



LOADING UP—Members of the 291st Military Police and the Redstone Arsenal Civilian Security Guard helped deliver Christmas Charity gifts to needy families Sunday. Loading up (left to right) are: Cpl. Norman Welch, Murray Troupe, Mrs. William Hogue, director of the Christmas Charities; Cpl. Jerry Menichelli, SP4 Joe Prinzivella and Luther McCullough. (Other pictures and story on page 4).

Enrollment Will Increase At Army Missile School

Student enrollment at the Army Ordnance Guided Missile School will reach an all-time high during the last half of 1964, Col. William J. Macpherson, commandant, announced in a year-end statement.

The monthly total of students in individual and unit training is expected to reach 2,400 by late summer. This is a 58 percent increase over the current average of about 1,400, he said.

The highest previous monthly total was 1,500 in the spring of 1958 when the first phase of the North Atlantic Treaty Organization missile buildup began, Col. Macpherson noted.

The Missile School annually trains some 5,000 men from all branches of the U. S. forces and a number of foreign nations. Enrollment is figured on a monthly basis because the 43 courses in

the curriculum vary in length from two months to more than a year.

Col. Macpherson said the sharp increase in the student load marks the beginning of a significant new cycle at the Army's only school devoted entirely to missile maintenance training.

"In 1958, we started virtually from scratch to create missile support forces for ourselves and numbers of our Allies. Now, with more units in the field, we need more replacements as enlistments expire and new weapons are developed and deployed," he explained.

Col. Macpherson said the influx of some 1,000 additional students per month will require additional space. Some temporary structures may have to be used, and courses may be conducted on two or three shifts a day during peak periods of training.

Arsenal-Wide

Spot News

Dial 877-2164

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. 33

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 25, 1963

ROADS TO BE 4-LANED

Missile Systems Prove Worth During Year 1963

Progress and push. Push for progress.

These were the almost magic ingredients which sent missile systems managed by the Army Missile Command through one of their most spectacular years—1963.

The year was crowned with achievement; Flawless Pershing firings from Cape Kennedy, and later from remote sites into White

Sands Missile Range, New Mexico. Sergeant was deployed to Europe. Lance was unveiled to public view for the first time.

Hawk went continental, throughout NATO. Nike Hercules continued to turn in dazzling flights. Honest John remained true to its name in firings at Fort Sill, Okla., while Little John hit targets with (See MISSILE on Page 2)

THANK YOU

This is the last Redstone Rocket until Jan. 8, 1964.

The staff wants to take this opportunity to thank everyone for the wonderful cooperation and support they have been accorded.

Letting us know when you have a story helps us and brings to light the things our fellow workers are doing.

Merry Christmas and Happy New Year from all of us to all of you.

Four laning of two main Redstone Arsenal access roads is included in tentative road-building plans announced for the Huntsville area.

Arsenal arteries affected are Rideout Road and Martin Road.

The road-building plans were given to a Huntsville and Madison County group last week in Montgomery. Col. R. M.

Allgeier, Assistant for Intelligence, Operations and Security, AMSC, and John Cotney, Post Engineer, represented the Army from Redstone.

The first extension of Rideout Road will be three miles due north across Alabama Highway 20 to U.S. 72. There will be interchanges at Highways 20 and 72 and a bridge across the Southern Railroad. The work is scheduled to be contracted

in the fourth quarter of calendar year 1964 and will cost an estimated \$4.7 million.

A second proposed extension is to be from U.S. 72 to the Ardmore Highway and will include an interchange. This project is expected to cost approximately \$3.7 million and is tentatively scheduled for late 1966.

(See ROADS on Page 2)

ENGINEER CAPITALIZES ON 'PINGER' TO FIND MISSILE COMPONENTS AT SEA

In an Army missile program, little noises often have a clear ring of importance.

Such is the case of Army missile engineer Mike Hilsman, a top-notch ideaman who played a major role in devising a unique method of locating Pershing ballistic missile warheads in the watery depths of the Atlantic Missile Range.

Missile School Graduates 22 Missile Units

Missile forces trained at the Army Ordnance Guided Missile School took up positions with combat forces throughout the free world in 1963.

Col. William J. Macpherson, commandant, reports that 22 support units, including 10 from Allied nations, were deployed from the "Missile Academy" during the year.

During the same period, almost 5,000 students from the Army, Air (See GRADUATES 22 on Page 2)

Last week at Redstone Arsenal, Hilsman's idea was officially recognized and rewarded — to the tune of a \$300 check which he received for his suggestion to plant an acoustical "pinger" in the missile's guidance and control section as well as a second one in the warhead.

The powerful two-stage Pershing was launched during its research and development period from Cape Kennedy on flights up to 400 nautical miles out into the Atlantic Ocean.

In the tests, engineers sought, among other things, to recover the missile's G&C section and the warhead to study the effects of re-entry and impact.

But they found the equipment often difficult to locate on the bottom of the Atlantic Ocean. Many searches lasted for days. Some missile sections were never found.

Then came Hilsman's idea: Put a tiny, acoustical device which emitted a shrill "ping" in the warhead and G&S sections. A hand-held receiver used by divers easily detected the equipment and homed in on the spent missile.

Searches never lasted more than two hours when the "pinger" was used. Savings for the Army amounted to about \$6,000 during the pinger's first year of operation.

Hilsman's cash award was presented by Col. Edwin I. Donley, Pershing Project Manager for the Army Missile Command which developed the newly-operational weapon system.

Engineer Is Modest
The electrical engineer, modest (See ENGINEER on Page 2)



'PINGER' HELPS FIND MISSILES—Army missile engineer Mike Hilsman looks over an acoustical "pinger" which was used to locate Pershing missile sections after it was fired into the Atlantic Ocean. Hilsman's idea of using the device resulted in a substantial saving for the Army and contributed to the success of the Pershing ballistic missile system.

WISHING YOU . . .

ALL THE JOYS OF

Christmas

. . . AND A

HAPPY NEW YEAR



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 wantads—is noon of Friday before publication.

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

Rocket Ruminations

Nothing great was ever achieved without enthusiasm.
—Ralph Waldo Emerson

Christmas Message

A year of achievement for all of us at Redstone Arsenal is drawing to a close.

The eternal message of Christmas, "peace on earth, good will toward men," lights our way into the New Year. All of us who have a part in keeping America strong have helped freedom loving people everywhere move toward their great goal of peace on earth . . . for a strong America, both in body and spirit, preserves the hope that a dream heralded by angels almost 2,000 years ago will some day be reality.

Let us resolve, as we celebrate the birth of Christ in a season saddened by the death of our late commander-in-chief, that good will toward men will guide our actions in the years to come.

To all of you and to your families and our neighbors throughout North Alabama and Tennessee, my best wishes for a Merry Christmas and a Happy New Year.

JOHN G. ZIERDT
Brig. Gen. USA
Commander

Peace On Earth

As we approach another holiday season, and the beginning of a New Year, it is appropriate for us of the Army Materiel Command to take stock of our accomplishments and of our purposes.

By the materiel support which we provide our Army, we are strengthening our country in its endeavors to preserve Peace on Earth, and to foster human dignity and freedom for all men. As we work to attain our materiel goals, we humbly pray that our achievements will serve only to promote the spiritual message of Christmas: "Peace on earth, toward men of good will." Moral strength has made our nation strong in the past, and it is moral strength upon which we place our ultimate faith for the future. Our arms are only as strong as the faith that sustains them.

May you and your loved ones find the true joy of Christmas, and may your New Year be brightened by the advance of freedom and good will throughout the world. Yours for a safe and merry holiday season.

F. S. BESSON, JR.
Lieutenant General, USA
Commanding



OPERATION SAFE RETURN—Ernest L. Haynes, Army Missile Support Command Safety Director, (second from right) gives Col. Thomas W. Cooke, AMSC Commander, an up-to-date account of the outstanding progress being made to educate everyone on safety practices during the current Holiday safety campaign. Called **OPERATION SAFE RETURN**, the program was launched late in November alerting Army Missile Command personnel and contractors at Redstone to hazards they may encounter during the Holidays. With Haynes and Col. Cooke are Robert Seavers (left) and Thomas P. Browne, Branch Chiefs in the Safety Director's Office.

MISSILE

(Continued From Page 1)

scrupulous accuracy. Anti-tank weapons moved forward like a whirlwind.

It was a year when some of the reliable "old timers" of the Army's missile arsenal were given a smart salute of honor and then retired from active duty—only to be put back to work performing some other essential task in furthering and supporting research and development projects.

It was the year when Pershing proved it would operate in any climate. The system was tested in the salty air and rain of the Atlantic Missile Range; the frozen, snow-covered valleys of Alaska; the steamy tropics of Central America; and the desert sandstorms of the Great Southwest desert.

Sergeant was deployed to soldiers in Europe and put through grueling tests on a tiny island just off the California Coast.

Engineers in the Lance Project Office molded their ideas into concrete realities of operational mock-up equipment which the public saw for the first time.

The historic "old reliable" Redstone celebrated its 10th birthday and was readied for the rocking chair. Nike Ajax was retired; Corporal was being groomed for semi-retirement sometime in the future.

And, for the anti-tank weapon systems, it was a year which saw the development of several new concepts.

One of the most spectacular achievements in the anti-tank commodity office was the development of a new missile sub-system to give small helicopters, called "Hueys", their own defense and attack weapons. The new sub-systems greatly increased firepower for the Hueys' small but powerful 2.75-inch rockets.

All considered, 1963 was marked by achievement and progress—the ingredients which assure America's fighting man the missile system he needs when he needs it.

GRADUATES 22

(Continued From Page 1)

Force, Marine Corps and 15 foreign countries received instruction on several of the nation's latest weapons systems.

Twenty-four units were activated in 1963 at the School's Unit Training Command. Seven units are currently training, including three foreign units on the Hawk air defense missile and one on the powerful Pershing missile.

The units deployed to Europe and Asia include the first group from West Germany to complete training on the Pershing, which has been bought by the Bonn government. Other Allied units were from Nationalist China, France, Italy and The Netherlands.

A noteworthy event of 1963 was the arrival of the first missile students from Israel, which has purchased the Hawk, now a standard weapon for free world forces based from the Eastern Mediterranean.

ROADS

(Continued From Page 1)

Still a third extension would take the road to Pulaski Pike in late 1967 and on to North Memorial Parkway in 1968 at an estimated total cost of \$5.8 million.

Martin Road is to be widened to four lanes from the Arsenal Main Gate to Whitesburg Drive at an estimated cost of \$625,000 for about two miles of roadway. The project is set for early 1964.

The tentative city-county road building schedules for the fourth quarter of 1964 provide a four lane street from where Martin Road enters Whitesburg Drive all the way to U. S. 72 East at an estimated cost of \$812,000.

The latter street widening project would be in three parts: Whitesburg Drive from Martin Road to Airport Road; Whitesburg, California and several short stretches of other streets from Airport Road to Pratt Avenue; and Andrew Jackson Way from Pratt Avenue to U. S. 72 East.

The two-lane Martin Road extension from the Arsenal to Whitesburg Drive was opened to traffic in February 1962.

All of these road projects, when completed, should save time for Arsenal personnel as they commute to and from work.

ean to the Yellow Sea in the Pacific.

Col. Macpherson predicted a sharp increase of training activities during 1964. The Missile School is the Army's only activity training both individuals and units for maintenance of missiles wherever deployed by the United States and associated countries.

Bloodmobile Receives 621 Pints Dec. 18

Six hundred and twenty-one pints of blood were donated by personnel at Redstone Arsenal during the Dec. 18 visit of the Red Cross Bloodmobile.

The 291st Military Police Company received the trophy for the largest military unit participation on post.

All told, 673 people were processed. Mrs. John Martinez headed the group in the canteen.

Mrs. J. R. Bain, Jr., and Mrs. R. B. Braid directed the volunteers from the post. Col. William Luk coordinated the visit with the assistance of CWO Frank Welch.

Dr. Charles Moss and Billie Propst were in charge of the Red Cross unit from the Birmingham Blood Center.

ENGINEER

(Continued From Page 1)

concerning his idea of the pinger, freely admits "it's a real pleasure to see your idea put to work in a missile. It gives you a genuine sense of pride."

The native of Macon, Ga., first went to the Atlantic Missile Range in 1960 with the Pershing Project. He is a graduate of Georgia Tech and a Navy veteran. He resides with his wife in the City of Cape Canaveral, Fla.

May you enjoy Christmas as much as we have enjoyed the opportunity to serve you. Our hearty thanks!

GREETINGS

Miller Furniture & Appliances
On West Clinton Street

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

Season's Greetings

As Christmas, 1963, is observed throughout the world, I send my heartiest greetings to all military and civilian personnel of the Army and to their families. May you have a joyous holiday and a happy and rewarding New Year.

Our country is deeply committed to helping to maintain world peace and to assisting the free nations in their efforts to establish a more tranquil and secure future. The great courage and outstanding devotion to duty which you demonstrate in upholding these commitments are highly commendable. The blessings which our Nation enjoys were earned through the work, the sacrifice, the character, and the morale of its people. At this season, let us rededicate ourselves to the high principle of peace on earth and good will toward men.

CYRUS R. VANCE
Secretary of the Army

Christmas Message

Each Christmas it is my pleasure to extend to all of you in the United States Army, and to your families, my best wishes for a very happy and joyous holiday season.

"Peace on Earth, Good Will Toward Men" conveys the spirit of Christmas and reminds us all that the goal of attaining peace on earth is among the noblest aims of mankind. Although many of you will spend the holidays away from home and family, you can take justifiable pride that your sacrifices are the foundation on which we hope to build a lasting peace.

To all the Army family, in and out of uniform, may this holiday season bring a full measure of happiness, and may the New Year bring a rebirth of our dedication and determination to defend the way of life we hold so dear.

EARLE G. WHEELER
General, United States Army
Chief of Staff

HEADQUARTERS THIRD UNITED STATES ARMY

Office of the Commanding General
Fort McPherson, Georgia

To All Personnel Of The Third United States Army:

With the approach of the holiday season, I should like to extend my best wishes to all of you for a Merry Christmas and a Happy New Year.

At this time of the year, we may with justifiable pride reflect upon the contribution we are making, as members of the Army establishment, toward insuring "peace on earth, good will toward men." This contribution requires sacrifice in many instances, but such sacrifice is truly a significant gift when it helps to guarantee the future freedom and happiness of our families, our friends, and our fellow countrymen.

As the year 1963 draws to a close, I want to express my deep personal appreciation for your many splendid accomplishments and to ask your continued assistance and loyal cooperation in the mission we will share in 1964.

ALBERT WATSON, II
Lieutenant General, USA
Commanding

\$1.1 Million Buys Services

Army Missile Command purchases of goods and services amounting to more than a million dollars during November. The total was \$1,158,450, and was shared by business concerns in Alabama, Tennessee and Georgia.

Huntsville companies received more than half a million, \$511,738. Birmingham's share was \$316,536, and other Alabama cities received \$192,670. The balance, which went to firms in Tennessee and Georgia, was \$136,817.

In addition, \$2,168,157 worth of awards went to companies in New York, North Carolina, Ohio, Connecticut, Pennsylvania, Michigan, Texas, New Jersey, California and Virginia.

These purchases cover items required to support the missile and rocket programs, and do not include the procurement of the weapons and their related equipment.

Goods and services include automotive repairs, construction material and the labor on construction, rental of business machines, electric power, food, electronic devices, laboratory equipment, office supplies, clothing items and laundry and dry cleaning.

The Purchasing and Contracting Division and the Procurement and Production Directorate are the elements at the Army Missile Command where the awards are administered.

CREDIT UNION HOLIDAY

All offices of the Redstone Federal Credit Union will be closed from noon, Monday, through Christmas Day. All offices will also be closed on New Year's Day.

Warm
Christmas
Wishes

Hope Santa
fills your
Christmas
stocking
with
everything
your heart
desires!



Meadow Gold Dairies

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.

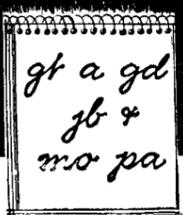
Since 1948 more graduates from NACC have passed Civil Service exams than any other commercial school in Alabama.

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.

CAN YOU READ THIS?



Then You Are Only 6 Weeks Away
From a Better Job and More Pay

with **Speedwriting**
FOR SPEED WITH ACCURACY
SHORTHAND



No symbols, no machines, uses ABC's

"I'm earning \$1300 more a year as a



SPEEDWRITING Secretary
for the
Steve Allen Show
NBC-TV."

It's really so easy to read and write SPEEDWRITING Shorthand . . . to get out of a dull routine job without a future, and just as easy to move into that higher-paying more interesting position you've always wanted! And in only 6 weeks!

How can you do it so quickly? Because you use the ABC's you already KNOW. No foreign symbols to hold you back. SPEEDWRITING gives you a 75% head start. You'll take 120 words per minute—50% faster than Civil Service requirements. Over 500,000 graduates have proved it—you can, too.

AVAILABLE ONLY THROUGH

Alverson-Draughon College

Top of Times Bldg. 210 Stallings Bldg.
Huntsville, Ph. 534-2466 Birmingham, Ph. 322-7454

"The best jobs go to Alverson-Draughon College graduates."



Sincere Good Wishes

We take this opportunity to extend heartfelt thanks to all our friends and patrons. It is our sincerest wish that each and every one enjoy the very merriest Christmas and a holiday season filled with good cheer.



REDSTONE FEDERAL CREDIT UNION
A Cooperative Savings and Loan Corporation

REDSTONE ARSENAL, ALABAMA

Redstone Folks Have Spirit Of Christmas



LANCE CONTRIBUTES—John D. Thomson, Lance Project Office, presents a check from the project people to Mrs. Gene Gaines, secretary for the local Christmas Charities. The Lance people used their Christmas card money that would have been spent on people in the project and contributed it to the charity organization instead.



CHECK FOR CHRISTMAS—Ruth Scott writes a check to go into the kitty for the Guidance and Control Laboratory's Christmas charity drive. Charles Riley, one of the coordinators for the endeavor, will add it to other checks and cash collected for a needy family. This has become a tradition in the Research and Development Directorate G and C Laboratory.

Redstone Arsenal personnel have the reputation of opening their purses to friends and neighbors less fortunate than themselves. This is especially true at Christmastime.

Of course there are many instances of organized, group generosity at the Arsenal which did not come to the Rocket's attention but following are some which did.

Consolidated Supply Division of the Army Missile Support Command has a solid tradition of helping the less fortunate at Christmas time and this year is no exception.

Consolidated Supply personnel are providing Christmas for two former employees who are now retired on disability and need

help. In addition, the Supply people have accumulated enough clothes, food and money to add three other needy families to their list and may have enough for more.

This Christmas giving tradition has been going on for almost ten years.

Comparative newcomers on Post, the Calibration Center of AMSC picked up the torch to help the needy this year and contributed to a fund for charity instead of exchanging Christmas cards.

In the Army Missile Command, the Lance Project Office hit upon the same idea. Their contribution was turned over to the Christmas Charities in Huntsville Thursday.

(Continued on Page 5)



SORTING FOR SIZE—Lucille Davis, secretary in Consolidated Supply, and William Franklin, chairman of the Division's Christmas Charity program, sort clothing donated by employees for Christmas boxes. The Division's undertaking was so vast it took a committee to coordinate it. Michael Beal worked as treasurer, John Shores as vice chairman, Miss Davis the secretary and the balance of the group included Oscar Burroughs, Hiram Morgan, Wanda Bowling, Herman Schrimsher, and Katie Davis.

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.



NEW SYSTEM—This display, showing the evolution of Nike Zeus to Nike X, is now on display at the Army Materiel Command Headquarters in Washington. Along with the display is a three minute tape explaining the change over. Both were produced by the Nike Zeus Project Office here. Robert Emmenegger, the artist who prepared the display, discusses it with Warrant Officer David Swearingen (left) of the Nike Zeus Test Branch and Lt. Col. Chester Nielson, the Project Executive Officer, prior to the display's shipment to Washington.

NIKE X DISPLAY ERECTED AT AMC HEADQUARTERS

A large display board showing the difference between Nike Zeus and Nike X went up this week at Gravelly Point, Washington.

Why Gravelly Point? This is the building which houses Headquarters of the Army Materiel Command in the Nation's Capital.

The four-by-five foot Nike X display is a combination of color photographs and drawings.

These show Nike Zeus system components, two Zeus missile firings and the intercept of an ICBM-booster target nosecone by a Zeus. Another photograph shows an artist's concept of the Multi-function Array Radar (MAR) which will be a major item in the Nike X system.

Featured with the display will be a three minute recording covering the history of the Nike Zeus system, the beginning of Nike X as an advanced version and a brief description of the Nike X system.

The display was developed by CWO David Swearingen and James Rountree of the Nike Project Office at Redstone Arsenal.

Credit Union Announces '63 Dividend

The Board of Directors of the Redstone Federal Credit Union declared a dividend to shareholders at a rate of 4.8 per cent per annum.

Twenty thousand members are expected to receive benefit of the increased dividend, up from 4½ per cent in 1962.

The higher dividend rate reflects improved earnings over the prior year resulting from a surging loan growth of over \$2.5 million during the past twelve months.

Assets of the organization were \$9.4 million at the end of November, 1963.

See our complete selection of fresh, delicious



Russell Stover CANDIES

HUMPHREY'S
Twickenham Pharmacy
REXALL Downtown

— Free Delivery —
Dial 536-1581 — Huntsville

Series Of Shillelagh Firings Is Reported Successful

The Army has announced a continuing series of test firings of its Shillelagh anti-tank missile at White Sands Missile Range, New Mexico, has proven highly successful.

During the tests the missile displayed extreme accuracy, literally punching "bullseyes" at its maximum range.

The Shillelagh weapon system will be a unique armament system for the Army's new General Sheridan armored reconnaissance vehicle.

Both the Shillelagh guided missile and conventional ammunition can be fired from the vehicle's 152-millimeter gun launcher. Used for front line attack and infantry support, it will give increased firepower against armor as well as

troops and field fortifications.

The bullet shaped Shillelagh missile is guided to its target by a command system mounted on its launching vehicle. It is capable of maneuvering in flight to attack moving vehicles.

The Sheridan/Shillelagh system is in final development under the direction of Col. Wayne G. Higgins, Project Manager, at the Army Weapons Command at Rock Island Arsenal, Illinois.

Development of the missile and its associated guidance equipment is being managed by the Shillelagh Missile Engineering Division of the Project Manager's Office at the Army Missile Command.

Aeronutronic, a division of the Philco Corporation at Newport Beach, Calif., is the prime contrac-

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.

REDSTONE FOLKS

(Continued From Page 4)

The Guidance and Control Division of the Research and Development Directorate spearheaded a two-pronged program.

They collected food and clothes and toys for the Christmas Charities organization, and they also adopted a family to help with cash, always welcomed by needy

tor for the Shillelagh. Cadillac Motor Division of General Motors is the prime contractor for the Sheridan vehicle.

The White Sands tests were resumed early last fall following last winter's grueling cold weather tests of the system at Fort Greeley, Alaska in the Arctic. The Arctic tests were conducted to try out the ability of the system to operate under extreme temperature conditions.

The weapon will be extremely simple in operation, requiring only a minimum crew. All necessary guidance calculations will be performed by computers mounted inside the weapons vehicle.

The General Sheridan can be air transported and possesses a high degree of cross country mobility, able to travel rugged terrain and swim rivers. It will also have a maximum cruising range to permit independent operations on security and reconnaissance missions.

families.

There are probably many other organized groups on post that have contributed to the less fortunate in one way or another.

For instance members of the 291st Military Police Company and the Civilian Security Guards donated their time to the Christmas Charities. They delivered packages Sunday.

Movie Schedule

WEDNESDAY, December 25
"Blue Hawaii" (M-YP)

THURSDAY-FRIDAY, December 26-27

"Charade" (M)
INCREASED ADMISSION:
Adults 49c

SATURDAY, December 28
"The Sad Sack" (F)

SUNDAY-MONDAY, December 29-30

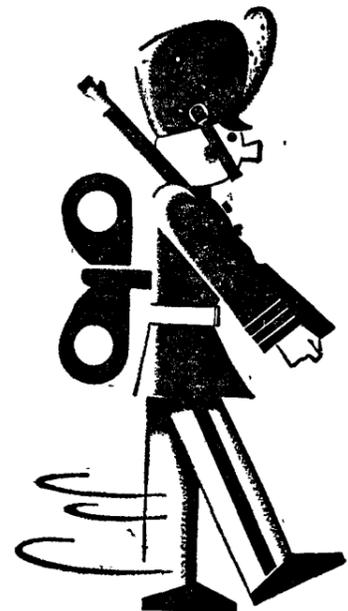
"Parrish" (M)

TUESDAY, December 31
"The Haunting" (M-YP)

One evening performance during the Holiday Season at 6 p.m. Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

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

Where to turn for money?



More servicemen go to HFC!

Need money for a good purpose? See an HFC military loan specialist. He knows how to meet your exact money needs.

Cash You Get	MONTHLY PAYMENT PLANS		
	30 months	24 months	12 months
Ask about Credit	\$500	\$24.73	\$46.81
Life and Disability	700	34.30	64.92
Insurance on loans	1000	40.05	92.30
at group rates	1500	59.80	137.80
	2000	78.96	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
ALL HFC OFFICES OPEN SATURDAY MORNINGS UNTIL CHRISTMAS

MERRY CHRISTMAS

UNIVERSAL MOTORS, INC.

"Your Authorized Volkswagen Dealer"

USED CAR DEPARTMENT

North Memorial Parkway



ARSENAL TEAM EXCELLS—Members of the 291st Military Police Company pistol team proudly display certificates awarded to them for their achievements in the recent Provost Marshal General team matches. The team fired a total score of 2570 (99X) out of a possible 3000 to capture third place out of 44 Service Police units entered. S/Sgt. Junior Smith compiled the second highest individual total when he scored 291-22X out of 300. Team members shown above are, front row, left to right: SSgt. Dan Parker, SSgt. Junior Smith and SP4 Patrick Pezzano. Rear row; SP4 Joseph Prinzivalli, SSgt. Henry Little, SP4 William Sims and SP4 Robert Reynolds. Not available for the picture were, Sgt. Charles Young, SP4 Robert Overby and SP4 Alonzo Gibbs.

Football Fans Can Fly To Bowl Game

The Joint Airline Military Traffic Office located on the Arsenal is offering a special service to football fans, especially the Auburn variety.

JAMTO, which provides Redstone military and civilian personnel a convenient place to make private airline passage arrangements, has information concerning direct scheduled and charter flights from Birmingham to Miami.

If you are interested in going

to the Auburn-Nebraska game in the Orange Bowl by air call 876-5723 or 876-5851. If you prefer you could go by the office. JAMTO is located in Building 3684.

When you select U. S. Savings Bonds as Christmas gifts for those you love, you invest in their security and our country's.

BORROW

**\$2200
REPAY \$24.43**

Homeowners Consolidate
YOUR BILLS INTO ONE LOW
MONTHLY PAYMENT
—REPAYMENT SCHEDULE—

Amount	Mo.	Pymts.
\$1,500		\$16.66
\$2,000		\$22.21
\$3,000		\$33.31
\$5,000		\$55.52

Real Estate Mtg. Co.
908 TIMES BLDG.
(Corner Greene & Holmes)
DIAL 539-3457
24 Hrs. Everyday

WRECKER SERVICE

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

**Hill Chevrolet
Company**



RAY BRIDGES WINS—Col. R. W. Van Wert, Director of Supply and maintenance Directorate, is shown presenting Marvin F. LaPrade with the Medalist and First Flight trophies won in the recent Fall Supply and Maintenance Golf Tournament. Ray Bridges, championship flight winner of the tournament, is third from the left. Others in the picture from left to right are: Bob Stultz, fourth flight runner-up; Jesse Greer, fifth flight winner; Ray Bridges; Chris Leachman, third flight runner-up; Marvin LaPrade; Orville Cook, fifth flight runner-up; Col. Van Wert; Bill Bentley, fourth flight winner; Mel Tack, first flight runner-up; Warren Johnson, third flight winner and Bob Keel, second flight winner.

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

Greetings

SEASON'S GREETINGS

From
The Management
And
Employees

SPACE DIVISION

**CHRYSLER
CORPORATION**

HUNTSVILLE OPERATIONS



BRITISH OFFICIAL VISITS—British Brig. Francis Grant (left) Director of Guided Weapons for the British Ministry of Aviation, met last week with Brig. Gen. John G. Zierdt, Commanding General of the Army Missile Command. Brig. Grant received a general orientation on the Missile Command and met with officials of several project offices.

SERGEANT SAVES ARMY \$80,000

A sergeant's shrewd eye and quick thinking have brought an \$80,000 windfall in cost avoidance to the Army Ordnance Guided Missile School at Redstone Arsenal, Col. William J. Macpherson, commandant, said today.

SFC Leonard Jones of the missile school's staff visited the Sperry-Utah Company plant at Salt Lake City and spotted a large stock of missile parts that had been declared surplus or unacceptable for use in production of the Sergeant land combat missile.

SFC Jones quickly realized the potential of these parts. They would still be acceptable as training aids at the missile school, especially for use in circuit soldering work. He claimed the surplus materials.

Lt. Lawrence C. Ellery of the missile school's Sergeant Section, Technical Liaison Office, noted that without these surplus parts, the School would have to buy an equivalent amount of good, new parts.

"These parts are perfectly acceptable for training purposes," he said.

The parts "discovered" by SFC Jones, now retired, included 200 assorted circuit boards, many with mounted terminals, which cost from \$25 to \$100 each. Other parts were transistors, capacitors, coils, diodes and wires and con-

nectors.

For the most part, the unacceptable parts were pieces that did not meet the rigid specifications of Sperry-Utah and over the allowable tolerances, Lt. Ellery said.

PLAY IT SAFE!

Hi!
and
Merry
Christmas
to
Everyone!



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

Dr. Sayles Nominee For Grady Award

A scientist from the Army Missile Command has been nominated for the James T. Grady Award by members of the American Institute of Chemists and the American Chemical Society.

Dr. David C. Sayles, a chemist in the Propulsion Laboratory of the Directorate of Research and Development, was nominated because of "noteworthy presentations through a medium of public communication to increase the American public's understanding of chemistry and chemical progress."

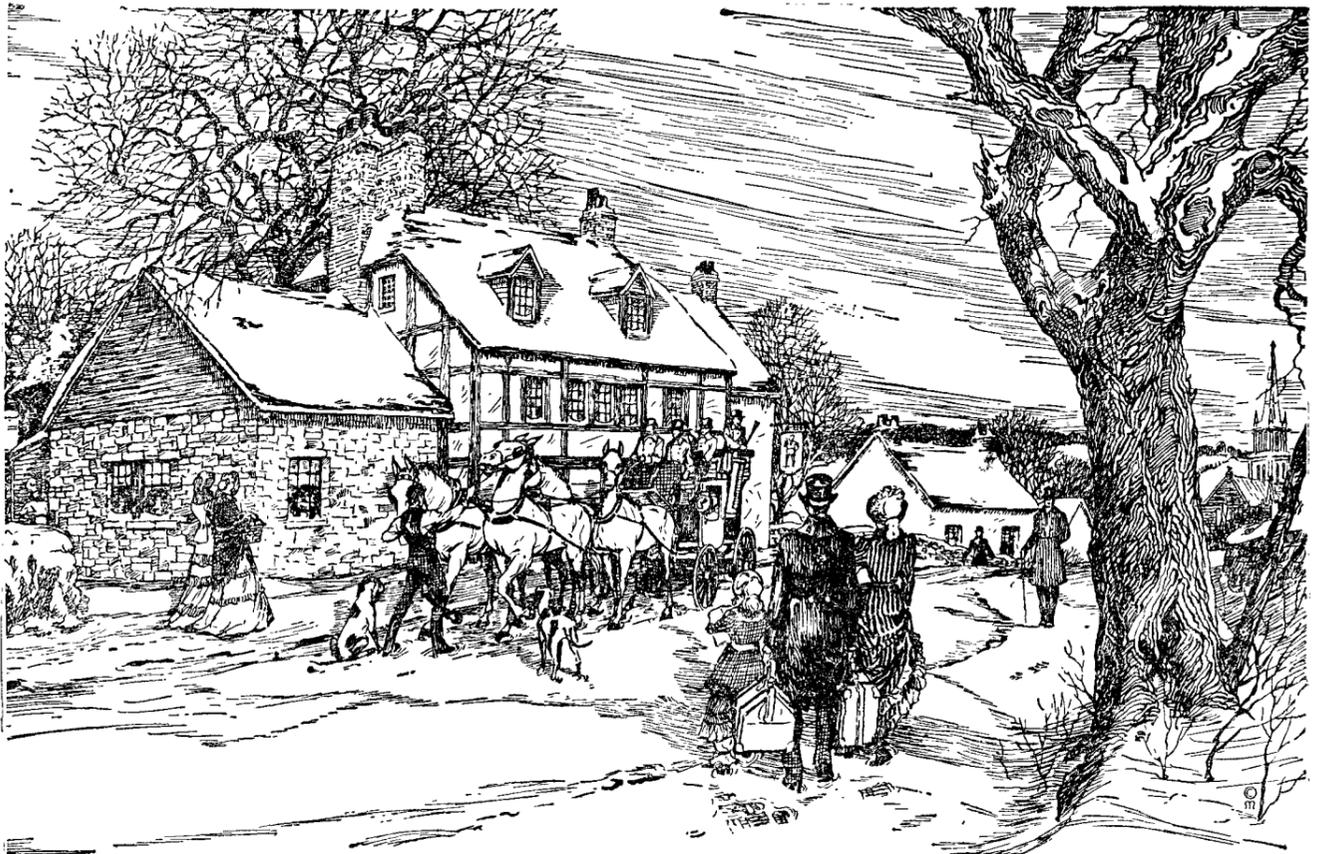
Dr. Sayles has written a number of articles for technical journals, and has filed more than 20 patent

disclosures. He lectures frequently to scientific groups on new developments in the propulsion chemistry field and has co-authored five textbooks.

In addition, Dr. Sayles has written many articles for non-technical magazines, and has presented numerous lectures to the general public.



DR. D. C. SAYLES



GREETINGS

In the true spirit of the season, we wish you all the "old-fashioned" joys of the holidays... the ever-new delights of good friends around you, good times and good cheer, and the gladness of exchanging gifts and greetings.

And, in a spirit of sincere gratitude, we wish to extend our thanks for your favors and friendly good will. Each day in our business life makes us appreciate more deeply how much our pleasant association means.

The Management and Employees

Brown Engineering

Lyric Theatre
"Huntsville's Finest"

STARTS DECEMBER 25
PLAYS 7 DAYS

Mirthful! Magical! Musical!

WALT DISNEY'S
NEWEST AND MOST HILARIOUS ALL-CARTOON FEATURE

The Sword in the Stone

©1963 Walt Disney Productions TECHNICOLOR®

LATE SHOW — DEC. 31
PLAYS 7 DAYS

A BOLD NEW LOOK IN SUSPENSE!
M-G-M presents
THE PRIZE
PANAVISION® and METROCOLOR



CAROLS TO BE PRACTICED—The Girls Junior Choir at the Redstone Arsenal Post Chapel devotes its practice period to re-learning the old carols that have been handed down through generations so that they can join the grown-ups in the Redstone Arsenal

housing areas on the annual Christmas carolling expedition. The director is Mrs. T. W. Holland who also plays the organ and the piano for chapel services.

Births At Post Hospital

Rebecca Mae Anderson, 6 lbs., 11 ozs., Dec. 11, daughter of Pfc and Mrs. Donald L. Anderson.
 Ronald David Dockendorf, 6 lbs., 13 ozs., Dec. 12, son of Sgt. and Mrs. Kenneth Dockendorf.
 Darlene Golden, 10 lbs., 6½ ozs., Dec. 12, daughter of Sp6 and Mrs. James Golden.
 Stephanie Lois Poston, 7 lbs., 4½ ozs., Dec. 14, daughter of Sp5 and Mrs. Buel W. Poston.
 Holly Elizabeth McGovern, 6 lbs., 9½ ozs., Dec. 16, daughter of Capt. and Mrs. Richard T. McGovern.
 Clarence Edward Smith Jr., 5 lbs., 12¼ ozs., Dec. 17, son of Sp4 and Mrs. Clarence E. Smith.

YOUR NEW BOOK STORE

THE BOOK INN

HEART OF HUNTSVILLE SHOPPING CENTER

"Outstanding Selection of Technical Books"
Special Order Service Offered

PHONE 539-2246

"Largest Selection of Children's Books in Town."

Miss Anna Pugh To Be Featured As University Beauty

of Alabama beauties to be featured in the beauty section of the 1964 yearbook of the University, the Corolla.

Miss Pugh has also worked in the Training Division of the Personnel and Training Office and in the Procurement and Production Directorate. She is the daughter of Joseph T. Pugh, Future Missile Systems Division, Research and Development Directorate.

Miss Anna Katherine Pugh, who worked last summer in the Transportation Division, Army Missile Command headquarters, has been selected as one of 21 University

Engagement Announced

Col. and Mrs. J. N. Jean, of Heidelberg, Germany, announce the engagement of their daughter, Susan Parrish, to Mr. Jerry B. Jones, son of Mr. and Mrs. J. A. Jones of Gladewater, Texas.

Miss Jean, a 1961 graduate of Butler High School, has studied at Rice University in Houston, Texas, and is now attending The Sorbonne (University of Paris) in Paris, France. Mr. Jones is a graduate of Texas Technical College and has completed his studies for the Master's Degree in Architecture at Rice University. He is presently doing further graduate work at the Illinois Institute of Technology in Chicago.

Miss Jean's father was stationed at Redstone Arsenal from 1956 to 1961.

At The Service Club

By: Brenda Hanson

The Redstone Arsenal Service Club is planning a busy schedule for the Holidays.

Christmas Eve the staff plans a song fest, beginning at 8 p.m. Christmas morning they'll serve coffee and donuts after 9 a.m., just like Sundays.

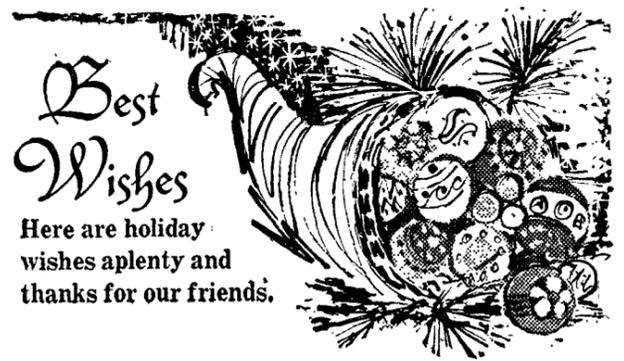
At 5 p.m. the same day they plan a Christmas carol program followed by a dance at 8 p.m.

Thursday night bridge is scheduled at 7 p.m. and the following night at 8 p.m. there will be a pool contest.

Saturday they plan a coffee hour at 2.30 p.m. and smoker poker at 8 p.m.

Sunday morning the coffee and donuts regularly served, and in the evening a record hop beginning at 8 p.m. Monday's evening of games begins at 8 p.m.

New Year's Eve a dance at 8 p.m. will be broken at 11 p.m. for a buffet. Dancing will continue until 12:30 a.m.



the Town & Country SHOPPE

NITA & DAVE

SEND BEST WISHES FOR A . . .

MERRY CHRISTMAS

And A

Happy and Prosperous New Year



HOLIDAY APPRECIATION SPECIALS

- REG \$25.00 PERMANENT \$15.00
- REG. \$18.50 FOR \$12.50
- REG. \$15.00 FOR \$10.00

This includes: The finest name brand permanents, styling by experts, hair cut and shampoo and set.

— MAKE YOUR APPOINTMENT EARLY —

FREE MONDAY - TUESDAY & WEDNESDAY
 \$2.50 Can of Hair Spray With Each Permanent

— FOR BEAUTY DIAL —

NITA'S Beauty Salon

Heart of Huntsville Shopping Mall — Phone 539-1845

NITA & DAVE'S SALON OF BEAUTY

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



Because we realize how much our success is due to you, we are most sincerely appreciative.

A. L. HIPPI
 Jeweler



Lovely To See Easy To Keep

This Hair Style Fashioned For The Holidays

Phone 534-4551 For Your Appointment

Quick's Beauty Salon

ON GREENE STREET DOWNTOWN HUNTSVILLE



BRITISH OFFICIAL VISITS—British Brig. Francis Grant (left) Director of Guided Weapons for the British Ministry of Aviation, met last week with Brig. Gen. John G. Zierdt, Commanding General of the Army Missile Command. Brig. Grant received a general orientation on the Missile Command and met with officials of several project offices.

Dr. Sayles Nominee For Grady Award

A scientist from the Army Missile Command has been nominated for the James T. Grady Award by members of the American Institute of Chemists and the American Chemical Society.

Dr. David C. Sayles, a chemist in the Propulsion Laboratory of the Directorate of Research and Development, was nominated because of "noteworthy presentations through a medium of public communication to increase the American public's understanding of chemistry and chemical progress."

Dr. Sayles has written a number of articles for technical journals, and has filed more than 20 patent

disclosures. He lectures frequently to scientific groups on new developments in the propulsion chemistry field and has co-authored five textbooks.

In addition, Dr. Sayles has written many articles for non-technical magazines, and has presented numerous lectures to the general public.



DR. D. C. SAYLES

SERGEANT SAVES ARMY \$80,000

A sergeant's shrewd eye and quick thinking have brought an \$80,000 windfall in cost avoidance to the Army Ordnance Guided Missile School at Redstone Arsenal, Col. William J. Macpherson, commandant, said today.

SFC Leonard Jones of the missile school's staff visited the Sperry-Utah Company plant at Salt Lake City and spotted a large stock of missile parts that had been declared surplus or unacceptable for use in production of the Sergeant land combat missile.

SFC Jones quickly realized the potential of these parts. They would still be acceptable as training aids at the missile school, especially for use in circuit soldering work. He claimed the surplus materials.

Lt. Lawrence C. Ellery of the missile school's Sergeant Section, Technical Liaison Office, noted that without these surplus parts, the School would have to buy an equivalent amount of good, new parts.

"These parts are perfectly acceptable for training purposes," he said.

The parts "discovered" by SFC Jones, now retired, included 200 assorted circuit boards, many with mounted terminals, which cost from \$25 to \$100 each. Other parts were transistors, capacitors, coils, diodes and wires and con-

nectors.

For the most part, the unacceptable parts were pieces that did not meet the rigid specifications of Sperry-Utah and over the allowable tolerances, Lt. Ellery said.

PLAY IT SAFE!

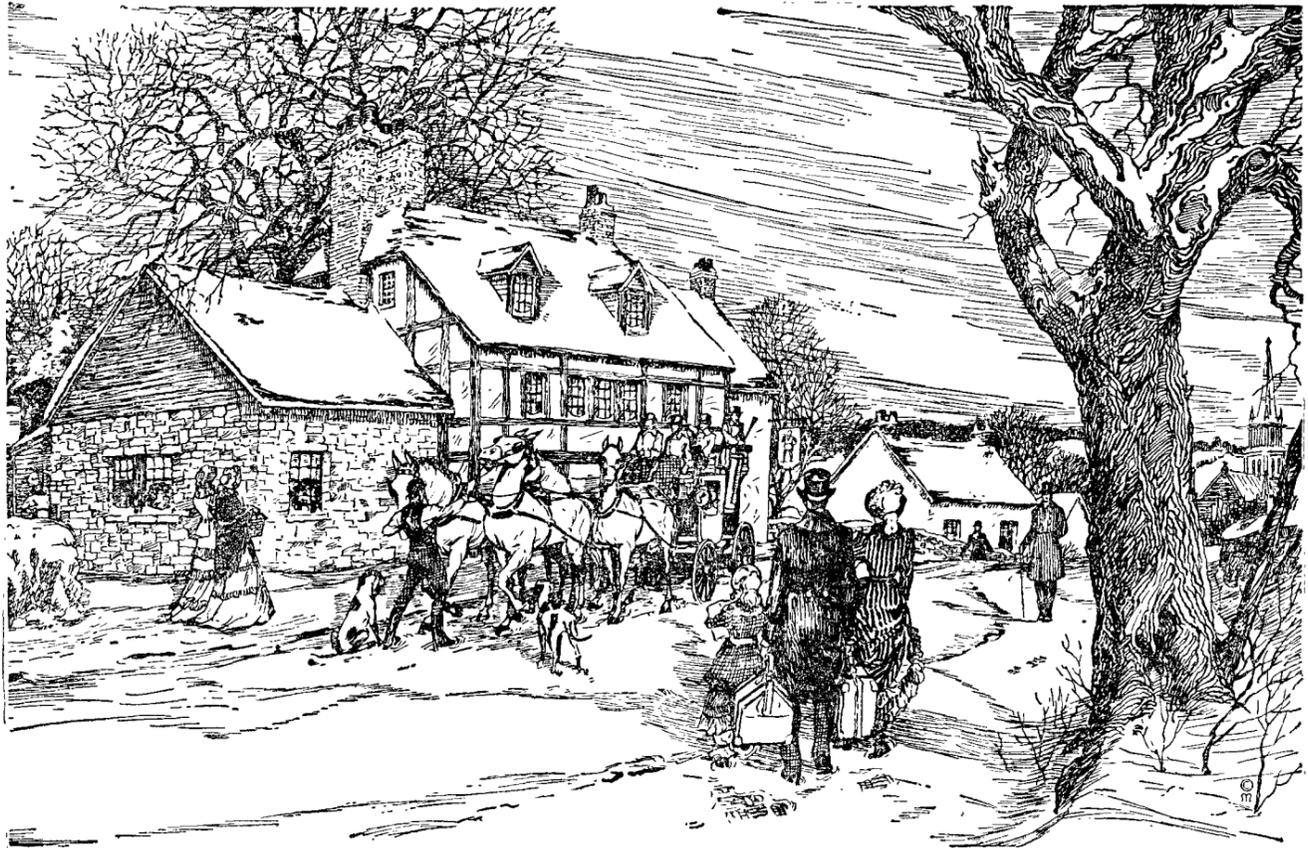
Hi!
and
Merry
Christmas
to
Everyone!



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



GREETINGS

In the true spirit of the season, we wish you all the "old-fashioned" joys of the holidays . . . the ever-new delights of good friends around you, good times and good cheer, and the gladness of exchanging gifts and greetings.

And, in a spirit of sincere gratitude, we wish to extend our thanks for your favors and friendly good will. Each day in our business life makes us appreciate more deeply how much our pleasant association means.

The Management and Employees

Brown Engineering

Lyric Theatre

"Huntsville's Finest"

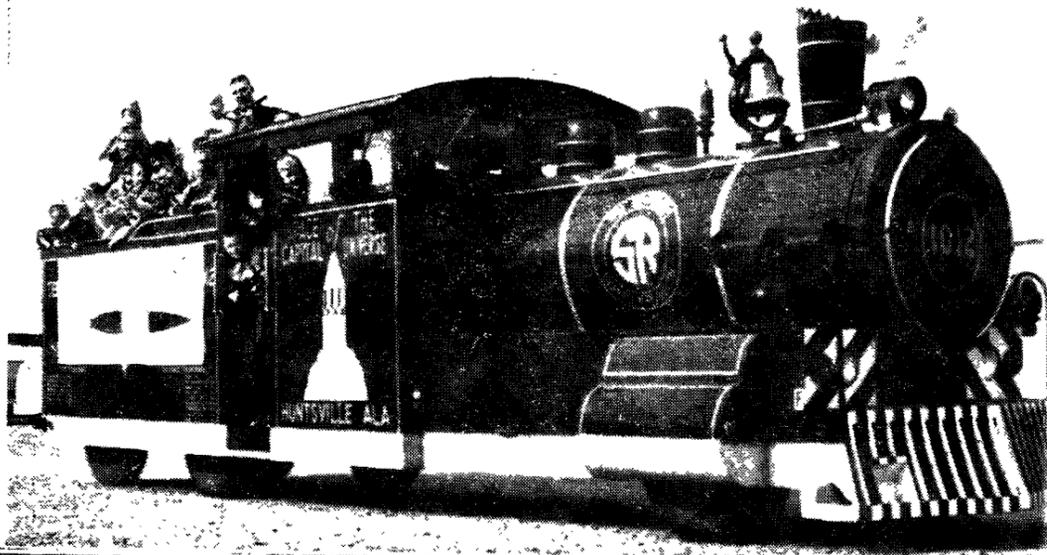
STARTS DECEMBER 25
PLAYS 7 DAYS

Mirthful! Magical! Musical!



LATE SHOW — DEC. 31
PLAYS 7 DAYS

A BOLD NEW LOOK IN SUSPENSE!
M-G-M presents
THE PRIZE
PANAVISION and METROCOLOR



MODERN SLEIGH RIDE—Some of the youngsters belonging to Redstone Arsenal NCO Club members tried the means of locomotion Santa planned to use to transport his gifts for the NCO Club children's party. The youngsters who took the excursion with Mrs. Keith Brown, Sgt. and Mrs. William Lowery and S/Sgt. John Sloan were Steven and David Wojciechowski, David Jenkins, Norman Lowery, Kathie and Gary Cormier, Danny Jenkins, Phylis Ann Wojciechowski, Judy Cormier, Jimmy, Chuck and David Brown, John Sloan, Jr., Richard Lowery and Lynn Marie and Diane Dussault.

Hoagland.

ARMY MISSILE SUPPORT COMMAND

Theresa E. Allen, Johnny R. Barron, Virgil L. Beddingfield, Sheria R. Betterton, Harold E. Bowman, Linda C. Dunaway, James T. Deaton, Elizabeth S. Edwards, Isaac W. Finley, Heidi H. Garner, Alton L. Goodson, Dennis L. Gray, E. Jewel Gunnell, Nellie S. Hall, Robert L. Hall, Joe R. Junkins, Leonard R. Kindred, Norma W. Kostelnik, Lily D. Lyons, John L. McSparrin, Elizabeth W. Moorer, Laura L. Mullen, John W. Shanks and Billy M. Walden.

ORDNANCE GUIDED MISSILE SCHOOL

Lucius J. Edgil, Paul B. Locke, Robert O. Paton and Hyott V. Snider.

PLAY IT SAFE!



REPRESENTING NEW YORK LIFE



G. W. (George) EILERS
M/Sgt., Ret.



W. H. (Bill) CLISSON
Lt. Col., Ret.

Res. 881-1526 — Bus. 536-6301 — Res. 539-3256
250 Governors Drive, SE — Huntsville, Ala.

Welcome Mat

The ROCKET extends a hearty welcome to the following personnel who have recently been assigned to positions with Army organizations.

ARMY MISSILE COMMAND

Supply & Maintenance: Homer R. Atchley, Floyd D. Bailey, Jr., Julia C. Bailey, Larry J. Barlar, Phyllis A. Clark, Nancy C. Gardner, Cladys C. Hall, Mary A. Harvey, Virginia E. Hight, James W. Hill, Ralph G. Holloway, David C. Hubbard, Edward P. Inderbitzen, Edward C. Johnson, Mary F. Kirkland, Hubert Lemaster, Clarence J. Lloyd, Hazel J. Marks, Daniel E. Owen, Monie D. Roberts, Mary S. Scott, Wesley E. Tomlinson, George T. Wickware and John W. Williams.

Procurement & Production: Virginia P. Campbell, Fred R. Cheverie, Germaine S. Cooper, Maureen M. Copeland, Gene T. East, Frank J. Fleischamel, Patricia A. Gill, Myra D. Kennamer, Betty H. McGee, John C. Oaks, Jr., Joseph H. Robinson, Gretchen A. Rogers, Amy J. Sublett and Shirley W. Woods.

Research & Development: Benny M. Carr, Leo J. Cooney, James W. Davis, Charles T. Elliott, James T. Gill, Nancy C. Hornbuckle, Ward V. Jensen, James A. McLean and James N. Mitchell.

Mauler Project Office: Vernon F. Andrews.

Hercules Project Office: Albert L. Cochran.

Pershing Project Office: Mary E. Folsom, Carolyn S. Hillhouse, and Donna L. Newton.

Sergeant Project Office: Darrell W. Gladish.

Lance Project Office: Reba A. Hammond.

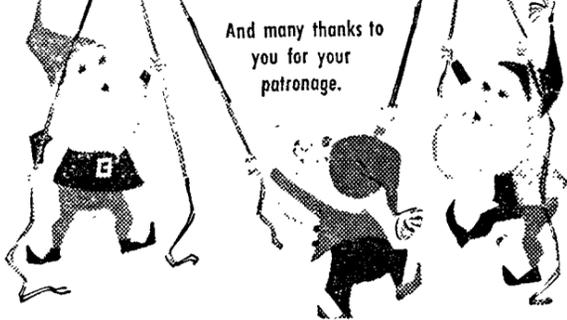
Management Science: Aubrey G. Newbill.

Comptroller & DP: Theodore S. Sellinger.

ZEUS PROJECT OFFICE

Judy C. Cantrell and Laurel G.

A MERRY, MERRY CHRISTMAS



And many thanks to you for your patronage.

VALLEY CLEANERS

Parkway City

At **SNO-WITE**

BREAKFAST

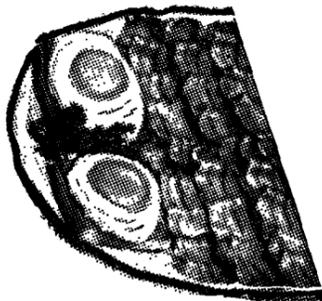
SERVED 24 HOURS A DAY!

TWO EGGS

Butter, Toast and Jelly

39c

(Poached or Boiled 10c Extra)



TWO EGGS

With Ham, Bacon or Sausage

Butter, Toast and Jelly **53c**

ONE EGG

With Ham, Bacon or Sausage

Butter, Toast and Jelly **42c**

Golden Brown Waffle

With Homemade Syrup with **HAM, BACON or SASUSAGE**

53c

SNO-WITE DRIVE INN

WHITESBURG DRIVE

OPEN 24 HOURS — 7 DAYS A WEEK



Merry Christmas

And Very Best Wishes for a Happy and Prosperous **NEW YEAR** From . . .

NITA & DAVE

PRICE LIST FOR STUDENT WORK UNDER SUPERVISION OF EXPERT INSTRUCTORS!

HOT OIL & OTHER CONDITIONERS \$1.00 & \$1.50
PERMANENTS \$4.50 UP
SHAMPOO & SET75 UP
HAIR CUTS75 UP
MANICURES \$1.00
HAIR COLOR \$3.50 UP

PERMANENT SPECIAL!
MONDAY — TUESDAY — WEDNESDAY
Permanents \$3.50
Includes Styling, Haircut, Shampoo, Set

Phone For Appointment 539-2461

NITA & DAVE'S BEAUTY COLLEGE

3215 Governors Drive

Phone 539-2461

YOU'LL

LOVE

WINDOW DECOR

by Gay

Mason

FURNITURE COMPANY

Since 1908

OPEN THURSDAY TILL 8 P.M.

115 Clinton Ave., East

W. O. MASON, Mgr.

For beautiful draperies . . . Free Estimates
PHONE 534-3541

Surprises, Progress—Record In '63

Missile Command. He said,
"Let's go to work and see what we can do!"

Most of the happenings at the Army Missile Command during 1963 are now only a memory.

It was an unpredictable year, at best. It was crammed with achievements, tension and turmoil; tragedy and death.

Foremost perhaps, 1963 will be remembered as the infamous year in which the life of President John F. Kennedy was snuffed out by an assassin's bullet in Dallas on "black Friday"—Nov. 22.

It was more than just the loss of a leader to employees at bustling Redstone Arsenal. Feelings were much more personal.

Visits Redstone

President Kennedy had shown a great interest in the activities of the Army Missile Command. He had first visited Redstone Arsenal in Sept., 1962, including portions of the Directorate of Research and Development in his tour. In May, 1963—on Armed Forces Day—he returned to speak before a crowd of more than 10,000 enthusiastic greeters at Redstone Army Airfield.

Highlights of the May visit came after his speech. As he left the platform, the President veered away from his security guards and walked into the midst of the crowd, shaking hands and being touched by hundreds of people.

President Kennedy's death was the second to jolt Arsenal personnel.

On Aug. 24, during the early morning hours, a heart attack proved fatal to Maj. Gen. Francis J. McMorrow, Commanding General of the Missile Command. He was in Redstone Army Hospital for observation of another ailment when stricken.

New Commander

Within a month, the Missile Command had been assigned a dynamic new Commanding General, Brig. Gen. John G. Zierdt. No stranger to Redstone Arsenal and many of its people, Gen. Zierdt was serving as Deputy Director, Research and Development Directorate, U. S. Army Materiel Command, at the time of his new assignment. He had previously served an unbroken tour of six years in various positions at Redstone.

As the year drew to a close, the U. S. Senate had approved a second star for Gen. Zierdt.

Other new leadership also came to the Missile Command during 1963.

Col. Charles W. Eifler, former Commandant of the Ordnance Guided Missile School, was named Deputy Commander for Land Combat Systems. Within a few months he was presented his first star and the title "Deputy Commanding General for Land Combat Systems."

In late October, Col. Henry J.

Katz was named Chief of Staff succeeding Col. Foster L. Furphy who retired.

Center Created

A short news item recorded one of the year's most important achievements for the Missile Command, one that will have even greater impact in the future. This was announced that the Army's Inertial Guidance Management Technology Center had been established within the Directorate of Research and Development. This center coordinates all Army research and development programs in the area of inertial guidance, including missiles, aircraft and drones, land navigation and other application such as inertial land surveying and fusing.

Other important work in the R&D field was rapid construction of the new building that will house administrative offices and some of the labs for the Directorate of R&D. Initial occupancy of the building has been set for early January, 1964.

Facts and figures probably tell 1963's story better than anything else.

A mid-December count showed that Army employment at Redstone stood at 13,225 civilian and military personnel. This included the Army Missile Command, Nike Zeus Project Office, Ordnance Guided Missile School and in the Government Owned-Contractor Operated plants on the Arsenal.

Payroll \$80 Million

With a 1963 fiscal year budget of approximately \$1.4 billion for the Army elements at Redstone, local payroll for both civilian and military employees was more than \$80 million. About \$20 million was spent by the Missile Command for everyday housekeeping-type needs purchased from businesses in the Southeast.

A traffic survey showed that the Army received more than 60,000 visitors during the year with an estimated 30,000 vehicles flowing through the gates each 24 hour period.

Over and above changes and accomplishments, 1963 was also a year for taking stock to meet the challenges ahead.

Gen. Zierdt set the stage for

the future in his official statement after assuming command of the



THE 135 EMPLOYEES OF THIS DEALERSHIP AND OWNERS WISH FOR YOU AND YOURS A

MERRY CHRISTMAS

AND

A HAPPY NEW YEAR

Incidentally, May We Suggest You Put A New Chevrolet or O.K. Used Car Under Your Tree.

HILL

CHEVROLET COMPANY

39 Years A Franchised Chevrolet Dealer

"Your Satisfaction Is Our Business"

TWO LOCATIONS TO SERVE YOU:

220 North Greene Street — 519 North Meridian St.

BUSANN'S — YOUR FAMILY SHOE STORE

For every two feet in your family we have the right shoe . . . Value wise prices too!

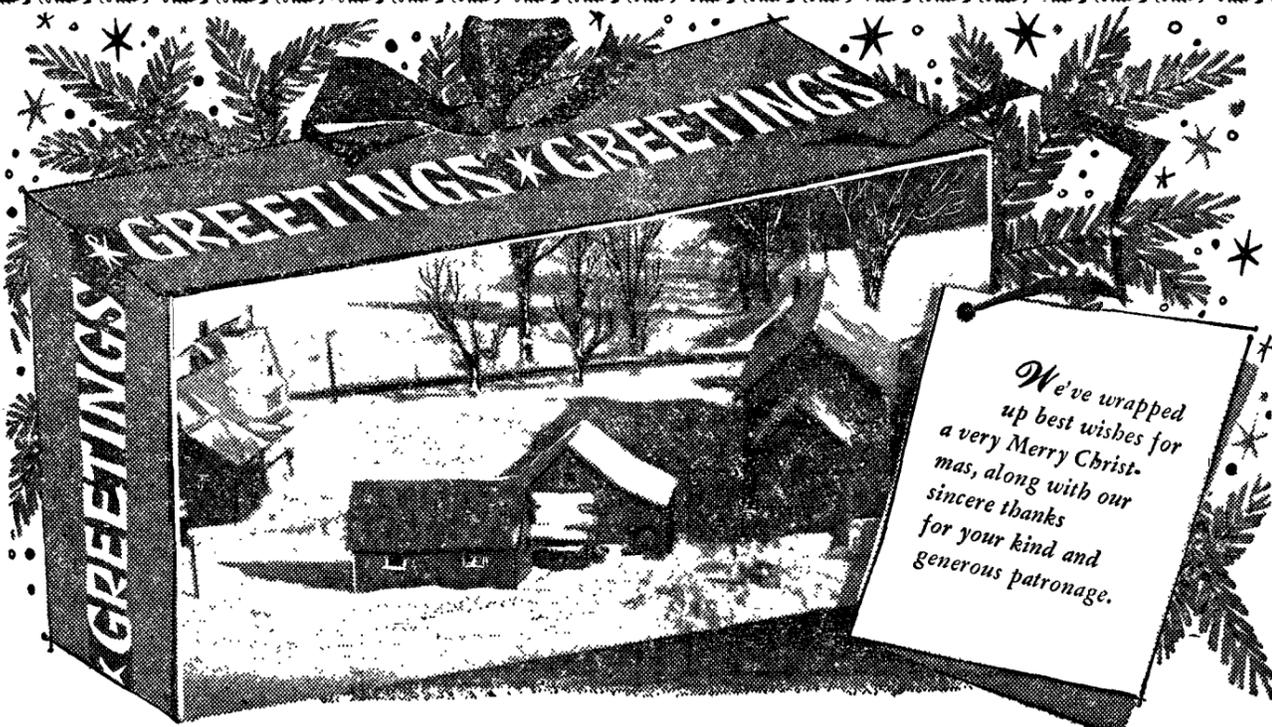
Downtown Huntsville
on Washington St.

EXECUTIVE TRAINING

Classes convened October 7 at the new Executive Seminar Center at Kings Point, Long Island. The Center will be operated by the Civil Service Commission as an interagency training facility for GS-13 to -16 careerists from all Federal departments and agencies. Two-week courses, 15 in the first year, will provide an understanding of significant and continuing Government responsibilities and operations. Facilities are provided by the Merchant Marine Academy. Costs are met by agencies sending students.



WILL YOUR FAMILY OWN OR RENT?
It's A Good Policy to See
JESSE ANDERSON, CLU
Provident Life and Accident Insurance Co.
PHONE 534-7651



The Employees and Management
of

HUNTSVILLE ROOFING COMPANY

2511 Triana Blvd., S.W.



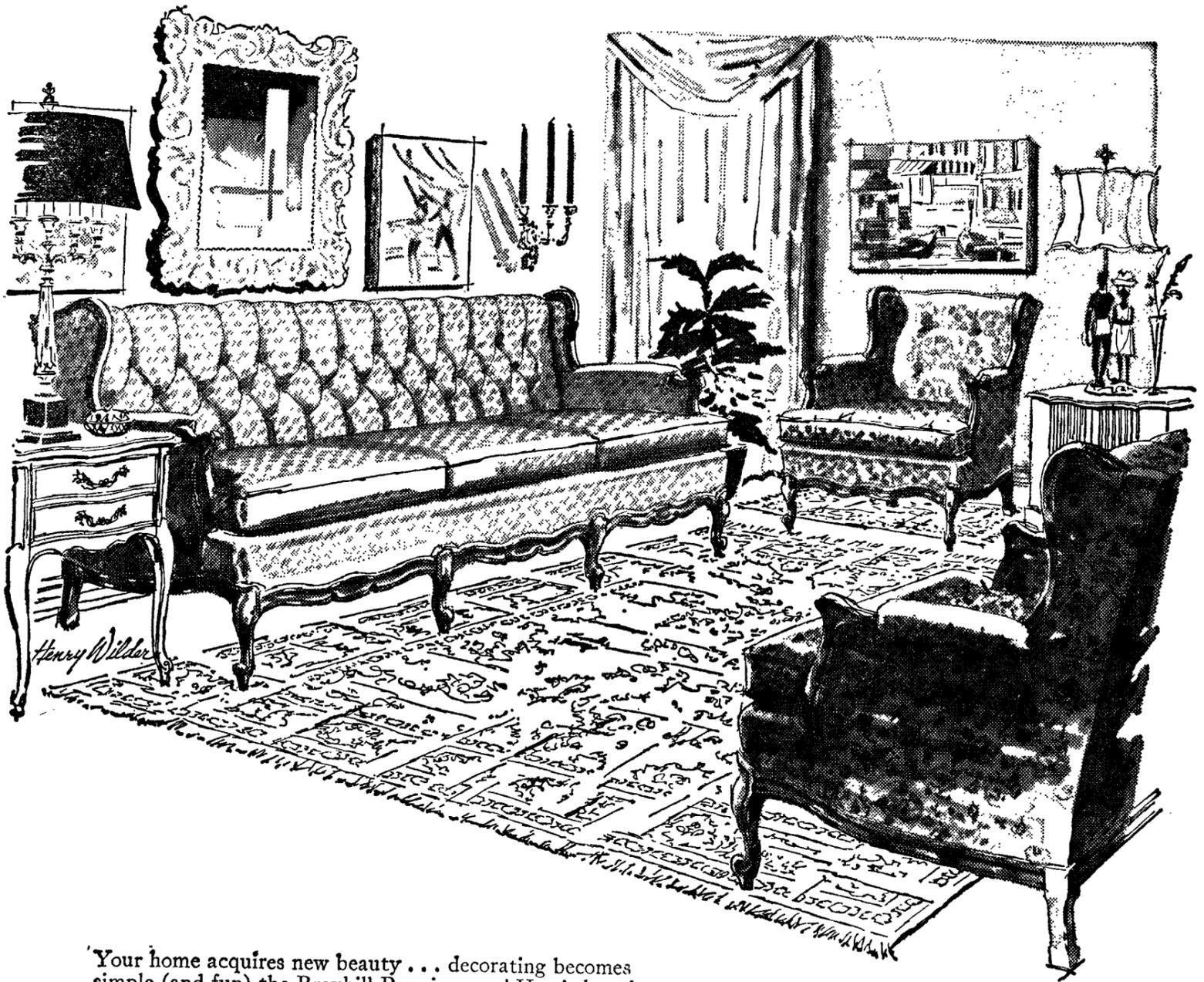
the greatest **Color** to **Cover**

selection ever offered!

...fine quality French Provincial upholstered furniture
...fabrics and color-planning make your decorating easy.

Color's the rule . . . with our new French Provincial Upholstery Collection . . . featuring famous Broyhill Premier ColoRule! ColoRule lets you select the French Provincial sofa and chairs you've been dreaming of, with the assurance that your fabric selection is exactly right! Plan to choose your French Provincial furniture now . . . from the greatest *color* and *cover* selection you've ever seen.

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



Your home acquires new beauty . . . decorating becomes simple (and fun) the Broyhill Premier way! Here's how it works! You decide (and we'll help) on your basic wall or floor covering scheme . . . and like magic there's a group of Broyhill Premier furniture with fabrics pre-coordinated to harmonize! See these authentically designed, skillfully made French Provincial sofas and chairs today! Then let us show you how **YOURS IS THE SURE HAND OF A DECORATOR. . . with Broyhill Premier.**

HALE BROS. FURNITURE CO.

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

● YOU CAN PAY YOUR TELEPHONE BILLS HERE.



ADMIRAL VISITS MISSILE COMMAND—Vice Adm. Rufus E. Rose, Commandant of the Industrial College of the Armed Forces, discusses a hyperthermal test facility with John P. Hallowes (right) director of the Physical Sciences Laboratory and Dr. Thomas A. Barr, Jr., (left) Chief of the Plasma Physics Branch. Accompanying the Admiral on the tour was Col. D. F. Shepherd (left center) head of the Directorate of Research and Development.

Six Germans Receive AUSA Recognition

Six German Air Force sergeants were awarded high academic honors here last Thursday as the U.S. Army Ordnance Guided Missile School held its final graduation ceremony of the year.

For averaging better than 96 in a lengthy course on the Pershing ballistic missile system which the West German Republic has purchased from the U.S., Sergeants First Class Seigward Corback, Heinz-Werner Mueller and Dieter Schlegel; and Staff Sergeants Helmut Grund, Erhard Kognietzky and Horst Kutschkau received the outstanding student plaques of the Association of the U. S. Army. Kutschkau outpaced the remainder of his class mates by only a few decimal points with a 97.8.

George Harris, secretary of the local AUSA chapter, made the awards at the ceremony in the Post Theater at which Col. William J. Macpherson, Missile School commandant presided.

The graduates heard German Air Force Lt. Col. Dr. Johann H. Hellmers, his nation's Pershing Missile Project Officer here, cite the growing strength of the Federal Republic's military forces.

Noting that all are assigned to the direct command of the North Atlantic Treaty Organization, the German officer who holds a Ph.D. degree from Bonn University, said his country is approaching a strength of 12 Army divisions.

Col. Hellmers said the Federal

Republic is pledged to the North Atlantic Treaty Organization, to the nuclear test ban treaty and to the maintenance of the closest possible ties with the United States.

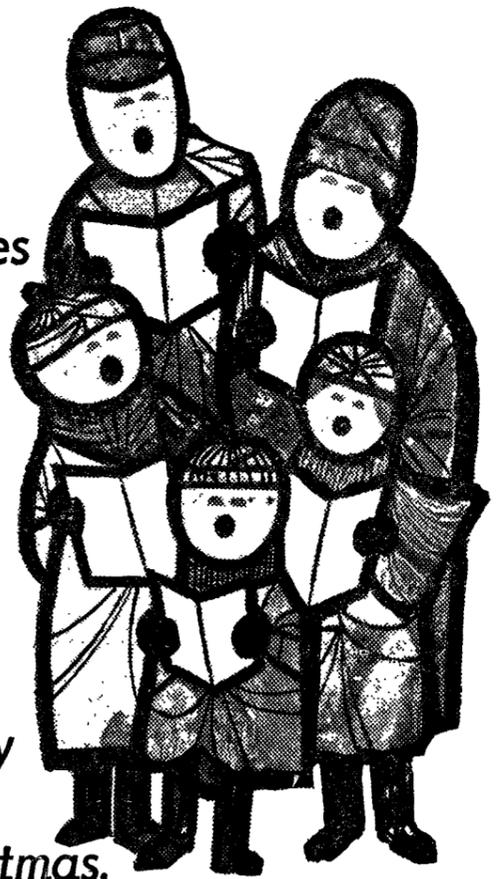
The unification of Europe may be hastened by the growing friendship between Germany and France, he declared, adding that "all problems of European policy now center around the relationship between the French and German

people."

A vast cultural exchange program between the two nations will find 50,000 young people visiting each country next year, he said.

The Defense Petroleum Supply Center, Washington, D. C., purchased 787,600,000 gallons of gasoline for the military during FY 1963—or enough fuel to drive one auto 9,000,000,000 miles.

Best
Wishes
to
all
for a
Merry
Christmas.



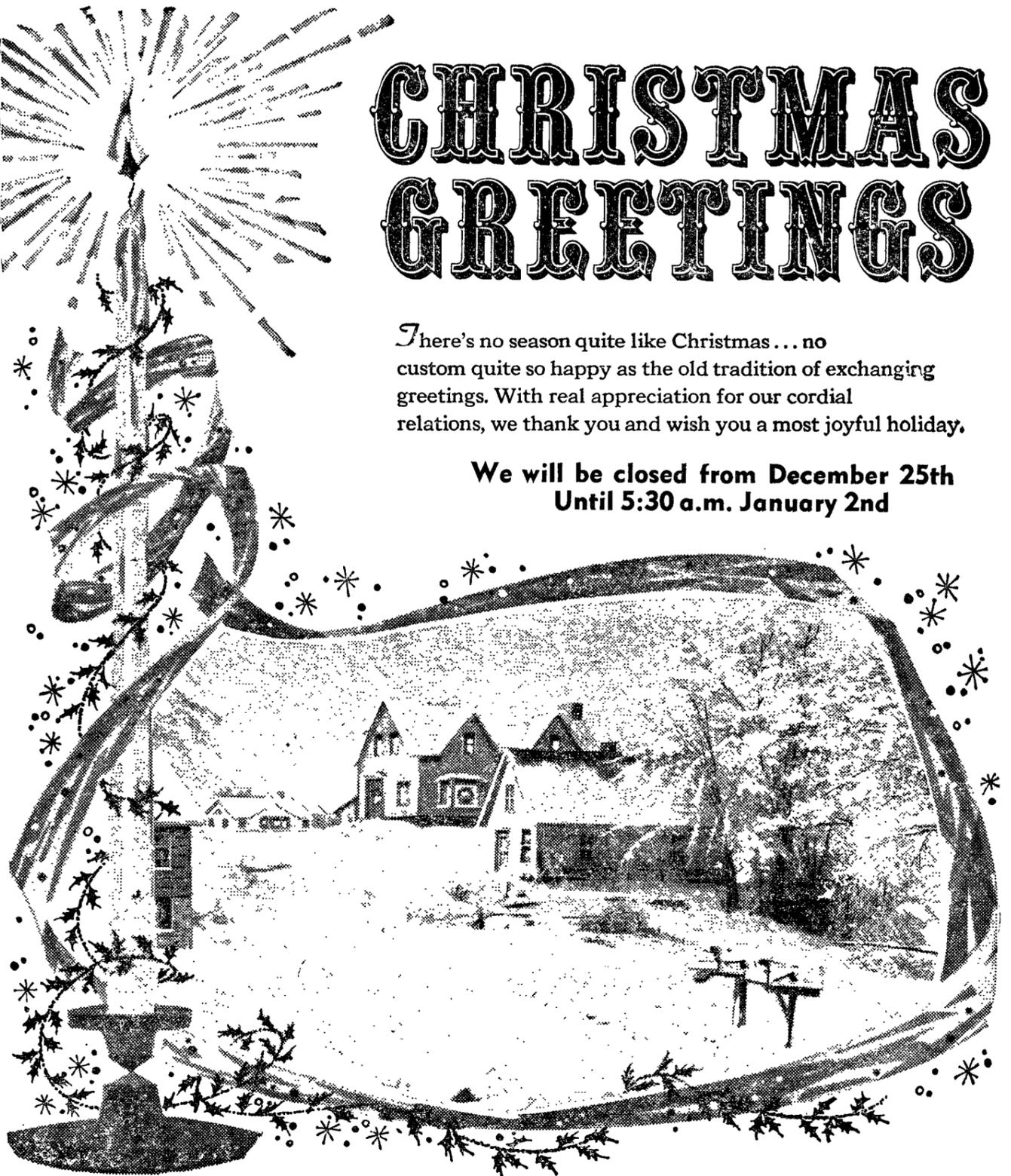
Turner Beverage Co.

Huntsville, Alabama

CHRISTMAS GREETINGS

There's no season quite like Christmas... no custom quite so happy as the old tradition of exchanging greetings. With real appreciation for our cordial relations, we thank you and wish you a most joyful holiday.

**We will be closed from December 25th
Until 5:30 a.m. January 2nd**



THE RITZ CAFE

The Taylors

**LOCAL & LONG DISTANCE
MOVING • STORAGE**



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



Mike Jones

Clark's Barber Shop
Dunnivant's Mall
Governors Drive at Parkway
"Satisfaction Guaranteed
Or Money Refunded"

HUNTSVILLE NEW CAR DEALERS



STAY IN THE CIRCLE OF SAFETY!

SEND SEASON'S GREETINGS TO YOU AND YOUR FAMILY!

In extending our best wishes for happiness during Christmas and the New Year, may we take this opportunity to urge you to join with us in a "Drive for a Safe Holiday!"

We hope you will bring the following holiday safe driving tips to the attention of your family and motoring friends. If enough of us follow these suggestions we will help assure a happier and safer season for all.

Be Alert To Holiday Hazards

Drive in keeping with road, weather and traffic conditions.

Watch Out For Others

Make allowances for unpredictable driver and pedestrian actions. Most holiday accidents involve drinking and speed too fast for conditions.

Don't Push Yourself

Allow plenty of time for your holiday travel. On long trips make frequent stops. Arrive relaxed.

Plan A Safe Drive

Drive with good tires, properly adjusted brakes, lights and turn signals working, windshield wipers and defrosters functioning properly.

Use Courtesy Abundantly

It Pays! "Make Courtesy Your Code of the Road" your holiday resolution.

Full enjoyment of the holiday season is something to which all of us look forward. With this enjoyment goes the individual responsibility to protect your family, yourself, and your community. Let's all DRIVE for a safe holiday.

Cordially yours,

Charles Bentley Oldsmobile, Inc.

88 — F-85 — 98 — Jet Star — Cutlass
Starfire — S-88

Bill Penny Motor Co.

Rambler

Hill Chevrolet Co.

Chevrolet — Cadillac

Lee-Bentley, Inc.

Imperial — Chrysler — Plymouth & Valiant

Universal Motors, Inc.

Volkswagen

Ray-Pearman Lincoln-Mercury, Inc.

Lincoln — Continental — Mercury — Comet

Wilson White Dodge

Dart — Dodge — 880 — Dodge Trucks

Smith Pontiac Co.

Pontiac — Tempest

Stockton Motor Co.

Buick — GMC — BMC

Woody Anderson Ford

Ford — Falcon & Thunderbird

READ THE WANT ADS! USE THE WANT ADS!

WANT AD RATES—\$2.50 minimum, per weekly insertion, covering first 25 words. 8 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 — Dec. 25, 1963

1. For Rent

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

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

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

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

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
Open Monday, Thursday and Friday nights from 5:00 to 9:00 p.m.

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

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

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, steady income and good credit you can buy a home in Love Sub-division V.A. or F.H.A. or we will build on your lot 100% financing. We have a few homes with payments from \$61.00 to \$65.00 per month.
C. F. STINNETT REAL ESTATE BROKER
918 Meridian St., North Phone 536-8537

2. Cars For Sale

LET US TRADE WITH YOU for Christmas. A better used car costs so little from us. Universal Motors, Inc., Used Car Dept. 539-7456. N. Memorial Parkway, Your VW Dealer. tfc

WE WILL PAY TOP MONEY FOR YOUR USED CAR! Come to Universal Motors, Inc., Used Car Dept., just north of Oakwood Intersection on North Memorial Parkway. Your VW Dealer. tfc

WANT MORE FOR YOUR MONEY? Our fine selection of used cars can be bought for \$0.05 to \$0.75 or the original price. We're on North Parkway. Come see for yourself. Universal Motors. Your VW Dealer. Used Car Dept. tfc

FOR SALE—1962 Thunderbird, clean, one owner car, red and white interior, all power with factory air, new tires, \$3400. Phone 876-4708. 12-23c

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

3. Miscellaneous

FOR SALE — 4 tickets to Auburn-Nebraska Orange Bowl game. Call Englert 876-0313 or 582-5449. tfc

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

Governors Drive Barber Shop
2901 Governors Drive
Between Butler High and Parkway
REG. HAIRCUTS — \$1.25
Flat Top Specialists
OPEN 8 TO 8 . . . 6 DAYS A WEEK

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

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.

HUNTING and CAMPING EQUIPMENT
• Hip Boots
• Sleeping Bags
• Insulated Underwear
ARMY-NAVY SURPLUS CO.
112 S. SIDE SQUARE
Phone 534-6991
Open All Day Wednesday and 'Til Late Thursday Night

LET'S PLAY BRIDGE! Join a learner's private club and enjoy learning. Sessions supervised by an experienced and qualified instructor. Register NOW for DAY and NIGHT classes. Registration limited. Phone 881-3615. 12-24

ATTENTION MOTHERS—If you work, enroll your children in the Sunnysdale Private School—Kindergarten through grade 6. Supervision will be provided for play and home work after school until 6 p.m. Accredited teachers, reasonable tuition, special emphasis on phonic, music and speech. For more information, Call 536-8444 evenings, 5 to 10 p.m. tfc

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

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

NEW UHF CONVERTERS \$11.97

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

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

5. Houses, Lots - Sale

FOR SALE—428 Acre Farm located about five (5) miles from Guntersville, no houses, has lots of young timber, corn rent 1963 was more than \$700.00. Price \$45.00 per acre. Call Guntersville 582-3027, 582-5313 or 582-5409. 1-7c

BEAUTIFUL WOODED HOME SITE—On North Meridian Pike just opposite Mt. Sharron Estates, gradual sloping hillside overlooks eastern valley. Pines, cedar and oak garnish this 200 front ft. lot. 1-3/10 acres of natural beauty priced below market value for quick sale. \$4,250. Call 539-8244 or 539-7456. Ask for W. E. Harrison. tfc

FARM FOR SALE — 160 acres with old house more than 1/2 mile overlooking beautiful mirror lake will sell for small down payment, balance at \$50.00 per month plus interest only \$50.00 per acre. Corneliu Real Estate Co., Guntersville, Alabama. Phone 582-3027 or 582-5313. tfc

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.

HUNTING and CAMPING EQUIPMENT
• Hip Boots
• Sleeping Bags
• Insulated Underwear
ARMY-NAVY SURPLUS CO.
112 S. SIDE SQUARE
Phone 534-6991
Open All Day Wednesday and 'Til Late Thursday Night

Universal Motors Inc. Used Car Dept.
Consistently Offers Better Reconditioned AUTOMOBILES!
FORDS, CHEVROLETS PLYMOUTHs, OLDSMOBILEs, ETC.
Also Many Economy Imports and of Course Guaranteed Used Volkswagens.
Your VW Dealer

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., Guntersville, Ala. tfc

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

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

NEW UHF CONVERTERS \$11.97

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

CREATIVE RESEARCH
G
Key
to sound investing

GOODBODY & CO. INVESTMENT BANKERS

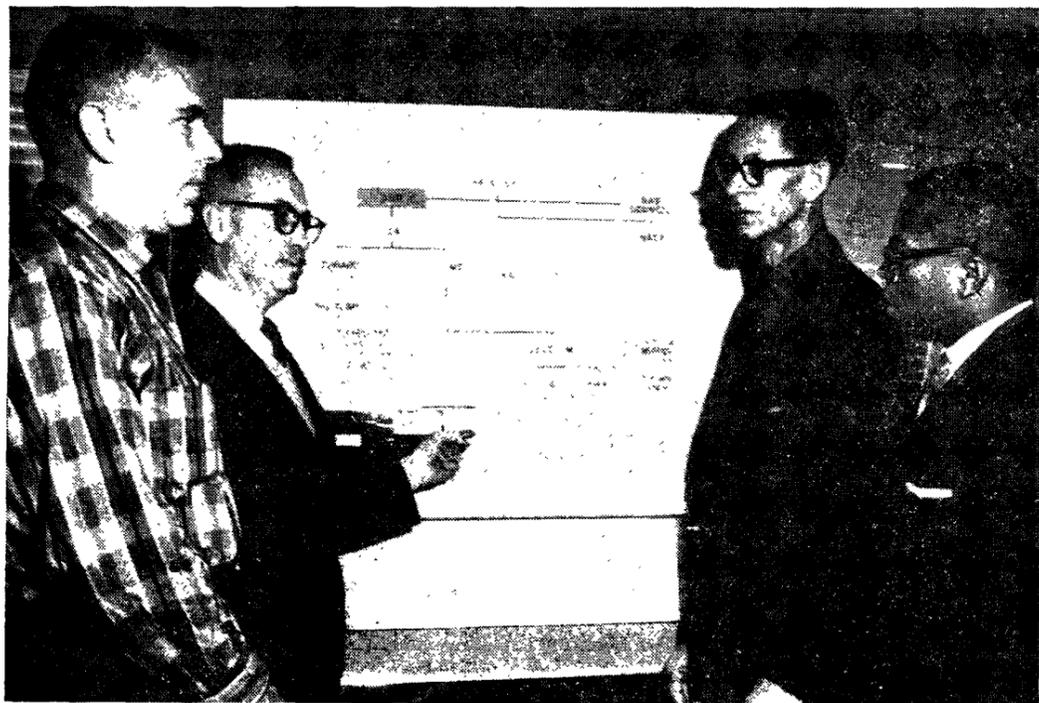
Established 1891
Member New York Stock Exchange and All Leading Exchanges
Suite 5, 401 Lowell Dr., S.E. HUNTSVILLE, ALABAMA 536-9602
353-1070
DECATUR, ALABAMA

WANT MONEY?
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

HAVE YOU OUT GROWN YOUR HOME?
TRADE-IN . . . Your Present Home and Move Up to . . .
LAKWOOD
YOU'RE INVITED To Our Trade-in Program
809's If You Have Out-grown Your Present Home
You can now get a second 809 loan by selling or trading us your present home on one of our beautiful 3 and 4 bedroom with den brick homes.
PHONE: 852-1901
LAKWOOD REALTY, INC.
3611 Memorial Parkway, North

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.
852-0131

RADIATOR SALES & SERVICE
We pick up and deliver. All repairs by Frank Taylor, who has 33 yrs. experience in radiator work. All work guaranteed.
Phone 536-7562
Space City Motors, Inc.
2204 Holmes Ave., N.W. HUNTSVILLE, ALABAMA



VOCATIONAL STUDENTS TOUR—Auto mechanic trainees from the Huntsville State Vocational Technical School recently toured the Army Missile Support Command's automotive shops to study techniques and methods used at Redstone Arsenal. Shown above, left to right, are William M. Wood, and G. V. Piercy, both of the Missile Support Command, and P. R. Ammons, an instructor, and Frederick Atkins, a student at the vocational school.

Trio Study At Ft. Lee

A trio of civilian employees of Redstone Arsenal completed courses at the U. S. Logistics Management Center, Ft. Lee, Va., last Friday and have returned to their assignments in the Zeus Project Office and the Procurement and Production Directorate.

James Anderson, of P & P, was enrolled in the Quality Management Course, while Sherman Roberts and Marvin Dinsmore, both

of Zeus, attended the Army R & D Procurement Orientation Course. Both courses were two weeks in length.

The ALMC is a field activity of the Army Materiel Command devoted to postgraduate level logistics management education. Seventeen courses are offered at the Center in the area of procurement, general supply, maintenance surplus property disposal, requirements and distribution management.

**ARE YOU BUYING OR SELLING?
MORTGAGE LOANS**

Maximum FHA and VA — Maximum Terms
Conventional Loans 5½% - 5¾% — 25 Yr. Terms

W. B. Leedy and Company, Inc.

401 Lowell Dr. Suite 6
Phone 539-3404
Huntsville, Alabama

**Lee Takes Course
At Dugway School**

Leland Lee, of the Research and Development Directorate, was one of a select group of senior Department of Defense personnel enrolled at the U. S. Army CBR Weapons Orientation course concluded recently at the Army's chemical and biological proving ground at Dugway, Utah.

The Chemical, Biological and Radiological Orientation Course was designed to acquaint the personnel with the status of current and future weapons systems.

The subject matter presented included doctrine and concepts of employment relating to new detection devices, protective equipment and decontamination procedures now being developed by the Army.

G. I. SPECIAL

Full Brick, 4 Bedrooms, 2 Ceramic Tile Baths, Separate Dining Room, Large Paneled Den, Built-in G.E. Kitchen Featuring Oven, Surface Unit, Dishwasher, and Garbage Disposal, Centrally Air Conditioned. Located in Southeast Huntsville on Louis Drive. Ready for Immediate Occupancy.

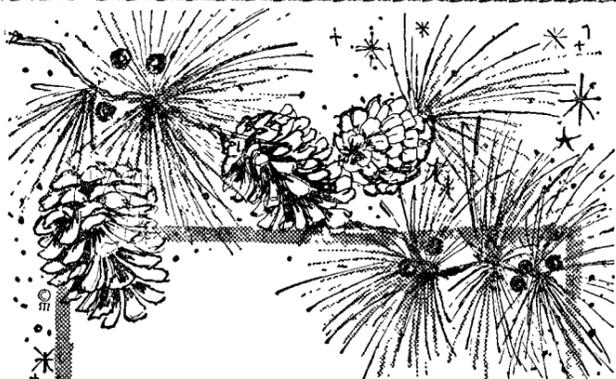
\$22,300

NO MONEY DOWN . . .

NO CLOSING COST V.A.

ENSOR REAL ESTATE

Phone 881-0152



TO WISH YOU

a very merry Christmas, and thank you for your kindness and loyalty is the purpose of this, our sincere holiday greeting.

**STAN CONNELL
TEXAS AUTO SALES
1003 Meridian Street**

BAILEY ESTATES

Located off Patton Road near Arsenal Gate One on Apollo Drive

BEAUTIFUL ALL BRICK HOMES

3 BEDROOMS — 1½ BATHS — HOLLYWOOD STYLE
LEARN TO APPRECIATE VALUE IN DESIGN AND HEAVY CONSTRUCTION . . .

MIN. DOWN **\$15,500** 100% VA
FHA \$500.00 F.H.A. — No Down Payment

Merritt and Raines

REAL ESTATE

4601 Triana Blvd. — Call 24 Hours — Phone 881-4290

Decatur

HIGHLAND PARK

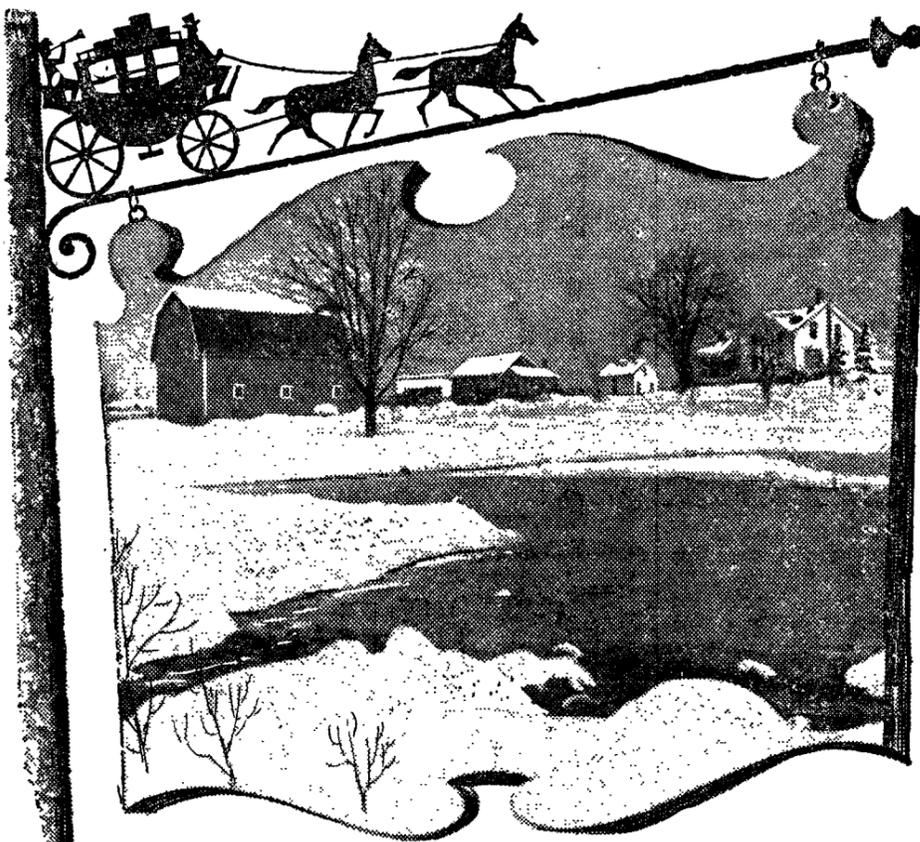
This beautiful new brick show home will be sold for \$19,650.00 in this low price. There are following many features and extras: Fully equipped kitchen includes disposal, oven, surface unit, dishwasher and refrigerator. All color toned. Laundry contains washer and dryer. 3 bedrooms, 2 ceramic tile baths, large paneled den, central air condition. The many rooms of decorator furniture will be given to the purchaser at no additional cost.

Low Dn. Pmt. No Dn. Pmt.

FHA V.A.

\$150.00 Closing

See at 1007 - 8th Ave., S.W., or Pho. Decatur 353-3474



**CHRISTMAS
GREETINGS**

As an expression of our thanks and good will, we extend to friends, old and new, our best wishes for a joyous Christmas and a holiday season filled with good cheer.

THE MANAGEMENT AND EMPLOYEES

BILL PENNEY RAMBLER

529 Meridian Street

Brand 'X' Develops From Zeus

This was the year Zeus switched to Brand "X."

Brand X being, of course, not the product that leaves grease on your hair, but the Army's new Nike X Anti-missile System.

The switch meant big things in 1963 for the Nike Zeus Project Office here.

It meant, among other things, having the highest national priority and becoming a Class II Activity.

Nike X is also the Army Materiel Command's highest funded single missile system project.

This was also the year that the Nike X test installation at Kwajalein Island in the Pacific scored seven times against special target ICBM nosecones, according to the official Department of Defense tally.

Nike X Born

The big news came in early January when Secretary of Defense Robert McNamara announced that the Nike Zeus System would be redirected. The advanced version was to be called, for the time being at least, Nike X.

Immediately the question was: "What will Nike X be like?" Fragments of the answer have been falling in place all year.

The Nike Zeus Project Office became a Class II Activity on March 1 with a strength of some 250 civilian and military personnel.

It was far from being cut apart completely from the Missile Command, however. Instead, the Project continues to depend heavily on the Command for administrative and technical support.

It became known that the Nike X System would include a new type radar, called a Multi-function Array Radar (MAR), and a high acceleration missile called Sprint. Sprint will be shorter than the 42-foot Zeus Missile. Both missiles will be used in the Nike X System, giving it a wide latitude of intercept capabilities.

Contractor Selected

In mid-March the Martin-Marietta Co. at Orlando, Fla., which developed the Army's successful Pershing Missile System was selected as the sub-contractor to develop Sprint.

Two weeks later DOD announced that the Nike Zeus had made its first intercept of the new year—and the fourth in the string. The target had been boosted from Vandenberg Air Force Base by a Titan I Air Force ICBM.

Another intercept was announced in late May—at nearly the same time that the first photographs were released of such an intercept. The photographs were historical in that they provided the first visual evidence of the successful intercept of an ICBM nosecone by another missile.

On June 12 Col. I. O. Drewry, the Project Manager, announced that Col. Glenn Crane—a veteran in ballistic missile defense was returning to take over the Kwajalein operations. Col. Crane succeeded Lt. Col. Edward Dooley who became the chief of the Project Manager's Staff Office in Washington.

On June 14 DOD announced the sixth Zeus intercept. The seventh followed on July 12—a week short of the anniversary of the first intercept on July 19, 1962.

Col. Braid Named

In late July the Project lost Lt. Col. William Nelson, the Deputy Project Manager, to the Army War College and got in return Col. Robert Braid, the tall Commanding Officer at Watertown Arsenal.

Two intercepts were announced in rapid order in August. One came on Aug. 26 and another four days later. The first involved a Titan launched target, the second an Atlas boosted vehicle.

Construction Slated

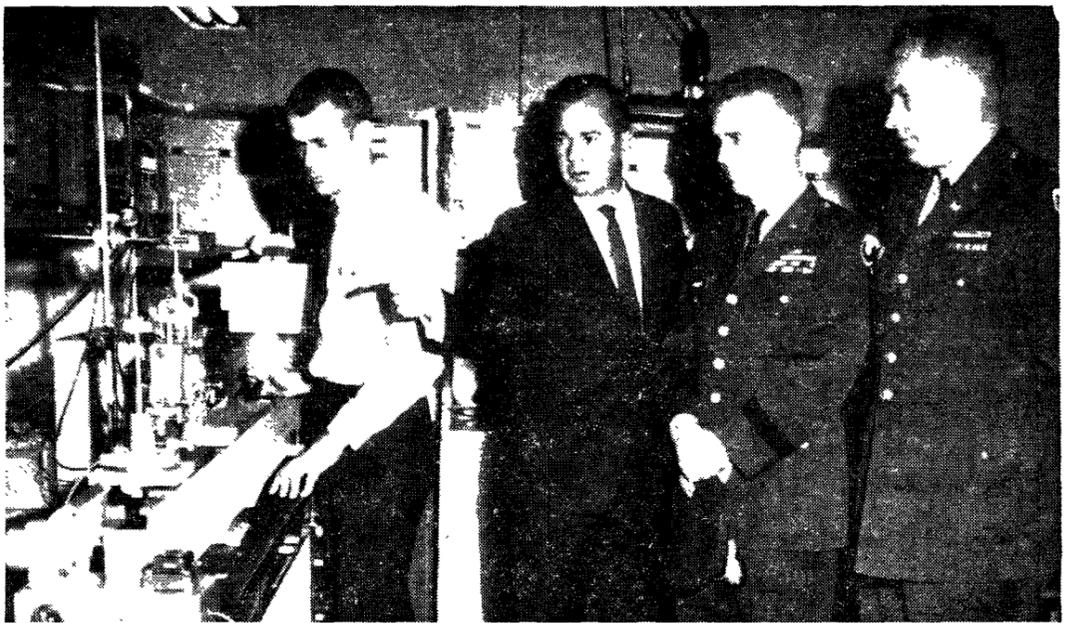
A third full Colonel was added to the Project front office in mid-August. With a vast amount of

construction slated at Nike X test sites both in the U. S. and overseas, Corps of Engineers Col. William Roedy was detailed to the Project for technical assistance. Col. Roedy came from the Office, Chief of Engineers in Washington.

"And, on Oct. 1, Bill Turney, the Project's head of contract services, beamingly confirmed that negotiations had been completed on the Army's largest missile contract. The sum: \$213.3 million; the recipient: prime contractor Western Electric. It was to cover development of the MAR, Sprint and other components of Nike X for the coming year.

Thanksgiving Day brought thanksgiving for the 10th successful intercept.

The year was rounded out with an announcement by the Project that it had reached a major milestone with the final development firing of a Zeus missile at White Sands Missile Range. The series, including more than 70 firings, had stretched back to August of 1959. Firings will continue at Kwajalein.



ELECTRO-OPTICAL RESEARCH NOTED—Brig. Gen. William C. Gribble, Jr., right center, hears about electro-optical advances being made in the Army Missile Command during his visit to Redstone Arsenal. The General is chief of the Development Division in the Army Materiel Command's Research and Development Directorate. Describing the activities is Lonnie McCluskey (left center), a research physical scientist in the Electromagnetic Laboratory. At the left is Physicist Buford Jennings. Maj. R. J. Lamp is on the right.

**Best Wishes
for a
Happy Holiday
from
All of Us
to
ALL OF YOU!**



Dunnivant's

Huntsville BORN, Huntsville OWNED, Huntsville MANAGED