

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. XI; NO. 15

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

AUGUST 22, 1962

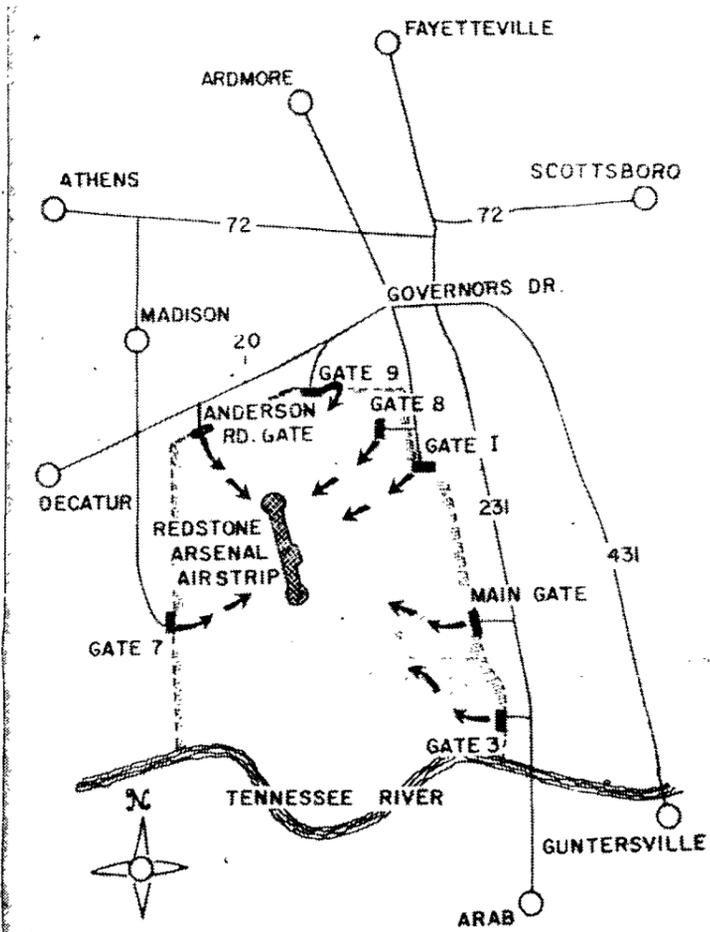
Traffic Officials Ready To Handle Record Crowd

Graham Scheduled To Arrive Aug. 25 For Revival Meeting

The Army Sunday reported it had completed arrangements to handle visitors attending a religious service at the Redstone Arsenal airfield Aug. 26 when Evangelist Billy Graham will speak. The Army Missile Support Com-

rain or shine at the Arsenal airfield beginning at 4:00 p.m., Aug. 26. It will be Dr. Graham's first appearance in North Alabama.

Other members of the Graham team scheduled to participate in the service include Cliff Barrows, George Beverly Shea and Ted Smith. The Army said 2,100 special badges have been issued to members of the mass choir which



BEST ROUTES TO REDSTONE—State and municipal law enforcement officers have urged persons planning to attend an outdoor service at Redstone Arsenal Aug. 26 when Evangelist Billy Graham will speak to use these routes to reach the Arsenal gates. Directional signs will be posted on all major traffic arteries leading into Huntsville. The service will be held rain or shine on the Arsenal airfield beginning at 4:00 p.m. Arsenal gates will open to the public at 8:00 a.m.

mand at Redstone and the Huntsville Ministerial Assn. are jointly sponsoring the service.

Dr. Graham is scheduled to arrive at the Huntsville-Madison County Airport about 10:30 a.m. Aug. 25.

The outdoor service will be held

will sing at the service. The group will rehearse for an hour before the service begins.

Army and civil authorities have made detailed arrangements to expedite traffic movement to and from the airfield.

(See BILLY GRAHAM, Page 2)

Governor's Citation Goes To Richard F. Carlson

An Army Missile Command handicapped employe received a governor's citation for achievement in ceremonies here last week.

Richard F. Carlson, supply cataloger with the Engineering Division of the Procurement and Production Directorate at the Missile Command, was presented the citation by John B. Wood of Decatur representing Gov. John Patterson and the President's Committee for the Employment of the Physically Handicapped.

Carlson transferred to Redstone Arsenal from the Mallory Air Force Depot at Memphis in May 1960.

He suffered a spinal injury in an automobile accident in 1948. Paralyzed from the waist down, Carlson has been confined to a wheel chair ever since.

He has been nominated for the

President's Trophy for the "Handicapped American of the Year."

Carlson is a veteran of World War II and served overseas in Iran. He was married in 1954 to the former Miss Dorothy Churchill of Caruthersville, Mo.

Following his accident, he was a patient in the Kennedy Veterans Hospital at Memphis for two and one-half years for treatment and rehabilitation. Upon discharge from the hospital, he attended the Little Rock University at Little Rock, Ark., and Memphis State University at Memphis, Tenn.

He worked nights while attending college and entered federal employment at the Air Force Depot in Memphis in 1954.

Carlson is a director of the National Paraplegic Foundation. He was forced to delay his departure (See HANDICAPPED, on Page 2)

ARMY SECRETARY ANNOUNCES

Brig. Gen. Hurst to Retire



BRIG. GEN. RICHARD M. HURST

General Gives No Indication Of Future Plans

Secretary of the Army Cyrus R. Vance Aug. 16 announced that Brig. Gen. Richard M. Hurst, Deputy Commanding General, Ballistic Missiles, U. S. Army Missile Command, will retire Sept. 30, after more than 25 years in the Army.

There was no immediate indication of Gen. Hurst's retirement plans nor replacement for him at the Missile Command.

Gen. Hurst came to Redstone Arsenal in May of 1960 as a colonel and was promoted to brigadier general the following July.

As Commander of the Army Ballistic Missile Agency he supervised rebuilding the Army ballistic missile development capability following transfer of certain elements of the Agency to the National Aeronautics and Space Administration.

While at Redstone he directed the technical supervision of Army missiles that follow a predetermined path of flight. This responsibility included research and development, and deployment.

Under Gen. Hurst's leadership the Pershing selective-range ballistic missile system progressed through the test-firing stage to the activation of the first Pershing battalion. Pershing holds one of the best test-firing records of any U. S. missile.

A graduate of Purdue University in electrical engineering, he also has degrees of Master of Business Administration and Doctor of Philosophy from Northwestern University.

Upon graduation from Purdue University, he was commissioned as a reserve officer in the Field Artillery. For the next five years he worked as an engineer with the Public Service Company of (See GEN. HURST on Page 2)

Programs on Missile 'B' Defined by Two Contracts

The Army announced selection of the Chance Vought Division, Ling-Temco Vought, Dallas, Texas, and the Chrysler Corp., Detroit, Mich., Aug. 15 to conduct the program definition phase of Missile B, the proposed new division general support missile.

During this phase, Chrysler and Chance Vought will refine and improve their previously submitted proposals for design of the Missile B weapons system. They will also accomplish additional and

more detailed planning for its development and production.

Contracts to be negotiated with the two corporations will have a total dollar value of greater than one million dollars.

Provided the program definition phase shows adequate promise, the Army plans to select one of the corporations as the prime contractor for its new missile.

Missile B is planned as a simple, rugged and reliable weapons system. (See MISSILE 'B' on Page 3)



NO HANDICAP—Richard F. Carlson, a wheelchair-confined employe at the Army Missile Command accepts a governor's citation for meritorious achievement for handicapped persons from John B. Wood of Decatur, Ala. Wood presented the citation to Carlson in behalf of Gov. John Patterson and President Kennedy's Committee for the Employment of the Physically Handicapped. Maj. Gen. Francis J. McMorrow of the Missile Command and Mrs. Carlson were present for the ceremonies. Carlson, a supply cataloger with the Engineering Division of the Procurement and Production Directorate, was nominated for the President's Trophy for the Handicapped American of the Year by Lt. Gen. August Schomburg, former commanding general of the Missile Command.

The Redstone Rocket

The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama, Bldg. 5250, Room A-136, Extension 876-4151. All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Alabama, P. O. Box 346, telephone 534-4701, as representative of the publisher.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.15 a year, or \$2.33 for six months, Alabama sales tax included. Mailing arrangements may be made with the publisher.

Rocket Ruminations

Somebody said that it couldn't be done,
But he with a chuckle replied
That "maybe it couldn't," but he would be one
Who wouldn't say so till he'd tried.

—Edgar A. Guest

Out For Baseball

Redstone Arsenal will play host next week to the 1962 United States Third Army Baseball Tournament.

There's nothing more exciting on a late summer day than a good baseball game. When you get five days of tournament play, you can expect to see the best.

So, check the sports section of this week's ROCKET for next week's tourney schedule. Then, if you can find the time, take yourself out to the ballgames.



Climax to a Fine Career

More than 25 years of military service to the United States comes to an end September 30 for Brig. General Richard M. Hurst, Deputy Commanding General, Army Missile Command.

General Hurst came to Redstone Arsenal in 1960 and has performed distinguished service during the two difficult years that followed. It was during this period that space responsibilities were transferred from the Army at Redstone to the National Aeronautics and Space Administration. The outflow of personnel and facilities to the new agency would have tried the abilities of any Commander, but General Hurst successfully met the problems face-on, at the same time helping direct the continuing research, development and production of missiles.

Having helped bring the Missile Command into its present re-organization with increased responsibilities and functions, General Hurst now plans to return to civilian life. His many friends and co-workers at Redstone Arsenal wish him the best wherever he goes and whatever he does.

GEN. HURST

(Continued From Page 1)

Northern Ill., the Commonwealth Edison Company of Chicago, and the Northern Indiana Power Company.

In 1935 Gen. Hurst began a three-year tour of active duty in the Army serving in the Field Artillery.

Following his discharge he accepted a position with the Indiana Statewide Rural Electric Membership Corporation and was a field engineer with the company for one year.

He then became manager of the Jay County Rural Electric Membership Corporation, Portland, Ind. He returned to active duty in 1940, serving with the Ordnance Corps, and was integrated into the Regular Army in 1945.

Wartime duties took him to Ft. Benjamin Harrison, Ind.; to Ft. Hayes, Ohio; and to the Central Pacific Area where he served successively as Assistant Ordnance Officer of the Hawaiian Department, as Commanding Officer of the Hawaiian Ordnance Depot; as Assistant Ordnance Officer of the Island Command; and later as Commanding Officer of the Provisional Base Depot on Okinawa.

Gen. Hurst is married to the former Ailene Kinzie of Mexico, Ind. The couple have two children, Second Lt. Nicholas R. Hurst, Fort Bliss, Texas, and Susan who attended Westlawn School, Huntsville. The Hursts reside at Redstone Arsenal.

HANDICAPPED

(Continued From Page 1)

for Washington, D. C., where the Foundation meets, to receive the citation. Less than an hour after receiving the citation, Carlson was on a plane for Washington.

He has been active in rehabilitation work for totally disabled non-veterans and served as president of the Mid-South Paralyzed Veterans Association for two years. He also served as vice-president of the Paralyzed Veterans of America and is currently the Alabama State Director for the Mid-South Paralyzed Veterans Association and is a delegate-at-large for the Alabama Wheel Chair Society.

He was nominated for the President's Trophy by Lt. Gen August Schomburg, former commanding general of the Missile Command.

In his letter of nomination Gen. Schomburg wrote, "His (Carlson's) admirable adjustment to his handicap is reflected by his zest for life and the high quality of his daily work. He is cited as an example and inspiration to all others for the manner in which he attends his job and executes his

BILLY GRAHAM

(Continued From Page 1)

Col. Robert M. Allgeier, Army Missile Command project officer for the event, said every effort would be made to make it as convenient as possible to attend the outdoor service.

"We are prepared to handle everyone who wants to come," Col. Allgeier said.

Military police will direct traffic flow on the Arsenal. State and municipal law enforcement officials will supervise vehicle movement elsewhere.

Jimmy Walker, general manager of the Huntsville Chamber of Commerce, said the chamber has made arrangements to have wrecker service available for motorists.

Arsenal gates will open at 8:00 a.m. on the day of the service. Routing directions to the Arsenal gates will be posted on all major roads leading into Huntsville.

Eastbound traffic approaching Huntsville via Highway 20 from Decatur will be directed to Arsenal Gates 7 and 9. Anderson Road leading off Highway 20 west of the Arsenal will also be open. Traffic eastbound from Athens on Highway 72 will merge with southbound traffic on the Ardmore Highway from Ardmore, Tenn., at the Ardmore Highway (Jordan Lane) intersection with Highway 72 and be directed to Arsenal Gates 1 and 8.

Southbound traffic on Highway 231 from Fayetteville, Tenn., autos northbound from Birmingham and vehicles travelling westbound from Scottsboro on Highway 72 and Guntersville on Highway 431 will be directed to Arsenal Gate 3 and the new main gate which have access roads connecting to Highway 231 south of Huntsville.

Visitors who plan to arrive at the Arsenal early in the day were advised to come prepared with box lunches. Army officials said visitors who may desire to eat their evening meal in the picnic area adjoining the airfield after the service will be allowed to do so.

Persons attending the service have been advised to bring blankets or cushions to sit on. Visitors will be asked to take seats on the runway of the airfield or the adjoining grass. Chairs will not

duties." The Carlsons live at 3523 Marioposa Road, Huntsville. Mrs. Carlson is employed in the personnel office of the Marshall Space Flight Center.

be provided and their use is discouraged since persons with folding chairs will block the view of those seated behind them.

Arrangements have been made to have mobile snack bars, fresh water, first aid stations and sanitary facilities at the site of the service.

Telstar, the world's first trans-Atlantic space satellite television relay, is sending scientific data back to earth in addition to amplifying and resending communications between Europe and the United States.



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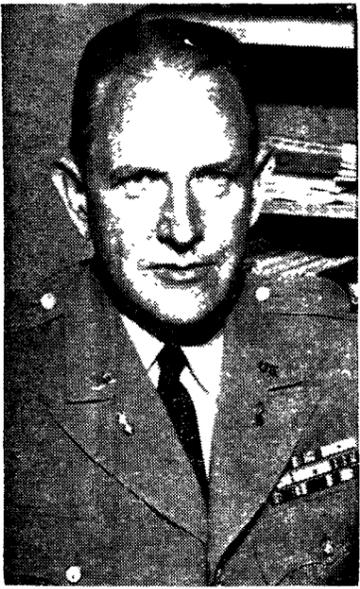
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ARMY RESEARCH OFFICER— Col. Nils M. Bengtson has been named Deputy Commanding Officer of the Army Research Office—Durham, and assumed his new duties at AROD earlier this month.

Bengtson has also been designated to succeed the present commanding officer, Col. George W. Taylor, on October 1. The Army Research Office-Durham is the national headquarters for the planning and conduct of the basic scientific research program in mathematics and the physical sciences sponsored by the Department of the Army. Col. Bengtson has had a succession of duty stations related to the Army research and development program, with emphasis on the guided missile programs, including liaison officer between Army and the Navy Polaris Missile Project, and in various top positions at the Army Ballistic Missile Agency and the Army Ordnance Missile Command.

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MISSILE 'B'

(Continued From Page 1) tem. It will complement conventional artillery in combat divisions by providing nuclear and non-nuclear supporting fire on the modern battlefield. Missile B will eventually replace the Honest John and Lacrosse weapon systems.

Eight different corporations submitted proposals for the program definition phase. Included in their proposals were their statements of capability for development and production of Missile B.

These factors, together with their schemes of design were closely evaluated by the Army Missile Command. The Chance Vought and Chrysler concepts were selected as the most promising to meet Army needs.

Once contracts are awarded, they will be under the technical supervision of the Army Missile Command.

Missile B is one of several Army missile programs selected for specialized management by the Army Materiel Command, of which the Missile Command is an element.

Col. W. W. Holmes of the Mis-

Main Gate Opens 'Round the Clock

Col. Thomas W. Cooke announced yesterday that Redstone Arsenal's new main gate providing direct access from the center of the Arsenal to Memorial Parkway south of Huntsville Airport will be open around the clock seven days a week.

Col. Cooke, Commander of the Army Missile Support Command, said the new gate may also now be used by persons desiring to visit either Army activities on the Arsenal or the NASA Marshall Space Flight Center.

Facilities and personnel have been provided to issue visitors' badges at the new gate. Heretofore, the gate and new access road had been open for only limited traffic by Arsenal employees during work days.

The Army and the State of Alabama combined on construction of the new access route. The Army

project manager.

extended Martin Road east from its intersection with Patton Road on the Arsenal to the Arsenal boundary. The state handled construction of the two lane link from the Arsenal gate to the parkway. Construction of an overpass carrying the road above Memorial Parkway and east to its eventual terminus at Whitesburg Drive is now nearing completion.

Last week the Army opened for full traffic use a new overpass and traffic interchange on the Arsen-

al carrying Patton Road above Martin Road in a further effort to expedite vehicle movement on and off the Arsenal.

John Paul Jones, American Revolutionary War hero, served as a rear-admiral in the Russian Navy under Catherine the Great from 1788-89. He left the U. S. when the American Navy was temporarily discontinued in 1783.



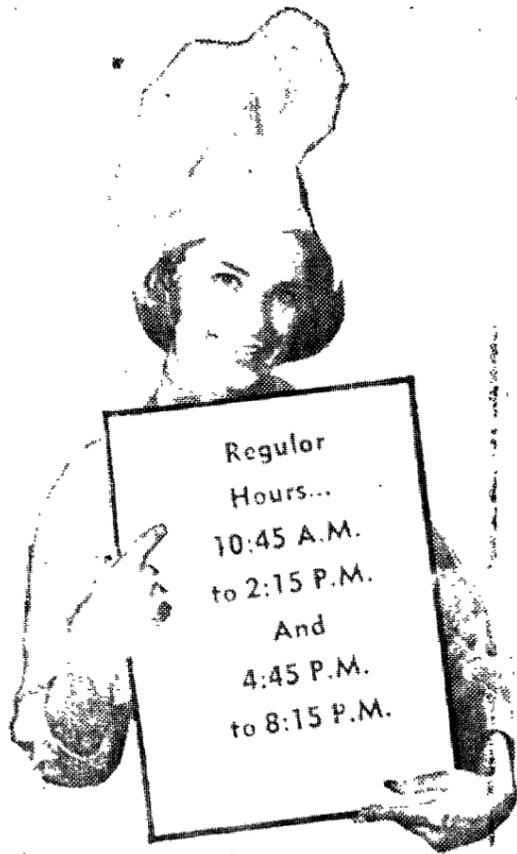
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NORTHSIDE SQUARE DOWNTOWN

Littlejohn Gets New Suit For Lounging in Storage

Missile Magic Is Compounded From Ingenuity

Using a particular brand of missile magic known as improvising, soldiers and engineers of the Army Missile Command have pulled a new and economical missile container figuratively out of thin air.

But the solution was a practical exercise, rather than waving a magic wand. For shipping and storing purposes, troops in the field needed a dehumidified, airtight container for the Army's operational Little John artillery rocket.

Reports had come into the Supply and Maintenance Directorate at the Missile Command from units in the fields that the existing container was adequate for shipment, but it could not fully protect the Little John during long storage under humid conditions.

Solve The Problem

Procurement and Production Directorate personnel were called in to help solve the problem. Col. Frank E. Napper, deputy chief of the directorate, suggested producing a better container for Little John by cutting down those used for the Nike Ajax guided missile.

First of the Nike family that includes Hercules and Zeus, Nike Ajax is an anti-aircraft missile that is being retired from service after many years of guarding the nation's key cities from air attack.

The Nike Ajax had a sealed and

pressurized container, but its length was 22 feet compared to only 11 feet needed to house Little John. Welders of P&P's Engineering Division went to work to shorten the container. They cut two sections out of the Ajax container to make a snug fit for the Little John.

One Improvement

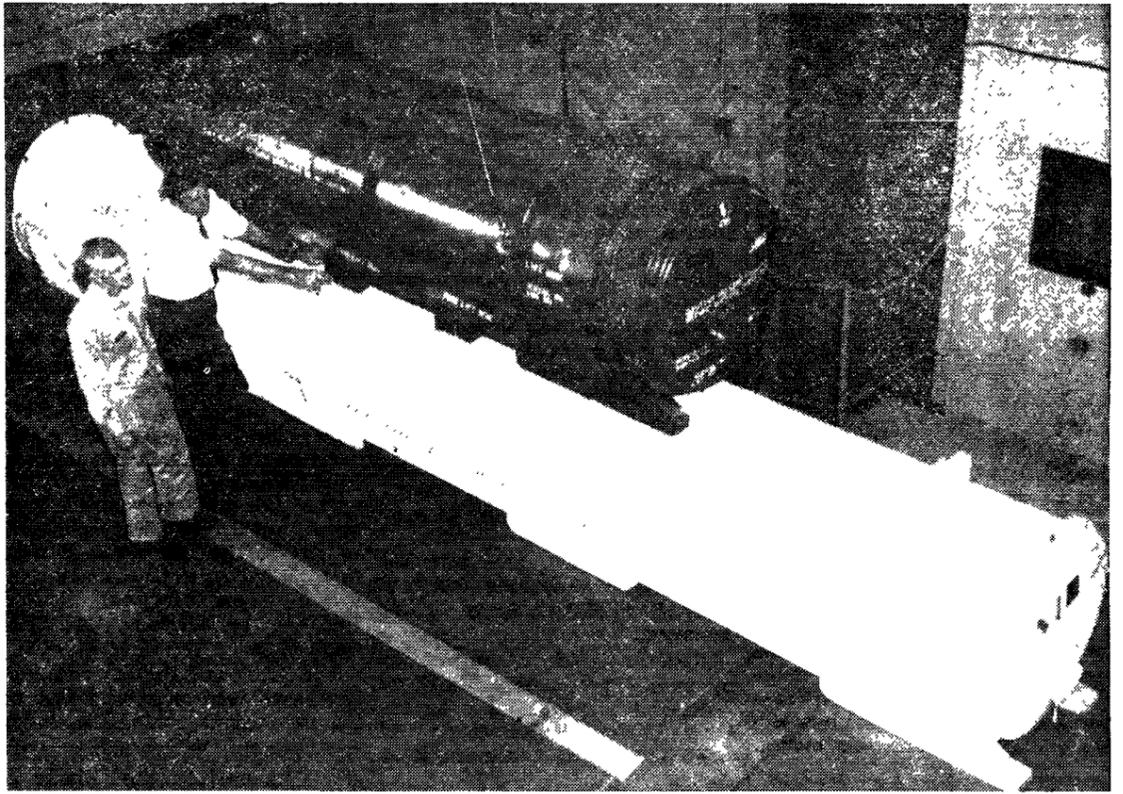
One improvement led to another. The designers found they could use Nike Ajax movable rail assembly for quick and easy inspection of Little John in the container. S&M personnel worked closely with P&P designers to insure that the new container would meet all handling requirements.

A different type of shock mount was substituted for conventional Nike Ajax shock mounts used to protect the missile during rough handling. The new mounts cut 40 pounds from the weight of the container and only four mounts instead of eight were needed to support the missile.

Simplicity was maintained in renovating the Ajax container to fit Little John. When P&P's Engineering Division experts were finished, two men could open the new container in five minutes without the use of special tools.

New Suit Tested

Little John's new suit then went through a series of rough-and-tumble tests to prove its ability to stay buttoned under any condition. It was dropped flat, on end, and on edge to test the container's ability to protect the missile inside from heavy shock.



MISSILE CAPSULES—Arthur Pryor (right) and Lt. Duane Kuske compare the Little John modified container in khaki with its parent container in white, the Nike Ajax. The Nike missile capsule, originally 22 ft. was cut down and adapted for use with the 11 ft. Little John.

The tests were repeated under environmental conditions ranging from subzero to plus 140 degrees.

The redesign of the Nike Ajax containers was done entirely by the P&P Engineering Division in a matter of days compared to the months necessary to design a completely new container. Robert K. Wisco was project engineer

for P&P; Leonard Woodward, coordinator for S&M, and Arthur Pryor of the Engineering Division supervised the shop work needed for modification.

Future modification work on the Nike Ajax containers will be done at Watertown Arsenal, Mass., an element of the Missile Command with extensive shop facilities necessary for line production of the modified container.

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BLOOD REPLACEMENT—Joan Nagle, a Gray Lady assistant at the Red Cross Bloodmobile, signs Fred Henson on the blood replacement ledger. Henson donated his rare TJa negative blood to a lady in Virginia about to undergo surgery at the University Hospital.



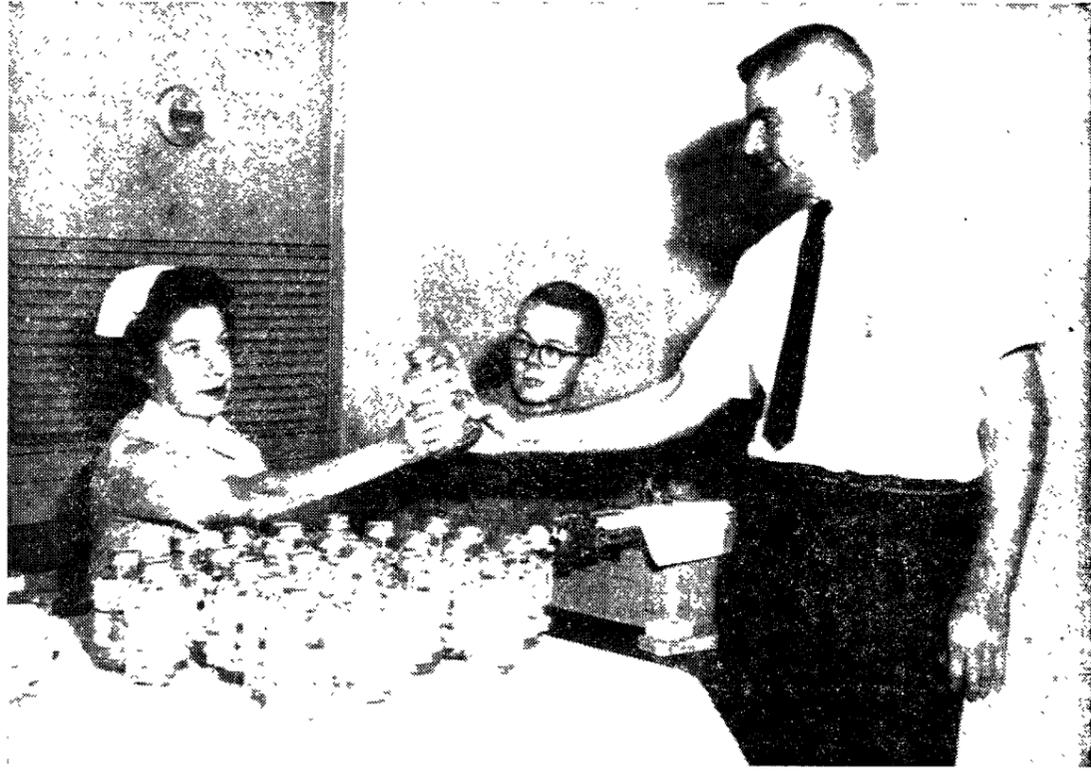
PREPARATION—Red Cross Nurse Billie Propst takes a blood sample from Fred Henson's finger to determine whether it will coagulate properly for use on a hospital patient with the same rare TJa negative blood as Henson's. This type will not mix with another type.

Henson Donates Rare Blood To Patient in Virginia

One of only nine people in the country known to have TJa negative blood was among donors at the August visit of the Red Cross Bloodmobile at Redstone Arsenal, last week.

He is Fred Henson, an employe in the Steam Plant Section of the Post Engineer, Army Missile Support Command.

Five hundred and fifty-six donors were processed during the



NUMBERED BOTTLE—Fred Henson (right) accepts the numbered bottle which was subsequently flown to the University of Virginia hospital for use on a patient about to undergo surgery. The Gray Lady is Mrs. Harry C. McClain, the clerk, SP4 John Phillips. Henson and the woman for whom he was a donor are two of nine people in the country known to have TJa negative blood.

monthly visit to the Arsenal, including representatives from the Army Missile Command, the Army Missile Support Agency, the Army Ordnance Guided Missile School, the Marshall Space Flight Center, contractor employes and military personnel.

Henson's donation was in answer to an appeal received by the Army Red Cross Field Director, James Hudgins, to insure the suc-

cess of surgery on a patient at the University of Virginia Hospital. The blood was flown from Birmingham to the bank in Charlottesville, Va.

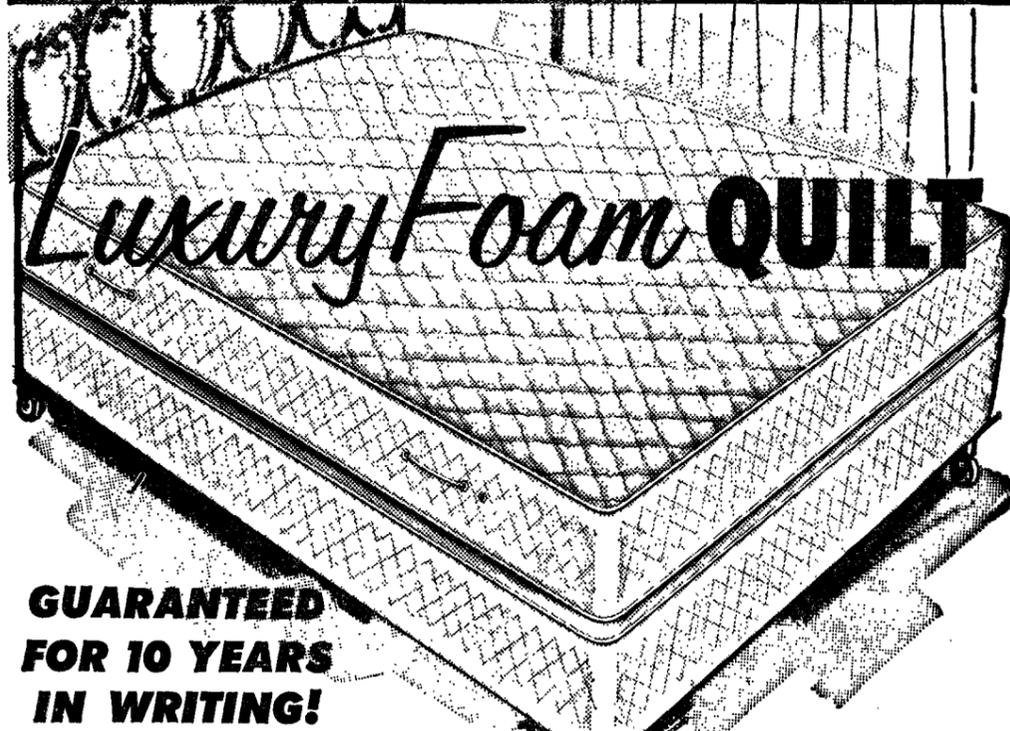
Technicians and scientists know that approximately 98 per cent of the population has a small percentage of the TJa negative factor in their blood, but people with this factor alone produce antibodies which forbid mixture with

any other blood type.

Henson acts as a donor only on request. He is a World War II veteran who served in the South Pacific with the Sixth Marine Division.

He has worked at Redstone Arsenal for approximately four years, commuting from Mt. Hope near Moulton, Ala. His family includes two daughters, Mary Frances and Barbara Ann, and a son, Willard—all teenagers.

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BASEBALL

The 3rd U. S. Army Baseball Tournament is on its way here. In another four days, at 1000 hours on Aug. 27 the cry "play ball" will sound. Only five teams will be in the tournament, but they are the most powerful that 3rd Army can produce.

The teams will be arriving on Aug. 25 and 26.

Aug. 27 at 1900 a tournament banquet will be held at the NCO Mess Bldg. 3513. All members of the teams involved will be present.

The teams entered in the tournament are: Ft. Benning, Ga.; Ft. Campbell, Ky.; Ft. Jackson, S. C.; Ft. McPherson, Ga.; and the host team, Redstone Arsenal.

All teams will carry 23 players for the tournament. The first game will follow the opening ceremonies at 10 a.m. Aug. 27. Drawing for the tournament will be held at 2 p.m. Sunday, Aug. 26.

Third Army Baseball Tournery Schedule

- GAME 1—10 a.m., Aug. 27.
- GAME 2—2 p.m., Aug. 27
- GAME 3—2 p.m., Aug. 28
- GAME 4—7 p.m., Aug. 28
- GAME 5—2 p.m., Aug. 29
- GAME 6—7 p.m., Aug. 29
- GAME 7—10 a.m., Aug. 30
- GAME 8—7 p.m., Aug. 30
- GAME 9—10 a.m., Aug. 31

If necessary for a play-off game, it will be held at 10 a.m. Aug. 31. When the championship has been decided, an awards presentation will be held at Linton Field. Everybody is invited to watch the tournament and support their favorite. Spread the good word around.



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TENNIS

In the Leech Cup Matches, an interservice tennis match between the Army, Navy and the Air Force, Army drew Air Force in the first match. Four Singles matches and three Doubles matches were played to see who would play the Navy on Aug. 15.

In the first match, Pvt. Ron Holmberg of the Army downed 1st Lt. Henry Jungle, Jr., 6-3 and 8-6. Holmberg experienced some difficulty in the second set and was unable to break Jungles' serve until the 13th game. In the first set he was down three to one before storming back.

In the match between the number two players, Army's PFC. Robert Beditch, Jr., had little trouble in defeating A2C Robert Delgado, taking him easily in two sets, 6-2 and 6-3.

In the battle between third ranked players, last year's interservice champ (singles), 2nd Lt. Norman Perry ran AF 1st Lt. Stanley Hack, Jr. all over the court and taking 6-1 and 6-1 sets. Perry was sharp in all aspects of the game and defeated Hack in the fastest game of the day. Army's fourth player, SP5 Leslie Dodson, despite a bad hand that plagued him during the Army trials, swept by his opponent AF Donald Rubell in straight sets, 6-2 and 6-3.

The afternoon Doubles matches between the Army and Air Force were cancelled due to rain. The results of last week's matches and finals will be published in the Rocket.

Sports Car Buffs

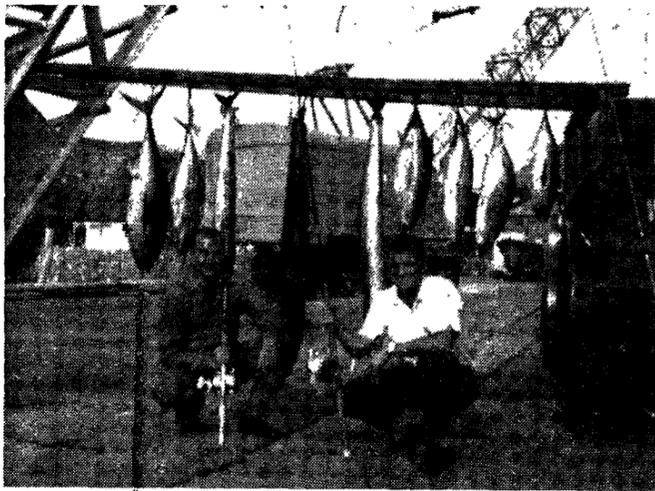
By Ray Mosling

The biggest rally of the year here in Huntsville will get underway the morning of Aug. 25 at the Holiday Inn on south Memorial Parkway. The two-day Heart of Dixie Regional Rallye will take place over approximately 500 miles of paved roads in the beautiful Tennessee Valley area. Saturday's run will cover approximately 350 miles, and approximately 165 miles will be run on Sunday.

Rally headquarters, registration, and technical inspection will be at the Holiday Inn after 6 p.m. on Aug. 24. Breakfast at the Holiday Inn on Sunday will be provided for the contestants and workers by Universal Motors.

Sunday's run will start at 7:30 a.m. at the Holiday Inn. The victory banquet and trophy presentation will be held at 3 p.m. on Sunday at the Holiday Inn.

The turnout of workers for this



FISHERMEN ON ASCENSION—CWO Donald B. Brown (left) from the Crypto Office in the Post Signal Office and Murlen Hornbuckle, a maintenance trouble shooter for crypto equipment, recently spent approximately 72 hours on Ascension Island. On Sunday afternoon they tried their luck with the bonita, wahoo and tuna in the waters off the island and landed a 70 pound wahoo and a 30 pound tuna as well as a mess of bonita which went to the Island hospital. The tuna was presented to the British magistrate.

Anglers Take Time Out From More Serious Duty

Two fishermen can always get a job done in time to wet a line. CWO Donald B. Brown and Murlen Hornbuckle of the Communications Section of the Post Signal Division had such an experience recently.

Brown is the Crypto Officer, Hornbuckle a crypto maintenance specialist. Their job was on Ascension Island in the Atlantic Ocean where they landed Satur-

day, got their work out of the way by Sunday and managed three hours on the ocean with results that gratified them.

The most numerous of the catch were bonitas. They also pulled in wahoos, one of them tipping the scales at 70 pounds—not a record

but a sizable fight for an angler. Both varieties were donated to the Island hospital.

CWO Brown took 25 minutes to pull in a 30 pound tuna on a conventional feather lure. The fish was turned over to the British Magistrate on the island.

At one time the tuna struck three lines at once without a single fish being landed.

CWO Brown and Hornbuckle usually fish for smaller fry. They were throwing back jacks off Ascension that would outweigh the usual bream, perch and trout for which each is accustomed to fish.

The Brown family lives on post at 2220D. Dyers Circle.

The Hornbuckle family lives at 2011 Giles Drive, Huntsville.



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NO MONEY DOWN



QUALIFIED FISH—ALMOST—Jim Attaya displays the fine form he is perfecting in swimming classes conducted by the Special Services Office at the Post Swimming pool. He is also a "Little Leaguer."

Youngsters Take to Water Like Eager Little Fishes

Summertime and the fishes are lazy but not so the 78 youngsters enrolled in the Water Safety Program at the Post swimming pool who are perfecting the art of swimming.

The Red Cross has provided the swimmers with certificates at the completion of instruction within the class in which the swimmers qualify.

Water safety instructors are al-

so qualified lifeguards employed at the pool by the Post Special Services.

More classes will be conducted to advance the groups recently graduated. Certificates have been awarded beginners, intermediates and advanced swimmers. The classes begun this week are in junior and senior lifesaving and intermediate swimming.



RECEIVE CERTIFICATES—Charles (center) and Mike LaReau receive certificates for swimming proficiency from James Hudgins, Red Cross Field Director at Redstone Arsenal. The boys were two of 78 who graduated from three classes of swimmers: beginners, intermediates and advanced.



COOLING OFF—Nine of the 78 youngsters who recently completed classes in advanced, intermediate and beginners swimming cool off in a corner of the Special Services Swimming Pool at Redstone Arsenal. Classes were conducted under the Red Cross water safety regulations and the youngsters received certificates of proficiency upon graduation. Left to right are: Charles LaReau, Nancy Payne, Jim Attaya, John Payne, Jo Kinch, twins Mary and Patricia Kelly, Susan Kinch, and Sandra Ramisah.



SWIMMING COACH—PFC Dick Berner (left) poses with some of the swimmers he has been coaching in the Special Services swimming program at the Post Pool. Kneeling (left to right) are: John Payne, Nancy and Jo Kinch. Standing (left to right) are: Sandra Ramisah, and twins Patricia and Mary Kelly.

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**MRS. KIRCHHOFER
LT. BAUER WIN
AT MONDAY BRIDGE**

Winners at Monday night party bridge last week were Lt. Hugh Bauer and Mrs. M. L. Kirchhofer. The Group meets at the Squirrel Hill Officers Club. Eight tables were in play. Second high for the men was Lt. Col. Jesse Fishback, for the women Mrs. Winford Patton. Reservations are handled by Mrs. E. M. Krembs.

**Toastmistresses
Meet at Sahara**

"Language — In Our World and Our Community," was the program theme of last Wednesday's dinner meeting of the Huntsville Toastmistress Club at the Sahara Motel.

Miss Lucile Hambrick served as Toastmistress. Mrs. S. Enoch Nilsson was awarded the best speaker's cup for her presentation of "The New Dictionary." Mrs. N. T. Leonard was voted the best topic speaker of the evening.

The next meeting will be held Sept. 5.

WIVES BEGIN BOWLING

The Bowling Group, sponsored by the Redstone Arsenal Officers Wives Club will begin its season Sept. 14 at the Arsenal bowling lanes.

Contacts for those interested in bowling in the league are Mrs. L. F. Deppensmith, 536-1226 and Mrs. H. B. Holmes, 877-4045. Deadline is Aug. 31.

SOCIAL and CLUB EVENTS

**Newcomers Coffee Draws
125 Members and Guests**

The Newcomers Coffee sponsored by the Redstone Arsenal Officers Wives Club drew approximately 125 new and old members to the Squirrel Hill Officers Club a week ago Tuesday.

Mrs. George E. Pickett turned over the president's gavel to Mrs. W. F. Higgins. Mrs. Pickett will remain in Huntsville when her husband, Brig. Gen. Pickett leaves the Army Missile Command for a new assignment with the Eighth Army in Korea. Mrs. Pickett will remain active as an associate member of the Wives Club.

Mrs. Higgins was recently installed as the vice president. Her successor has not been named.

One new activity was featured among the booths showing the various activities sponsored by the Wives Club: a ceramics display. Other recreational activities the club sponsors are a sewing group, gardening, golf, bridge, canasta, bowling, and square dancing.

Social services include the Joint Activities Council, the Teen Club, the Thrift Shop, Scouting, and the Red Cross.

Mrs. James O. Green was in charge of the hospitality and Mrs. Higgins arranged the program.

At the Service Club

As I look back through my little red book, I recall many of the good times that we have had at the Service Club during the summer months. Watermelon cuts, swim parties, wiener roasts, dances, a jam session, and a Post-Wide Pool Tournament were some of the big activities for June, July, and August.

The last week of August will be ushered out with activities planned to fit everyone's taste. Contests, dance classes, and a record dance are a few of the programs in store for you this week.

Tonight Sgt. Frank Guerrez will teach the beginners dance classes at 1800 hours. Later at 2000 hours the Advanced Students will be shown that certain style, which every good dancer should know.

Come with your favorite partner and play that special card game when we have Cardboard Kapers in the Little Lounge. The date will be on Thursday, Aug. 23, at 1930 hours.

Every Enlisted Man likes to shoot pool!! I know this to be a fact, because our four pool tables very seldom remain idle. Since you shoot pool often, enter the Pool Contest on Friday, Aug. 24, at 2000 hours.

Chess is another popular game played, especially on Saturdays and Sundays. While you are in the Club on Saturday, Aug. 25, enter the contest for this month, which will begin at 2000 hours. If we have enough interest in the game, we may be able to have a Post-Wide Chess Tournament in the near future.

Molly will be ready to serve you Hot Coffee and Donuts on Sunday, Aug. 26, at 0930 hours.

Disc Jockey, Jim Budd, with the

Births at Post Hospital

Wendy Michelle Stempson, 7 lbs., 6 ozs., Aug. 2, daughter of PFC and Mrs. Robert D. Stempson.
Robert Alan Paschal, 7 lbs., 9 1/4 ozs., Aug. 5, son of Pvt. E-2 and Mrs. Robert E. Paschal.
Eric Randall Senn, 7 lbs., 6 3/4 ozs., Aug. 6, son of 1/Lt. and Mrs. Robert W. Senn.
Michele Suzie Ireland, 6 lbs., 2 ozs., Aug. 8, daughter of SP-4 and

Mrs. Dorsie E. Ireland.
Shelby Demond Eiland, Jr., 5 lbs., 14 3/4 ozs., Aug. 12, son of Pvt. (E-2) and Mrs. Shelby D. Eiland.
William Thomas Mulligan, 7 lbs., 2 1/4 ozs., Aug. 13, son of SP-4 and Mrs. George William Mulligan.
John Gilbert Sloan, 6 lbs., 14 1/4 ozs., Aug. 13, son of S/Sgt. and Mrs. John M. Sloan.
Tracy Ann Barclift, 7 lbs., 6 ozs., Aug. 13, daughter of CWO and Mrs. Paul H. Barclift.
Teresa Gail McGee, 5 lbs., 11 3/4 ozs., Aug. 14, daughter of Sgt. and Mrs. Bobby R. McGee.
Kelly Sue Bolte, 7 lbs., 10 ozs., Aug. 15, daughter of 2/Lt. and Mrs. Allen N. Bolte.
Robin Ann Buchholtz, 7 lbs., 3 3/4 ozs., Aug. 15, daughter of 2/Lt. and Mrs. Martin Buchholtz.

help of Marell Kelly, will spin your platter requests for the Foot Loose and Fancy Free Serenade on Aug. 26, at 2000 hours. The Huntsville and the Birmingham hostesses will attend the dance. Come out and dance until your heart is content.

An Evening of Games will take place on Monday, Aug. 27, at 2015 hours instead of the Summer Band Concert, which is listed on the program for this date.

Like watermelon! A watermelon feast will be held on Tuesday, Aug. 28, at 2000 hours. First come, first served, so be first in line Tuesday night.

MISCELLANEOUS

The program for the month of September has been planned for many hours of fun and relaxation at the Service Club. A sneak preview into the program shows a dance entitled "Swinging Sounds" with Hal and Ginger Willis.

See you at the Service Club. —Betty

Movie Schedule

WEDNESDAY, August 22
"Horror Hotel" (M-YP)
THURSDAY-FRIDAY, August 23-24
"The Comancheros" (M-YP)
SATURDAY, August 25
"Ancho" (F)
SUNDAY, August 26
"The Centurion" (M-YP)
MONDAY, August 27
"The Magnificent Seven" (F)
TUESDAY, August 28
"Roman Holiday" (F)
Two shows nightly at 7 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

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Mangus Named Chief, Electro-Magnetic Lab

An Army Missile Command engineer who started his career at Redstone Arsenal in 1953 as an Army private was recently promoted to branch chief in the Electromagnetic Laboratory of the Research and Development Directorate.

His latest promotion increased his earnings to more than 13 times his 1953 pay.

Nicholas J. Mangus, chief of the Laboratory's Electro-Optical Branch, entered the Army slightly more than a year after receiving his degree in mathematics from Gannon College in Erie, Pennsylvania. Mangus had worked after graduation with the Erie Resistor Corp.

After completing basic training in September 1953, Mangus was assigned to Redstone Arsenal — the home of Army missiles — under the Army's Scientific and Professional Program, which takes maximum advantage of scientific training and experience.

Mangus' military assignment was test flight engineer with the Test and Evaluation Laboratory. His job was to design tests for free flight rockets that would give measurable proof of the missile's performance.

After separation from service in 1955 as a corporal, Mangus was employed in the same job as a civilian. He remained with the Test Lab until 1957, when he was assigned to the Electromagnetic

Laboratory as a physicist.

Mangus' work in the Directorate of Research and Development has included directing tests of rocket systems to lay explosives to clear mine fields, gun-boostered artillery rockets, anti-aircraft rockets, helicopter and fighter-armorament rockets, and research tasks to determine fundamental rocket properties.

For non-destructive fuze testing for the Littlejohn rocket, Mangus designed a small rocket to test six fuzes at one time under actual flight conditions.

In recent years, Mangus has concentrated almost exclusively on electro-optical guidance and control devices for missiles.

Major advantages of electro-optical devices are their compactness, light weight, and the ability to measure angles better than radar. The Redeye missile system demonstrates their compactness. A complete infrared guidance and control system is contained in the missile and its launcher which is shoulder fired by one man.

Mangus lives at 2613 Waltham Drive with his wife, Irene, two sons, Gary, 7, and Mark, 6, and two daughters, Kathy, 8, and Kelly, 2. He is the son of Mr. and Mrs. Nicholas J. Mangus, Sr., of Warren, Pennsylvania.

Center Plans Counseling Day on Sat., August 25

A general counseling day will be held at the University of Alabama, Huntsville Center on Saturday, Aug. 25, from 9:00 a.m. to 2:00 p.m.

All students who are currently enrolled and those who plan to attend the Center this fall will be able to secure the services of advisers in the fields of Engineering, Arts and Sciences, Commerce and Business Administration, Education, and Graduate Studies. General counseling will also be available in other fields if desired.

Students who have not attended the Huntsville Center before are urged to take advantage of this opportunity. For those who cannot avail themselves of the opportunities of the special counseling day, forms may be obtained from the Registrar's Office to secure counseling appointments with advisers at another time.

Registration for the Fall Quarter will begin at the Huntsville Center on Sept. 24.

Placement tests for English and Mathematics will be held on Aug. 30, Sept. 24 and 28. Math placement tests begin at 6:00 p.m. and English placement tests begin at 7:00 p.m. on these nights.

BACK PAY, H. R. 11753, provides for the payment of compensation and restoration of employment benefits to certain Federal employes improperly deprived thereof. Passed House; pending before Senate Post Office and Civil Service Committee.



NEW CHIEF — Nick Mangus, newly-named chief of the Electro-Optical Branch of the Army Missile Command's Electromagnetic Laboratory examines an experimental device made by Laboratory personnel. Mangus came to Redstone Arsenal 9 years ago as an Army private, stayed on to become branch chief in the Laboratory, one of several operated by the Command's Research & Development Directorate.

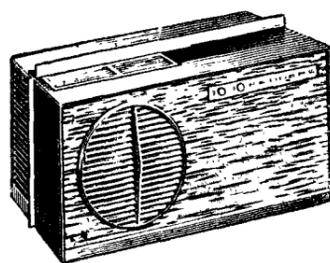
TAKE A BREAK — Fatigue is one spell you at the wheel, or pull a warning sign that you're not off the road and relax . . . drive longer a safe driver. Have some refreshment.

Should You Skid

Installation Safety Director, E. H. Haynes, urges all drivers to memorize the following steps to take in case an automobile starts to skid:

1. Keep yourself under control. If you do not control yourself in an emergency, you do not meet the situation well.
2. Avoid braking. Slamming the brakes on in a skid locks the wheels, causes loss of traction, and increases the skid.
3. Steer in the direction in which the rear end is skidding. As your auto begins to straighten, straighten the front wheels also. When you are again moving in the desired direction, then either lightly pump your brakes to slow down slightly, or gently accelerate to continue moving.
4. Avoid oversteering. Turning the steering wheel too far may whip the rear end into a skid in the opposite direction.
5. Keep the clutch engaged or the selector lever at "D." Holding the car in gear helps reduce speed and produces maximum control.
6. Avoid lifting your foot from the accelerator suddenly. Some expert drivers accelerate moderately to help get out of a skid.

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ON CUE—Willie K. Patterson of the Ground Support Equipment Laboratory flips one of the switches in the malfunction setter assembly of the Pershing missile trainer. The big switchbox programs errors into the missile trainer to simulate actual problems that future missile soldiers will have to solve.

Pershing Has Stand-In Like Any Star of Show

The Pershing ballistic missile being developed by the Army Missile Command is one of the stars of the Army missile program and just like motion picture stars it has a stand-in.

As in motion pictures, Pershing's stand-in does all the work, while the Army's four star missile gets

the applause. Pershing's double looks like the real missile, but it's actually a missile trainer with concrete in place of solid propellant.

The concrete gives the trainer the same weight and balance as the real missile, so soldiers get practical experience in handling

the missile without wearing out a tactical round.

Pershing's stand-in has to know all the lines too. Troops must be able to use the missile with the ground support equipment of the system, acting out checkouts and countdowns many times more than a normal missile would need to perform.

Designing the all-purpose stand-in has been the job of the Ground Support Equipment Laboratory at the Missile Command.

"Our biggest job is keeping up with changes in the script," said Willie K. Patterson, Chief of the Electrical Design Branch, one of the major laboratory elements that designed the trainer.

"When a change is made in the Pershing missile, the same change must be made in the trainer to give the troops a realistic missile to use for practice missions. In addition our trainer must be operating long before troops get the real thing."

"The missile trainer has been proven a reliable stand-in. The first prototype has performed hundreds of successful countdowns and is expected to last at least five years with normal maintenance."

Occasionally the stand-in will try to "ham it up" by flubbing its lines. The miscues are intentional, however, and the prompter for the impromptu performance is a little black box called the malfunction setter assembly.

More than 50 switches are installed on the front of the box, and flipping any one of them will simulate trouble somewhere in the missile system. The box is used by training instructors to give missile soldiers practical experience in identifying and locating trouble in the system during a countdown.

Although the missile trainer doesn't stand in for Pershing during environmental scenes such as high and low temperature, rain, dust, salt spray and humidity, it does have to weather the same tests and be able to operate under the same conditions.

While the trainer is a duplicate of the real missile on the outside, it is sometimes an entirely different personality on the inside. Electrical circuitry to simulate actual components cuts the cost of building the trainer without losing the realistic touch.

"The Pershing trainer costs on-

ly one third as much to build as the regular missile," said W. C. Watson, GSE Laboratory director, "and its training value saves the cost of many Pershing missiles."

"As a stand-in, the trainer is a missile that will never fly," Watson said, "but its day-to-day work will ready troops for a perfect performance with Pershing when the live missile goes into action."

The Pershing missile trainer is being fabricated for the Missile Command by Hayes International Corp. of Birmingham, Ala.

SAFETY LISTS THREE TYPES:

1. Those who can take instructions and will follow them. Given good instruction, most are in this class.
2. Those who are unable to understand or physically unable to comply with instructions. These are the exceptions who need sympathetic supervision.
3. The third class comprises those who can and do understand well enough, but who, for their own reasons, prefer to disregard instructions, and are accident prone.

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STOCK . . . AND LOW FINANCING . . . Chevrolet has a higher resale value than any other car on the market, this is a most important item when you trade some future date.

But above all buy your new or used car, whatever the make, from a Huntsville Dealer and keep your money circulating at home.

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Ask about Life and Disability insurance on loans at group rate

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

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

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Loans made to residents within a 100 mile radius

University Center to Offer 60 Fall Graduate Courses

The Graduate Study Steering Committee for the Army Missile Command and the Marshall Space Flight Center has planned 60 graduate courses to be offered at the University of Alabama, Huntsville Extension Center beginning Sept. 26.

Joseph E. Fisher, Deputy Chief of the Training and Development Division Civilian Personnel Office, made the announcement and said that growth of the Graduate Study Program at Redstone Arsenal is greater this year than any other

year since its inception.

"The aim is to keep the people employed in the missiles and space programs abreast of progress in scientific fields," Fisher said. "The program is a safeguard against personnel obsolescence."

The program began in 1955 with 126 enrollments in nine courses. The enrollment this year is 784 in 51 courses. Enrollments are up 36 per cent and the number of courses are up 19 per cent over last year.

"This marked growth reflects

the increasing need of our employes for new knowledge and the increasing ability of the University of Alabama to produce such knowledge in Huntsville," Fisher said.

Originally the program was designed to provide Government employes with advanced study in highly specialized courses in

science, engineering, and industrial management. The program now is expanded to include employes of Government contractors and other individuals whose goals and problems are closely related to Government activities.

A moving platform as big as a baseball diamond will carry fully assembled Saturn C-5 rockets, each over 30-stories tall, from an assembly hangar to their launch pads several miles away. The Saturn vehicle will be used in future manned lunar launchings.



BRITISHER BRIEFED—Col. Ian G. M. Petrie (left), British Liaison Officer for the Army Ordnance Corps in Washington, made a final visit to the Directorate of Research and Development, Army Missile Command, last week before taking a new assignment in Montreal, Canada. Col. Petrie will be deputy commander of Command Ordnance Depot No. 25 in Montreal. His main purpose during last week's visit was to determine what imperfections could cause a solid propellant rocket motor to be unusable. John F. Plexico, a supervisory general engineer with the Test and Evaluation Laboratory, explains a machine to check the dynamic unbalance of small missiles to Col. Petrie.

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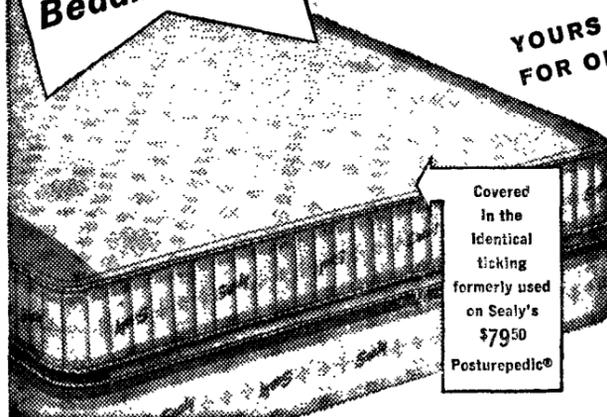


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RIVER PATROL—Major Franklin M. Conway, Provost Marshal, and James R. Glenn, Chief of the Civilian Police Branch, serve as deck hands on the maiden voyage of the new patrol boat purchased by the Provost Marshal Division. The boat patrol, under the direction of the Civilian Police Branch, patrols the 16-mile Tennessee River boundary of the Arsenal.

New Boat Patrols Tennessee River

The Civilian Police Branch of the Provost Marshal Division recently launched a new outboard motorboat to patrol the 16-mile river boundary of the Arsenal.

The boat, a 22-foot fiberglass model with twin 40 horsepower outboard motors, will supplement the present World War II J-boat. The new boat, cheaper to operate, easier to handle, is more versatile than the other J-boat.

The boat patrol will continue to be manned by civilian police. Its mission will remain the same: to patrol the southern boundary of the Arsenal. In addition to preventing any illegal entry to the Arsenal, the patrol checks and maintains perimeter boundary

signs, searches for illicit whiskey operations, and in emergency cases aids boatmen and skiers on the river.

The perimeter boat patrol is considered by the Security Guards to be an important facet of the Arsenal security network. With a new and more powerful craft it is believed better enforcement of security regulations will be possible.

NO PLACE LIKE HOME: Be it ever so humble, there's no place like home—for accidents, that is.

Home accidents are responsible for twice the number of disabling injuries as work accidents—and nearly twice the deaths. Nearly one out of four of these accidents happen to workers off the job.

Accident prevention is a round-the-clock job.

Gadsden Man Cited by USAF

Chief M/Sgt. Euell K. Johnson, retired son of Mrs. M. K. Johnson, 224 Lister Ferry Road, Gadsden, was awarded the Air Force Commendation Medal recently by Capt. R. L. McDowell, Air Force Liaison Officer to the Army Ordnance Guided Missile School.

CMS Johnson was cited for "exceptionally meritorious service while serving as Field Maintenance

Shops Superintendent, 3960th Consolidated Aircraft Maintenance Squadron (SAC)" located at Andersen AFB, Guam.

The citation covered the period from Jan. 15, 1960, to Aug. 18, 1961, and stated, in part, "Sgt. Johnson developed and maintained an aircraft component fabrication and repair capability among the finest in the Strategic Air Command."

At the present time, he is employed at the Field Service Directorate, Army Missile Command. He and his wife Edna reside at 4208 Killarney Drive, Huntsville.



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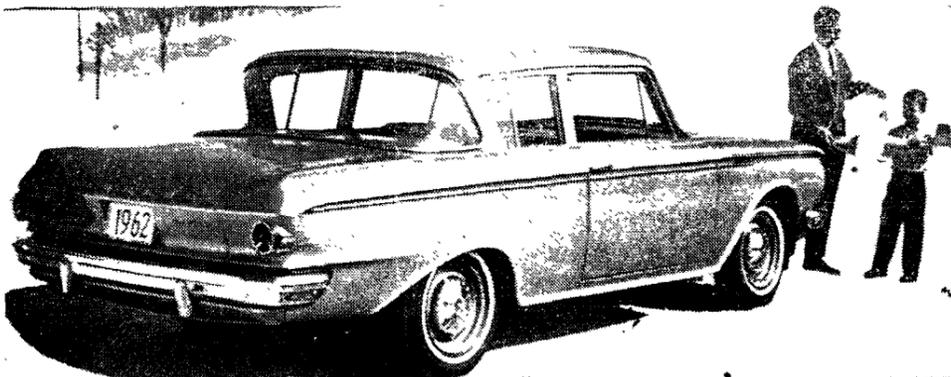
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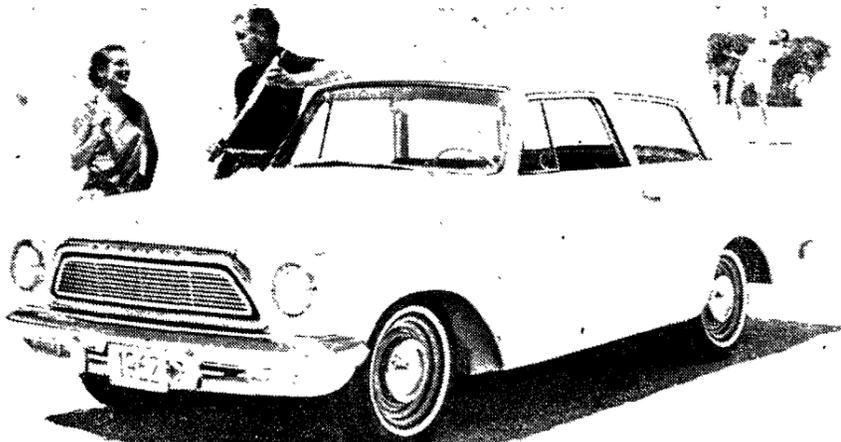
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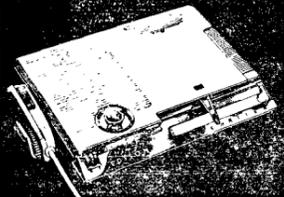
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and money:

Don't sign a blank contract or a contract with blank spaces on it. You must get and keep a copy of the completed contract.

Don't sign a contract unless you have read and understand every part of it. You are legally bound by what the contract states—not what a salesman tells you.

Don't accept an oral guarantee. Get it in writing. Make sure you understand what it says and that it protects you fully.

Don't be rushed into buying anything by talk of a "golden opportunity" or persuasion that it is

a "last chance" to get in on a "good thing." Take your time, investigate, and make up your mind carefully.

Don't be misled by the dealer who lures you into his establishment with an attractive advertisement of a standard brand item and then tries to talk you into a higher priced off-brand article. Be wary of the story that he is all out of the advertised item, or that there will be a long wait for delivery, or that what he is now trying to sell you is better than the advertised article.

Don't fail to investigate before buying. If you have any doubt about a dealer, check with your local Chamber of Commerce. If you are uncertain of the meaning of a contract, have it examined by an attorney.

Above all, don't make financial commitments which you cannot possibly meet. When buying on the installment plan, remember that if you fall behind in your payments, the seller usually has a legal right to repossess the merchandise, sell it for whatever it will bring, and the sue you for any deficiency.

If you feel that you have been defrauded or treated unfairly, your Legal Assistance Officer stands ready to help you in any way that he can. However, before you can be given any aid, it is necessary to have all the facts about the transaction. Be sure to bring all contracts and other documents that you have concerning the sale. Remember, the more facts you have, the better your Legal Assistance Office will be able to help you. The Judge Advocate's office is located in Room B-265, Bldg. 5250.

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To go to Mountain Lake—Go out Highway 72 East—the Chattanooga Route—and follow the Mountain Lake signs on paved roads. They have been erected for your convenience in traveling. Mountain Lake is located only 18 miles from Downtown Huntsville.

How's Your Know How?

1. Which is smallest, the Atlantic, Indian or Arctic Ocean?
2. Do all living things grow old?
3. What is the largest river in the world?
4. Where is the pyramid of the sun?
5. Who was the youngest general to serve in the Civil War?

(Answers to Quiz)

1. The Indian Ocean.
2. No, the protozoa never ages because of its efficient method of throwing off toxic substances.
3. The Amazon.
4. At San Juan, Teotihuacan, Mexico.
5. Gelusha Pennycracker; he was a brevet general in the Union Army at 22.

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Choose Your Lot and Plan Now!

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DIRECTIONS: Turn off Patton Road onto Ridgecrest and look for signs.

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Page 14 The Redstone Rocket — August 22, 1962

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FOR RENT — 3 room furnished apartments, air conditioned, back and front entrance, off street parking. One at 417 East Clinton and 419 E. Clinton, \$70.00 and \$75.00 per mo. Also, furnished 2 bedroom house, 417½ E. Clinton, air conditioned, \$90.00 per mo. Phone 534-5127 or 534-4551. tfc

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1957 Rambler 4 dr. wagon, 6 cyl., auto. engine, just overhauled. Very reasonably priced at \$895.00	1960 FORD Country Sedan 4 dr., V8, auto, radio, heater, power steering & brakes, solid red beauty. The nicest wagon we've had this yr. \$1995.00	1957 Ford 2 dr. Economy wagon, 6 cyl., str. shift, solid white. A nice clean car for— \$695.00
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1013 Meridian St. Phone 536-6121

FOR SALE — Antique sofa, newly upholstered in white brocade, \$225.00. Phone 881-1225. 1tp

1955 CHEVY — Bel-Air, 4 door 8. automatic, good tires. This week only, \$325.00. Call Universal Motors Used Car Dept., 539-7456. 1tc

ANNOUNCING — Mrs. Lay's Kindergarten, 2316 Gallatin St., registration Aug. 31, from 9 to 12. Opening date Sept. 4th. director Mrs. Robt. Lay, phone 536-1241. 9-5c

FOR SALE — 1959 International A-120 Pick-up, 3/4 ton, heavy duty. N. A. D. A. book price \$1000.00 Make offer, take light trade such as land, car or other. Call Short, room 24, phone 534-9211, after 6 p.m. 1tc

FOR SALE — Room air cooler, good condition. Cheap. Phone 772-6615. 1tp

1959 NASH — Metropolitan, 17,000 actual miles, 30 mpg, a real clean car. Call Universal Motors Used Car Dept., 539-7456. 1tc

"NICE" — 2 bedroom unfurnished house for rent, fenced yard, venetian blinds. T. V. antenna, convenient to gates 8 & 1. \$80.00 per month. Call 536-2417 after 6 p.m. 1tp

1962 VW — Sedan with sunroof, black, equipt. Our special this week, \$1490.00. Call John Payne, Universal Motors Used Car Dept. 539-7456. 1tc

FOR SALE — 1952 Dodge sedan, good mechanical condition, good tires. \$125.00 or best offer. Phone 881-4481. 1tc

FOR SALE — 1957 Thunderbird, radio heater, automatic transmission, good tires, excellent condition, phone 534-5233 after 5 p.m. 1tc

FOR SALE — 14' fiberglass boat, 40 h.p. motor, trailer, \$595.00. Can be seen in Arab, or call Arab 586-5733. 1tc

1954 PONTIAC — Hardtop cpe. New tires, all extras, \$295.00. Universal Motors Inc., 539-7456. 1tc

1961 AUTO. UNION DEMO. — 3,000 miles, economy plus, \$1145.00. Call BO WATWOOD, Universal Motors Used Car Dept., 539-7456. 1tc

HOUSE FOR RENT — Available Sept. 1st, 2 bedroom frame partially furnished (stove, refrigerator, living-room) located at Arlington Road just off Jordan Lane, phone 536-5604 after 5 p.m. 1tp

STOLEN — Last February, large brindle hound, gray around mouth. Answers to "Dago." \$25.00 reward for information leading to recovery. Chester Hull, daytime phone 876-3433, nights and weekends, Athens, 232-2948. 1tp

VOLKSWAGEN Pickup trucks — Used '59 - 62's. Must be sold this weekend. See at Universal Motors, your V.W. Dealer Used Car Dept., 2305 North Memorial Parkway, or call 539-7456.

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. tfe

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. tfe

FOR SALE — 2 wheel horse garden tractors with mowers, 32" cut, at dealer's cost. Hardesty Lawnmower Service, 406 Oakwood Ave., phone 536-8161. 8-25c

LEARN TO PLAY BRIDGE — Register now for private day and night classes. Enrollment limited. Classes start week of September 10th. For further information call 881-3615. 9-5c

FOR SALE — 5-bedroom brick home on one acre lot located at Arab, Ala., between elementary and high schools, within two blocks of each. 3800 sq. ft. living area with double garage. First floor, 2050 sq. ft., two baths, three bedrooms, living room, den, all-modern kitchen. Basement, 1750 sq. ft., big recreational room, two bedrooms, bath. Outbuildings, fenced-in lot, cement cellar. For quick sale, priced at \$26,500. Call CLYDE HART, 586-4341. Arab. Ala. 8-21c

HEADQUARTERS for Foreign Cars, Convertible Tops and Complete interior upholstery at The Auto Center, 2208 Clinton Ave., W., Huntsville, Ala. Phone 539-0382. tfe

FOR SALE — Homes and lake property. See Word Real Estate. Guntersville, Ala. Phone 582-4197. 8-24p

FOR RENT — 1 apt. on Pansy St. H'ville and 1 house 7 1/2 miles west on Highway 72. Call Mrs. John Crumk, 536-2027. 8-31c

FOR SALE — Registered German Shepherd puppies and older dogs. Rin-Tin-Tin and Bullet blood line. 4 female pups, \$35 each. Call Decatur, Ala., EL 3-2176 after 5:30 p.m. 8-8 4tc

ATTENTION HOUSEHOLDERS — Quality furniture upholstery, free estimates. Pick up & Delivery from the Auto Center, 2208 Clinton Ave., phone 539-0382. tfe

OLD COINS — I buy old coins—old gold coins; Indian head pennies, complete sets; Canadian coins. Darrell Sanders, Grand News Stand, Clinton Ave., downtown Huntsville. tfe

See **ACTION** for fast job placement of any type for men and women. **ACTION EMPLOYMENT AGENCY**, 201 Uptown Bldg. Phone 534-6233. tfe

ABS 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). tfe

ON THE LAKE, LESS THAN 20 MILES FROM ARSENAL GATE — Boat storage for rent. Rooms with bath for rent. Contact W&W Land Co., 106 N. Lincoln, Phone 534-1451 or 536-3113. tfe

FOR SALE — 20 acres overlooking Guntersville Lake, large barn, small 5-room house, all conveniences. \$4,500.00 with 50% down. T. M. Dorman, 876-3297 or 586-4247, Arab, Ala.

FOR SALE — Tiny toy Poodle puppies, AKC registered, all colors, priced to sell. Watch for sign on Highway 72 West, between Huntsville and Athens or call 232-5463 Athens. Willa Bledsoe. 9-5c

1961 V.W. DELUXE Station Wagon — Fun for the entire family, nice and clean. Call JOHN PAYNE, Universal Motors Used Car Dept., 539-7456. 1tc

FOR SALE — 2 cushion studio couch. Gray and green plaid. Good condition. \$25.00. Phone 536-0237. 1tp

"1961 Corvair Monza For Sale — Sports Coupe. White, red interior, radio, heater, white side walls. \$1895. Office 876-4508 after 5:00 call 534-0673. 1tp

FOR SALE — German Shepherd puppies, AKC registered, dewormed, shots, either sex, \$50.00. Call Charles at 876-9532 or 539-1089 after 5 p.m. 1tc

NEW, SENSATIONAL — Combination Milling Machine, jig borer, lathe drill press. Guaranteed tool room accuracy at a low price, ideal for laboratory or work shop, phone 539-2022. tfe

FOR SALE BY OWNER — 6-room near-new home, all brick. 3 bedrooms, den, built-in electric kitchen, living-dining combination, 2 full baths, double carport, large utility room. See after 6 p.m. Monday thru Friday; all-day Sat.-Sun. Phone SP 3-8895, at 200 Pinehurst St., Tanner Heights, Hartselle. 1tc



SMOKY'S READY—Living a dog's life is great says "Smoky" the Beagle. She has her bag packed and heading for the World's Fair at Seattle, Washington. "Smoky" will accompany her mistress Miss Molly Patterson, Recreation Director at the Post Service Club. The trip will take "Smoky" through eighteen states and parts of Canada and most of the nation's outstanding National Parks. One of the bright spots "Smoky" and her mistress are looking forward to is Las Vegas on the return trip.

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 Convertible. A solid white beauty, V8, auto., radio, heater, has a new guaranteed transmission. A real buy at...
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 2 door, V8, stick shift, green & white. See this for...
\$695.00

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 Station Wagon, excellent condition. Just been completely serviced. A ready to go. Imagine this for...
\$1075.00

1958 PLYMOUTH
 4 door wagon, 6 cyl., radio and heater, red and white. A nice car for...
\$850.00

1958 PLYMOUTH
 2 dr. Sport Cpe. Pushbutton drive. A beautiful bronze and white. A bargain at...
\$850.00

1957 CHEVROLET
 4 door wagon. An extra clean local car. V8, auto., radio, and heater. Sale at...
\$850.00

1957 DODGE CORONET
 V8, white, a local car with newly overhauled engine.
\$675.00

1957 FORD FAIRLANE
 "500", 2 door, V8, stick shift, red and black. A real nice local car...
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Dr. Fred Findeis Studies Neurotic Atom Behaviour

Strange sounding and sometimes just plain strange jobs are commonplace in the laboratories of the Army Missile Command, but among the men who work to improve the breed of Army missiles Dr. Fred Findeis may have the strangest job of all.

He psychoanalyzes neurotic atoms — after he has made them neurotic.

A summer employee in the Army missile program, Dr. Findeis of the University of Alabama's School of Chemistry, is picking apart an ingredient for a new high energy rocket fuel.

He does it with heat and x-rays to induce the atoms to tell him their troubles. By breaking down the prospective propellant he can watch its individual atoms. Their antics are noted by an extremely sensitive recording device, revealing the special properties of the new fuel ingredient.

The powdery substance — its composition is classified — is being considered as an additive to boost the thrust power of the Army's biggest solid propellant rocket motors.

All the major Army missiles now under development like the Nike Zeus and Pershing use quick reacting, solid fuel.

Describing his experiment with the new fuel ingredient, Dr. Findeis said, "When heated the molecules separate into individual atoms. The atoms are then confronted with a problem. They don't know what they are until they 'see' another atom. They are really mixed up and behave rather neurotically."

Instead of a couch, Dr. Findeis places his patients in a metal sink for study of their reactions.

A professor of inorganic and nuclear chemistry, Dr. Findeis has been at the University since 1961. He received his doctorate in chemistry from Purdue University, Lafayette, Ind., in 1956 following graduation from Capitol University in Columbus, Ohio, in 1952.

A native of Columbus, Dr. Findeis now lives at 145 29th Street, E., Tuscaloosa, Ala., with his wife and two sons.

Lt. West Commands School Training Unit

Appointment of Lt. Jerry W. West as commander of the Electronics Training Detachment at the Army Ordnance Guided Missile School is announced by Col. William J. MacPherson, Commandant.

The detachment he heads supplies most of the electronics instructors at the Missile School which annually trains more than 5,000 students from all branches of the U. S. armed forces and 14 allied nations.

Lt. West and his wife, the former Ruby Hogue of Winston-Salem, reside at 239-C Nible Drive at Redstone Arsenal.

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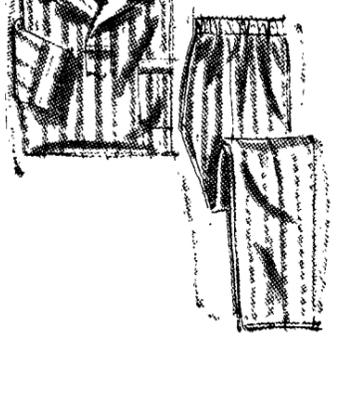
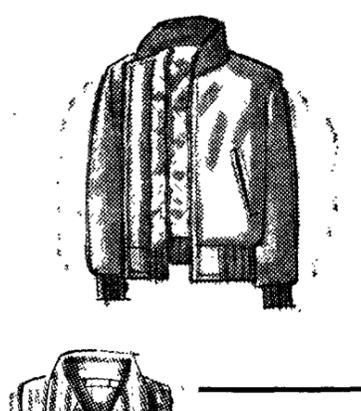
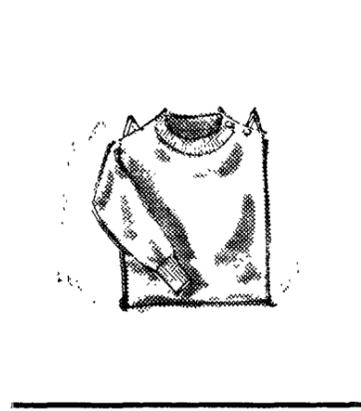
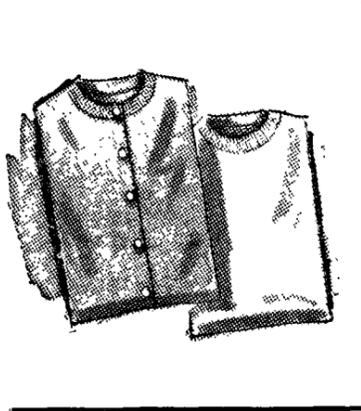
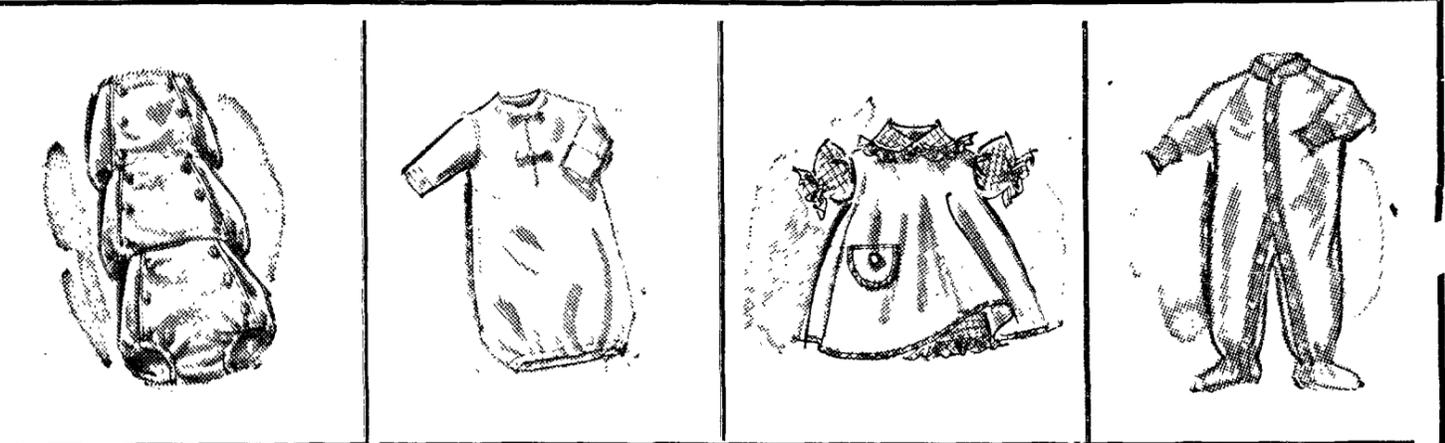
Sgt. Elizabeth Scott (Fargo, N. D.), receptionist for the Secretary of the Army, models the new green hat authorized for wear by women in the Army. The hat is now available through commercial sources and will become available through Army supply channels at a later date.



THERAPY — Dr. Fred Findeis of the University of Alabama puts some of the high energy fuel he is analyzing for the Army Missile Command into an x-ray machine. Atoms of the substance have been termed "neurotic" by Dr. Findeis.



DEVELOPMENT OFFICERS BRIEFED — Officers representing the Army Materiel Command and Office, Chief of Research and Development are briefed on electro-optical systems during a visit to the Army Missile Command, in the Electromagnetic Laboratory, Directorate of Research and Development. The officers toured R&D facilities at Redstone Arsenal and then visited Cape Canaveral for a look at Army missile test facilities. From left to right are: Lt. Col. Richard F. Cox, Chief of Missile Plans, Development Division, R&D, AMC; Brig. Gen. Wheeler G. Merriam, Chief of Development Division, AMC R&D; John L. McDaniel, Director of Technical Operations, Directorate of Research and Development; Brig. Gen. Allen D. Hulse, Director of Developments, OCR&D; Lt. Col. Spencer T. Baen, Development Requirements Division, OCR&D, and Nick Mangus, Chief of Electro-Optical Branch, Electromagnetic Laboratory, Directorate of Research and Development (with back to camera).



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