

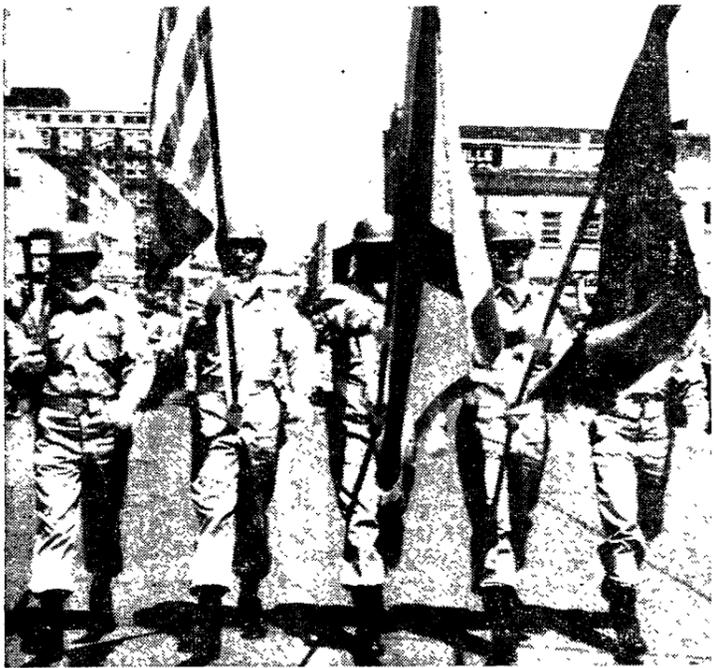
# The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Hartselle, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisement in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. IX; NO. 3

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MAY 25, 1960



HERE COME THE COLORS—Smart-stepping color guard leads the way for marching troops, bands, and floats in Huntsville's Armed Forces Day parade, as crowds throng the city streets Saturday.

## General Laidlaw Retires June 30

### His Career Began In Ohio Guard Unit

Maj. Gen. W. E. Laidlaw, Commanding General of White Sands Missile Range, will retire after 34 years of Army Service, on June 30 according to a recent announcement from DA.

Gen. Laidlaw assumed command of the Missile Range in February, 1956 and remained as the commander after White Sands became an element of AOMC.

He graduated from the U. S. Military Academy in 1922 and later received a bachelor of science degree in Mechanical Engineering from the Massachusetts Institute of Technology. He is also a graduate of the Ordnance School.

Gen. Laidlaw began his career as an Infantry officer. He served with the 10th and 31st Infantry Regiments at Ft. Thomas, Ky. From 1926 to 1931 he was in the Philippines.

In 1931, Gen. Laidlaw was detailed to Ordnance and went to Picatinny Arsenal.

He served with the First Cavalry from 1933-36 at Ft. Bliss, Texas as troop training, supply and maintenance officer.

From 1937-39, he was Assistant Chief, and Chief of the Military Organizations and Publications Division in the Chief of Ordnance's office.



MAJ. GEN. W. E. LAIDLAW,

\* \* \*

From there he went to the New York Port of Embarkation to be Ordnance Officer in the Overseas Supply Division. He remained there until 1945 with the exception of time spent in Europe during 1944.

Following his assignment, Gen. Laidlaw became Ordnance Officer for the Overseas Supply Division at San Francisco where he remained for a year.

(See RETIRE on Page 2)

## Huntsville Residents Are Honored by U. S. Army

### City's Support Is Extraordinary Says Citation

The United States Army today honored the 70,000 residents of Huntsville — perhaps the first time that an entire city has received such recognition.

Lt. Gen. J. H. Hinrichs, Chief of Army Ordnance, presented a Certificate of Appreciation for Patriotic Civilian Service, to the city.

Gen. Hinrichs made the presentation following his Armed Forces Day speech. Mayor R. B. Searcy received it on behalf of the people of Huntsville. The Certificate was signed by Secretary Wilber Brucker and General Hinrichs.

The citation accompanying the Certificate reads as follows:  
From 6 October 1941 to the

present, the City of Huntsville, Alabama has rendered extraordinary service to the Ordnance Corps, United States Army, in support of the activities, programs and personnel of Redstone Arsenal, the Army Rocket and Guided Missile Agency, the Army Ballistic Missile Agency, the Army Ordnance Missile Command, the Ordnance Guided Missile School and to the Ordnance contractors operating Government-owned facilities on the installation.

From January, 1956, through December, 1959, when a rapid influx of military and civilian personnel occurred during the build-up of Ordnance programs and activities, the City reacted in a most progressive, co-operative and intelligent manner. Unprecedented demands upon the municipality (See CITY HONORED, Page 2)

## POST SWIMMING POOL OPENS NEXT SATURDAY

The Post Swimming Pool will officially open for the summer swimming season on Saturday May 28 at 10 a.m., Maj. O. E. Hufnagel, Special Services Officer, announced today.

A recreation area, equipped with tables, bar-b-que pits and swings, located below the pool basin may be utilized by personnel under the normal pool schedule on a first-come, first-served basis.

This Special Services activity will be available under the same operating hours as last season, Monday through Saturday from 10 a.m. to 8 p.m. and Sunday and holidays from noon until 8 p.m.

Enlisted personnel, dependents and guests will swim on even calendar days and officer personnel, dependents and guests will use the facility on odd calendar days.

## AER-ARS Fund Drive Enters Second Week

Army men are being contacted to support the joint Army Emergency Relief—Army Relief Society fund campaign for 1960. The drive began May 16 and ends June 30.

The AER gives assistance to Army members and their families to relieve distress. Usually the assistance is in the form of a loan. The ARS aids needy widows and orphans of regular Army personnel.

Both groups help make the old Army slogan "The Army Takes Care of Its Own" come true, according to this year's chairman, Maj. Lloyd T. Deppensmith.

### ENGINEERS TO TRAIN

At the regular meeting in August 1960 the Northeast Alabama Chapter of the National Society of Professional Engineers will sponsor an "Engineers-in-Training Night."

It is requested that all military and civilian Engineers in Training stationed or working on the Arsenal forward their names to JOHN D. BEAL, JR. Ext 3-2060 or JE 6-8526.

## Gen. Hinrichs Pledges Support of His Office

### He Predicts AOMC Will Benefit From Realignment

Lt. Gen. J. H. Hinrichs, Chief of Ordnance, told a group of 400 key people at the Arsenal Monday morning that his office will give full support to the missions and programs resulting from the realignment in AOMC.

He also told the group assembled in the Rocket Auditorium, that the Secretary of the Army and the Chief of Staff of the Army had given him assurance that support would come from those offices.

Gen. Hinrichs said, "We are going through a period at this time that is slightly fraught. It is fraught on the international front and it is fraught on the home front."

"I believe that in spite of that situation, it is possible for us to continue to develop and grow as this organization (AOMC) was intended to grow."

"I think it is quite within the realm of possibility and probability that as a result of the work done here, we can provide a stronger, more effective organization, (or shall I say pair of organizations), for the greater benefit of this country and of a free world."

Gen. Hinrichs expressed admiration for the work done by Dr. Wernher von Braun and his group. He said the decision (to transfer the group to NASA), has been made and accepted "and we expect to work with it."

He also pointed out that his faith in a stronger AOMC organization encompassed the efforts of not only the people who were gathered to hear him speak but of all the people engaged in providing "the best in rocket and missile weaponry so essential to our defense."

Gen. Hinrichs mentioned that at Project Man recently, not only he, but President Eisenhower and other high ranking Defense and Security Council officials had the "opportunity to see the work which some of you designed and brought to fruition. That particular show made a tremendous impression." (See PLEDGES on Page 3)

## Third Pershing Test At Cape Canaveral Is Complete Success

The Army last week successfully fired its newest and longest range surface-to-surface missile, the Pershing, for the third time at the Atlantic Missile Range.

Army spokesmen said that all test objectives for the firing were met.

The first Pershing missiles were successfully fired on Feb. 25 and April 20, and from a test standpoint, the report listed the April firing as "near perfect."

The two-stage solid propellant Pershing missile is now under research and development by the Martin Company at its Orlando, Fla., plant.

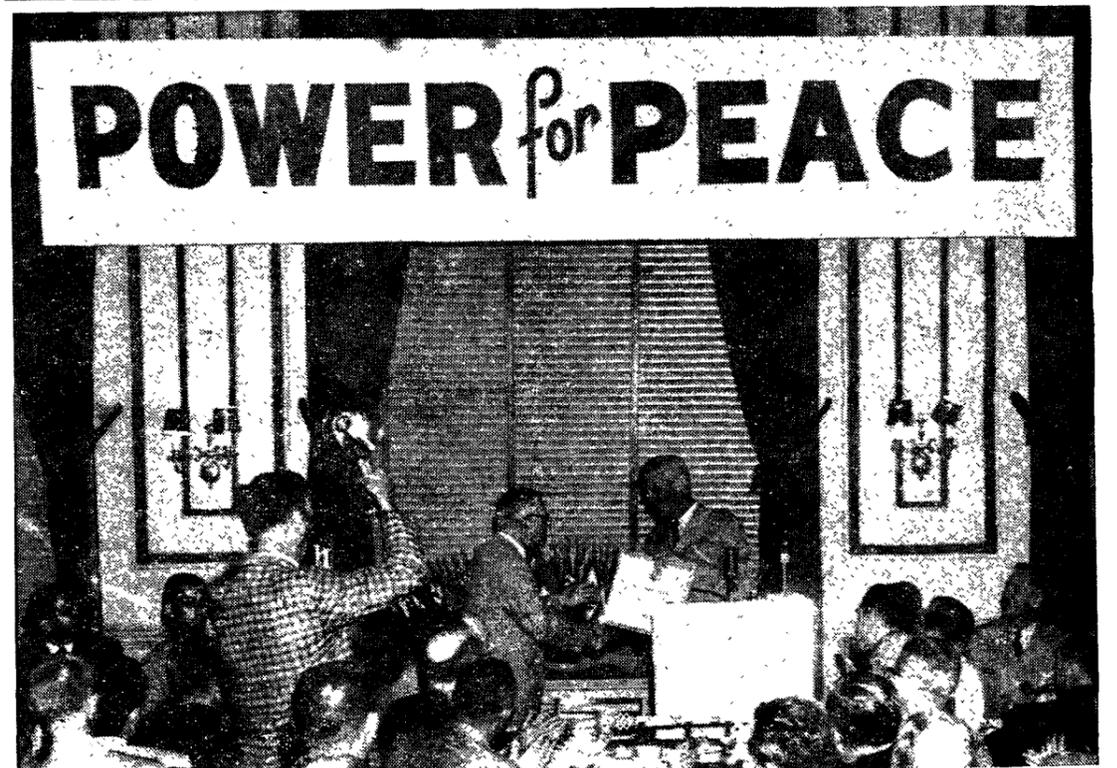
The test objectives were similar to those of the first two firings. As in the earlier firings, just the first stage was fired with a second stage weighted to simulate an actual missile. Also, instrumentation was carried in the nose cone. No stage separation was attempted and range again was no objective.

Using an inertial guidance system by ABMA, Pershing will be able to direct itself onto a target without the possibility of outside interference.

The Pershing guidance system combined with a nuclear warhead will add considerably to the Army's capability for accurate application of firepower on selected targets. The Pershing will provide the Field Army with long range fire support. The most significant new features of the Pershing weapon system are its high mobility and fast reaction time.

By using a specially designed transporter - erector - launcher (TEL), which is transported on the Army's new XM 474 tracked vehicle, Pershing can be transported to a site, erected and fired in a matter of minutes. The entire system is also air transportable.

Tactical prototypes of the TEL have been used successfully in all (See THIRD on Page 2)



ARMY HONORS CITY—The United States Army today honored the 70,000 residents of Huntsville—perhaps the first time that an entire city has received such recognition. Lt. Gen. John H. Hinrichs (right), Chief of Army Ordnance, is shown above presenting a Certificate of Appreciation for Patriotic Civilian Service to Huntsville Mayor R. B. Searcy. The presentation followed Gen. Hinrichs' Armed Forces Day speech Saturday in the "Rocket City." The certificate was signed by Army Secretary Wilber Brucker and Gen. Hinrichs. Banner above speakers' table shows AFD theme, "Power for Peace."

# The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday at no expense to the Government by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

The Rocket is NOT an official or semi-official Army or Ordnance Corps publication. Policies and statements reflected in the news and editorial columns represent the views of the individual writers and are not necessarily those of the Department of the Army, the Ordnance Corps, or any organization at Redstone Arsenal, Alabama. Appearance of advertisements in the Rocket does not constitute an endorsement of the advertising matter by the Department of the Army, the Ordnance Corps, or any organization at Redstone Arsenal, Alabama.

The publisher will receive editorial content for publication in the Rocket only through the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama, Bldg. 4505, Extension 2722. All advertising copy and payments therefor are received by Mrs. Zillah Newsome, 311 Holmes Ave., N. E., Huntsville, Alabama, P. O. Box 346, telephone JE 4-4701, as representative of the publisher.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.00 a year, or \$2.75 for six months. Mailing arrangements may be made with the publisher.

## To Retire

(Continued From Page 1)  
His new assignment was as Assistant Chief of Staff for Logistics in the Continental Base Section of the European Command during 1946-47. He then became Ordnance Officer in the Fourth Army at Ft. Sam Houston. He remained at that post from 1947 to 1951.

In 1951, Gen. Laidlaw went to the Ordnance School at Aberdeen Proving Ground, first as assistant and later as Commandant.

His promotion to brigadier general was confirmed in April, 1952. The same year, the general became Deputy Maneuver Director of LOGEX-52 at Camp Pickett, Va. His promotion to major general was effective in December, 1955.

Among his decorations, Gen. Laidlaw has been awarded the Legion of Merit and the Army Commendation Ribbon.

The general was born at Cincinnati, Ohio in 1903 and began his military career while at Hughes High School in Cincinnati. He served with the 147th Infantry of the Ohio National Guard; then entered the U. S. Military Academy in 1922.

## Third

(Continued From Page 1)

three Pershing firings to date, proving the feasibility of this type of equipment.

## MILITARY HISTORY NOTE:

On March 13, 1942, dogs were first officially inducted into the Army when Undersecretary of War Robert P. Patterson approved an application of the Quartermaster General. This branch became known as K-9 Corps. Today, 18 years later, suitable dogs are needed for use in guarding the Modern Army's missile sites.

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## Sometimes Nature Takes a Hand In Avoiding War

SAMOA (AFPS) — The Pacific War—you think immediately of the great struggle touched off by the bombing of Pearl Harbor. But 73 years ago the United States came close to fighting another Pacific war—and she might have, too, if Nature hadn't stepped in.

It all began over a bunch of bananas, but this was only a pretext to create an "incident." The trouble-maker? — Imperial Germany who had her eye on all of the 12 Samoan Islands which were then under joint American-British-German protection.

Conveniently, a German plantation owner on the island of Upolu accused the natives of stealing his bananas and hauled their chief into court, threatening him with imprisonment unless he produced the guilty parties and coughed up \$12,000.

He backed down temporarily when the American and British consuls objected, but not before a German cruiser had dropped anchor to protect that country's interests.

Events were building up to a real scrap. In August 1887 there were five German warships in Apia Harbor and martial law was imposed. That did it. The natives revolted.

Washington, which recognized the German power play for what it was, rushed four ships to Samoa. One of them, the gunboat Adams, commanded by a Capt. Leary, got there just as the Germans were shelling the beach. Leary was warned by the Germans to keep out of the fracas, but instead the intrepid skipper sailed his boat between the Germans and the shore. The Germans didn't fire.

But bad feeling persisted between Germany and this country. On March 15, 1889, we were on the brink of war; three American on British and three German warships were off Apia, spoiling for a fight.

And nature had a chip on her shoulder too. A hurricane roared in and lashed Apia day and night, driving ships in the harbor onto its rocks and reefs. In this SOS situation, political grievances counted for little.

Only two ships survived the storm, a German cruiser and the British Calliope. The toll in lives was 91 Germans, 53 Americans. It would have been much higher if the Samoan natives hadn't formed a human rescue chain in

ARMY MISSILE MARCH: One year ago, in April 1959, the "American Mariner," a covert Liberty vessel, was put into operation in connection with Project DAMP (Downrange Antimissile Measurement Program.) The ship is equipped with advanced electronic equipment to track ballistic missiles fired over the Atlantic Missile Range.



## The Department of the Army The City of Huntsville, Alabama

### Certificate of Appreciation

given under my hand in the City of Washington  
this 21st day of May 1960

*J. M. Harriote*



*Walter M. Patterson*  
Secretary of the Army

## PATRIOTIC CIVILIAN SERVICE CERTIFICATE

### City Honored

(Continued From Page 1)  
for all types of services: educational, sanitary, social, economic, industrial, religious, health and welfare were effectively satisfied with a minimum of delay.  
The warm hospitality extended

Policeman: "Why didn't you stop when I blew my whistle."  
Lady driver: "I'm a little deaf."  
Policeman: "Don't worry, you'll get your hearing tomorrow."

FREEDOM'S FOUNDATION Award Winner, Army Lt. Col. E. A. Grambort wrote: "Whatever one's dream, there is no land on earth where it has a better chance of coming true than in the United States of America" . . .

by the people of Huntsville helped to create a friendly environment which enabled Ordnance to recruit and retain the scientific and professional personnel necessary to carry forward advanced technology in many fields related to the development, procurement and support of weapons systems, and to accomplish the training of troops to maintain those systems, urgently required for the national defense.

In recognition of this continuous of patriotic interest of the highest order and in the finest traditions of this country, this Certificate of Appreciation for Patriotic Civilian Service is awarded to the City of Huntsville and presented to its Mayor, Mr. R. B. Searcy, in token of the Army's esteem.

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— FOR THE PATIO —

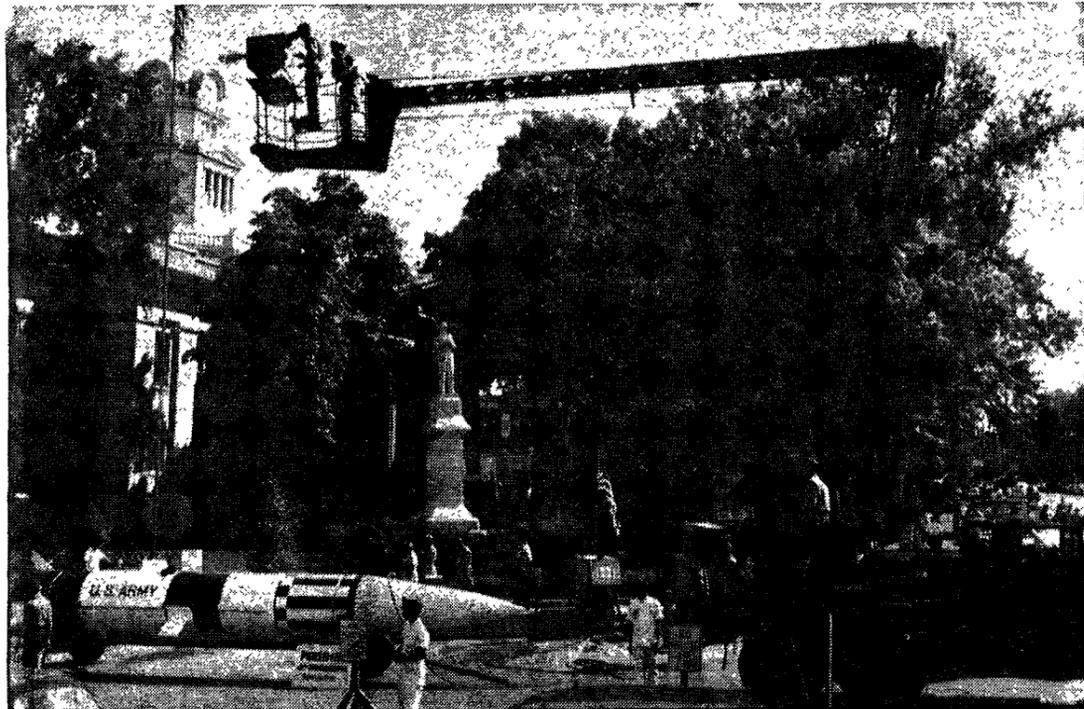
New Congo Butterfly Chairs, Choice of colors.

## SOUTHERN EXCHANGE STORE

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**PERSHING**—One of the Army's newest missiles, the Pershing, is shown on display at the Huntsville courthouse square during the "Rocket City" celebration of Armed Forces Day today. It was the first public showing in this area of the Pershing. Four other missiles—the Nike Zeus, Sergeant, Redeye, and SS-10 and 11—were also exhibited for the first time here. A cameraman uses a Corporal missile service platform for a vantage point to photograph the extensive Armed Forces Day displays.

**COL. HURST TELLS ROTARIANS ABOUT ABMA'S FUTURE**

The Army Ballistic Missile Agency's estimated budget for fiscal year 1961 will be \$484,000,000, Col. Richard M. Hurst, ABMA Commander, told a Rotary Club gathering today (May 17) at the Russell Erskine Hotel.

"Of this amount," Col. Hurst added, "\$34,700,000 will be devoted to our in-house operations at Huntsville. The remainder will go to contractors across the nation . . ."

Col. Hurst, who noted that the Agency was currently recruiting 300 engineers to replace those being transferred to the National Aeronautics and Space Administration, said that \$18,000,000 of the funds earmarked for in-house use would be spent for ABMA salaries and related personnel costs.

As to the future, he said: "The contributions and achievements of the past will become the strong foundation upon which the ABMA organization of the future will be built. The challenge is as great, if not greater, than that faced in the spring of 1956, when the Agency was first formed.

"Today we have the advantage of four years of production, procurement and management operations as a team which did not exist when ABMA was formed," he continued. "This competence is not diminished by the transfer of technical research and development personnel to NASA."

"The new ABMA which will exist after July 1," he explained, "has an important role to perform in supplying our field Army and our sister services with the modern weapons systems demanded by their combat roles."

Col. Hurst said that ABMA's future mission will include "the full systems responsibility for research, development, procurement, and field support for surface-to-surface missiles and rockets whose flights are predetermined or pre-programmed, and which are essentially ballistic systems."

Specifically, ABMA retains the Nike Zeus targets, Redstone, Jupiter and Pershing missile programs for which it was previously responsible. In addition, he added, the Agency will be responsible for the Corporal, Sergeant, Honest John, Littlejohn, LAW, Missile A and Missile B.

"Because of prevailing international conditions today," Col. Hurst said, "our aim is to maintain sufficient ready forces to deter war if possible and to win if war is suddenly thrust upon us. It is against our national character to engage in preventive war even when faced by an aggressive and untrustworthy potential adversary. But we must insure by word and action," he stressed, "That this adversary and our allies alike are convinced that this Nation will react to aggression with sure, prompt, and measured armed force."



**NAVY'S GOAT JOINS PARADE**—Navy goat, mascot of U.S. Naval Reserve of Huntsville, almost steals show in Huntsville's Armed Forces Day parade Saturday. Just so mascot doesn't get hungry and start chewing up flags, a small-fry friend tags along with a box of "goat food."

**Pledges**

(Continued From Page 1)  
pression on many . . .  
"I feel the future of AOMC and Ordnance is assured," Gen. Hinrichs said.  
Gen. Hinrichs was at the Arsenal as the guest of Gen. Schomburg on Friday for reviews of present and projected programs at AOMC.

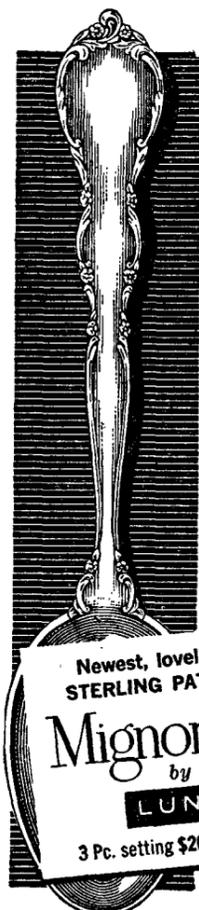
On Saturday he participated in the Armed Forces Day celebration in Huntsville and was the principal speaker.

His address Monday morning came just before he returned to his office in Washington.

**ARMED FORCES DAY**

The Annual Armed Forces Day exhibit in the Washington, D.C. area was recently held at Andrews Air Force Base on May 14-15. Among the exhibits were many missiles under the responsibility of the Army Rocket and Guided Missile Agency, including Nike Ajax, Nike Hercules, Corporal, Sergeant, Redeye, Honest John, Littlejohn, Hawk and Nike Zeus. The full scale Zeus exhibit was only the second time that the missile had been displayed.

**SAD DATA:** There's a long line of statistics that absolutely prove locomotives are not afraid of automobiles . . .



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- 1956 Studebaker 4-Dr. V8 ----- \$645.00  
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- 1956 Buick 4-Dr. Special ----- \$895.00  
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- 1956 Ford 2-Dr. V8 ----- \$695.00  
Radio, heater, auto. trans.
- 1955 Buick 2-Dr. Hardtop ----- \$545.00  
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- 1954 Ford 2-Dr. V8 ----- \$545.00  
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- 1954 Pontiac 2-Dr. ----- \$295.00  
Radio, heater.

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# Social News

## Officers Wives Club Will Install Officers June 7

Installation of new officers will highlight the luncheon to be held June 7, by the Redstone Arsenal Officers Wives Club.

In addition, Walter Wiesman of the Army Ballistic Missile Agency will show slides and discuss the background and production of the movie "I Aim at the Stars," which is based on the life of Dr. Wernher von Braun.

New officers to be installed include Mrs. Herman Rabinowitz, president; Mrs. Charles Hall, vice president; Mrs. Young Moore III, recording secretary; Mrs. O. E. Hufagel, corresponding secretary, and Mrs. O. D. Street III, treasurer. They were elected during a business meeting held by the club earlier this month and will replace Mrs. W. F. Kaiser, Mrs. Glenn Crane, Mrs. John Palsrok, Mrs. R. N. Brewer, and Mrs. A. E. Dean, respectively.

Reservations to attend the luncheon, which will be held at the Officers Club beginning at 12:30 p.m., should be made not later than noon Friday, June 3, with Mrs. W. E. Andruss, etc.

## Joe Aschauer Takes Best Speaker Prize

Joe Aschauer of OGMS was voted best speaker of the evening during the regular meeting of Huntsville Toastmasters 1972.

He was presented the trophy by last week's winner, Emil Wasilowski. The slate of speakers for the evening also included Jim Blanche and a guest speaker, Bill Green of Redstone Toastmasters Club.

Business conducted by the club consisted of the finalization of plans for "Ladies Night", a special program directed toward entertaining lady guests, scheduled for the evening of May 26th. In addition, three new members were inducted into the club. They were Jim Bailey, Roger Weber and Richard Heldtderk.

Huntsville Toastmasters 1972 presently has a limited number of vacancies for membership. Anyone desiring to be considered for membership should contact Bill Thompson at JE 6-5536, extension 486, or JE 9-4628 after 5:00 P.M.

## Welders to Have Dinner Meeting

The May meeting of the Huntsville Section of the American Welding society will be held on Thursday May 26 at Dale's Restaurant on Memorial Parkway.

Dinner will be ordered from the menu at 7:00 p.m. with the Technical Session at 8:00 p.m.

Howard Burns, Thiokol Chemical Corp., will present a talk entitled "Recent Developments in Welding Techniques for High Strength Rocket Cases".

For further information call Daniel M. Daley at JE 6-9508.

## Georgia Tech Alumni Plan Stag Meeting

The N.E. Alabama Chapter of Georgia Tech Alumni Association will have a dinner meeting at the VFW Club on Thursday evening May 26.

Dr. J. E. Boyd, Director of the Georgia Tech Experiment Station will be the guest speaker and will talk on Research at Georgia Tech. This will be a stag meeting, and the nominating committee will present the nominations for election of new officers.

Social hour from 6:00 to 7:00 p.m. Dinner will be served at 7:00 p.m.

Reply cards are being mailed to members on the mailing list. Reservations may also be made by calling Pete Redding, secretary, at JE 6-1376 or RSA Ext. 3-2928.

5-8762, Mrs. M. L. Hanson, etc. 5-7654, or Mrs. C. A. Boterf, JE 6-8893. Cancellations will be accepted until noon Monday, June 6, by Mrs. G. L. Barnhill, etc. 5-8456.

Nursery reservations can be arranged by calling etc. 5-8745.

## Mrs. Macy Captures Party Bridge Prize

Mrs. R. S. Macy captured first prize during the party day held Thursday by the party bridge group of the Redstone Arsenal Officers Wives Club at the Officers Club. There were nine tables in

## NCO Wives Sponsor Annual Bar-B-Q

The NCO Auxiliary will sponsor their annual "Free Family Bar-B-Q" Sunday, May 29th at the boat docks. Chicken, hot dogs, chips, pickles, and potato salad will be served. Drinks will be available at a nominal fee.

All Auxiliary members and their families who made reservations are reminded that serving will begin at noon and continue until everyone is served. Guests of members will be welcomed, but will be charged \$1.00 for adults and 50c for children.



**HONORS MRS. HINRICHS**—Mrs. R. B. Searcy (right) wife of Mayor Searcy of Huntsville, presents a white orchid corsage to Mrs. J. H. Hinrichs, wife of Lt. Gen. Hinrichs, Chief of Ordnance, as Mrs. August Schomburg, wife of Maj. Gen. Schomburg, Commanding General, AOMC, looks on. The presentation took place during a buffet luncheon held today in Mrs. Hinrichs' honor by Mrs. William H. Stevens, wife of the Huntsville Armed Forces Day chairman, at her home. Luncheon decorations were carried out in an Armed Forces Day theme with blue daisies, white stocks, and red roses used as a centerpiece for the main table.

play. Other prizes awarded during the event included slam prizes, going to Mrs. J. A. Myers and Mrs. R. B. Love, and traveling prizes, going to Mrs. R. D. Scalzo and Mrs. E. M. Krembs

The party bridge group meets weekly on Thursdays from 10 am. until 2 p.m. at the Officers Club. All members of the Wives Club are invited to participate. Reservations should be made not later than noon on Wednesdays with Mrs. R. W. Fleagle, JE 6-8653.

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## COL. J. P. STAPP TO ADDRESS ARS TOMORROW NIGHT

Col. John P. Stapp, USAF, a pioneer in the field of aero-space medicine, will address the semi-annual dinner meeting of the Alabama Section of the American Rocket Society at the Huntsville Golf and Country Club, May 26, at 6:30 p.m. (CDT). Col. Stapp will be speaking on "The Challenge of Space."

Sometimes called the "fastest man on Earth," Col. Stapp rode a rocket-propelled sled at 622 miles per hour (1954) in one of a series of tests to determine the effects on pilots bailing out of an aircraft at very high altitudes and at supersonic speeds. During this test, Col. Stapp's sled was braked to a halt in 1.4 seconds, imposing an average force on his body 25 times that of gravity. The highest load imposed during the sudden stop was 40 "g's".

In earlier tests of the series Col. Stapp rode the sled at speeds of 421 miles per hour and 502 miles per hour.

Among his research projects, Col. Stapp has conducted very high altitudes, unpressurized flight tests of a liquid oxygen breathing system; studies on the effect of windblast, including a flight in an F-89 with the canopy removed; and human deceleration studies including 76 experiments involving manned runs of a rocket powered sled.

Col. Stapp was a volunteer for 29 of these tests. In the course of these experiments he sustained two arm fractures, rib fractures, retinal hemorrhage, and moderate degrees of concussion; but succeeded in exploring human tolerance to crash type forces, establishing human limits considerably in excess of aircraft specifications.

The recent Man-High balloon flights which carried Maj. David G. Simons to an altitude of 102,000 feet, were also under his direction.

The colonel was named Chief of the Aerospace Medical Division, Wright Air Development Division, Wright-Patterson Air Force Base,

## Thiokol Men Will Present Papers At JANAF Meeting

May 22 and 23, R. P. King, Chief of the Igniter Section, and Samuel Zoman, Engineer in the Igniter Section of Thiokol Chemical Corporation, Redstone Division, will speak at the fourth annual meeting of the SPIA (Solid Propellant Information Agency) JANAF (Joint Army Navy and Air Force) Ignitability Panel.

King's subject will be "The Launcher Retained Igniter System," and Zoman will review various systems in his "Availability and Reliability of Rocket Ignition Systems." The meeting will be in East Alton, Ill.

Both King and Zoman have wide experience in the area of rocket ignition and have worked intimately with the ignition systems of the various solid propellant powerplants developed at Thiokol's Redstone Division.

## At the Service Club

**PEACH BLOSSOM BALL:** The Butler High School Senior girls have been invited to a dance at the Service Club on Tuesday, May 31, at 8:00 P.M.

Transportation will be furnished for these students from the school to the Service Club.

The Birmingham and Huntsville hostesses will attend the dance. The Gene Louis Sextet will play for the dance.

**PICNIC AT NORMANDY FARM:** The picnic at Normandy Farm starts at 6:00 P.M. on May 30. Normandy Farm area is a beautiful, quiet picnic area.

**TOUR TO NASHVILLE IN JUNE:** A bus will leave from the

## Wives Club Golfers Finish Second Round In Chrysler Tourney

The golf group of the Redstone Arsenal Officers Wives Club has finished the second round in the group's Chrysler Cup Tournament with the following results:

First Flight: Mrs. F. E. Napper over Mrs. Glenn Crane, 3 and 2; Mrs. G. P. Levy over Mrs. S. C. Holmes, 1 up; Mrs. R. O. Lehtonen over Mrs. J. N. Jean, 3 up; Mrs. C. J. Payne over Mrs. H. H. Wishart, 4 and 2.

Second flight — Mrs. I. E. Dodd over Mrs. E. J. Kloos, 1 up; Mrs. W. F. Kaiser over Mrs. J. M. Ivy, 1 up.

In addition consolation matches have been completed as follows:

First flight — Mrs. J. B. Levass over Mrs. Stephen Albee, 2 up; Mrs. H. H. Murray over Mrs. H. E. Fite, 4 and 3; Mrs. T. T. Paul over Mrs. F. E. O'Brien, by default; Mrs. J. G. Zierdt over Mrs. W. W. Cobb, 6 and 5.

Second flight — Mrs. Adonis Creel over Mrs. L. H. LeVine; Mrs. M. R. Collins drew a bye.

The group is completing the third round in the tournament this week.

In addition to tournament play, the golf group is continuing with its regular Wednesday events and all members of the Wives Club are invited to participate. Next Wednesday the regular golfers will complete a tournament begun this week in which they will select their best scores on holes with a three-fourth handicap after playing nine holes each day. Beginners will hold a poker hand tournament.

Ohio, in April, 1958. He had been Chief of the Aerospace Medical Laboratory at the Air Force Missile Development Center, Holloman Air Force Base, New Mexico, since April, 1953.

He entered military services as an Active Reserve Officer in October of 1944, and was integrated into the USAF regular Medical Corps in August 1958.

Col. Stapp is married to the former Miss Lilli Lanese, who was formerly prima ballerina with the Ballet Theater of New York. They now make their home in Knollwood, a suburb of Dayton, Ohio.

## MONTHLY SOCIAL

The NCO Wives Auxiliary will hold the monthly social tomorrow, May 26th at 7:30 p.m.

"Name Bingo" will be played. This game involves drawing names of members instead of numbers and will help everyone, "To Get Acquainted."

All Wives of NCOS are invited to attend.

## SPRING DANCE

Redstone Chapter 353, National Sojourners held their annual Spring Dance at the Hawk Room of the Squirrel Hill Officers Club last Friday night.

The formal dance was preceded by cocktails and dinner.

Service Club on June 11, at 1000 hours to tour the Tennessee State Capitol, Parthenon, and Hermitage in Nashville, Tenn.

Nashville is a city famous for its Grecian design in building. Tennessee's capitol follows the lines of a Greek Ionic temple. The capitol is considered the masterpiece of William Strickland, a Philadelphia architect, who is buried in its north wall.

The Parthenon is in the Centennial Park and is a replica of the Athenian temple that is considered the finest example of classic Greek architecture. The Cowan collection of American painters is housed in the basement of the building and casts of the fragmentary Elgin Marbles sculptures are on display within the temple proper.

The Hermitage is the beautiful and historic home of Andrew Jackson. The home is furnished throughout with articles used by General Jackson and his family. Momentos of Battle of New Orleans on display at the Hermitage constitute one of the outstanding historical collections in America.

**TOURNAMENTS:** SFC Terry Ford, 3rd ETC won the Table Tennis Contest on May the 10. Airman 1st Class Felice Puorro, Det. 5 IAF, was second place winner.

Pvt. John D. Allo, Hq. & Hq. USAG won the Pool Match on May 12.

PFC. James B. Stark, Hq. & Hq. Special Services, and SFC Terry Ford, 3rd ETC, won the Shuffleboard Contest on May 13. They were awarded cigarettes as the winning prize.

Win a prize in the Poker Contest to be played at 6:30 p.m. on May 28.

**AROUND THE WORLD WITH SLIDES:** Show your favorite slides on May 26, at 6:00 p.m. in the Service Club.

**BIRTHDAY PARTY:** Join us in the celebration of all Birthdays in May. Coffee and cake will be served. A record dance will follow the Birthday Party. The Birthday Party will be on May 29, at 7:30 p.m.

**COFFEE AND DONUTS:** Coffee and donuts will be served at 9:00 a.m. on May 30, Memorial day.

## DID YOU KNOW?

Nearly all instructors at the U. S. Army Engineer School, Fort Belvoir, Va., are enlisted men. Only a few of the teachers are officers or civilians.



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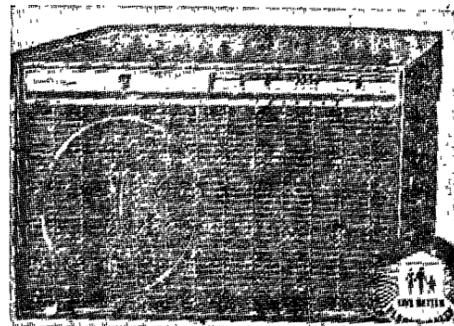
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# Reporter Discovers Mans-Eye-View Of Saturn Booster Is Impressive

## Size Is Deceptive Because Everything Is Scaled to Fit

(Editor's note—The following story on the Saturn program is printed by special permission of the author, Jack Stillman of the Associated Press.)

By Jack Stillman

The Saturn superbooster, fastened to its test tower at the Marshall Flight Center, looks like a grain elevator suspended against the skyline. Its size is so immense that it almost defies description.

To realize its bigness takes time, for everything about the Saturn is huge in proportion to what has been done before in the space field.

To take that the booster is merely the power plant and the first stage of the mighty Saturn space vehicle helps a little. Looking at it from a distance gives only the impression that it is big.

### Feel Its Bigness

To know how big it is, you have to feel it, stand on its top, walk beneath it and look up into the eight huge power plants mounted beneath it.

You take an elevator at the ground level of the static test stand and ride up to the third level. Here you walk on a platform beneath the engines.

You get some idea of the size of the engines but you don't yet realize how big they are until you try to photograph them.

Yop step back to the edge of the platform, about 12 feet away, aim your camera at the cluster of engines. You have a wide-angle lens. You look through the view finder and to your amazement it is impossible to get but two engines in the picture.

### It's 22 Feet Across

You take the elevator to the seventh level and walk out on a

metal catwalk suspended over the top of the booster. You cross the framework and look down at the fuel and liquid oxygen tanks. It is 22 feet to the other side.

And when you realize that here will rest the second stage of the Saturn system, you have begun to see how big the Saturn is.

Scientists at the Marshall Space Flight Center are in the middle of a series of tests to determine the booster's reliability. The testing is slow business but when you consider they are dealing with the greatest forces ever before considered in the missile and rocket program, the tests are going with amazing speed.

The present Saturn booster was built for testing purposes only. The second Saturn is being assembled at the space center and will be flown at Cape Canaveral, Fla., probably in 1961.

Why would it take so long to get to the actual flight tests? Scientists know much about what the Saturn will do, and what it needs to do. But they have much to learn. In theory, they know it will work. When the time comes for the first flight test, they want to be sure it will fly.

### Compared to Firecracker

A simple way to describe what the booster does would be to compare it to a firecracker under a tin can. The firecracker blows the can into the air. The superbooster will be used to give the Saturn its first push into space. Whatever goes on top can be compared to the tin can, except the upper stages also will be firecrackers.

The ultimate payload, on the very top, will be the space vehicle. It is here that the instruments, men, or whatever else is used, will be carried.

Dr. Wernher von Braun, who heads the Saturn project, says "We are in the transportation

business. It will be up to others to say what the cargo will be."

### 580 Ton Lift

Von Braun says the booster will be capable of lifting the entire Saturn system, weighing 580 tons including fuel and between 25,000 and 50,000 pounds of payload.

There are several possibilities to what the payload will be. The National Aeronautics and Space Administration will make the final decision.

Scientists have said the payload could consist of a ton of delicate instruments, soft-landed on the moon. Soft-landing means letting it down easily, by reverse rockets, so that the instruments are not damaged.

"To hit the moon like the Russians did would be like shooting a bullet into a brick wall," said one spokesman.

### Soft Landing

Scientists say it will even be possible to let down the payload easily, landing it on its side, so that doors may be opened and trucks or whatever else is inside will be automatically rolled out onto the moon's surface.

They claim that if Saturn can fly a ton of instruments to the moon, it can just as easily fly a ton of instruments to Mars or Venus.

By adding an additional stage, they say it will be possible to fly two men around the moon, and land them safely back on earth by using reverse rockets.

To watch the Saturn booster being tested only adds to the awesome potentialities of this giant.

Recently, when the eight engines were first fired, scientists took readings from 970 instrument channels to the rocket and the test stand.

### 30 Million Horsepower

The motors ran for only a few seconds but generated 1,300,000 pounds thrust. They have a full-power potential of 1½ million pounds, equal to 30 million horsepower.

Tests of the booster actually are a little ahead of schedule, but there appears no likelihood that the first "operational" Saturn will be flown before early 1964.

Plans for the second and third stages are underway. NASA says it will take at least two years before these two stages are developed and fully tested.

Cost of the overall Saturn program will run into countless millions of dollars.

### \$100 Dollars Spent

Already more than 100 million dollars have been spent on the booster program. This includes the booster hardware, laboratory and test facilities both at Huntsville and Cape Canaveral.

The government has proposed 2 30 million dollars for the fiscal period of 1961. Von Braun says additional money would not speed development of the booster.

### Authorized In 1958

The Saturn project was first authorized in September 1958 and although a lack of money slowed its development at first, there is no longer a question of money, but one of time.

Test facilities of the booster itself posed innumerable problems. The Jupiter test stand at the Marshall space center had to be enlarged.

A new deflector of steel had to be built to protect the contract basin beneath the jet streams. This steel deflector is about 52 feet high. It sweeps downward at an angle, carrying the jet streams down a cataract of water.

The deflector, punctuated with about 10,000 small holes through which water is forced, carries 40,000 gallons of water a minute.

This flow, over a 24-hour period, would be equal to the amount of water used by a city of half a million people in a single day.

### When Engines Fire

As the Saturn engines are fired, a great cloud of steam envelops the base of the test stand. Engineers have recently extended the deflector to throw the steam cloud high over the water basin,

which will make it easier to see and photograph the roaring inferno of the jet streams.

During each test a battery of forty or more movie cameras are trained on the rocket, focused from every conceivable position. The movies may provide some clue in the event of a faulty firing.

When the booster is prepared for a full test, eight tank cars of liquid oxygen are used to fill five tanks. The other four tanks contain the fuel. This test would last 2½ minutes before all the fuel and the liquid oxygen is expended.

### Aim At Moon

Aimed at the Moon, the booster and its two upper stages would attain a speed of about 24,000 miles an hour.

The booster, plus the upper stages of the final Saturn, will be 200 feet high, or nearly half as high as the Washington Monument or a quarter as high as the Eiffel Tower.

Its weight when fueled will be about 530 tons. Of this, 500 tons will be fuel and oxidizers.

The booster's liquid oxygen and fuel tanks, 60 feet tall, are made of aluminum alloy. When the liquid oxygen tanks are filled, the chemical phenomenon reduces the temperature in the metal to minus 297 degrees Fahrenheit. This shrinks the tanks 2½ inches.

### To Empty Tanks

In the event of an emergency, it may be necessary to empty all the tanks while the rocket is on the static test stand.

This can be done by a series

of valves controlled from the blockhouse. The liquid oxygen can be directed through a series of pipes in one direction while the fuel is dispatched into the opposite direction.

"We cannot have them going in the same direction because it is easy to see what might happen," said B. R. Tessmann, assistant director of the test laboratory.

It would take about 17 minutes to empty the fuel tanks and about 25 minutes to empty the liquid oxygen tanks.

### Get Rid of Water

Getting rid of the water used in the tests was another major problem which had to be considered.

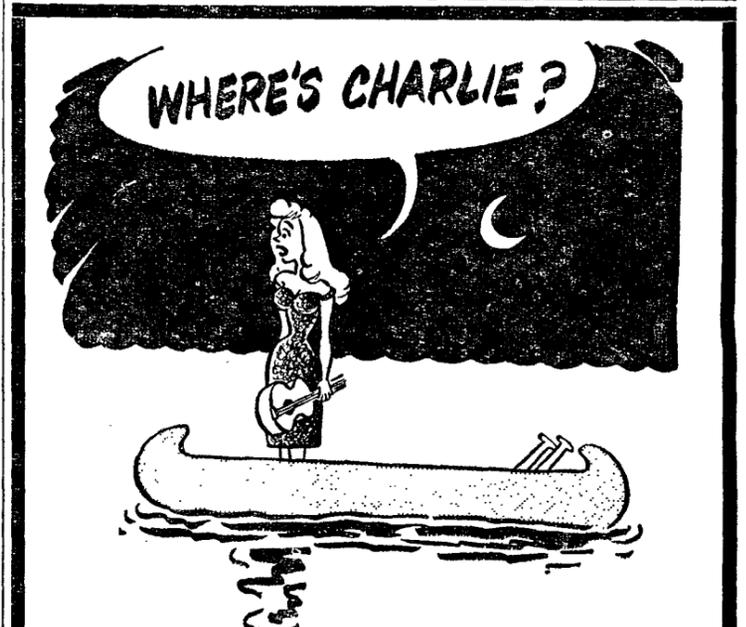
After the water flows through the test stand basin, it is directed into a pond. Here it is tested and reduced to one part fuel to 100,000 parts water and pumped back into the nearby Tennessee River. This is a fish and wildlife conservation step.

As preparations get under way for a test, and before the countdown can begin, the inside of the test stand and the tunnel to the blockhouse two blocks away are pressurized to keep fumes from feeding into the blockhouse.

### Noise Was Concern

Noise of the engines at first was a major concern. Scientists at the space center knew little about what to expect.

Dr. Werner N. Sieber, who directed acoustical studies, says scientists were surprised to learn that the level of sound generated (See REPORTER on Page 7)



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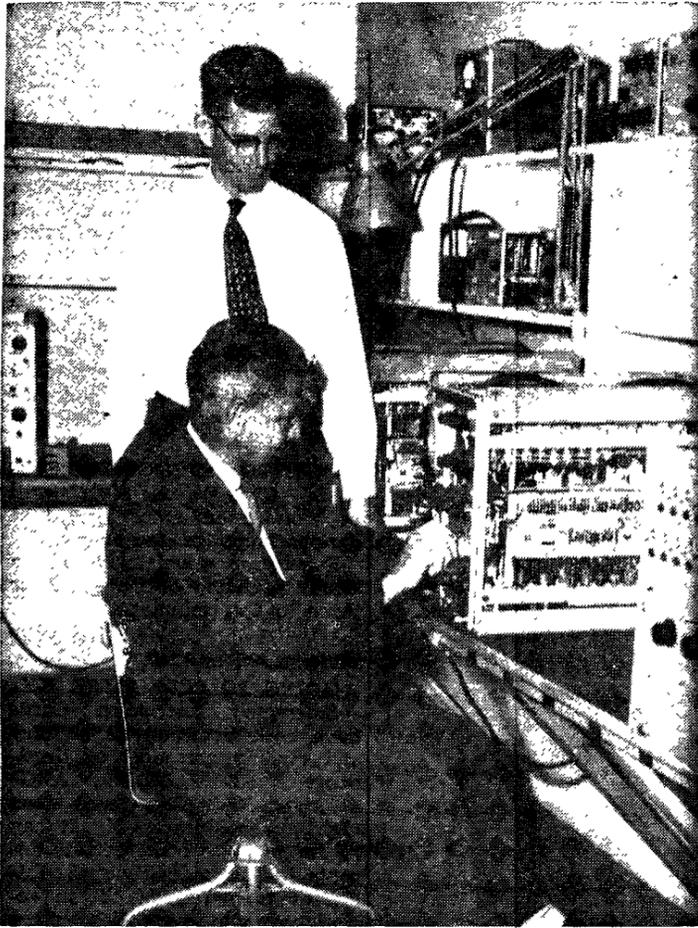
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BEING CHECKED OUT on a Tektronix Oscilloscope is William F. Edmondson of Redstone Arsenal, as field training instructor Chuck Miller of the Portland, Oregon electronics firm looks on. Bill recently completed the three-week course in scope maintenance and application provided free for Tektronix customers.

rather than one big one?  
The Saturn engines are a result of ten years of development with Redstone, Jupiter, Thor and Atlas engines. Continual analysis of static firing reports on these engines known as the H-1.

**Independent Engines**  
Each of the eight H-1 engines operates independently with its own gas generator and turbo-pump. The nine tanks above—five of liquid oxygen and four of RP-1 fuel, are a common source for all the engines.

The RP-1 is a hydro-carbon fuel similar to that used in turbo-jet engines. It also is similar to kerosene.

Directional stability of the rocket will be controlled by swiveling the four outboard engines which are mounted on gimbals. These gimbals will be operated automatically by the vehicle's guidance equipment.

The H-1 is primarily a regrouping of previously tested liquid propellant engines. It is necessary to rearrange existing components for mounting beneath the booster.

North American Aviation's Rocketdyne Division, makers of the H-1, is also developing a single liquid engine capable of 1,500,000 pounds thrust. But this is several years away. Until then, the eight-engine cluster is necessary

to attain sufficient thrust for the flight center says:  
heavy payloads anticipated.

**Future Holds What?**  
When the 1,500,000 pounds thrust is available from a single engine, many things might be done not even dreamed of now.

“Think of it; a cluster of four such engines would provide six million pounds thrust.  
“And beyond that? Who knows? There is so much being done that it is easy to assume an attitude that nothing is impossible.”  
A spokesman at the Marshall

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**REPORTER**

(Continued From Page 6)

by Saturn at a point 5,000 feet from the test stand is no greater than that of Jupiter IRBM engine at 1,000 feet.

This was especially surprising because the Saturn booster's thrust is 10 times greater than that of the Jupiter.

They found that the low level frequencies, which are those that travel greater distances, are absorbed and muffled by the tremendous volume of water used in the static tests

**Weather Is Considered**

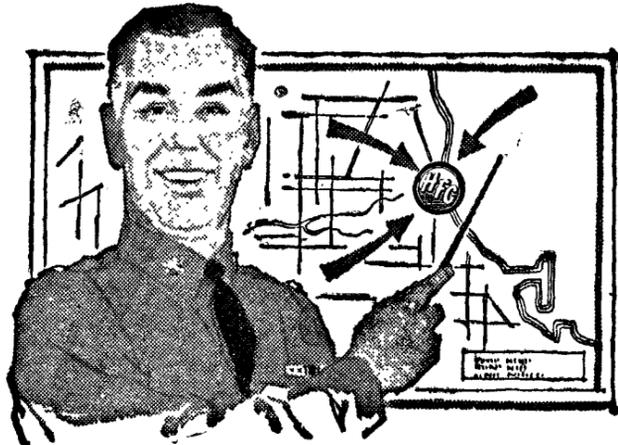
Weather conditions are a major factor in determining how far the sound of the Saturn engines will travel. Having the most affect are changes in temperature and wind direction.

By sending a balloon aloft with a tiny transmitter, scientists know exactly how far the sound of the engines will travel before they are fired.

This was done not for consideration of residents at nearby Huntsville, but these tests will furnish information necessary when it comes time to launch the Saturn at Cape Canaveral.

Why a cluster of eight engines

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200	11.48	14.54	20.09	36.91
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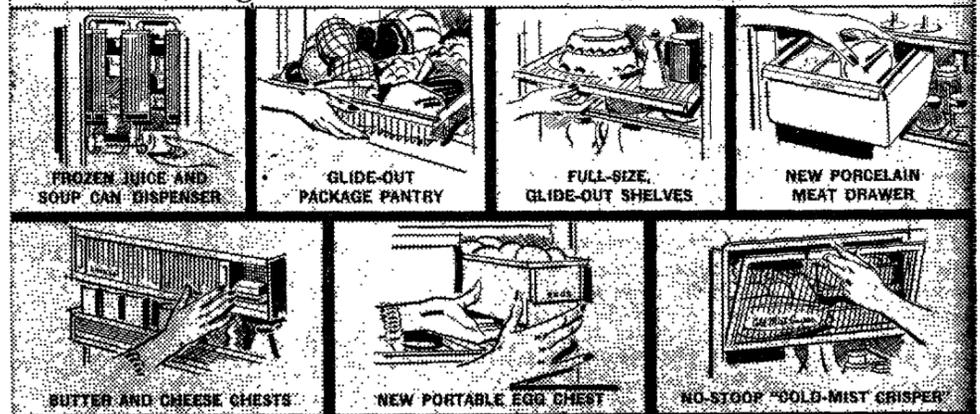
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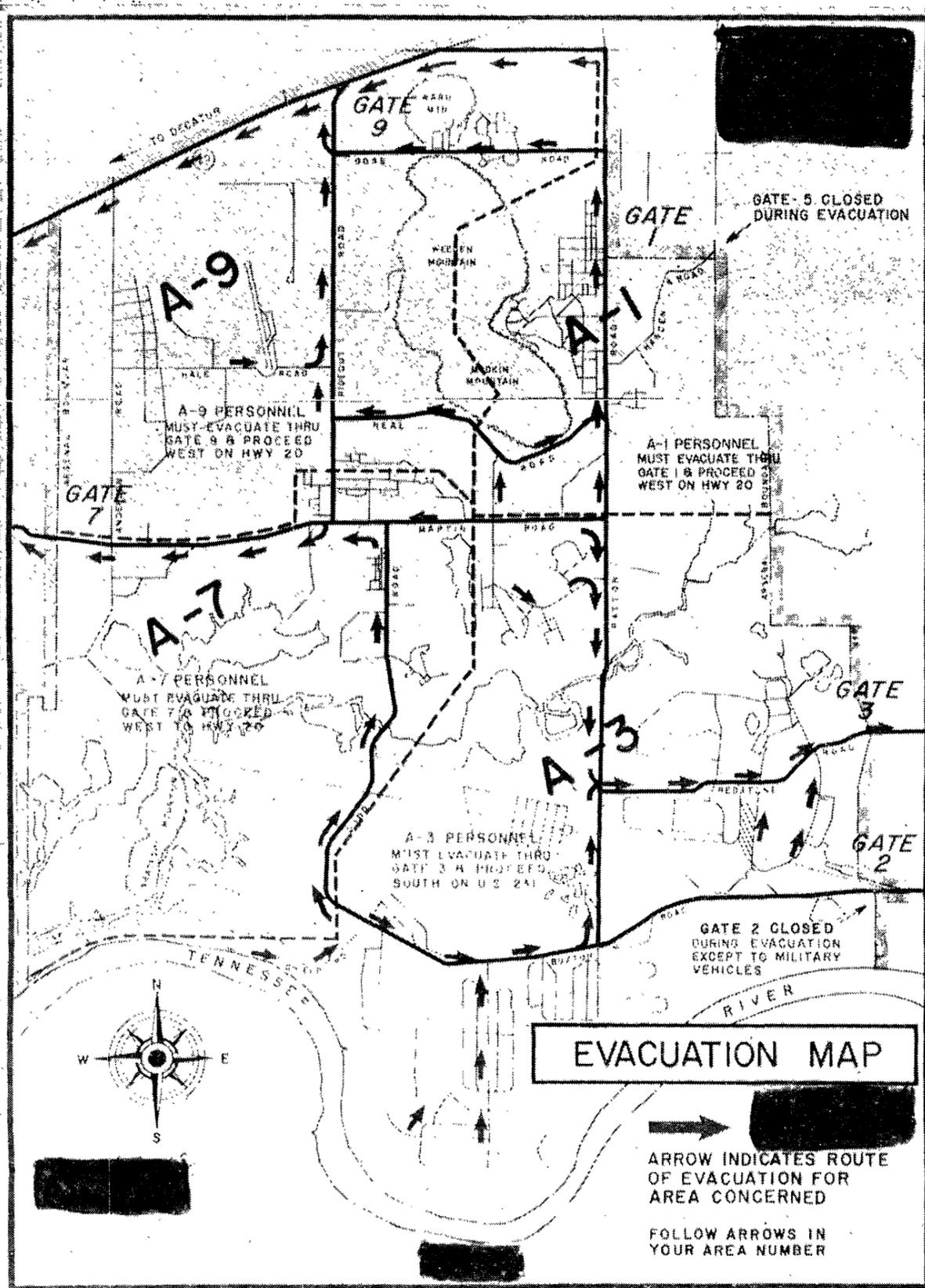
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**HOW TO RECOGNIZE SIGNALS**—Civil Defense Signals will be sounded on sirens located at various points on the arsenal.

Evacuation signal will be a steady sounding of the siren for three to five minutes.

If in doubt, always tune your radio to 640 or 1240.

**GOING TO BLUEGRASS, KY.**, —Emergency Instruction Cards have been issued to all military and civilian personnel of Headquarters, AOMC, ABMA, ARGMA, and RSA. This card lists highways to Bluegrass, Ky. It may be necessary to make detours enroute to this assembly area. Initial evacuation should be in accordance with evacuation maps and instructions of law enforcement personnel. Then proceed to Bluegrass, Ky., as the situation permits.

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## Civil Defense Is Every Citizen's Responsibility

By HOWARD SLAYDEN

Redstone Civil Defense Coordinator

Civil Defense is the responsibility of every citizen. Military families must be prepared to solve their own emergency problems. Individuals must be prepared to care for themselves in an emergency and contribute to the community survival effort.

Listed below are a few things that you can do before and during an emergency to enhance your chances of survival.

### PREPARE A SURVIVAL KIT

Families should be able to exist on a personal stock of survival items for two weeks after an attack. Prepare an evacuation pack of canned foods, juices, dried fruits, and other non-perishable items. Rotate these items so they are always fresh. Keep water jugs filled or immediately available. Include blankets, raincoats, and at least one change of clothing; toys for the kids; a battery operated radio; flashlight. Keep your gas tank full and carry a spare can of gasoline in your car. If you don't have a car or if your wife can't drive, arrange for your family to go in a neighbor's car.

**WHAT TO DO IF ORDERED TO EVACUATE** — If an Air Raid Alert is sounded, tune your radio to 640 or 1240 kilocycles. Civil Defense instructions will be issued over one of these stations. If the instructions are to evacuate the area, load your survival pack and follow instructions immediately,

but calmly. Normally, on-post families will evacuate the arsenal as indicated below:

**Squirrel Hill Area**—West on Goss Road, through Gate 9 to Decatur, Ala.

**Redstone Park**—South on U.S. 231 to Highway 36 to Hartselle, Ala.

**Headquarters and Buxton Road Area**—Through Gate 3 to U.S. 231, then South to Highway 36 to Hartselle, Ala.

**THESE EVACUATION ROUTES MAY BE CHANGED DUE TO CONDITIONS.** There are reception centers planned at various towns and communities in this area so obey the instructions of the Civil Defense broadcasts. Law enforcement personnel directing evacuation traffic will direct you to the reception center.

### SEPARATION OF FAMILIES

In an emergency evacuation there will be some separation of families. Unless you have been designated to do so by your local Civil Defense representative, do not try to go to your children's school. Civil Defense and school officials will look after them. Families will be reunited as soon as possible after the emergency. Wear your identification tags. If all members of your family do not have them, contact the Huntsville Civil Defense office at 104 Gates Ave., S.E.

**TAKE COVER SIGNAL**—It is possible that warning of an impending air attack will be received too late to evacuate the area.

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Fly Capital to New York this summer at the lowest fares ever offered! Save 25% on first class, 18% on Cardinal Coaches. Just a few dollars down sends you on your way with Capital's easy budget payment plan. But that's not all! Capital's Summer Festival Vacation Plan includes hotel rooms, theatre tickets, sight-seeing, all at the lowest possible rates! Call your travel agent or Capital at **Extension 3-5765**.



DICK HECKMAN, NARDI NO. 23

**Courtland Sports Car Races to Be Saturday, Sunday**

On May 28 and 29 The Tennessee Valley Region, Sports Car Club of America will sanction 500 miles of sports car racing at

Courtland, Alabama.

The races will be sponsored by the Decatur, Ala. J.C.'s and all proceeds will go to charity. The Tennessee Valley Region, SCCA could almost be called an Arsenal Club as 90 percent of it's 60 members are employed on Redstone Arsenal.

1st ETC 10 - Medical Det 9 (Makeup of Protest)  
 AOMC Officers 12 - Company A, OGMS 11  
 OGMS Officers 8 - UTC 7  
 Det B, ABMA 2 - 3rd ETC 0  
 Company A, OGMS 12 - Hq Det USAG 11  
 AOMC Officers 13 - Signal Det 7  
 Hq Co. School Troops 13 - Det A, ARGMA 10  
 NCO Club 14 - 3rd ETC 13  
 Det B, ABMA 8 - UTC 2  
 Hq Co. School Troops 23 - 3rd ETC 22  
 1st ETC 7 - Medical Det 5  
 Hq Det USAG 19 - Signal Det 8

**LEADING HITTERS AMERICAN LEAGUE**

Player	Team	Average
McIlvaine	Hq Det USAG	.722
Cassidy	Hq Det USAG	.634
Welch	AOMC Officers	.571
Collier	Hq Det USAG	.571
Matienzo	Hq Det USAG	.500
Allen	Hq Det USAG	.500

**NATIONAL LEAGUE**

Player	Team	Average
Paisley	3rd ETC	.600
Lindeman	Hq Co. Sch Trps	.545
Tillery	Det B, ABMA	.500
Carr	Det B, ABMA	.500
Rood	Det A, ARGMA	.500

Based on 8 or more times at bat.

**BASEBALL SCHEDULE**

Date	Time	Teams
21 May, 1930,	Hq Det USAG vs	Det B, ABMA
25 May, 1930,	School Troops,	OGMS vs Det B ABMA
27 May, 1930,	UTC vs Hq Det	USAG
28 May, 1930,	School Troops,	OGMS vs Hq Det USAG
1 June, 1930,	Det B, ABMA vs	UTC

The simulated road course will have 14 turns, both to the left and to the right with the tightest corner a tight 135 degrees.

In one circuit of this course the driver will make at least 25 gear changes and some cars will attain a speed of 140 miles per hour. Arsenal personnel that will drive in the race are Al Dawley, "Doc" Marchese, "Chuck" Saffell, Bill McCorkle, Wade Ewing and Dick Heckman.

These men are amateur sportsmen who drive for trophies and for fun, their cars are highly specialized European and domestic sports cars that they maintain themselves between races.

On Saturday, May 28 practice will begin at 11:00 a.m. followed by a novice race, a ladies and small sedan race, a race for small sports cars and a race for large sports cars.

On Sunday May 29 practice will begin at 10:00 A.M. followed by a one half hour Kart Race, a 10 lap ladies and small sedan race, a 15 lap small sports car race, a 15 lap large sports car race and a 30 lap race in which all 60 cars start at one time from a standing start. Admission is \$1.00 for adults and \$.50 for children.

**SOFTBALL SCHEDULE**

Date	Time	Field	Teams
26 May, 1800,	1,	NCO Club vs	UTC
26 May, 1930,	1,	Det A, ARGMA vs	3rd ETC
26 May, 1800,	2,	AOMC Officers vs	1st ETC
26 May, 1930,	2,	Co. A, OGMS vs	Signal Det
31 May, 1800,	1,	AOMC Officers vs	Hq Det USAG
31 May, 1930,	1,	Co. A, OGMS vs	Medical Det
31 May, 1800,	2,	NCO Club vs	Hq & Hq Co. Sch Trps
31 May, 1930,	2,	Det A, ARGMA vs	Det B, ABMA
2 June, 1800,	1,	3rd ETC vs	UTC
2 June, 1800,	2,	Signal Det vs	1st ETC

**SOFTBALL STANDINGS AMERICAN LEAGUE**

Team	Won	Lost
Hq Det USAG	6	1
1st ETC	5	1
Company A, OGMS	2	3
AOMC Officers	2	4
Medical Detachment	1	3
Signal Detachment	1	5

**NATIONAL LEAGUE**

Team	Won	Lost
Hq & Hq Co., Sch. Trps.	5	1
NCO Club	4	1
Det B, ABMA	4	1
Det A, ARGMA	3	2
UTC	0	5
3rd ETC	0	6

**WORTH REPEATING:** "We cannot double the manpower of our Army," said Army Aviation Chief, Brig. Gen. Clifton F. Von Kann, "but we can more than double the potential use of this manpower through air mobility".

**Movie Schedule**

Wednesday, May 25, "Walk Like a Dragon" starring Jack Lord, Nobu McCarthy and Mel Torme. Time 1800 and 2030 hours.  
 Thursday-Friday, May 26-27, "Sergeant Rutledge" starring Jeffrey Hunter, Constance Towers and Woody Strode. Time 1800 and 2030 hours.

Saturday, May 28, SPECIAL MATINEE "Smiley gets a Gun" starring Keith Calvert and Chips Rafferty. Time 1000 hours.

Saturday, May 28, "Noose for a Gunman" starring Jim Davis, Barton MacLane and Lyn Thomas. Time 1800 and 2030 hours.

Sunday-Monday, May 29-30, "The Fugitive Kind" starring Marlon Brando, Anna Magnani and Joanne Woodard. Time Sunday 1400, 1800 and 2030 hours.

Tuesday, May 31, "Walt Disney's Toby Tyler" starring Kevin Corcoran and Henry Calvin. Time 1800 and 2030 hours.

**WHITESBURG DRIVE-IN**

THURSDAY & FRIDAY  
**"The F.B.I. Story"**

Starring James Stewart

SATURDAY



—Plus—

**"Imitation General"**

Starring Glenn Ford

SUN., MON., TUES., WED.

**DORIS ROCK DAY HUDSON**



**"PILLOW TALK"**

TONY RANDALL THE MA RITTER  
 EASTMAN COLOR CINEMASCOPE  
 A UNIVERSAL-INTERNATIONAL RELEASE

**BENTLEY'S Why OLDS Is The Buy**

**USED CAR SPECIALS**

- 1958 FORD 4-Dr. Fairlane "500"
- 1957 OLDS 2-Dr. Holiday
- 1956 OLDS 4-Dr. With air
- 1957 MERCURY 4-Dr. With air
- 1957 FORD 4-Dr. Fairlane
- 1955 OLDS 4-Dr. 98
- 1956 PLYMOUTH 4-Dr.
- 1956 BUICK Special 4-Dr.
- 1957 MERCURY 2-Dr. H.T.
- 1957 PLYMOUTH 4-Dr. Belvedere
- 1957 CHRYSLER 4-Dr. N. Y.
- 1955 MERCURY 2-Dr. H. T.
- 1955 OLDS 4-Dr. 88
- 1956 OLDS 4-Dr. S88

**Bentley Oldsmobile Inc.**

House of Courtesy

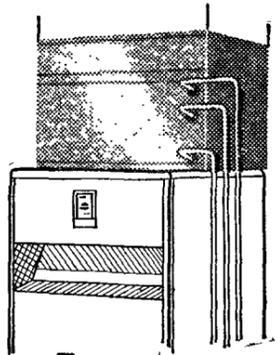
— OPEN EVENINGS —

103 Greene St. — Phone JE 6-1534 — Downtown

**SAVE MONEY-**

Let Your Heating System

**COOL YOUR HOUSE**



Did you know that your house can be fully air conditioned—every room comfortably cool all summer long—just by adding one American-Standard cooling unit? No need to settle for half-way comfort, and no need to spend all the money it would take to do the job with individual room units.

**AMERICAN-Standard**

**"ADD ON" AIR CONDITIONER**

Uses your present furnace blower and air ducts

- Compact, space-saving design—easily, quickly installed
- Economical sizes for small, medium and large homes
- Dependable performance! 100% Hermetically sealed cooling circuit covered by liberal 5 Year Protection Plan

FREE ESTIMATE! EASY TERMS! CALL TODAY!

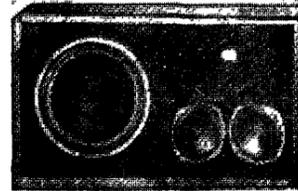
**Driver's Refrigeration Service**

705 Wellman Ave., N. E. — Phone JE 6-2249



The AR-2a consists of an AR-2 speaker system in combination with the 1 1/8-inch dome-type super-tweeter whose response curve is shown below. (This is the same super-tweeter used in the AR-3.) Crossover frequencies are 2000 cps and 7500 cps, and the mid-range unit and super-tweeter are independently adjustable.

The AR super tweeter is our most nearly perfect driver—its performance, in the high treble range, conforms more closely to the ideal than any of our other speaker drivers in their frequency ranges.



**Audio Masters Inc.**

110 HOLMES AVE., N. W. — PHONE JE 6-8723

### Services, Supplies Contracts Awarded

Recent contracts for supplies and services issued by the Purchasing and Contracting Division of Redstone Arsenal, Army Ordnance Missile Command, include the following:

**HUNTSVILLE:** International Business Machines Corp., \$13,600, magnetic tape, ABMA.

Flint Refrigeration Co., \$15,688, air conditioning, Post Engineer, Redstone Arsenal.

Addressograph - Multigraph Corp., \$11,678, 16 items of printing supplies for Consolidated Supply Division, Redstone Arsenal; \$11,678, duplicating master plates, Consolidated Supply.

International Business Machines Corp., \$22,800, electric typewriters, Army Ballistic Missile Agency; \$62,016, electric typewriters, ABMA.

IBM, \$45,600, electric typewriters, ABMA.

Gallant, Inc., \$13,283, thermo-fax paper, Consolidated Supply.

**BIRMINGHAM:** Industrial Piping Supply Corp., \$7,792, 13 items tees and reducers, Structures and Mechanics, ABMA.

Ack Radio Supply Co., \$6,273.60, electron tube, Ordnance Guided Missile School Television Branch.

Ack Radio, \$8,208, tape recorder, Service and Logistic Branch, Army Rocket and Guided Missile Agency.

B. K. Elliott Co., \$9,345, bond paper, ABMA.

Insko's Mechanical Contractors, \$14,425, installation of a cooling water system, Post Engineer, Redstone Arsenal.

Cutler-Hammer, Inc., \$12,062 relays, Fabrication and Assembly Engineering Lab, ABMA.

Ford Tool and Carbide Co., \$7,873, heat resistant tape, Test Lab, ABMA.

**ATLANTA, Ga.:** Consolidated Vacuum Corp., \$7,675, six items oscilloscopes, Ordnance Missile Laboratories, ARGMR.

Ampex Corp., \$27,952, modified items to video tape recorders, TV Branch, OGMS; \$59,726, video tape television recorder/reproducer with accessories, TV Branch, OGMS.

Leeds and Northrup Co., \$12,369, galvanometers, resistors, amplifiers, Industrial Division, ABMA.

The Murray Co., \$16,665, dictograph equipment, intercom system in ABMA, Post Signal, Redstone Arsenal.

Kellogg Switchboard Co., \$8,882, relay cabinets and power supplies, telephone services at Thio-kol.

GSA, \$14,032, janitorial supplies, Redstone Arsenal.

The Ellison Company, \$30,515, Testing Machine and accessories, OML, ARGMA.

**LOS ANGELES, Calif.:** Master Specialties Co., \$6,107, roto-tellite units and filters, Saturn project; \$14,249, 16 items roto-tellite, Guidance and Control Lab, ABMA.

**TORRANCE:** The Hi-Sheer Rivet Tool Co., \$17,977, 69 items blind bolts, Fabrication and Engineering Lab, ABMA, Saturn Project.

**NORTH HOLLYWOOD:** \$25,446, pressure transducers, Ord-

nance Missile Laboratories, ARGMA, Missile "A" telemetry system.

**NORTH HOLLYWOOD:** Bendix Aviation Corp., \$53,029, telemetry assemblies, Ordnance Missile Laboratories, ARGMA.

**ANAHEIM:** Hallamore Electronics Corp., \$12,645, amplifiers, power supplies, Test Lab, ABMA.

**SAN DIEGO:** \$7,850, rate gyros, Missile Instrumentation Development Branch, ABMA.

**PASADENA:** \$74,020, 13 items pressure pickups, Test Lab, ABMA, Saturn program.

**CULVER CITY:** Collins Engineering Corp., \$12,416, 54 items fittings, ABMA.

**CULVER CITY:** Collins Engineering Company, \$8,417, 35 items tees, reducers and sleeves, Structures and Mechanics Lab, ABMA.

**FULLERTON:** Helipot Division Beckman Instruments, \$9,627, potentiometers, Structures and Mechanics Lab, ABMA.

**DETROIT, Mich.:** Henko Plastics Supplies and Chemicals, Inc., \$9,906, two item resin adhesive and hardener, Fabrication and Assembly Engineering Lab, ABMA.

Huck Mfg. Co., \$8,662, 34 items pins, rivets, ABMA.

**WORCHESTER, Mass.:** Jamesbury Corp., \$6,493, three items valves, ABMA, Saturn project.

**LEXINGTON, Mass.:** Trans-Sonics, \$5,413, three items transducers, Ordnance Missile Laboratories, ARGMA.

**BEVERLY, Mass.:** Bomac Laboratories, Inc., \$19,500, magnetron tubes, Missile Instrumentation De-

velopment Branch, ABMA, Saturn Project.

**TRENTON, New Jersey:** Gulton Industries, Inc., \$77,799, vibration measuring system, Ordnance Missile Laboratories, ARGMA.

**METUCHEN:** Gulton Industries, Inc., \$47,350, six items accelerometers, Test Lab, ABMA, Mercury Project.

**PHILADELPHIA, Pa.:** Vector Mfg. Co., \$15,675, four items telemetry transmitter, OML, ARGMA.

**WILMINGTON, Del.:** All American Engineering Co., \$5,500, winch, handling hoist, ABMA, Saturn.

**FORT WAYNE, Ind.:** The Weatherhead Co., \$6,318, adapters, tees, unions and reducers, ABMA.

**PRINCETON, Ind.:** Potter and Brumfield Division of American Machine and Foundry Co., \$6,041, relays, ABMA.

**CLEVELAND, Ohio:** Brush Instruments Division of the Clevite Corp., \$6,261, brush recorder with accessories, ABMA, Saturn Project.

**National Screw and Manufacturing Co.,** \$7,804, 15 items rivets, stock replenishment, ABMA.

**NEW YORK:** Teleprompter Corp., \$29,288, rear screen projection system with accessories, Operating Services, ARGMA; \$7,923, eight items television equipment, OGMS; \$19,639, TV equipment, OGMS TV Branch; \$89,807, TV equipment, OGMS TV Branch.

**NEW YORK CITY:** Walker Goulard Plehn Co., Inc., \$8,343, ten items paper, Consolidated



"THAT'S WHAT I SAID! YOU'LL GO TO THE NCO CLUB TONIGHT OVER MY DEAD BODY!"

Supply, Redstone Arsenal.

**NEW YORK:** Carpet Distributors Corp., \$13,338, three items carpet, ARGMA.

**ROCHESTER:** Eastman Kodak Co., \$11,101, 11 items film.

**CHATTANOOGA, Tenn.:** Burkhardt Schier Chemical Co., \$7,072, seven items chemicals, ABMA Saturn Program.

**FORT WORTH, Tex.:** Aircraft Components and Engineering Co., \$8,034, nuts, tees and connectors, ABMA Saturn program.

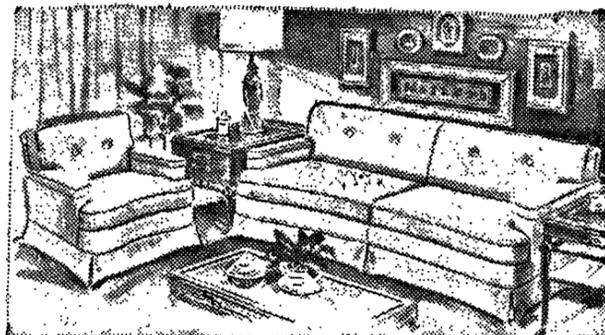
# OPEN FOR BUSINESS Furniture Discount

2320 North Memorial Parkway in Pearsall Shopping Center — Phone JE 9-7961

## SAVE 50% TO 60% OPENING SPECIALS



**Berkline Recliner Chair**  
Heat Pad and Vibrator  
**\$55.00**



**9 Pc. Living Room Suite**  
Nylon Covers ----- **\$8800**



**7 Pc. Berkshire Dinette Suite**  
**\$5900**

- TV Sales and Service (ZENITH)
- Motorola TV by Norge
- Furniture by Bassett
- Rugs

"Complete Home Furnishing"  
At A Price You Can Afford

## Stop & Shop

OUR NEW STORE TODAY  
**Furniture Discount**

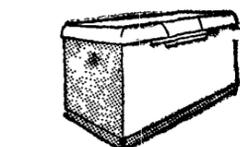
2320 No. Memorial Parkway  
OPEN 8 A.M. TO 8 P.M.



**Perfection Box Springs and Mattress**  
Reg. \$139.00  
Value  
**Our Price \$55.00 Set**  
Guarantee 10 Yr.

**EASY TERMS**

Phone JE 9-7961



**20 Cu. Ft. Deep Freeze**  
5 yr. guarantee on freezer and food.  
**\$269.00**

**LOWEST PRICES**

Phone JE 9-7961

FROM SHEAFFER'S FOR STUDENTS  
**stupendous special**

**\$2.95**  
**SHEAFFER CARTRIDGE FOUNTAIN PEN**

Loads like a rifle. No more ink bottles. Uses Skrip Cartridges

**+ 98c**  
**2 FIVE-PACKS OF SHEAFFER SKRIP CARTRIDGES**

Just drop in a fresh Skrip cartridge and you're ready to write. Carry safely in your pocket or purse.

**+ FREE**  
**HANDWRITING BOOKLET**

Valuable booklet shows how to improve your handwriting. It's free!

**\$3.93 VALUE**

The Stupendous Special is available right now.  
**98c**  
FOR ALL FOUR

Don't miss it! This is your chance to start writing with a new Sheaffer Cartridge fountain pen at a big saving!

GET YOURS TODAY — AVAILABLE AT

**MONROE'S Business Equipment COMPANY**

116 Jefferson Street  
Phone JE 4-1624



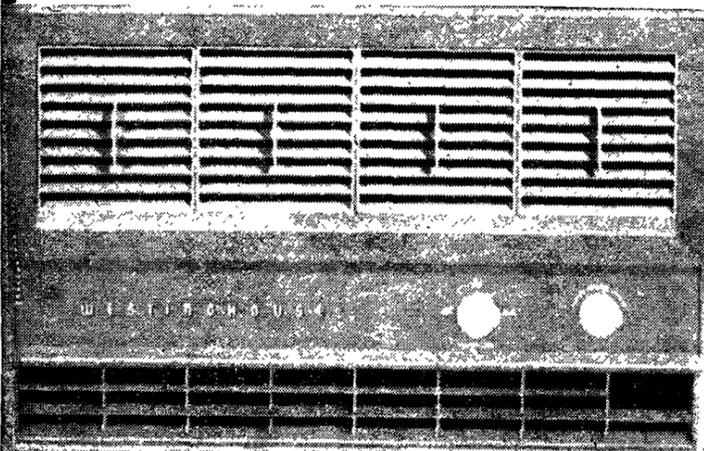
**GOOD HOUSEKEEPING SPOTLIGHTED AT THIOKOL**—The post wide effort toward better housekeeping in all activities during the month of April 1960 gained wide attention and the full support of Thiokol personnel at Redstone. Highlight of the campaign was a "name the cartoon" contest. The cartoon depicted three monkeys in a cage with one monkey having a field day of disorderliness. Shown in the picture (left to right) Dan Myers, Director, Project Management Staff, presenting Steve Adarnek, Project Management Staff, with an auto first-aid kit as first prize in the contest; W. H. Libby, and J. H. Bullington second and third place winners, and Jack Harberger, Chief, Safety Engineer, standing by to present playing cards for second and third prizes.



**ARRIVAL AT AIR STRIP**—Lt. Gen. John H. Hinrichs (left) Chief of Army Ordnance, is greeted by Maj. Gen. August Schomburg, Commanding General, Army Ordnance Missile Command, upon his arrival at Redstone Arsenal Friday. Gen. Hinrichs will be the principal speaker for Armed Forces Day observance tomorrow (May 21).

The Army Medical Library was instituted 11 May 1864 . . .

## WESTINGHOUSE SUPER



All Sizes -- Prices Begin at \$167.00

### Shop The Appliance Center

Open 8 a.m. - 8 p.m. 111 Greene St.  
Pho. JE 4-1191

### Safety Scoreboard

(As of 23 May)

Days since last civilian disabling injury	13
Our Goal	90
Days since last military disabling injury	4
Our goal	50
Days since last contractor Personnel disabling injury	110
Our Goal	120
Days since last government motor vehicle accident	3
Our goal	30

### DRIVING RECORD (Government Vehicles)

(As of 23 May)

Organization	No. Accidents (1960) Since Last M.V. Accident	Days
Transportation Div. (RSA)	13	6
Post Engineer Div. (RSA)	11	3
Provost Marshall Div. (RSA)	10	19
Depot Operation (RSA)	4	27
All Other RSA	4	27
Thiokol (ARGMA)	5	25
All Other ARGMA	2	45
OGMS	7	3
ABMA	3	49

### MILITARY SERVICE AND CITIZENSHIP

The Senate has adopted a resolution creating a Joint Committee on Arrangements for the inauguration of the President-elect and the Vice-President-elect on January 20, 1961. Are YOU helping to elect these leaders by arranging to vote this year

**COMING UP** Sept. 13 will be the centennial of the birth of General of the Armies John J. Pershing. Congressional legislation is in the mill to officially observe the birthdate of this famous leader of World War I.

Get Set For That . . .

## Vacation Trip BRAKES

- REMOVE WHEELS
- EXAMINE LINING AND DRUMS
- EXAMINE WHEEL CYLINDER AND LINES
- ADJUST FOOT BRAKE
- INSPECT & ADJUST EMERGENCY LINKAGE
- ADD FLUID AS REQUIRED

ALL FOR ONLY . . .

# \$4.75

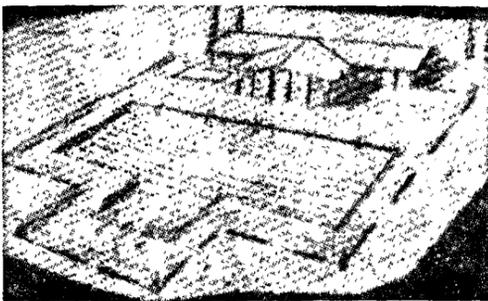
(Material Extra)

## HILL

CHEVROLET COMPANY

227 NO. GREENE ST. — PHONE JE 9-6541  
Only authorized Chevrolet & Cadillac Dealer in Madison County

## FUN FOR ALL THE FAMILY



HUNTSVILLE'S NEWEST—FINEST

# FAMILY Recreation Club

FEATURING:

- Olympic Pool
- Diving Pool
- Wader
- Tennis
- Badminton
- Spacious Club House
- Acre of Lawn
- Picnic Area
- Qualified Club Manager—Staff

Join Now — Limited Membership Available Families -- Individuals

For Information Call or Write:

**HIGHLAND COUNTRY CLUB**  
2315 Bob Wallace Ave. — P. O. Box 755  
Huntsville, Ala. — JE 6-6318

"It's A Family Affair"

## THE AMERICAN LEGION

Post 37  
SOUTH MEMORIAL PARKWAY  
JE 4-9305

PRESENTS

Appearing May 22nd thru 28th

## MARK DINNING

M-G-M RECORDS

Hit Songs: "Teen Angel", "A Star Is Born"  
Has Appeared Twice on the Saturday Night Dick Clark Show — Most Recent: May 21st.

2 Shows Nitely  
(9:15 and 11:00 p.m.)

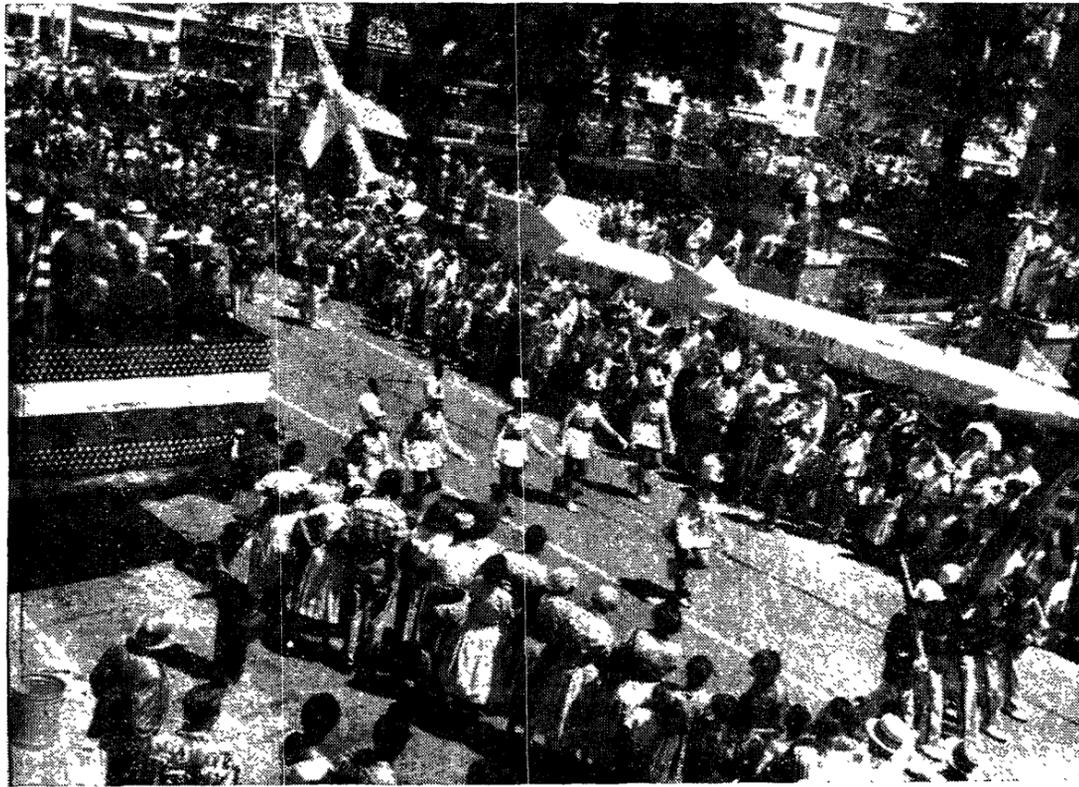


— COVER CHARGE —

Week Nights — 50c  
Fri. - Sat. - Sun. — \$1.00

— Dine and Dance —

RESERVATIONS UNTIL 8:30 P.M. FOR MEMBERS & THEIR GUESTS



AN ARMED FORCES DAY THROG at Huntsville watches as parade marchers pass reviewing stand (at left). Army missiles shown on display in background include Lacrosse (left) and Nike Zeus. It was the first public showing in this area of the Zeus anti-missile missile.

### Engineers Society Names New Officers

At the May meeting of the North east Alabama Chapter of Engineers, the slate of officers for 1960-1961 was announced. The new officers are: President,—John D. Beal, Jr. Vice President,—Hallet Brazelton; Treasurer,—Richard B. Pettus; Secretary,—John M. Caudle; State Directors,—Cecil E. Hammett, Louis C. Patillo, Ray

C. Roberts; Chapter Directors, Grover F. Daussman, Paschal E. Redding, Jr., Harrison F. Rees, W. L. Grafton.

Plans were announced for an Engineers-in-Training Night in August and a Decatur night to be held in that city in September.

A Council was established to develop plans to insure the participation of all professional societies in the Huntsville Area in the 1961 Engineers Week Observance.

## The Bull Sez:



"Roundup the gang and head for Dale's where you can set 'em up to a round of those luscious steaks."

**dale's** RESTAURANT

OPPOSITE THE SHOPPING CENTER



Spring is upon us, and with it comes the urge that sends many servicemen out to their favorite fishing spots when they can finagle a little time off. With this thought in mind here are a few tips that might help in the quest for the finny quarry.

If you like to use a sliding bobber, add a few rubber bands to your tackle box. By attaching a piece of rubber band on the line at the proper depth, you can keep a bobber from climbing up too far on the line. The rubber will pass

through the rod guides easily, but will open to hold the bobber in place.

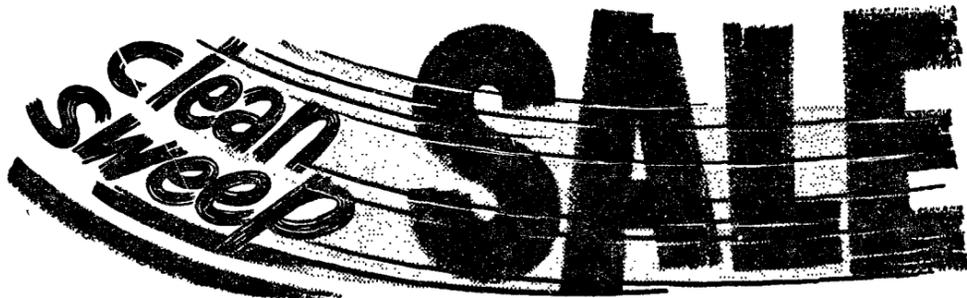
For a sensitive bottom fishing rig, put your sinker on the end of the line. Using a piece of leader material or a snelled hook, place the hook on the line above the sinker. If the line is kept taut, you'll be able to feel the slightest

nibble.

If you find an underwater reef, fish it so that your lure travels up the slope. Fish prefer to rise for food rather than dive for it.

When you're not having any luck with a sinker and bobber rig, try taking off the sinker and letting the bait drift naturally.

# END OF THE MONTH



## ON GOOD USED CARS!

1954 CHEVROLET, 4 Door Bel Air

W. W. tires, heater, str. shift.

**\$495<sup>00</sup>**

1956 MERCURY 2 Door Hardtop

Black & white, radio, heater, power, automatic.

**\$1095<sup>00</sup>**

1954 MERCURY 4 Door Monterey

Radio, heater, W. W. tires, auto. trans.

**\$445<sup>00</sup>**

1958 OLDSMOBILE Super 88 Conv.

New top, radio, heater, W. W. tires, power steering & brakes, auto. trans.

**\$2095<sup>00</sup>**

1954 LINCOLN 4 Door Sedan

Power steering, power brakes, radio, heater, new W. W. tires.

**\$395<sup>00</sup>**

1960 FORD RANCH WAGON 2 Door

9,000 actual miles, spare never been used, baby blue & ivory finish, straight shift.

**\$2295<sup>00</sup>**

1955 CHEVROLET V8 4 Door Bel Air

Radio, heater, automatic, as clean as they come.

**\$995<sup>00</sup>**

1952 FORD 4 Door Sedan

Radio, heater, a little rough but good transportation. WAS \$99.00.

NOW ----- **\$95<sup>00</sup> CASH**

EASY FINANCING !!

OPEN 'TIL 8:30 P.M. DAILY

# MILES SUPER AUTO SALES

J. H. "PREACHER" WADE  
2301 S. Mem. Parkway

SEARCY MILES, Salesman  
Phone JE 6-0706

Quality  
PICTURE  
FRAMING

at

WILSON  
Furniture Co.  
110 W. CLINTON

LOANS  
UP TO \$2000



Everybody needs money sometime! When you do, Phone: JEFFERSON 6-8591 before noon to arrange for money the same day!

**MUTUAL**

INDUSTRIAL FINANCE CORPORATION of Huntsville

106 South Side Square  
Phone: JEFFERSON 6-8591

Other MUTUAL Offices  
IN FLORENCE

113 East Tennessee Street  
Phone: ATwater 2-9271

IN DECATUR

121 East Moulton Street  
Phone: ELgin 3-4413

Pertains to loans above \$300

### Orbit Data Charts Compiled by ARGMA Men Are Published

Two Redstone Arsenal scientists have devised a method of quickly determining satellite and planet orbits without the lengthy computations previously required.

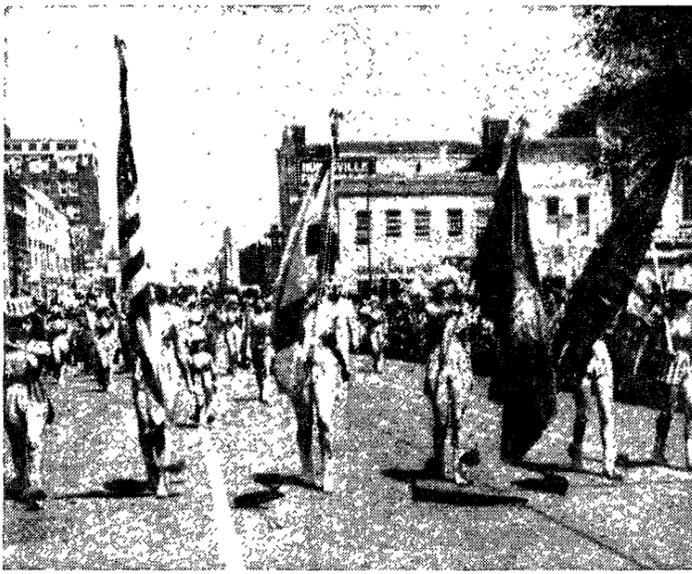
The men are Dr. Ferdinand Mitchell and Mr. Thomas Moore of the Army Rocket and Guided Missile Agency.

Until the charts, or nomographs, were devised by Moore and Mitchell, lengthy computations had to be made before satellite orbits around the earth or planets and asteroids orbiting the sun could be located precisely in space.

Missiles and Rockets Magazine explains how to use the charts to plot orbits, and has also published the scientists' Satellite and Planet Orbit Charts in its May 9 issue.

Dr. Mitchell and Mr. Moore have been with various Army Rocket and Guided Missile Agencies for 7 and 12 years respectively.

Mr. Moore has been active in



**MAJORETTES ON THE MOVE**—Pretty high school majorettes, patriotically attired in red, white, and blue uniforms add eye-appeal to Huntsville's Armed Forces Day parade Saturday. School bands participating in the parade included Huntsville High, Butler High, Alabama A&M College, Council High, Huntsville Junior High, New Hope High, and St. Mary's School.

### SURE 'T WAS ONLY 18 YEARS AGO

On May 18, 1942, a large American Expeditionary Force landed in North Ireland, preparatory to setting up training and air bases in England.

rocketry since the 1945 experiments at Fort Bliss, Tex.

Dr. Mitchell is a consultant to the Army Rocket and Guided Missile Agency and Professor of Physics at the University of Alabama.

### ONE FOR THE ROAD

Medical authorities say that alcohol is not a stimulant. In fact, it has a doubly depressing effect — both on the nervous system and the accelerator.

## Selected HOMES EQUITIES

4300 BLUE SPRING RD. — 3 bedroom, brick home with carport and 2 baths. This home is ready for occupancy. Purchase equity of \$1,195 and start payments June 1 at \$89.25 per mo.



3614 PRINCESS ST. — This home is situated on 3/4 acre lot with shady pine trees on back of lot. Very nice 3 bedroom brick home that you can own for equity of \$1,500. with monthly payments only \$71.90.



2711 HOLIDAY DR. — Well cared for 2 bedroom and den bricked home in good location of town. Equity can be purchased for \$1,995 with balance of loan \$11,000. Monthly payments only \$71.00.



3511 OLEANDER CIRCLE for \$1,200 invested you can live in this home with payments cheaper than rent at only \$74.50. This is a 3 bedroom home with 1 1/2 baths.



4409 KENWOOD RD. — A 3-bedroom brick home with garage. Own this home for \$1,995 equity. Move in today. Payments \$90.50 per month.



Nights: Call **JOE T. MATHIS**  
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**NOBEL F. FOWLER**  
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PHONE JE 9-1759

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Equity or re-financing available or will consider your offer. Close in. 3 bedroom home with lots of extras.

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4204 Toftoy Drive

## Powell Sub-Division

GI - FHA & CONVENTIONAL FINANCING

1. Very deep lots, ideal for playground in each back yard.
2. Sewage line.
3. Curbs and Gutters.
4. Nice 3 bedroom homes with good brick.

### JESS BROOKS REAL ESTATE

3405 Governors Drive — Yellow Building Across From Martin Stove

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YOU CAN OWN YOUR OWN HOME  
IN ONLY 5 YEARS.

(✓) These advantages: One dollar (\$1.00) and your deed is all you need! A deed to your lot and one dollar with monthly payments as low as \$30.72 per month for only 5 years.

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THE MOST HOUSE FOR YOUR MONEY



NO DOWN PAYMENT  
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## \$10000

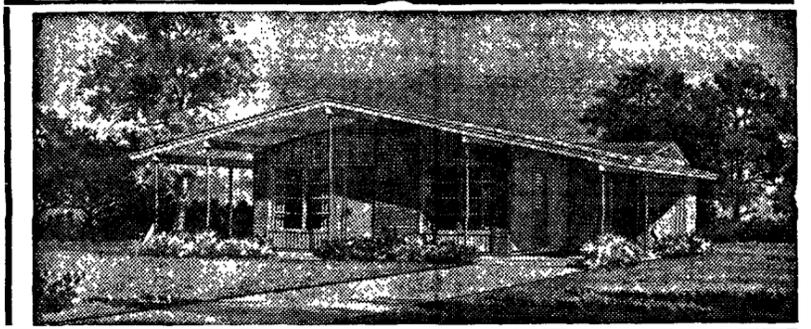


DOWN PAYMENT

### \$40000

CLOSING COST

### \$10000



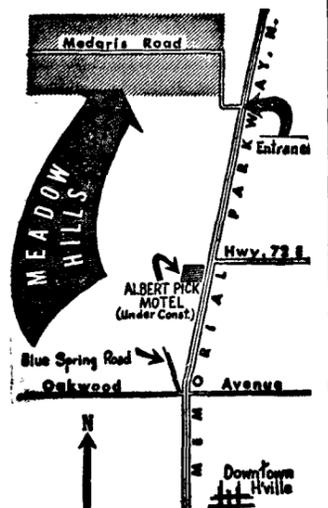
\$12,100.00 — \$13,350.00

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15,000 Satisfied Residents Living in Homes Built in the South—Homes of Value—Neighborhoods of Happiness—Located Close to Shopping Centers—Schools — and Churches—Planned to Ever Increase in Value While Providing the Maximum Pleasure and Comfort for the Whole Family—Compare the Values Found in These Homes —The Most House for the Money—Drive Out Today—Follow the Map Illustrated at the Right. Model Homes Open for Your Convenience Day and Night. Please Call for Any Other Information—JE 6-2301—JE 6-9822.

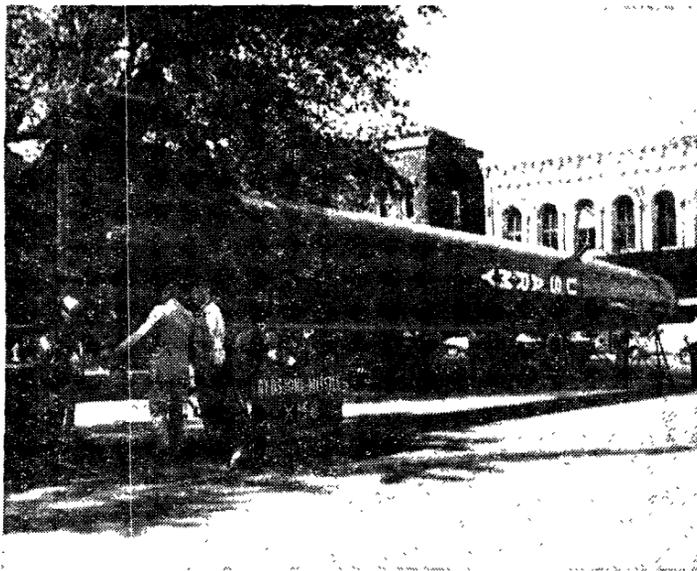
## FOLMAR & FLINN SALES



### Births at Post Hospital

Frances Rose Carr, 6 lbs 15 ozs, May 10, daughter of Sgt. and Mrs. Bobby H. Carr.  
 Susan Ann Rehm, 6 lbs. 6 ozs. May 11, daughter of Capt. and Mrs. William L. Rehm.  
 Sandra Adrine Mitchell, 6 lbs. 1 oz. May 13, daughter of pfc. and Mrs. Joseph A. Mitchell.  
 Roberta Jean Crepeau, 6 lbs. 11 ozs. May 13, daughter of WO and Mrs. John L. Crepeau.  
 Kimberly Irene Mullin, 5 lbs. 15 ozs. May 16, daughter of 2/Lt. and Mrs. James A. Mullin.  
 Cynthia Rose McDonald, 8 lbs. ½ ozs., May 16, daughter of PFC. and Mrs. Leslie E. McDonald.

**FORTY-FIVE YEARS AGO.**  
 The Army and the Post Office Department cooperated (May 13 1915) in the first air-mail flights



**REDSTONE ON DISPLAY**—Giant Redstone was part of massive display of America's missile might ringing Huntsville Courthouse Square during Armed Forces Day observance Saturday.

— from Washington to New York . . . .

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 "We must evaluate and believe in our own strengths. Greater knowledge, more work, and a true perspective will confirm our moral values and increase our will. We can ill afford to reward the preacher of the negative, to publicize and acclaim the listing of things that are wrong, with no word on how to improve them."  
**SECRETARY OF DEFENSE**  
 THOMAS S. GATES, JR.

**FOR QUALITY AND PRICE**  
 Buy in Convenient  
**REDSTONE SUBDIVISION**  
**FHA \$650 DOWN — G. I. \$200 DOWN**  
 (Closing Costs Included)  
**3 BEDROOM BRICKS — CITY SEWER — CARPORTS**  
**PAVED DRIVEWAYS — OAK FLOORS (No Slabs)**  
**From \$13,000**

DIRECTIONS: 3 blocks east of Jordan Lane on Bob Wallace—Look for our signs.  
 Monthly Payments As Low As \$83.10 (Tax & Ins. Incl.)

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Open Weekends and Evenings

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Some have built-in range and oven — 1½ & 2 baths. Sliding glass doors to patio. Near Gate 9. Go out the old Madison Pike toward Madison. Nolan Hills on Right.

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## ✓ These Home Buys SPECIAL

1608 SUN VALLEY CIRCLE—(Montdale) 3 extra large bedrooms, living room and dining room combination, 2 full ceramic tile baths, carport with double drive, cyclone fence and patio —over 1600 sq. ft. of living area. EQUITY SALE \$3950.00.

2508 SUZANNE TERR. N. W. 3 bedroom and family room brick, extra large, kitchen, living and dining room combination, carport with storage room. FHA equity \$2,400. This is truly a buy.

808 WOODALL LANE—2 bedrooms and den, air conditioned up to minute kitchen with dishwasher. Priced \$15,500. Only \$650.00 down.

3410 LEROY - Pecan Grove—3 bedroom brick with carport and FHA equity \$1450.00. Balance of \$9,882. Payments \$70.24 mo., inc. taxes and insurance.

GILES DRIVE: Now under construction, 3 bedroom brick, 1½ bath carport. Buy now and choose your colors. \$13,800.00. FHA financed.

### Only 2 Left in The Highlands Subdivision

ON McCLAIN LANE — 3 large bedrooms, 2 ceramic tile baths, kitchen and family combinations attached, garage, large level lots. G.I. - F. H. A. or Conventional Financing.

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Beautiful Third Addition

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Drive out today and you see for yourself how you too could enjoy "Town & Country Living At Its Very Best."

INSPECT OUR

## 4 MODEL HOMES

One is beautifully furnished by Mrs. R. E. McCurry. This is a real treat. We also have what many home buyers tell us is the finest

## 4 BEDROOM PLAN FLOOR

for a home of this size and price. Of course you can use the fourth paneled room for a den. Home buyers also tell us that we have the best home buys in Huntsville's choicest location. It is hard for some of them to believe that they can buy a home of this calibre and quality on a GI loan.

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30 beautiful building lots just outside city limits, exclusive homes only.

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10 acres level land near Monrovia with 6 room house.

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— GI — And Only — FHA —  
 \$150 Closing Costs  
 NO DOWN PAYMENT PRICED FROM \$12,700 to \$14,000 MINIMUM DOWN PAYMENT

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 Drive South on the Parkway . . . turn right on Bob Wallace Avenue. Continue West—turn left on Holiday Drive . . . you will see our signs.  
 Salesmen on Premises Daily

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3  
 Bedroom  
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 Baths

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