer, millions of people have taken to the nation's highways on vacation. As a result, the number of automobile accidents has greatly increased. When an accident occurs, it is difficult for those involved to remain calm and to know exactly what to do.

It is, therefore, a good idea to plan in advance what you would do in the event of an accident. Here are a few simple rules that every driver should have in mind at all times:

Stop

Never leave the scene of the accident. It is a criminal offense to do so. However, unless there are serious injuries or your car is inoperable, it is wise to at least move your car out of the line of traffic.

Summon Aid

If anyone has been injured, ask someone to summon an ambulance, a doctor, or both. If a phone is not handy, stop a passing motorist and send him for help.

Meanwhile, make the injured person as comfortable as possible. Never attempt to move an injured person unless it is absolutely necessary. Improper movement may aggravate fractures and internal injuries.

Prevent More Accidents

Warn other motorists of the danger with a flashlight, flare, or handkerchief. During the nighttime, it is a good idea to stop a passing motorist and have him focus his headlights on the scene of the accident.

Notify Law Immediately

The Police Department, County Sheriff, or State Highway Patrol should be notified as soon as possible upon the happening of an accident.

Get the Facts

It is most important that you gather all the facts possible about the accident and write them down immediately.

Draw a rough sketch of the accident scene showing the location of traffic signals and warning devices, the positions of the cars before and after the accident and at the point of impact.

Obtain the other driver's name, address, and his drivers license number together with the year,

make, and license number of all vehicles involved.

Get the names and addresses of as many witnesses as you can. Their testimony can mean a great deal to you later. You should show your drivers license and give your name and address to the driver

of the other car.

Although you must cooperate fully with the police on the scene, you are not required to express any opinion as to what or who caused the accident. Hasty emotional remarks at the scene of an accident may be held against you later.

Contact Insurance Company

Failure to inform your insurance company immediately of the accident may void your liability coverage. In addition, the representative of your company may want to come to the scene of the accident and be of assistance in gathering evidence and rendering

Monte Sano Observatory Open To Public Friday

The Rocket City Astronomical Association plans Open House at the Monte Sano Observatory Friday between 8-10 p.m.

The observatory will be open to the public with Julian Palmers in aid.

The Judge Advocate Advises

In the event of an accident, keep calm and take all possible steps to keep your loss at a minimum.

charge. "The moon will be in its first quarter—an excellent time for viewing," he said. "And barring clouds, some of the planets will be visible through the telescope."

Palmers plans a short talk on lunar surface and properties.

The Observatory is on the access road intersecting and extending North from the main road a few hundred feet West of the State Park North Gate.

Approximately one-half of the Series E Savings Bonds sold each year are bought through the Payroll Savings Plan, the Treasury reports.

WE FINANCE FORDS TOO!



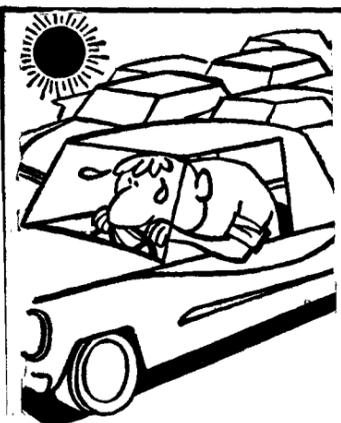
With Distinctive Economy

Ford, Falcon, Thunderbird or Chevrolet, whatever your fine car choice may be, give consideration to the financing costs as well as the sale price.

Financing costs differ. At your Credit Union the low-cost rate of interest (8/10% per month on the unpaid balance) includes many significant advantages. Life insurance,* equal to the outstanding loan balance, is provided—without added cost. Total and permanent disability insurance benefits apply up to age sixty. And if you speed-up repayment on your loan, there is no penalty for you pay only for the time you have the money.

When you buy a car, call or visit your Credit Union for the finest in financing.

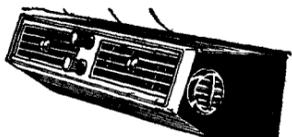
*Subject to terms of the group policy.



... DO YOU HIT THE SPEEDWAY SPENT?

Here's a way to end all that needless suffering. Today's modern-age answer to asphalt asphyxiation. The ARA Polaris can cool your car with nippy breezes and turn your mobile Turkish bath into a comfortable place to live, for a change, and with a custom look. Out of the way, only a few hours to install, and backed by the engineering know-how of the world's leading manufacturer of automotive air conditioning.

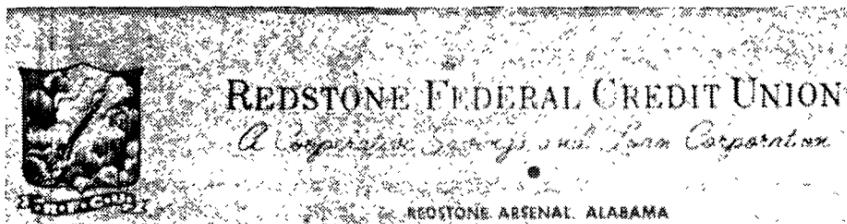
● Comfort all the way with ARA



Completely Installed **\$195.00**

A.R.A. Automotive Air Conditioning

PULASKI PIKE
Phones 534-1833 or 881-0908





TRANSPORTATION PLAN—Oscar LeVay (left), Redstone Arsenal and A. B. Green, Ryder Truck Lines, Huntsville, work on a transportation problem for exercise "Moosetrax '63". The National Defense Transportation Association, the Defense Traffic Management Service and the Office of Civil Defense recently conducted the exercise in the Southwestern Traffic Region with representatives of military, federal and civil agencies participating—seeking answers to the scope of Civil Defense transportation requirements in an emergency.

Board Announces Positions Open

The U. S. Board of Civil Service Examiners announced openings in four categories at the Army Missile Command:

On announcement No. AT-35-5 (63), sales store workers at W-5 (\$2.01 an hour);

Announcement No. AT-35-6(63), meat cutter ranging from W-5 to S-5 (\$6385.60 a year);

Announcement No. AT-35-7(63), transportation operations specialist (air) GS-9 (\$6675 a year) and GS-11 (\$8045 a year);

Announcement No. AT-35-8(63), sign painter W-9 (\$2.69 an hour.)

July 4, 1826—Thomas Jefferson and John Adams died on this, the 50th anniversary of the Declaration of Independence, which they both had helped to frame.

AGENCY NAME CHANGES

WHITE SANDS MISSILE RANGE, N. M. — The first frequency monitoring facility in the United States Armed Services has a new name and for the first time in its 15 year history comes under the direct command of a White Sands Missile Range agency.

The Frequency Management Activity of the U. S. Army Signal Radio Propagation Agency (RPA), under the direct control of its Chief Signal Officer in Washington, D. C., since 1948 when it began its pioneer work at the nation's largest overland missile range, became the Frequency Management Division under the Range Operations Directorate, WSMR, on July 1.



For the best advice about counsel for your Financial Future
IT IS A GOOD POLICY TO SEE
JESSE ANDERSON
 General Agent
 Provident Life and Accident Insurance Co.
PHONE 534-7651

Hill Chevrolet Company

Loves those repeat customers like the testimonial below and we have many more similar ones.

April 16, 1963

Mr. K. E. Staley, General Sales Mgr.,
 Chevrolet Motor Div.,
 Detroit, Michigan.

Dear Sir: *

Please let me say one more thing about the Dealer that I have bought six new Chevrolets from, Hill Chevrolet Co. You will not find a nicer more honest man anywhere than A. W. Hill. He is the kind of dealer you should be proud of.

His Sales Mgr. is Mr. C. D. King. He is a man that will do what he says and does his best to please everyone. When he pleases me he is a **good one**. Anytime anything is wrong with my car if they don't fix it the first time, I take it back and they don't stop until I am pleased.

I have found Chevrolet to do anything a big car will do and much cheaper. I always drive a six cylinder which operates cheaper than any full size car I know of. I am a Chevrolet man down the line.

You may write Mr. Hill and Mr. King what I said using my name as you like.

Yours truly,
 J. B. Marks

3100 Triana Blvd., S.W.,
 Huntsville, Alabama.

Hill Chevrolet has a wonderful tradition and trust that shall always be lived up to.

Why wait to buy a new Chevrolet—our prices are the lowest for the year and used cars will never be worth as much as now. Come in and let's talk trade on a fashionable Chevrolet. Extra allowance on clean '59-'60-'61 used cars.

Down payments start at \$150.00, lowest financing, up to 36 months. 1st payment set up 40 days without extra charge.

"Your Satisfaction Is Our Business"

OUR GENIAL REPRESENTATIVES:

- | | |
|------------------------------------|-----------------|
| C. D. King, Sales Mgr. | Rip Inman |
| A. V. Sneed, Truck Mgr. | Buck Livingston |
| J. E. Roberts, Used Car Mgr. | Gene Mitchell |
| Bill Bitting, Owner Relations Mgr. | Ralph Northcutt |
| Gordon Anderson | Frank Patterson |
| Dick Bitner | Jim Rainey |
| Bob Broadway | Bill Reed |
| Alvin Bryant | Bill Wann |
| Dow Elmore | Bob Wilkinson |
| Bill Goodwin | Gene Martin |
| James Hayden | Jack Broadway |

HILL CHEVROLET COMPANY

"39 YEARS A CHEVROLET DEALER"

Meridian St. & Greene Street — Huntsville, Alabama

PHONE 539-6541

SPECIAL PRICES . . .

on

**FEDDER'S
 Air Conditioners**

**1 — 1½ and 2 h.p. Window Units
 "Now Is The Time To Buy"**

Installation Available — "We Service
 What We Sell"

HUNTSVILLE

ROOFING COMPANY

2511 Triana Blvd., SW Phone 534-7366

SERVICEMEN!
**WHERE YOU GET THAT LOAN
 CAN MAKE A BIG DIFFERENCE!**

Under the G.A.C. plan, everything is arranged on your terms. You're in command! You choose the loan plan—even the amount and dates of payment.

Besides, it's smart to establish your credit with an organization that has offices from coast to coast; and in addition, maintains a World-Wide Loan Service especially designed for U.S. military personnel stationed overseas. The moment a G.A.C. Credit Certification Card is issued to you, your credit goes wherever you go.

Loans up to \$300
G.A.C. FINANCE
 CORPORATION
 213 RANDOLPH AVENUE, S.E.
 Huntsville, Alabama
 Telephone 534-6458

READ THE WANT ADS! USE THE WANT ADS!

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. Zillah T. Heath, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 The Redstone Rocket — July 24, 1963

1. For Rent

CLEAN OLD MODEL CARS FOR RENT—\$12.00 to \$20.00, thorough check mechanically, for dependability and safety. To person over 25 who will provide their own liability insurance. Economy Car Rental Service. Phone 881-0470. 8-14c

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—Furnished room to young girl in 2 bedroom, air-conditioned apartment with another girl. Meals and maid service. Call 536-5026 after 5 p.m. 1tp

2. Cars For Sale

1961 CHEVROLET Bel-Air 6 cyl., auto. trans. 28,000 actual miles Blue and White 4 new premium tires \$1795.00 owners name on request. Phone Universal Motors Inc. 539-7456. 1tc

1959 PLYMOUTH 4 door, 6-cyl., automatic. Excellent condition. Will sell for \$743.00. See after 5 p.m. at 3129. Searcy Drive N.W. Phone 534-9917. 1tc

BARGAIN! 1957 Ford Pickup Truck. Blue with radio, heater and new tires only \$795.00 call Universal Motors Inc. 539-7456 1tc

VOLKSWAGEN OWNERS — Genuine parts available. All work done is aircraft quality by aircraft technicians. Satisfaction guaranteed. Dick Trulson Auto and Aircraft Repair, 612 W. College St., Fayetteville, Tennessee, phones 433-1294 or 433-1337. Call anytime. tfc

1962 FALCON Sports Futura, fawn tan, bucket seats, and all straight shift. \$1695.00. Universal Motors, Inc., No. Memorial Parkway, Phone 539-7456. 1tc

CASHI 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

WE'VE GOT ONE V.W. "1500" model sedan, 10,000 miles. Come see this fantastic car. \$2495.00 at Universal Motors, Inc., No. Memorial Parkway, Phone 539-7456. 1tc

Absolute Cream Puff

Original, new appearance . . . 1957 OLDS CONVERTIBLE. Flaming blood red, new white top, new premium first line tires, leather seats, power steering, power brakes, automatic trans., original factory spinner hub caps. This car is the sharp used car you will ever see.

Only \$795.00

Universal Motors

2305 NORTH MEMORIAL PARKWAY
Phone 539-7456 1tc

WHEEL ALIGNMENT

\$4.88

(With This Ad)
Reg. \$6.50 Value)
Fast Service - Expert Wheel Mechanic
All Work Fully Guaranteed
U. S. TIRE SERVICE
Across From Butler High
DIAL 539-3482
Open 7 a.m. to 6 p.m.

CAMPING & FISHING EQUIPMENT

- Hip Boots
- Sleeping Bags
- Rods & Reels

ARMY-NAVY SURPLUS CO.

112 S. SIDE SQUARE
Phone 534-6991

Open All Day Wednesday and 'Til Late Thursday Night

AUTO

POST LIABILITY INSURANCE
\$5/10 Bodily Injury
\$5000 Property Damage

\$10.00 year

C. J. WAITE

INSURANCE AGENCY
518 Madison St.
PHONE 536-9641

BUTLER'S NEW and USED FURNITURE

American — Antiques — Import

1006 W. Market St. — Athens, Alabama

One of North Alabama's Largest Furniture Stores

ACROSS FROM FAIRGROUND GATES

Dial Athens 232-3940

LOST YOUR DRIVING LICENSE?

WE ARE IN A POSITION TO HELP YOU GET THEM BACK!

WE FILE SR. 22

For Driving Intoxicated, Reckless Driving, Driving Without Insurance or Any Other Cause. We Can Help You Obtain Your Bond to Keep Your Tags.

IF YOU HAVE A PROBLEM, COME SEE US AT . . .
518 MADISON STREET, HUNTSVILLE

C. J. Waite Insurance Agency

UHH CONVERTER, \$11.97. 21 inch 90 degrees picture tubes \$21 exchange (1 year guarantee on picture tubes). Used TV's, \$20 and up. TV Rentals. Central TV and Stereo Co., franchised dealer in RCA and Zenith TV-Service dealer in all makes of radios, TV's and stereos. Central TV and Stereo Co., Governors Drive & Parkway, Phone 536-9761. tfc

FIT, FASHION AND FINE SAVINGS at BUS-ANN'S, downtown Huntsville. Truly your family shoe store. tfc

SALE! \$1.00 off each pair Women and Mens summer Shoes. Some reduced to half the regular price. First quality. These must go to make room for fall shoes. Located 4 mi. West of Arab. Hwy 69 at Standard Service Sta. Joppa Ala. open Sunday 7-24-p

VACUUM CLEANER REPAIR — Kirby belts, airway bags, hose for all makes. New and used cleaners. Free pick-up and delivery. Phone 539-2564. tfc

A B S SECRETARIAL SERVICE — 408 Clinton Avenue, W., Huntsville, Ala. Phone 534-6451. CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering. Employment applications prepared (Government and other), Notary Public. (Our office or yours). tfc

GUNTERVILLE LAKE PICNICING is summers happiest way of life at Honeycomb Boat Dock and Snug Harbor. Picnicing every day. We will prepare your box lunch if you don't want to bother. Bring folding chairs, etc., reservations necessary for larger groups. Boating-swimming-skiing. Fishing boats for rent, gas, oil, ice, bait and tackle. Grill open all day; also rustic family camp sites for tents; house trailer sites for modern trailers. Contact Howard Morgan, operator, Honeycomb Boat Dock, Hgw. 431, Gunterville Lake, about 20 miles South of Huntsville. Phone Gunterville 582-4463. 7-24p

ATTENTION SERVICEMEN — Liability Insurance 5-10-5, reasonable rates. Cash or terms, all military inc. "NATO", arranged for your convenience. Phone 539-8551. tffc

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

1960 SIESTA NOVEL TRAILER—7 1/2'x16' Has butane lights and water system, 10'x16' awning, electric brakes, sleeps 5. Can be seen at Texas Auto Sales, Meridian Street, Phone 536-6121. 7-24c

WE HAVE 2 — 35'x8' 1 bedroom mobile homes. These are both real nice and clean. Only \$1995.00, terms to suit your budget. Texas Auto and Mobile Home Sales, 1003 Meridian St., Phone 536-6121. tfc

GLEN PARK APARTMENTS

Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.

534-2652

Lots For Sale!

Near Flint River—2 acre lots, plenty of trees, \$1600.—\$600. down.

Only 1 left near Chase Nursery, 2 1/4 acre lot, \$2,000.00. Can be financed. Nice homes being built in this area.

Chase Realty Co.

PHONE 536-3286

G.I. EQUITY

We have several G. I. Equities that you can buy and assume low interest rate mortgage payments ranging from \$57.00 to \$108.00. 1 and 2 baths, some have built-in kitchens.

PHONE

Theodore Blocker

Days 539-8481—Nights 536-2493

5. Houses, Lots - Sale

GUNTERVILLE LAKE—Long lease—a tiny spot with water and sewage on Gunterville Lake to build your shell cabin for week-ending and vacationing. Call W & W Land Co., Inc., Huntsville, Alabama. 7-24p

FOR SALE — 2 brick veneer houses, three bedrooms, 2 baths, den, kitchen, dining and living rooms, lots 107x142, carport, utility room. See or call Jesse Black at Arab for price and terms. Phone 586-4515. 7-24c

FOR SALE — 1 brick veneer house to be built on prior commitments. 100% VA Loan. Any eligible veteran see or call Jesse Black at Arab. Phone 586-4515. 7-24c

GUNTERVILLE LAKE PROPERTY—Never again will you find cabin sites on the lake as reasonable as now. For appointment, call Herb Walker, 536-3113 or 534-1451 or write Box 473, Huntsville. 7-24p

FORT MONMOUTH—3 bedroom ranch in Port au Peck, overlooks Shrewsbury River, less than 3 uncrowded miles from East Gate of Fort Monmouth, lovely area, good schools, low taxes (comparatively). Asking \$24,500. Phone 534-0004. 1tp

GUNTERVILLE LAKE LOTS FOR SALE—Contact W&W Land Co., 106 North Lincoln St., Huntsville. Phone 534-1451. tfc

TIRED OF PAYING HIGH RENT? Equity Sale —three bedroom, partial brick, located in N.W. Huntsville. Payments \$57.37 monthly. Phone 536-6051 after 6:00 p.m. 1tp

WE CAN NOW BUILD you a three (3) bedroom brick veneer home fully completed to FHA or VA requirements on your lot with carport and storage for as little as \$49.77 per month, plus fire insurance, taxes, etc. No down payment and no closing cost. CORNELIUS REAL ESTATE & INS. CO., 521 N. Broad St., Gunterville, Ala. tfc

GUNTERVILLE LAKE 100' Water front lots \$1250.00. inside lots \$500.00. only \$100.00 down \$20.00 mo. Ty Dorman Gunterville 582-3654 or Huntsville 876-3297 tfc

FOR SALE — Full brick G.I. nothing down, no closing most. FHA min. down, 4 bedrooms and separate den, 2 ceramic tile baths, completely built-in kitchen, GE range, dishwasher and garbage disposal, central air condition in Southeast Huntsville. \$22,300.00. Phone 881-0152 Ensor Real Estate. tfc

NEW HOME Completely furnished, 3 bedroom and den, built-in G.E. range, garbage disposal, G.E. refrigerator, washer and dryer, 3 complete bedroom suites with mattress and springs, living room suite, breakfast room suite with 6 chairs (all new furniture). G.I., Nothing down, \$150.00 closing. FHA minimum down \$150.00, closing. Phone 881-0152, Ensor Real Estate Co. tfc

FOR SALE—10-room house, bath and plenty of closet space. Large lot in nice neighborhood. See at 149 Bethel Rd., Hartselle, or contact G. D. Hartselle, Jr., or Phone 773-9382 or 773-7057. 7-24c

5/10/5 Post Liability \$10.00 a Year

Service men, all ranks and ages, also Civilians.

W. E. DICKEY INS. AGCY.

PHONE 539-1161
507 Terry Hutchens Bldg.
Huntsville, Alabama

WILEY SALES CO.

4310 W. Gov. Dr.
PHO. 539-2262

- Guns
- Reloading
- Target Varmint

COMMERCIAL BUILDINGS

AND . . .

LOTS FOR SALE!

FOR DWELLINGS

We build houses on your lot . . . 100% financed by us or VA and FHA financing. Built by Bonded Builders.

COLORED—If you have a good job and steady income you can own a home with payments as low as \$49.00 per mo. F.H.A., V.A., and F.H.A. for \$62.00 to \$86.00 per mo. 100% financing—built on your lot! Lots and homes in New Jerusalem and other parts of town.

C. F. STINNETT REAL ESTATE BROKER

918 Meridian St., North

Phone 536-8537

In 1954 there were 146 Federal civilian employees for every 10,000 people in the Nation; in 1962 the ratio had dropped to 133 to 10,000. In 1954 there were 276 State and local government employees for every 10,000 citizens; in 1962 the ratio had increased to 370 employees to 10,000 citizens.

DECATUR HIGHLAND PARK — 1213 8th St., S.W. \$18,625.00—4 bedrooms, large den, dining room-kitchen, living room, 2 and 1/2 ceramic tile baths, 3 ton heat pump air conditioner, GE built-in kitchen, patio with basket weave privacy fence, attached garage, nothing down VA, minimum down FHA \$150.00 total closing cost. Call Decatur, 353-3474. 1tc

10 ACRES overlooking Gunterville Lake. 5-room tenant house, large barn, modern water system, peach orchard, on good road, 6 miles southwest of Gunterville. \$4,850. total price; \$850.00 down, balance at \$50. month. Phone TY DORMAN, Gunterville, 582-3654. 1tc

FOR SALE BY OWNER—Lovely tri-level home approx. 1850 sq. ft. living area includes 3 bedrooms, den—approx. 18'x30', 2 ceramic baths, many extras, 1 1/2 blocks from school. Buy FHA equity \$1800.00 and assume payments. Located 2202 Phillips Rd. (Lakewood). Phone 539-8551 or 534-3339. 1tc

Business Opportunities

Your Own Drive-In Restaurant

The famous Henry's Drive-In now expanding throughout Alabama. Nationally known for quality products, distinctive design and excellent consumer service. Continuous company training and supervision. Financing assistance. For further information, call or write: Art Deason Associates, P.O. Box 615, Huntsville, Ala. Phone 536-0775. 1tc

Governor's Drive Barber Shop

2901 Governors Drive
Between Butler High and Parkway

Flat Top Specialists
OPEN 8 TO 8 . . . 6 DAYS A WEEK
Your Patronage Appreciated

ATTENTION VOLKSWAGEN OWNERS . . .

Now Available Factory Approved

AIR CONDITION

BUDGET PAYMENT PLAN AVAILABLE

Universal Motors

Your Authorized Volkswagen Dealer

2305 No. Parkway
PHONE 539-7456

Pershing Unit Will Train For Field At Fort Sill

The Army's first Pershing missile unit to be trained for deployment made its official debut last Saturday in ceremonies at Fort Sill, Okla.

The new Pershing unit is the 4th Missile Battalion, 41st Artillery. Highlighting ceremonies, Col. William A. Becker, Commander of the U. S. Army's 1st Field Artillery Brigade, presented the unit colors to Col. S. N. Fitzpatrick,

Army Buys Variety Of Services For Arsenal

There's a saying that "the Army travels on its stomach," but it takes more than bread and milk to sustain the Army's missile and rocket programs at the Army Missile Command.

Among other things, the Army bought during June were food items, laundry services, complex electronic components, office supplies and photographic equipment, and had a laboratory test the drinking water to assure its purity.

The people in the Purchasing and Contracting Office and in the Procurement and Production Directorate at the Missile Command processed some \$1,210,000 worth of orders for goods and services purchased from firms in the Southeast.

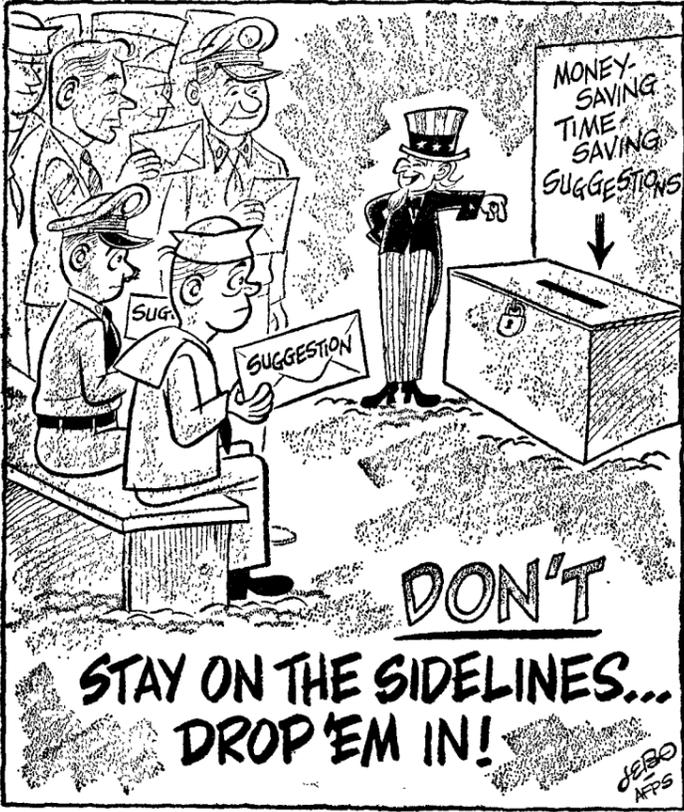
Commanding Officer of the new unit.

The Pershing was developed at the Army Missile Command at Redstone Arsenal. Col. O. M. Hirsch is Pershing Project Manager.

Another Pershing unit, the 2nd Missile Battalion, 44th Artillery, was formed last October. However, that unit was not a deployable battalion since its mission is to support activities at Fort Sill.

A history of the 41st Artillery was presented to Col. Fitzpatrick by C. A. Blaney, of the Martin Company, Orlando, Fla. Martin is prime contractor for Pershing.

Col. Fitzpatrick and his men have received several letters from World War II members of the 41st, wishing them success in the future.



Pay By Check!

FIRST NATIONAL BANK OF HUNTSVILLE

FIVE LOCATIONS TO SERVE YOU

Redstone Facility Office—Bldg. No. 3651
Main Office—W. Side Sq. — So. Mem. Parkway Branch
Madison Street Branch — Five Points Shopping Center

TOWN HOUSE FURNITURE IN DECATUR NORTH ALABAMA'S FINEST EARLY AMERICAN

Famous nationally - known lines at 25% less than Furniture Store Prices.

- Broyhill TV Price Is Right. Living and Bedroom Groups
- Williams Complete Fireside Group
- Bassett Chimney Corner maple group
- Heywood-Wakefield
- Willett Solid Cherry
- Dearborn's Ball and Pin
- Westinghouse's full line.

Town House Furn.
210 Ferry St. Decatur, Ala.
PHONE 353-6742

The largest portion of purchases in Alabama, more than \$355,000, went to Huntsville companies. Birmingham's share of the orders was approximately \$300,000. Firms in other Alabama towns and cities received awards totaling \$121,670.

Some \$30,000 worth of goods and supplies were purchased from Tennessee and Georgia companies. The largest single award in the Southeast, \$399,426, went to a contracting company in Georgia.

Approximately \$1,345,000 in orders was placed with businesses in

New Jersey, New York, Pennsylvania, Indiana, California, Ohio, Florida, Texas and Michigan.

These awards do not include those for a million dollars or more going to contractors across the country to procure missiles, rockets and associated equipment.

Here's a "Family Fact": The financial strength of your family is part of your country's strength. Invest in both with U. S. Savings Bonds.

COMPLETE DISPERSAL OF VALLEY VIEW FARMS

750 Acres selling in 12 tracts, 225 registered and purebred Angus cattle, 28 registered walking show horses, brood mares, colts, 12 registered and grade quarter horses, which is a complete dispersal of the James K. Taylor Stables, Huntsville, Alabama.

AT AUCTION

Friday & Saturday, July 26th & 27th

Located 8 miles Northwest of Athens, Ala., on Highway 99 (or Salem Highway)

SALE WILL BE HELD RAIN OR SHINE . . . UNDER TENT

— THE FARM —

750 Acres, selling in 12 tracts, reserving the right to sell any Two or more tracts combined. Sale to be held as follows:
FRIDAY, JULY 26th, at 1 P.M.—THE FARM LANDS.
FRIDAY, JULY 26th, at 6:30 P.M.—REGISTERED SHOW HORSES.
SATURDAY, JULY 27th at 10:30 A.M.—225 CATTLE AND FARM MACHINERY.

TRACT NO. 1 — 7.2 ACRES

Improved with 7-room frame residence with bath. Nice shade, several hundred feet of Highway front; water is supplied by well equipped with electric pump. The land all sown to permanent pasture.

TRACT NO. 2 — 65.5 ACRES

Main residence, 3 bedroom frame, set on a beautiful lawn with abundance of maple shade; large tool shed and other outbuildings; long road front; all sown to permanent pasture; also has 2-acre lake fed by everlasting spring and stocked with large bass and bream.

TRACT NO. 3 — 34 ACRES

Improved with good tenant house, with water, long road front; also sown to permanent pasture. This tract fits in well with Tract No. 2.

TRACT NO. 4 — 294.6 ACRES

Improved with large conveniently arranged Cattle Feeding Barn; long road front, excellent building site; all in pasture. Truly a wonderful Cattle Farm; abundance of water by springs and spring branches, and Horton Creek.

TRACT NO. 5 — 97.77 ACRES

Improved with 6 room frame residence and tenant house; long road front. A large portion is creek bottom and very rich soil. All in permanent pasture and sericea. Improved with 6 room frame residence and tenant house; long road front. A large

TRACT NO. 6 — 74.1 ACRES

Improved with large Stock Barn, Cattle Feed Barn, with ample hay storage in both; Tool shed surrounded by sturdily-built fences, into conveniently arranged Cattle Pens. Large portion of this tract is level rich soil, all in pasture. Watered by Horton Creek. This tract fits in well with Tract No. 5.

TRACT NO. 7 — 157.5 ACRES

Improved with old log house; new Cattle Feed Barn, long road front; excellent building sites; all sown to permanent pasture and sericea; abundance of springs and spring branches. Some fine timber of beech and oak.

TRACTS NOS. 8—9—10—11—12

All excellent building sites; all fronting on Salem Highway with long highway front; containing about 5 1/2 Acres each. All with excellent building sites; some watered by Horton Creek. All with level rich soil, and any one of these tracts fit in well with Tract No. 5.

40 REGISTERED SHOW & BREEDING HORSES

28 Registered Tennessee Walking Horses; 12 Registered and grade Quarter Horses. Including in this dispersal is MIDNIGHT MOONGLOW—the World's most beautiful show horse—sire: MIDNIGHT SUN; dam MOON by MERRY BOY, having been bred lightly in Alabama, and having produced some of the nation's most outstanding young show horses. MOONGLOW has won more Blue Ribbons at major shows than any other living horse. Included in this sale will be mares with colts at side and bred back to MOONGLOW. Don't miss this opportunity to buy the best bred young horses in America. 12 QUARTER HORSES. Willie Wimpy, p-100, 592, one of the finest bred Quarter Horse Stallions east of the Mississippi River. Several good broke Roping and Cutting Horses and Mares; several grade Quarter Horses and Colts.

225 REGISTERED AND PUREBRED CATTLE

70 Cows with calves by side, several of weaning age.
62 Springing Cows bred to freshen by Fall.
20 Yearling and 2-year-old Heifers.
3 Registered Angus Bulls.

FARM MACHINERY

1 practically new 1963 Jeep; 1 International Tractor; 1 Ford Tractor; 1 new International Cultivator; Corn Planter; 2 Bush Hogs; Mowing Machines; Hay rakes—and other equipment necessary for the operation of this farm. Also large lot of Hand and Shop Tools.

— ROUTINE OF SALE —

FRIDAY, JULY 26th, at 1 P.M.—FARM LANDS.
FRIDAY, JULY 26th, at 6 30 P.M.—REGISTERED SHOW HORSES, MARES AND COLTS —AND QUARTER HORSES
SATURDAY, JULY 27th, at 10:30 A.M.—225 CATTLE AND FARM MACHINERY.

—Lunch will be served on the premises—

TERMS OF SALE: One-fourth cash; balance 1, 2 and 3 years at 6%. All personal property—cash.

—For Plat and Brochures, See, Phone or Write:

James K. Taylor

AGENCY

Huntsville, Alabama — Phone 534-6449

or Auctioneers

CHURCH & PARKS

EDDIE BRYANT

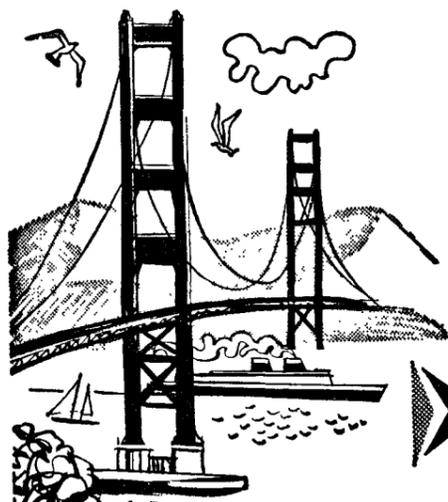
Columbia, Tenn.—Ph. 388-8075; Lewisburg, Tenn.—Ph. 359-1043

San Francisco

via thru-Jets
from Birmingham

Convair 880 at 10:54 am,
arrives 4:20 p m. Other service at
4:10 pm via Dallas, arrives 11:20 p m

Call Delta at 536-8576 or see your Travel Agent



Freethinker Translates His Thoughts To Equations

Roger A. MacGowan is a freethinker who translates thoughts into mathematical formulae.

A computer can process these into uses for psychologists, engineers, and—more to the point—mathematicians at the Army Missile Command. Their interest is in seeking sensors which automatically screen decoys from weapons.

MacGowan's office is in the Computation Center of the Army Missile Support Command at Redstone Arsenal. He works on a man-killing schedule for someone less dedicated to vocation and avocation.

Eight hours on the job, three or four more hours as an author presenting his views, often controversial. One example of this is his treatise on extraterrestrial intelligence (published in Vol. IV, *Advances in Space Science*) in which he foresees computers developing and exchanging knowledge, adding to the intelligence each already has until they are ready to move among the stars. He believes such activity may already be taking place on some planetary systems where extraterrestrial intelligence has been developed.

His writing isn't all "far out." His articles on "Corporate Policies for the Computer Executive" and "Solution of Business Problems On A Scientific Computer" are both practical applications with a practical approach to the needs for specific data in a given business. Other agencies of the Missile Command use his computers for such problems. He stresses that not all businesses need large memory storage units because the information is often repetitive and limited; but he points out that complex programs with many facets will save time, effort and be more accurate on scientific-type computers.

MacGowan foresees the possibility of using computers in artificial

limbs, equipped with sensors to respond to a preset program which corresponds to the duties Nature gives arms and legs.

He also foresees widespread use of computers in psychology where the norm can be established—or the abnormal by using extreme parameters which control the logic. Formulae would stimulate the neural network, corresponding to the individual logic being investigated.

Computers simulating a neural network react in much the same way as human nerves reasoning to to reach a conclusion.

MacGowan's thinking leads him to describe intelligence and conclude that thinking automata may eventually control men—whose parts are not replaceable or expendable when they wear out.

Eventually men would not be necessary in the world of machines which the men created as synthetic thinking automata.

The automata would combine knowledge beyond the point of human creativity and mental storage capacity.

MacGowan may sound far out, but when his office day is done he comes to earth quickly. He goes home to swim and frolic with his four daughters, relaxing with his family between computer work and authorship.

Two of his daughters, Betsy, 7, and Virginia Ann, 6, swim with him. Cathie at 5 is almost ready to join them, but it will be a little while before Cynthia who is 2 joins her sisters in the pool.

MacGowan met and married his wife, Betty, while both were working for the Tennessee Valley Authority. At TVA his machines were mechanical calculators; and then he became a Department of the Army Civilian and switched to electronic computers.

His philosophy is to enjoy the combination of the best of his two worlds.



DISCUSS COMPUTATIONS—Roger MacGowan discusses a scientific problem being run through the 7090 IBM Computer with John Mountain, chief of the technical operation in his section at the Computation Center of the Army Missile Support Command. MacGowan's group handles purely scientific data as opposed to the business computers in another section of the Center; but his machines can process the business problems too.

Dunnivant's

FINAL CLEARANCE

ON

SALE MERCHANDISE

● MANY SALE ITEMS REGROUPED

AND REMARKED TO SAVE

YOU MORE ! ! ! !

**BE HERE EARLY TOMORROW
TO ENJOY EVEN GREATER SAVINGS
ON THESE LAST DAYS OF OUR
ANNUAL SUMMER SALE**

Post Library

ANNA L. FARRAR, Librarian

Addams, James Truslow, "Concise Dictionary of American History."

Army Times, "Guide to Army Post."

Burke, William Jeremiah, "American Authors and books, 1640 to the Present Day."

Currier and Ives, "Pictorial History of American Battle Scenes."

Glenn, Harold T., "Glenn's New Auto Repair Manual, 1963."

Karush, William, "The Crescent Dictionary of Mathematics."

Motor's, "Motor's Auto Repair Manual, 26th ed. 1963."

Connoisseur, "The Complete Encyclopedia of Antiques."

Smith, Walter Harold Black, "Small Arms of the World; the Basic Manual of Military Small Arms."

Stecheson, Anthony, comp., "The Stecheson Classified Song Directory."

Wolff, Perry Sidney, "A Tour of the White House with Mrs. John F. Kennedy."

Worldmark Encyclopedia, "The Worldmark Encyclopedia of the Nations."

Catton, Bruce, "Terrible Swift Sword."

Clark, Gerald, "The Coming Exploding in Latin America."

Collinson, Frank, "Life in the Saddle."

Early, Jubal Anderson, "War Memoirs; Autobiographical Sketch and Narrative of the War Between the States."

Gasztold, Carmer Bernos de, "Prayers from the Ark."

Mikhailov, Nikolai N., "Those Americans, a Travelogue."

Pernoud, Regine, "The Crusades."

Phillips, Ulrich Bonnell, "Life and Labor in the Old South."

Shakespeare, William, "King Richard II."

Wilcox, Wayne Ayers, "Pakistan; the Consolidation of a Nation."