

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. XIV; NO. 9

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JULY 14, 1965

Arsenal-Wide

Spot News

Dial 112

OGMS HAS NEW MISSION

Measure Metal Muscles

Although the Army doesn't claim to build missiles with bulging biceps, scientists at the U.S. Army Missile Command have a means of measuring a metal's muscle—or the lack of it.

Actually, Army missilemen now have an electronic device to mea-

(See Picture Inside)

sure the hardness, or strength, of steel.

The development of such a device was announced by John L. McDaniel, Technical Director, Directorate of Research and Development.

They do it with a device known as an electro-magnetic hardness tester. A sample of metal, scientists say, reacts in a particular way when it undergoes stress in a magnetic field. The metal will generate a voltage according to its hardness, stress and alloys composition.

With this tester, the strength of a sample of metal can be determined without destroying or de-facing the part.

Work on the device is being done by the Department of Metallurgical Engineering, University of Alabama, under contract to the Missile Command. Directing the effort is the Ground Support Equipment Laboratory of the Missile Command's Research and Development Directorate.

"This would be a valuable piece of equipment in the field," says W. K. Patterson, Chief of the Electrical Design Branch of GSE Laboratory.

"A probe, for example, could point out a weakened spot of metal—such things as an improper weld—that might result in a missile failure, before it happens."

A variation of the tester, Patterson said, would permit control of quality during manufacture since parts of a missile or launch- (See MEASURE on Page 3)

ARSENAL TIMBER WILL BE SOLD

Col. R. C. Marshall, U. S. Army District Engineer at Mobile, announced Friday a sale of timber from Redstone Arsenal.

Bids will be opened on July 22 for harvesting approximately 362,000 board feet of sawtimber, 16,000 board feet of miscellaneous hardwoods, and 974 standard cords of pine pulpwood.

Arrangements to inspect the timber and to obtain bid forms may be made by contacting Mr. R. P. Ellis, Jr., in the office of the Resident Engineer, Corps of Engineers, at Redstone.

Bids will be publicly opened at 2:00 p.m., C.S.T., on July 22, 1965, at the Corps of Engineers district office in Room 137, Loyal American Life Building, 2460 Government Street, Mobile, Ala.



NEW MISSION EXPLAINED—Col. Erwin M. Graham Jr., commandant of the Ordnance Guided Missile School, briefed Huntsville city officials Monday shortly before the announcement of a new training mission for the school that would bring in ordnance munitions training as a School function. Mayor Glenn Hearn (second from left), Councilman Abner McNaron (second from right) and Police Chief William F. Dyar received the report.

Ammunition Management To Move In

The U.S. Army Ordnance Guided Missile School officially received a new mission Monday with announcement by the Continental Army Command that training on management, maintenance and handling of munitions will be transferred from Aberdeen Proving Ground, Md., to Redstone Arsenal.

Col. Erwin M. Graham Jr., Missile School commandant, made the announcement in a press conference at the school.

The shift will involve one officers course and four courses for enlisted men and will mean an additional 1,400 trainees annually, according to Graham. The transfer will begin immediately, he said, and is scheduled for completion by October.

ADDITIONAL TRAINING

In addition to technical training in the five courses being transferred from Aberdeen, there will be some training of explosive ordnance disposal units in "refresher" courses. Of the 1,400 expected increase in student load, about 850 will be new students in the munitions courses and approximately 600 will be EOD units for the two weeks courses.

The five new courses include an officers' course of seven weeks length and four courses for enlisted men ranging from seven to ten weeks training. To handle training in these courses, more than \$450,000 in equipment will be moved from Aberdeen to OGMS. There will also be 105 personnel positions moved here for instructor positions, including ten civilian slots. Civilian personnel presently holding these positions at Aberdeen will be given an option of moving here and retaining- (See NEW MISSION on Page 3)

Experimental Guidance System Will Hitch A Ride On Sergeant Missile

An Army missile is scheduled to have a Navy passenger this week when, during a product improvement firing of the Sergeant missile at White Sands Missile Range, N.M., an experimental guidance system for the Navy will "go along for the ride."

The nosecone of this particular Sergeant missile has been modified to accommodate the simplified inertial guidance system (SIGS) as part of a flight test program being conducted by Sperry Rand Sperry Utah Co., division under contract to Applied Physics Laboratory of Johns Hopkins University. The SIGS, built under the direction of Applied Physics Laboratory by the Norden Division of the United Aircraft Corporation as part of the Navy's investigation of low cost inertial missile guidance systems.

The same problem will be given to the Sergeant and SIGS inertial systems and a coordinated countdown will be conducted on both guidance systems.

While Sergeant's own inertial system will actually guide the missile in its flight to the target, the passenger system will go through all the motions of flight guidance. Sergeant and its SIGS passenger will be monitored simultaneously during the flight by Sergeant's telemetry systems.

Sergeant missile internal nosecone modifications and SIGS pre-flight testing were started last June when Sperry Utah was awarded the flight test contract. Changes to the nosecone include: modifications of the ballast to make room for the SIGS guidance package, design and fabrication of the battery power supply,

design and fabrication of special telemetry and instrumentation, and integration of system electronics.

Following the tests next week, flight data will be analyzed to determine if SIGS could have, in fact, guided a missile to its target and to evaluate performance of the various SIGS subsystems—thus setting the stage for possible application of SIGS to DOD missiles where short duration flight is involved.

BLOODMOBILE IS IN BLDG. 7110 TODAY



REENLIST—Maj. Gen. John G. Zierdt, Commanding General of the U. S. Army Missile Command administers the Soldier's Oath to PFC Herman L. Mullins and PFC Robert A. Ventorini (left) for the first term of a Regular Army enlistment. The PFC's reenlisted for six years. Both are HAWK missile men at the Army Ordnance

Guided Missile School at Redstone Arsenal. Mullins is from Vicksburg, Miss., and took his basic training at Ft. Polk, La. PFC Ventorini's hometown is Tarentum (Pittsburgh), Pa. He was studying physics at John Carrol University, Cleveland, before he entered the Army.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline both display and wanted—is noon of Friday before publication.

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

Rocket Ruminations

Lo! here the gentle lark, weary of rest, From his moist cabinet mounts up on high, and wakes the morning.
—William Shakespeare

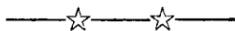
New Army Mission At Redstone

The Rocket extends a cordial welcome to Ammunition Training personnel scheduled to come to Redstone Arsenal from Aberdeen Proving Ground as the result of a training mission transfer to the Army Ordnance Guided Missile School announced this week by the Continental Army Command.

The training mission change involves approximately 850 officer and enlisted students and 105 personnel assigned to faculty and support activities. Of the latter 10 civilians will be given the opportunity to move to Redstone. We hope they will accept.

Other Army missions assigned to Redstone have been successfully conducted from the famous Arsenal we call home. We are confident the Ammunition Training mission will not be an exception.

OGMS deserves congratulation on this added function. The assignment indicates Continental Army Command approval of the calibre of training conducted by "our" school. The new mission will add to the stature of OGMS as an Army training installation and will permit new accomplishments by an institution which has already made military training history.



Secretary's Pledge

I begin my duties as your Army Secretary deeply conscious of my obligations to all members of the Army and your families. Together we share a mutual responsibility to a nation which has grown accustomed to an Army possessed of impeccable loyalty, exemplary integrity, and the highest order of professional competence.

These qualities in our Army constitute one of America's most priceless assets which we must continue to maintain. The Army's achievements are well known to a quietly grateful America which takes confidence from your past that you will meet the future with honor and skill.

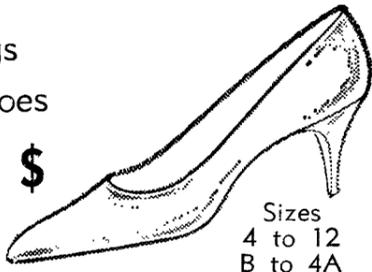
For my part, I am honored to return to an active role with the Army and I pledge my best efforts on your behalf as individuals and to the Army collectively as a member of our National Defense Team.

Stanley R. Resor
Secretary of the Army

SUMMER SHOE SALE

Un-heard of Savings
on Name Brand Shoes

\$ SAVE SAVE \$
\$ SAVE \$



Sizes
4 to 12
B to 4A

SELF SERVICE SHOE STORE

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

MORRIS HEIGHTS

You'll Find

3 BEDROOM & DEN HOMES

- Panel Dens
- Tappan Range & Ovens
- Vent Hoods
- Patio
- Garages
- Disposal
- Air Conditioning

F.H.A. or V.A.

DIRECTIONS: Drive west on Oakwood Avenue to Linde St., turn right and drive to Open House each day.

Hunter & Mitchell

800A Arcadia Street
PHONE 539-1758



People Work At Career Development

Off-post training in their individual career fields at six widely scattered locations of the country is the destination for eighteen civilian employees of the Arsenal. They have been enrolled for courses ranging in length from one to six weeks.

The courses are offered by leading American universities as well as military schools and industrial concerns. The local personnel were selected to attend the courses under the Command's career development program which is administered by the Training and Development Division of Civilian Personnel.

The largest group of Redstone personnel, six employees of the Research and Development Directorate, began study in three different courses offered by the University of Michigan.

Orvis Mumford and James Howison will be on the campus in Ann Arbor for a week to study High Altitude Science. Thomas Morgan and Thomas Barley are enrolled for the Communications Theory course and Norman Wirts and Richard Rausch are studying Modern Methods of Static and Dynamics Analysis. Both of the latter two courses are two weeks in length.

Five more locals entered the University of California at Los Angeles this week. Gerald Sullivan, Herbert Holl, Lee Webster and Norman Cook are enrolled for Optical Physics and Its Recent Applications and Charles Theim is taking Computer Control Systems Technology.

Webster is with the Nike X Project Office. Theim works in the Sergeant Project Office, while Sullivan, Holl and Cook are employed by the Research and Development Directorate.

At Ft. Bliss, Tex., to take the Missile Launcher and Organizational Maintenance Shop course offered by the Raytheon Company, are Floyd Falconer, of Supply and Maintenance, Edgar Taylor, Hawk Project Office, and Ray Bailey of the Support Command's Maintenance Support Division.

Merle Adams, also of the Supply and Maintenance Directorate, is at the same place to take the four-week course on Battery Control Central and Assault Fire Command Console course.

Joseph Connaughton is at Lafayette, Ind., home of Purdue Uni-



RECEIVES AWARD—Col. Morris W. Pettit, receives an Army Commendation Medal from Brig. Gen. Clarence C. Harvey during his initial call on the Deputy Commanding General for Air Defense Systems at the U. S. Army Missile Command. The award followed the Colonel from his last assignment at Orleans, France, where he served as Inspector General, Headquarters, United States Army Communications Zone, Europe. It was a day of honors for both of them. The General received his Star . . . insignia of his promotion from Colonel. Col. Pettit is the new Chief, Air Defense Fire Distributions Systems Office.

versity, to take the Introduction to Chemical Instrumentation course, and Charles Case, of the Comptroller and Director of Programs Office, is at Ft. Benjamin Harrison, Ind., for the Military Comptrollership class.

Another employee of the Maintenance Support Division, Bobby

Cox, started training this week at the Tektronix Corporation, Portland, Ore. He is taking a three-week class called Tektronix Oscilloscope.

SAFETY PAYS!

HOTEL GUNTERSVILLE

Guntersville, Alabama

— Featuring —

MEALS SERVED FAMILY STYLE

Monday through Friday 11 a.m. to 1 p.m. - 5 p.m. to 7 p.m.	Sunday 11 a.m. to 2 p.m.
\$1.25	\$1.50

OWNER-MANAGER . . . T. C. BURNS

"Live the Life of Wiley
in a Wiley Mobile Home"

Wiley's
ALWAYS FIRST WITH THE FINEST



2900 So. Memorial Parkway
Huntsville, Ala.
Phone 534-7315

NEW . . .
12' Wide Only
\$3995.

NEW . . .
10' Wide Only
\$2675.

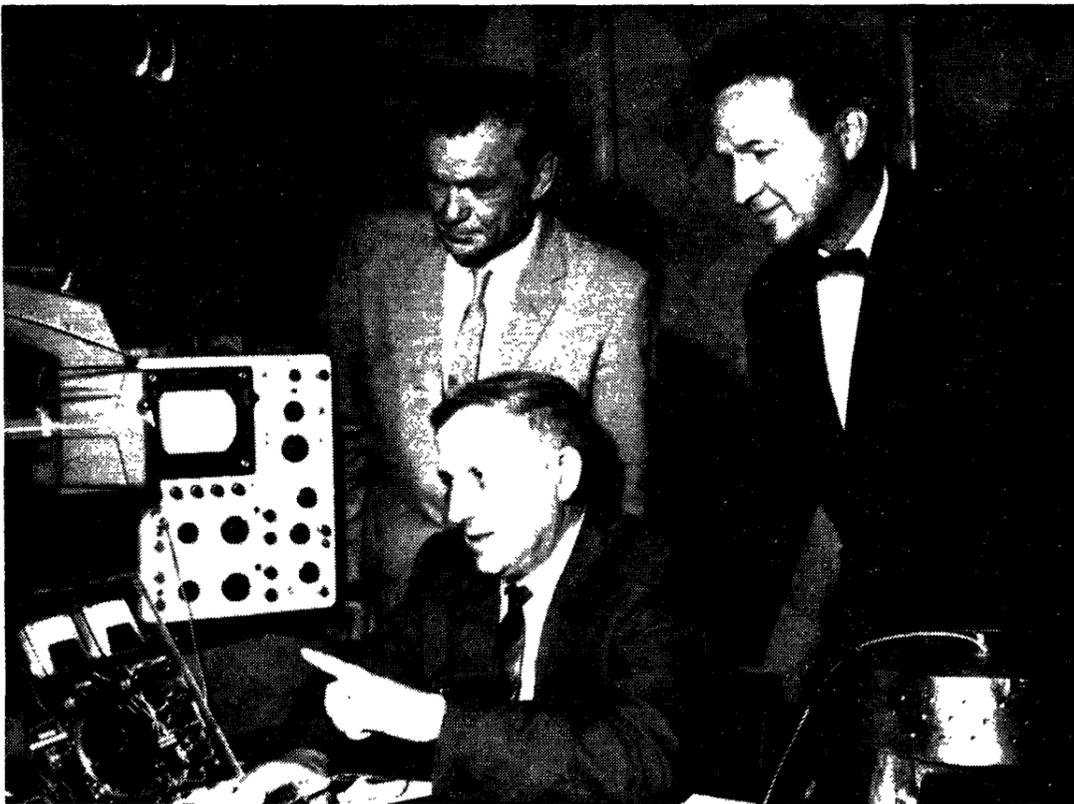
See The Wiley "Country Boys" For Your Home

BOB FLANNAGAN, Mgr.

Shelby Cole or Mahlon Yarbrough

WILEY'S

Where A Wiley Mobile Home Is Bought
Wisely Every 97 Minutes



MEASURING METAL'S MUSCLE—Dr. Roman Skorski (seated) of the University of Alabama explains a device which can measure the strength of metal. The University is doing work on the equipment under contract to the Army Missile Command. Looking on are Prof. L. A. Woodman who is directing the project and W. K. Patterson, Chief of the Electrical Design Branch of the Missile Command's Ground Support Equipment Lab.

Army Emergency Relief Takes Bite Off Hardship

The old axiom, "the Army looks after its own," is perhaps best typified in the Army Emergency Relief agency that has over the last ten years provided \$4 million annually to active and retired Army personnel for hardship cases.

Last year for example this aid was distributed to almost 31,500 cases for hardships ranging from non-receipt of pay to emergency medical or dental expenses. Many of the cases received outright grants from the relief fund, although most were interest-free

loans.

Since 1942 the AER funds have been available to Army personnel and widows and dependents to meet emergency situations when money was unavailable from other sources. The fund is supported by contributions from the American Red Cross, military personnel and various organizations such as the veterans' organizations.

One part of the AER fund is especially helpful to widows and dependents. The Army Relief Society, which receives 10 per cent of the net fund campaign receipts, is specifically designed to aid widows and orphans and last year disbursed more than \$185,000 to such persons for education and other needed expenses.

All military personnel on active duty and their dependents, persons who have retired after 20 years active service or because of physical disability from duty and their dependents, and widows and orphans of military personnel are eligible for assistance. Applications are made through Army organizations, in the case of military on active duty, or through the Red Cross, in the case of all others or for military personnel who live off post or are in a transient situation.

The AER is designed to emphasize local needs primarily. From the annual fund drive, only surplus

MEASURE

(Continued From Page 1)

er could be tested and rejected if found too soft or weak for their intended use.

Among those working on the project are Dr. Roman Skorski of the university staff, along with graduate students, Capt. Ben Huggin, Harry Brettschneider and Joseph Klein. The project is under the direction of Professor L. A. Woodman, Director, Bureau of Engineering Research.

Col. Stanton W. Josephson is Director of the Missile Command's R&D Directorate.

monies are sent to the AER headquarters. All other contributions are kept at the local level to meet the needs of individuals at particular bases.

Individuals applying for AER assistance go first to the base AER officer who investigates the situation and recommends the action to be taken. These recommendations fall, usually, into three categories: outright grant, interest free loan, or a combination of grant and loan. Grants are made in cases where it is determined that repaying the aid would work an undue hardship on the individual concerned.

In the continental United States, as much as \$250 can be authorized at the local level. Overseas, AER can provide up to \$500 on the local level. Requests for larger assistance must be forwarded to AER headquarters for approval.

The extent to which this aid is used can be seen from representative figures. Of the cases during 1964, more than 11,000 went to relieve privation of dependents, accounting for more than \$1,270,000; more than 5,000 persons were given funds for emergency travel, accounting for about \$725,000; nearly 6,000 cases of non-receipt of pay were relieved with slightly less than \$650,000 in funds; and emergency medical expenses were provided to more than 2,000 cases involving more than \$300,000. Other types of assistance included loss of personal funds, rent and funeral expenses.

DRIVE SAFELY



*\$5 per 24-hour day, 5¢ per mile

Call 881-3297

NEW MISSION

(Continued From Page 1)

ing their positions or remaining at Aberdeen in a similar position.

LAND SET ASIDE

To receive the men and material involved, 66,000 square feet of classroom, office, shop and storage space required for coursework are already available here. In addition, one square mile of Arsenal land is being set aside for field training in ammunition storage, disposal and "render-safe" exercises.

With additional input of students and training of the EOD units, the average enrollment at the School will rise to about 4,700 students, or approximately the strength of the School when students from the U.S., Turkish and Italian air forces were training here, from 1958-63.

Maj. Cole Talks To OGMS Classes

Twenty-five officers and enlisted men from the U.S. Army and the Republic of Korea Army were graduated Friday in ceremonies at the Army Ordnance Guided Missile School.

Maj. William A. Cole, special assistant to the Sergeant Project manager at the Army Missile Command, addressed the two classes. Master of ceremonies was Maj. Alden L. Cox, chief of the Pershing Division in the Artillery Department, Directorate of Individual Training at the School.

Capt. Fred R. Pocock was honor graduate in the guided missile and special weapons staff officer class that also included seven other U.S. Army officers and Lt. Col. Jong Han Lee of Korea. Pvt. Timothy C. Bryant was honor graduate in the guided missile repair helper class of 16 students.

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

Sterchi's

North Alabama's Largest Furniture Store



**DOWNTOWN
HUNTSVILLE**
Phone 534-5681

Also Sterchi Stores to Serve You at Scottsboro and Fayetteville.

WANTED COINS

- Hordes
 - Accumulations
 - Collections
- \$ FOR CASH \$**
PHONE

The Coin Cache

2707-Clinton Ave., N.W.
(Across from Butler High)

—536-9467—

GRAND OPENING

And

SUMMER FACTORY SALE

AT

JOY HOMES ON WHEELS

4707 GOVERNORS DRIVE, WEST

July 16th - 17th & 18th
Fri. - Sat. - Sun.

FREE PRIZES . . .

40 Transistor Radios and Grand Prize

CONTINUED ON PAGE 4

MILITARY OFFICERS • N.C.O.'s • CIVILIAN BASE EMPLOYEES



MAIL THE COUPON TODAY
GET YOUR CASH

FAST!

TO: American Plan Corp.
(Mail to the office nearest you)

I would like a loan for \$ _____

Purpose of loan _____

NAME _____

ADDRESS _____

WIFE OR HUSBAND'S NAME _____

LIST 3 PLACES AND CITY WHERE YOU HAVE USED CREDIT:

1. _____

2. _____

3. _____

EMPLOYED BY _____

ADDRESS _____

VACATION SPECIAL

BORROW **\$301 UP TO \$2500** ON JUST YOUR SIGNATURE

Consolidate all of those small monthly bills and make just one payment—budgeted to fit your income. American Plan specializes in "Money When You Need It" and Officers, N.C.O.'s (E-5 to E-9) and government civilian employees are sure of fast, friendly, confidential service!

GET FROM \$301 UP TO \$2,500	21 MONTHLY PAYMENTS
CASH YOU GET \$ 847.06	\$ 48.00
1,341.18	72.00
1,531.23	82.00
2,100.00	111.92
CASH YOU GET \$ 429.20	25 MONTHLY PAYMENTS
751.12	\$ 20.00
1,084.45	35.00
1,528.89	50.00
2,500.00	70.00
	113.70

AMERICAN PLAN



207 RANDOLPH AVE., S.E. 534-7333

Direct Energy Conversion Courses To Be Offered

The University of Alabama in Huntsville is offering a short course in Direct Energy Conversion Aug. 2-6.

This course is intended to provide the student with a broad concept of the different basic aspects of energy conversion; to examine in depth, certain topics in direct energy conversion, with a minimum of formal training in prerequisite subject matter; and to familiarize the student with certain analytical tools useful for evaluating energy conversion systems.

The course will be divided into Fundamentals and Systems. Under Fundamentals, the following subjects will be covered:

Survey Energy Conversion Problems, Fundamentals of Energy Conversion, Thermodynamics, Energy States, Photovoltaic Effects, Thermoelectricity, Thermionics, Electrochemistry, Free Energy, Magnetohydrodynamic Engines.

The following subjects will be covered under Systems:

Battery Technology, Solar Cells, Fuel Cells, Thermodynamic Cycle Systems, Thermoelectric Convertors, Thermionic Convertors, Radioisotopes, Magnetohydrodynamic Engines.

The following instructors will present this short course at Morton Hall, University of Alabama, 4701 University Drive N.W., Huntsville.

William J. Levedahl, Ph.D., Applied Thermodynamics, Technische Hochschule, Aachen, Germany, Manager, Research and Space Di-

rect Conversion Reactor Systems Program; The Martin Company.

William E. Webb, Ph.D., Physics, University of Alabama. Associate Professor of Electrical Engineering, Specialized Field of Solid State Physics.

Walter B. Bienert, Ph.D., Physics, Technische Hochschule, Munich, Germany. Project Scientist, Magnetoplasmadynamics; The Martin Company.

Alan J. Streb, M.S., Mechanical Engineering, Drexel Institute of Technology. Engineering Manager, Thermoelectric Systems, Nuclear Division, The Martin Company.

James T. Smith, M. S., Chemistry, Loyola College. Project Scientist, Batteries and Fuel Cells; The Martin Company.

Direct questions regarding specific aspects of the program to Mr. D. J. Kieselbach, University of Alabama, P. O. Box 860, Huntsville, 837-4700, Ext. 259. Enrollment may be made by individuals or companies. Any number of persons from a single company may enroll as long as there are vacancies. Upon receipt of a written request, a place in the short course will be reserved for industry personnel and government employees who require time to obtain authorization. Companies may enroll for a given number of individuals supplying the names at a later date, if necessary. For all such enrollments or reservations, the individual names should be received by the University before July 19, 1965, to insure a place in the short course.



JANGOS GIVE PING PONG TABLE—Members of the Junior Army-Navy Guild Organization (JANGO) of Redstone Arsenal recently had a ping pong table delivered to the Harris home for Children in Huntsville as part of their community service program. Since all the JANGOs were either busy with summer jobs or out of town at the time, Mrs. William Roedy, center, JANGO chairman, and Lt. Thomas Cleveland from the Redstone Joint Activities Council presented the table and ping pong equipment to Mrs. George Harris, founder and operator of the home.

MARY SHOPPE

"DOWNTOWN"

July Clearance Sale

Dresses—Sportswear—Hats
Lingerie—Formals—Bridal
—Cocktail Dresses

Reduced up to 1/2 Price

Mary Shoppe

WASHINGTON STREET

DOWNTOWN

CONTINUED FROM PAGE 3

Joy's Grand Opening

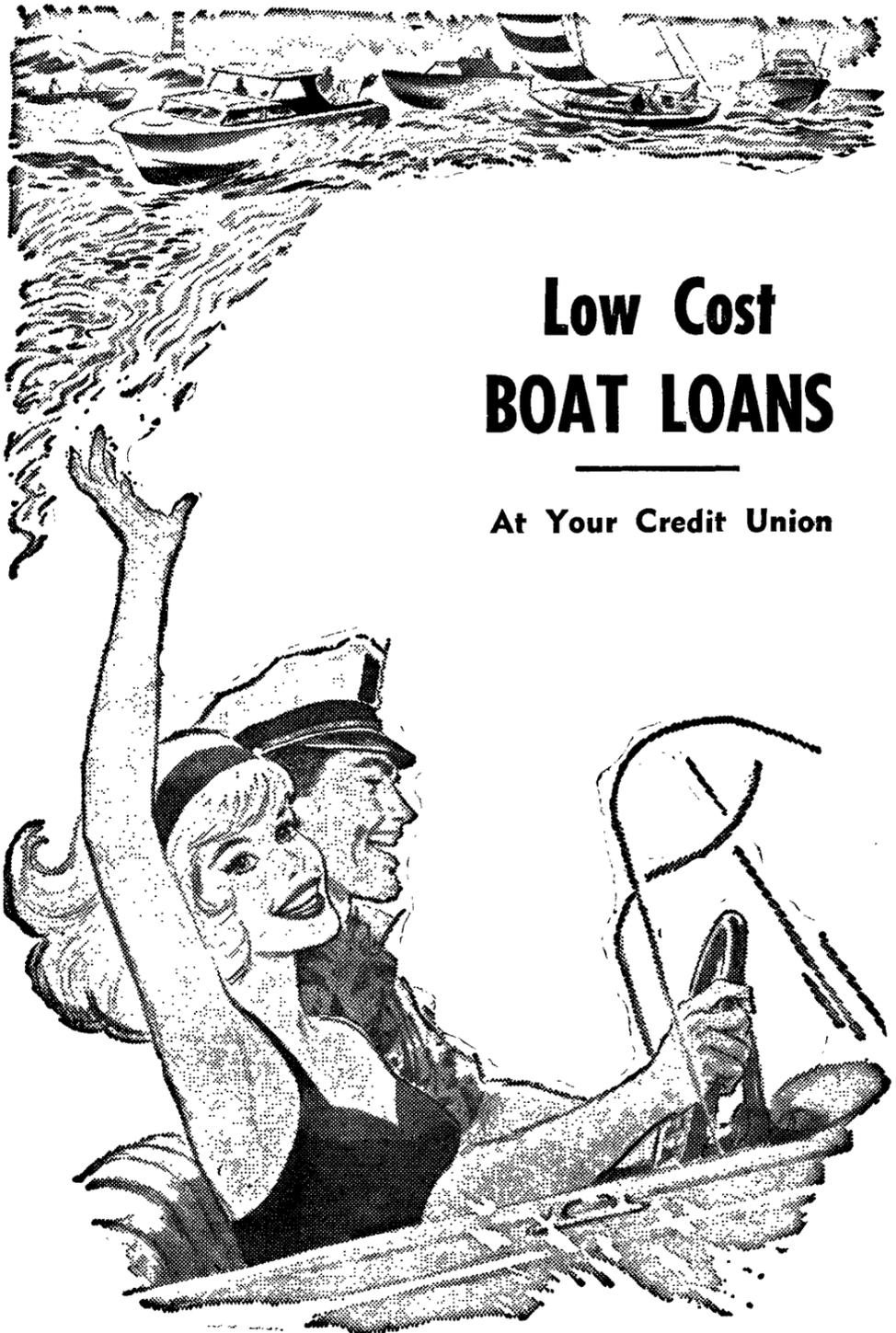
COME SEE . . .

COME SAVE . . .

Don't miss this opportunity to buy the mobile home of your choice at reduced prices during our 3 DAY GRAND OPENING SALE . . .

\$50.00 CASH . . . Direct From the Manufacturer to You for This Weekend Only — Joy Has Arranged

CONTINUED ON PAGE 5



Low Cost BOAT LOANS

At Your Credit Union



REDSTONE FEDERAL CREDIT UNION
A Cooperative Savings and Loan Corporation

Redstone Arsenal, Alabama



RECEIVE RECOGNITION—Robert W. Winn, vice president in the American Federation of Government Employees Lodge 1858, receives a plaque of exclusive recognition for the bargaining unit of eligible employees of the Army-Air Force Exchange. Professional personnel are not eligible, but 65 per cent of the non-professional Exchange employees are members of AFGE. The unit is the first to receive exclusive recognition among employees of non-appropriated fund units in the Army. The recognition is extended for one year, by Col. Thomas W. Cooke, Commander, U. S. Army Missile Support Command. Left to right are: Dennis Garrison, National AFGE representative; Col. Cooke, Winn and Everett Brouillette, president of the local lodge.

CONTINUED FROM PAGE 4

Joy's Grand Opening

A Once In A Lifetime Offer

FOR YOU . . .

Everyone purchasing a new mobile home will receive this \$50.00 direct from the factory.

Joy Is A Complete Mobile Home Center . . . Sales, Service and Financing in One Easy Package.

CONTINUED ON PAGE 6

CIVILIAN SOFTBALL LEAGUE
Standings July 12 1965

Team	Won	Lost
F&A	11	0
Communications	8	2
S&M DPO	6	4
P&P	5	4
AMSC	5	5
Pershing	5	5
DOC Div	5	5
Comp Lab	5	6
Prop Lab	5	6
Struc & Mech	3	4
Nike X	2	8
S&M	1	10

Last Week Results
July 6

Comp Lab 10, Pershing 8.
DOC Div 7, AMSC 0 (forfeit)
Pershing 13, Prop Lab 10.
Communications 22, Struc & Mech 8.

Friday Results

Doc Div 13, S&M DPO 9.
S&M DPO 7, AMSC 0 (forfeit).
Struc & Mech 9, Prop Lab 7.
Prop Lab 30, Nike X 16.
F&A 16, Comp Lab 14.

**OFFICERS, NCO'S,
E-5's AND ABOVE**



**COULD YOU
USE \$150
TO \$1350**

**Airmail action
anywhere in the
world the day
your request comes
to Trans-Con!**

TCFC's money-by-mail service is quick, convenient, completely confidential.

Get cash for down payments, travel or leave, or to pay off bills. Make just one small payment per month. Up to 36 months to pay! No endorser. No collateral. No interview. Even the person cashing your check, won't know it's a loan. Fast, same day airmail service! Mail this coupon today for money!

EXAMPLES

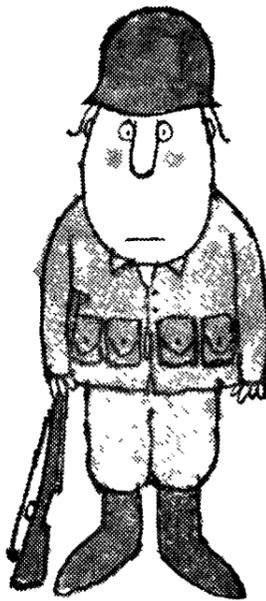
You get	Mo. Pmt.	No. Pmts.
\$ 246.33	\$14	24
\$ 689.56	\$31	30
\$1101.73	\$42	36

All payments include interest, principal and insurance coverage.

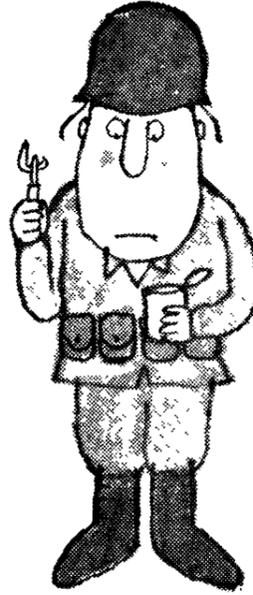
PLEASE PRINT RA-1

TRANS-CON FINANCE
P. O. Box 2393
Fort Worth, Texas 76101

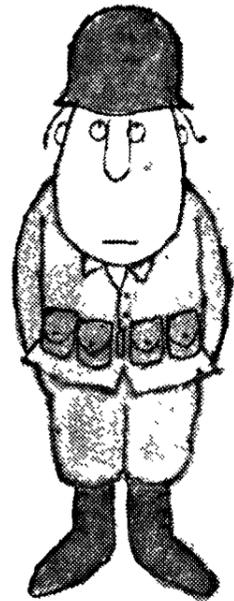
Name _____
Rank/Rate _____
Serv. # _____
Date Enlist. Exp. _____
Age _____ Address _____
City _____
State _____



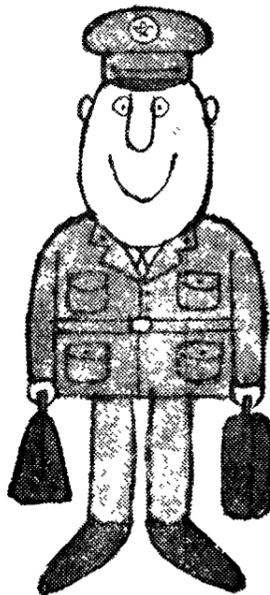
The rut has got you down?



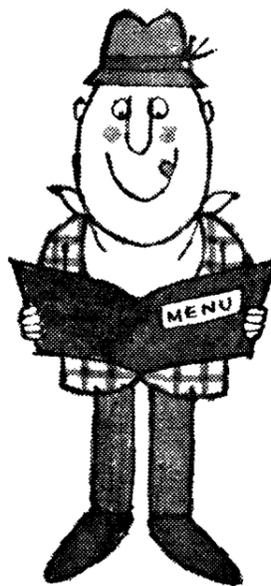
You'd like food with more flair?



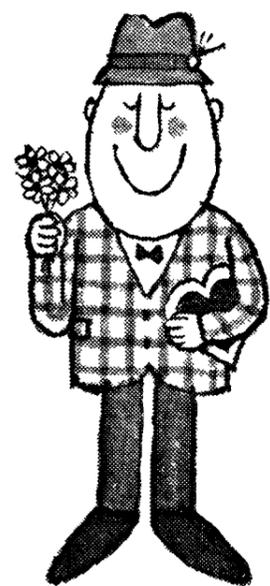
Tired of wasted weekends?



Get up and go! And go with United. We fly jets to more places in the States than anyone else. More jets, too, so waiting time is shorter — gets you going sooner.



Fly to Greenwich Village in New York or Fisherman's Wharf in San Francisco. Don't laugh — they're both just a few hours away from where you sit! On many flights, we'll even serve you — with a flair.



Do something! See your girl, or just pick a town and have a ball. With us, you'll have a ball getting there. And it sure beats polishing your boots for the Monday morning inspection.

Stand by United for Furlough Fun

Traveling is a great way to break up the military routine. So fly with us . . . at just half the jet coach fare. Just come to the United ticket counter, or your base airline ticket office (JAMTO)* in uniform and with a copy of your leave papers. And leave the rest to us.

*BLDG. 3684, POST TRANSPORTATION



THE EXTRA CARE AIRLINE / WELCOME ABOARD

Relax, Enjoy Army Life Medical Man Says

"Honestly, fellows, if the draft is inevitable—relax. You'll enjoy it."

That's the advice given by a young medical doctor who served his two years of military service at the Redstone Arsenal Army Hospital.

Writing in the May issue of "Resident Physician," Dr. William S. Renaudin recounts the initial emotions he felt upon notice of his draft call and reflects upon the results of his Army service. The six foot, 200 pound blonde Captain in the Army Medical Corps arrived at Redstone with his family in 1961 and completed his service about December, 1963.

Presently a resident at Charity Hospital in New Orleans with a specialty in obstetrics and gynecology Dr. Renaudin tells how dismayed he was to discover a "greeting from the President of the United States."

With all the upset and doom that went along with his induction, he relates how uncooperative he and his 90 classmates felt when they assembled at the Medical Field Service School, Brooke Army Medical Center.

It took only a couple of days until he felt a subtle change in his thinking. "I don't know how the military does it," his story goes on, "but I and the 89 other disgruntled bearers of the caduceus actually became interested and involved in what we were learning . . . By the time I left Brooke I was eager to get to my assignment and get to work."

This assignment brought him to Redstone Arsenal which he describes as ". . . beautiful rolling hills with pine trees, clear streams and pastoral scenery . . ." Everything impressed the Renaudin family, from the housing to the large play area for the children.

"Everyone on the Post, both fellow medical personnel and Regular Army personnel, was friendly and eager to help us get settled and enjoy our two-year tour of duty," Dr. Renaudin recalls.

The doctor was pleasantly surprised when "I was assured by the Post Surgeon that I could do all the obstetrics and gynecology of which I was capable . . ."

The benefits of his military service covered both professional and personal life. Dr. Renaudin, in his article, said that his duties as an Army doctor gave him his first opportunity to get the feeling of personal responsibility and individual involvement with patients. As a General Medical Officer he was able to catch up on medicine in

general—being forced to study up on such things as athlete's foot or "on the excision of warts."

From the personal side, their two years at Redstone Arsenal gave Captain and Mrs. Renaudin time and money to indulge in hobbies and activities that were beyond their means during his schooling. He said he felt healthier and was able to be with his children during their early formative years, opportunities not likely to have been his out in private medical practice.

Now that he is back at his residency, Dr. Renaudin observes:

"My two service years are far enough behind me to reassess them. They still come out as outstanding. I find that I approach my residency now with vigor, and with a maturity of judgement of which I was incapable when I first started. Because of my two years of general practice in the Army I have been able to develop a much broader approach to my patients.

" . . . The experiences and stimulation I gained from my Army stint will affect me for the rest of my professional life."

Non-Destructive Testing Courses Scheduled At UA

The University of Alabama in Huntsville is offering a short course in Non-Destructive Testing July 26-30.

The course is designed to help supply the educational needs of inspectors, materials and quality control engineers, industrial and structural designers and engineers, production supervisors, and other personnel.

No specific prerequisite training or experience is required for registration in the course. The fundamentals of each subject area will be identified; the applicability will indicated in terms of the advantages and limitations; the equipment, procedures, and techniques of application will be discussed; and the interpretation of test indications as related to material discontinuities will be established for each test method. This information will be supplemented by a survey of the properties of materials, the effects of processing and fabrication, and where possible, the significance of service condition and failures.

The tests most widely and currently used will be discussed in detail. These will include:

Ultrasonics, Radiography, Liquid Penetrants, Eddy Currents, Magnetic Particle Testing.

Many other tests will be discussed but in less detail.

The instructors for the course will be, Harry Richardson, Director, Nuclear Science Center, Louis-



PROMOTED DURING VISIT—Capt. Phillip Williams has just received his captain's bars pinned on him by his wife and her father, Col. George McBride, Hawk Project Manager. The captain, his wife and infant son, were visiting the McBrides when orders came through for his promotion. The Williams are on their way to Germany after his assignment at the Signal Officers Career Course, Ft. Monmouth, N.J. Capt. Williams was formerly stationed at the Ordnance Guided Missile School.

iana State University, Baton Rouge, La; Dr. A. E. Carden, Associate Professor of Engineering Mechanics, University of Alabama. Dr. Carden is the Program Coordinator for this course. Leslie W. Ball, Ph.D., and post graduate research, Manchester University and Manchester Radium Institute, England, (with honors). Director of Reliability of the Boeing Aerospace Division since 1959. Warren J. McGonnagle, Ph.D., University of Oklahoma; Assistant Director of Electronics and Electrical Engineering, Southwest Research Institute, and Gerald H. Tenney, Ph.D., University of Vienna; group leader Los Alamos Scientific Laboratory, nondestructive testing research group.

All interested persons should contact D. J. Kieselbach at the University of Alabama, Huntsville Campus, P. O. Box 860, Huntsville or call 837-4700, Extension 259. Enrollment may be made by individuals or companies. Any number of persons from a single company may enroll as long as there are vacancies. Upon receipt of a written request, a place in the short course will be reserved for industry personnel and government employees who require time to obtain authorization. Companies may enroll for a given number of individuals and supply the names at later dates, if necessary. For all such enrollments, the individual names must be received by the University before July 21, to insure a place in the short course.

★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★
FOR AMERICA'S SECURITY
AND YOUR OWN
BUY U.S. SAVINGS BONDS
 ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

Page 6 The Redstone Rocket — July 14, 1965

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

CONTINUED FROM PAGE 5

Joy's Grand Opening

You Can't Miss Our Big Sales Lot
 3 Blocks West of Jordan Lane at
 4707 Governors Drive West . . .

SEE . . .

Our all new 12-foot wide Statesman, built by United States Aluminum Co., the Rolls Royce of Mobile Homes.

FREE . . .

CONTINUED ON PAGE 7

LYRIC THEATRE

"Huntsville's Finest"

STARTS THURSDAY

More fun than a barrel of teen-agers!



TECHNICOLOR

HEALTHFUL-DELICIOUS Dairy Foods



For your family . . . they deserve the best!

Your family is important, and you want them to always have the very best of everything . . . so serve them delicious dairy products. Meals and snacks made with dairy foods are always better.

PHONE 539-3891

For Home Delivery

Meadow Gold Dairies

Clinton Street

Huntsville



PROMOTED—Lt. Col. Glenn L. Bass (center), former Chief, Transportation Division, Installations and Services Office, U. S. Army Missile Command, has silver eagles pinned on his blouse by Mrs. Bass and Maj. Gen. John G. Zierdt, Commanding General of the Missile Command. Just before pinning the insignia of a full colonel, the General presented Col. Bass an Army Commendation Medal for outstanding work he initiated at Redstone Arsenal as a lieutenant colonel. Col. Bass' next assignment is in Korea.

Glenn L. Bass Promoted To Full Colonel

The Army showered double honors on Lt. Col. Glenn L. Bass last week. Maj. Gen. John G. Zierdt presented him with an Army Commendation Medal for his work as Chief of the Transportation Division, Installations and Services Office at the U. S. Army Missile Command and he also was promoted to full Colonel.

The General made a point of presenting the Medal before helping Mrs. Bass pin on the silver

eagles insignia of full Colonel.

At Redstone Arsenal since July 27, 1962 Col. Bass is now on leave before departing for a new assignment in Korea.

The family will remain in Huntsville during the Colonel's Korean tour. Their home is in Willowbrook Estates.

The Commendation Medal was awarded for the outstanding manner in which he developed and executed management techniques in the facilities, construction, communications, safety, security, supply and transportation functions which effected savings to the Department of Defense. His input is now a guideline for use by the Army Materiel Command and the Department of the Army.

CHEMICAL ENGINEERS ELECT

W. D. Fiser, plant Engineer at Thiokol here, announced the results of the recent election of officers for the North Alabama Section of the American Institute of Chemical Engineers.

Replacing Fiser as chairman will be R. J. Blaha; chairman-elect, W. P. Rhodes; Tri-Cities vice chairman, W. R. Johnson; Decatur vice chairman, D. B. Watt; Huntsville vice chairman, T. M. Day; secretary, R. M. Hamer; and treasurer, B. J. Green.

TO ALL PERSONNEL TRAVELING NORTH ON PARKWAY ON WAY HOME . . .

"OTHERS INVITED"

Arrive home relaxed and at approximately the same time instead of waiting in a traffic line.

— STOP AT THE —

Arnold Palmer Putting Course on Parkway

"Airport Entrance" Special Price
ONLY 25c WITH THIS COUPON
From 3 P.M. to 6 P.M. Weekdays

CONTINUED FROM PAGE 6

Joy's Grand Opening RIDES FOR THE KIDDIES

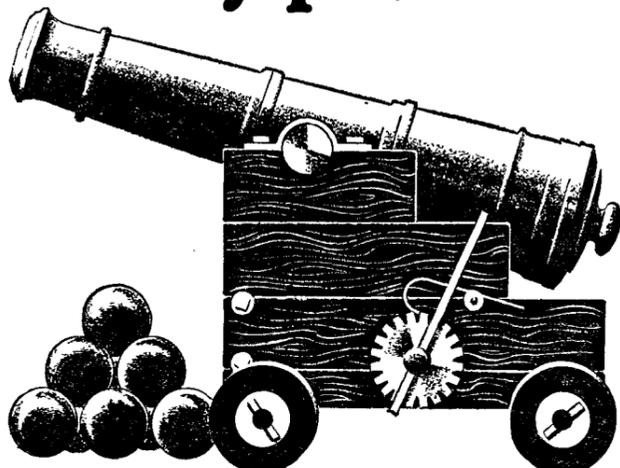
They will be amazed at the Flying Saucer and Helicopter Rides . . .

Plus Free Gifts For The Kiddies!

Come as you are and wear your casual clothes and drive out and see a complete line of mobile homes. 25 different floor plans . . . 8 wides, 10 wides and 12 wides.

CONTINUED ON PAGE 8

Battling a money problem?



Borrow confidently at HFC

More than 150,000 servicemen every year win the battle against money problems with loans from Household Finance. With over 1400 offices, HFC can give you experienced money service—wherever you're stationed. If you need a loan for any good purpose, borrow confidently from the oldest and largest company of its kind—HFC.

Ask about credit life and disability insurance on loans at group rates

LOANS UP TO \$300 —with up to 24 mos. to repay
LOANS UP TO \$2000 —with up to 30 mos. to repay

Cash You Get	MONTHLY PAYMENT PLANS			
	6 Payments	12 Payments	18 Payments	24 Payments
\$ 50	\$ 9.23	\$ 5.02		
75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

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

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

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



HOUSEHOLD FINANCE
—Corporation of Huntsville—

706 Heart of Huntsville Shopping Ctr.

PHONE: 539-4496

Ask about our evening hours



HOUSEHOLD FINANCE
—Company of Alabama—



get all that beer can give you...

get BUSCH!
yours at popular prices

DISTRIBUTED IN MADISON COUNTY

By

TURNER BEVERAGE COMPANY
Huntsville, Alabama

SOCIAL ^{and} CLUB EVENTS

Bridge Draws Ten Tables

Ten tables of players participated in the bridge competition with the group sponsored by the Redstone Arsenal Officers Wives Thursday morning at the Redstone Officers Open Mess.

Winner was Mrs. R. R. Jones with Mrs. F. M. Hardison second and Mrs. W. A. Brooks third. Low scorer for the day was Mrs. Robert Newell.

Reservations to play with the group are handled by Mrs. A. J. Matthews.

Sunday Band Concerts Set

Sunday afternoon band concerts at the U.S. Army Missile Display Area have been announced for the remainder of July and August.

The 55th U.S. Army Band will play from 1 until 4 p.m. Sunday July 18, Aug. 1, 15 and 29. The Huntsville Youth Band is scheduled for the same hours on July 11, 25, Aug. 8 and 22.

The newly established Army Missile Area is located just off Martin Road between Redstone Arsenal Gate 1 and Bob Wallace Avenue. Visitors are welcome between 10 a.m. and 5 p.m. Tuesday through Saturday, and 1 p.m. to 5 p.m. on Sunday. Picnic facilities are available.

Approximately 2,500 persons vis-

Oswald To Select Partners For Computer Dance

Oswald, the Computer, has been solicited by the bachelor officers to match wits at matching couples for a dance at the Redstone Officers Open Mess Aug. 13—and then to mix couples again and a third time so that each man and woman will exchange partners three times during the evening.

All the bachelor officers on Post are loaded with questionnaires. However, they won't gather up the questionnaires. Everyone will place his own in a sealed box at the Mess before July 23. Girls, interested in seeing what the computer thinks is a good partner, can obtain the questionnaires from the bachelors, or at the Open Mess. Also someone may contact those in the quarters area.

A married officer will unseal the box confidentially feed the data to Oswald for selection. All the information is to be kept in strictest confidence between Oscar and the officer so that the bachelor's will have no chance to peek to see what fellow officers or the girls have confided in Oswald.

The dance is to be informal—sport coat and tie—in the Ball Room between 8 p.m. and 1 a.m. Officially it is called "The Computer Dance."

ited the area over the 4th of July weekend.



W. W. NEWMAN, JR.

Electrical, Electronic Engineers Elect Officers

New officers for the Institute of Electrical and Electronics Engineers Management Group were announced by Grover Dausman, 1964-65 chairman.

The new chairman is W. W. Newman, Jr., of the Army Missile Command who will serve with S. M. S. Alvi, Boeing Co., as vice chairman and Gains Gravelee, also of Boeing as secretary treasurer.

Newman is Deputy Director, Ground Support Equipment Laboratory of the Research and Development Directorate. He came here in 1962 as the Army Ballistic Missile Agency's chief of the Electrical Branch, Systems Design and Development Laboratory.

Newman served with the Army Corps of Engineers in World War II with assignments in Africa and Europe.

He earned his bachelor of science degree at Auburn University.

Births At Post Hospital

Daniel Glen Earle, July 3, son of 2 Lt. and Mrs. George L. Earl.

Keith Ashley Rollins, July 5, son of SP5 and Mrs. Kenneth A. Rollins.

Donya Lynn Thorne, July 6, daughter of Capt and Mrs. Tommy L. Thorne.

Regina Lynn Glass, July 7, daughter of SP4 and Mrs. Al E. Glass.

Susan Diana Green, July 7, daughter of CWO and Mrs. Ches-

NDTA TO MEET

The National Defense Transportation Association, Huntsville Chapter, will meet at the Elk's Lodge in Huntsville at 7:30 p.m. July 15.

George Smith of American Airlines will be the guest speaker, augmenting his address with a film on the airlines activities.

The meeting is open to interested individuals.

ter L. Green.

Melanie Elaine King, July 4, daughter of Major and Mrs. Melvin E. King.

CONTINUED FROM PAGE 7

Joy's Grand Opening

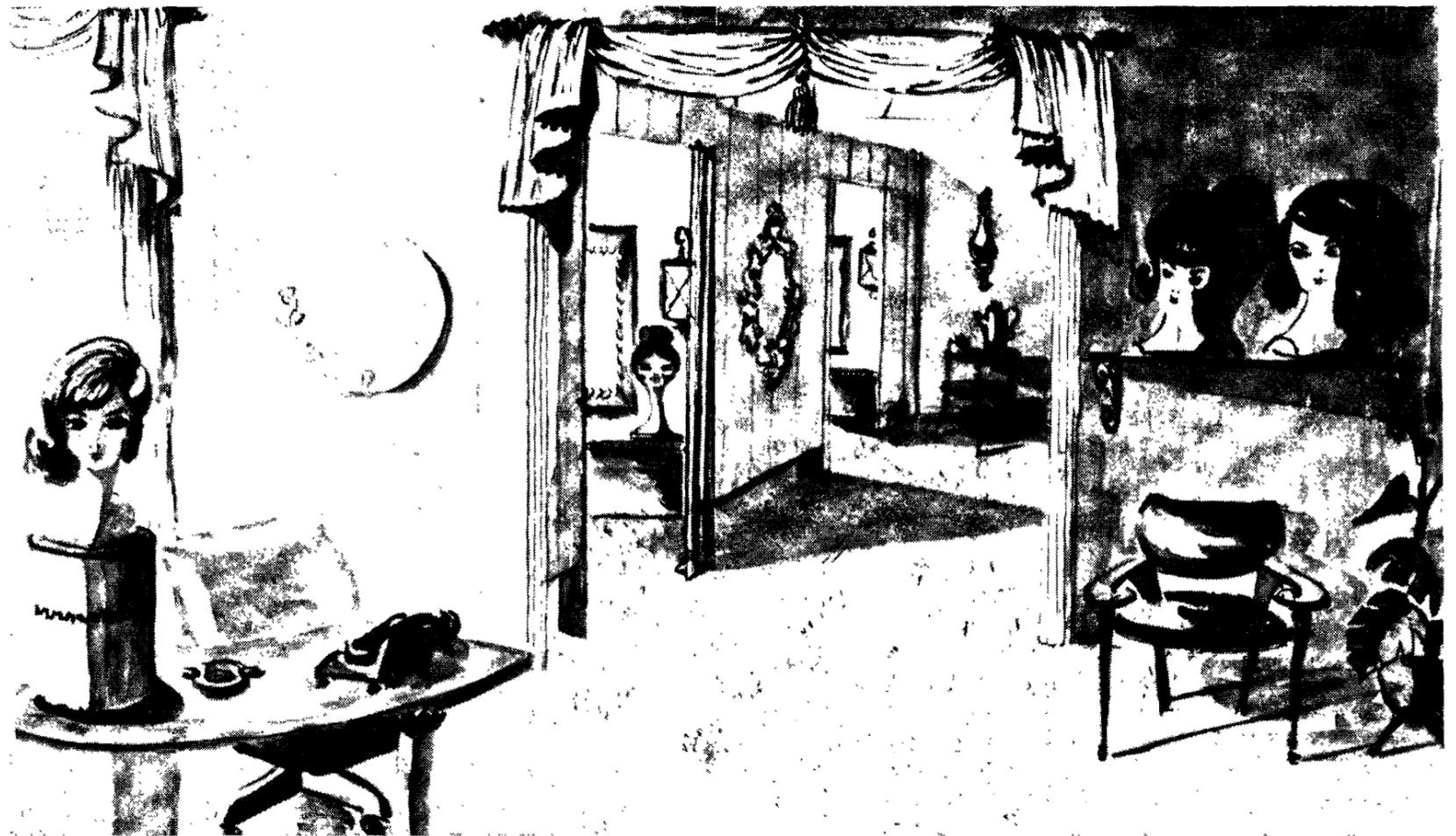
Tip-Outs — Front Kitchens
Front Bedrooms and Etc.

Our Big Sales Lot Is Stocked to the
BRIM . . .

With National Brand Mobile Homes
You Are Sure to Find the Home to
Fit Your Needs!

DON'T MISS OUT ON
GRAND OPENING

CONTINUED ON PAGE 9



THE WIG ROOM

NEWLY REDECORATED

6th floor Times Building — Corner of Green St. and Holmes Ave. — Downtown

We now stock the famous
Italian made "Lisa" Wig

as low as
\$49.50

Other Wigs

as low as **\$39.50**

We Sell Only 100% Imported Human Hair

FREE Complimentary Portrait sittings at Meredith Studios on Holmes Avenue With Purchase



OFFICERS' WIVES TOUR—Wives of key officers at the Ordnance Guided Missile School participated last week in an orientation tour aimed at familiarizing them with the work done by their husbands. At one of the hardstands, Mrs. H. V. Smith, wife of the assistant commandant, Mrs. Charles M. Hersh, wife of the executive assistant for education, and Mrs. E. H. Graham, Jr., wife of the new School commandant, looked over these scale models of missiles used in training at OGMS.

School Officers Wives Tour Teaching Facilities

Officers' wives and staff personnel at the Ordnance Guided Missile School got a close up view of what their husbands do for a living last week as the School initiated a new series of Ladies Orientation Tours.

Mrs. Erwin M. Graham Jr., wife of the new commandant, led the group that included the wives of most of the key personnel at the school and three visitors to the tour.

Among other things the ladies

were briefed on what goes on at the school and how the training is handled, and visited various missile training sections. One highlight of the tour was a training aids demonstration in which many of the devices used to illustrate missile technology were shown. They also visited the Television Division for a close up view of one of the most modern teaching laboratories in the nation.

Besides Mrs. Graham on the tour were: Mrs. Hobart V. Smith, wife of the assistant commandant; Mrs. Frank J. Wasson, wife of Col. Wasson, chief of the Combat Development Command Ordnance Agency; Mrs. Williard Anderson, wife of Lt. Col. Anderson, chief of the Office of Logistical Support; Mrs. William A. Leonard, wife of Lt. Col. Leonard, director of New Missiles and Literature; Mrs. Charles R. Richards, wife of Lt. Col. Richards, chief of the Air Defense Department; Mrs. Robert C. Long, wife of Lt. Col. Long, School Troop commander; Mrs. Hugo C. Sanford, wife of Maj. Sanford, chief of the Artillery Department; Mrs. William H. Lentz, wife of Maj. Lentz, chief of Training Division, Office of Operations; Mrs. Charles M. Hersh, wife of Dr. Hersh, executive assistant for education; Mrs. S. E. Kreger, wife of

Kearby And Family Are On Way To Kwajalein

An Army missile engineer from Edmond, Okla., LeRoy I. Kearby, leaves Redstone Arsenal, this week for a tour of duty at one of the nation's most unique missile test sites.

Kearby is taking his wife and family to the Nike-X missile defense projects Kwajalein Test Site in the Pacific, 2,000 miles west of Hawaii.

He is the son of Mrs. Opal Deal, 1713 S. Rankin, in Edmond.

Mrs. Kearby is the former Anna Lou Craig of Pauls Valley, Okla. The Oklahoma native has been employed for the past six years

by the Army's anti-missile missile project at Redstone. The project operates the Test Site where Kearby will be involved in range operations.

The test site is a series of nine islands in the Marshalls, including intercepts of ICBM's fired from Vandenberg Air Force Base. Some 3,000 Americans live at the test site.

Kearby attended high school in Edmond and Central State College before taking his degree from Oklahoma University.

He and Mrs. Kearby have two sons.

At The Service Club

By BETTY HAYES

There are a variety of activities planned for you at the Service Club this week. The first big program begins tonight when we play "Identify the Instrumentals" at 8 p.m. You have the chance to see if you really know the great instrumental tunes of yesterday and today. It is a possibility that you may leave with the grand prize for naming the mystery tune.

If you haven't signed up for the ice skating party, stop by and sign up now. Everyone will meet at the Service Club on Thursday evening at 7 p.m. for the party.

Do you like to play shuffleboard? You do—why not enter the contest on Friday at 8 p.m. A

prize will be awarded to the champion player.

Delicious, cool refreshments will be served on Saturday afternoon at 3:30 p.m.

Come one, come all to the chuck wagon supper on Saturday night at 6 p.m. You will feel as if you are out west instead of down south when you taste the meal served in a western atmosphere.

Hot coffee and donuts will be served on Sunday morning at 9 a.m.

The Go-Go Sounds will be spinning your way at the record dance on Sunday evening at 8 p.m. Mark your social calendar for this occasion.

After an eventful week-end at the Service Club, relax and play an evening of games on Monday evening at 8 p.m. A variety of prizes will be given to the winners of the games.

Bridge is rapidly becoming the most popular card game, which is played at the Service Club. Join us for bridge night on Tuesday, July 20, at 7 p.m.

Next week look for more information on the SPECIAL SERVICES 25th BIRTHDAY PARTY; AROUND THE WORLD SLIDE NIGHT; the SOUTH SEA MAGIC DANCE; and other events.

See you at the Service Club.

STRIDE RITE SHOES

For Children

Straight Last — Thomas Heels — Plain Shoes

— ALSO —

"SPARKLE TOES" by Alexis
Now Two Stores To Serve You

The Junior Booterie

120 Southside Square — Downtown Huntsville
Phone 539-1112

— AND —

The Junior Booterie

Memorial Plaza Shopping Center So.
At Byrd Spring Rd.
Phone 881-2796

Picture perfect clothes for your vacation



You'll want to look particularly nice on that long-awaited vacation. Our superior cleaning techniques leave your clothes especially clean and bright and ready to go.

Valley Cleaners

PARKWAY CITY

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



\$5 per 24-hour day, 5¢ per mile

Call 881-3297

CONTINUED FROM PAGE 8

Joy's Grand Opening

3 DAY CELEBRATION
16TH — 17TH AND 18TH JULY

(That's This Weekend Folks!)

WE ARE LOOKING FOR YOU . . .

DON'T FORGET

We trade for anything of value on the mobile home of your choice!

Be Sure to Register For . . .

CONTINUED ON PAGE 10



The Full Bang Look

- So Feminine
- So Smart
- So Up to Date
- So Comfortable

By

Quick's Beauty Salon

PHONE 534-4551

117 Greene Street

Downtown Huntsville

PVT. BOO-BOO AIRDROPPED TO NAVY CBs IN RVN

Da Nang, RVN (AFPS) — The Third Air Delivery Platoon, located near an airstrip at Chu Lai, dropped some strange cargo to the Navy's Mobile Construction Battalion 10 recently.

The cargo, coming from Thailand, was rigged for drop along with 13,000 pounds of construction and repair equipment.

The equipment was dropped first, then a cage labeled "Airborne Seabee" was dropped. Private Boo-Boo, a bear cub, the Seabees' new mascot, came in under fire and landed with flying colors.

Movie Schedule

WEDNESDAY, July 14

"Backfire" (M)

THURSDAY-FRIDAY, July 15-16

"Operation Crossbow" (M-YP)
INCREASED ADMISSION: adults 50c, children 25c.

SATURDAY, July 17

"Finger on the Trigger" (M-YP)

SUNDAY-MONDAY, July 18-19

"Masquerade" (M-YP)

TUESDAY, July 20

"Baby, the Rain Must Fall" (M-YP)

Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

CONTINUED FROM
PAGE 9

**Joy's
GRAND
OPENING
●
40 FREE
Transistor
RADIOS &
GRAND
PRIZE . .
1 Fold Out
Tent
Camper
●
Drawing
Sunday
5:00 P.M.**

CONTINUED ON
PAGE 11

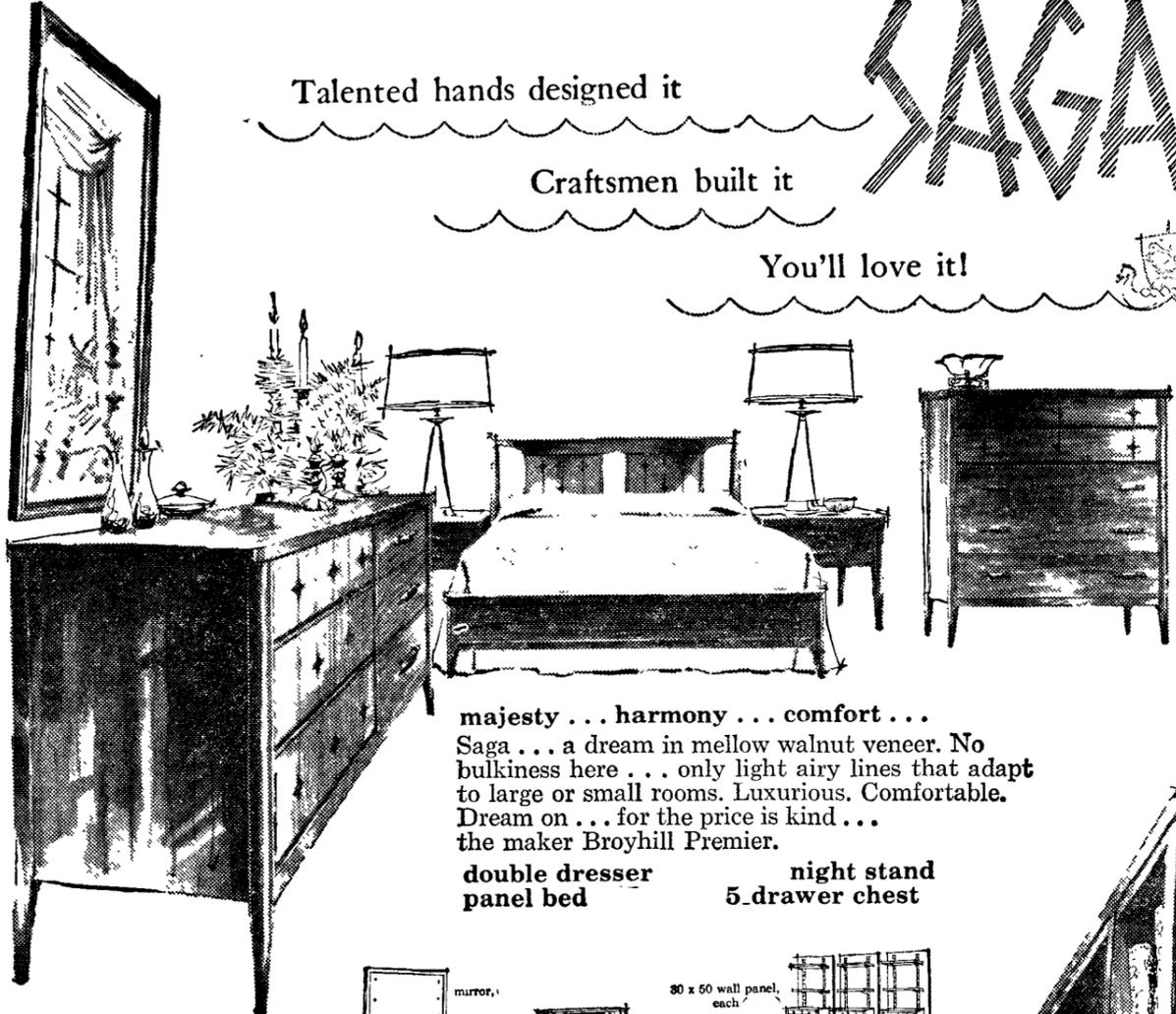
HALE BROS.

Talented hands designed it

Craftsmen built it

You'll love it!

SAGA

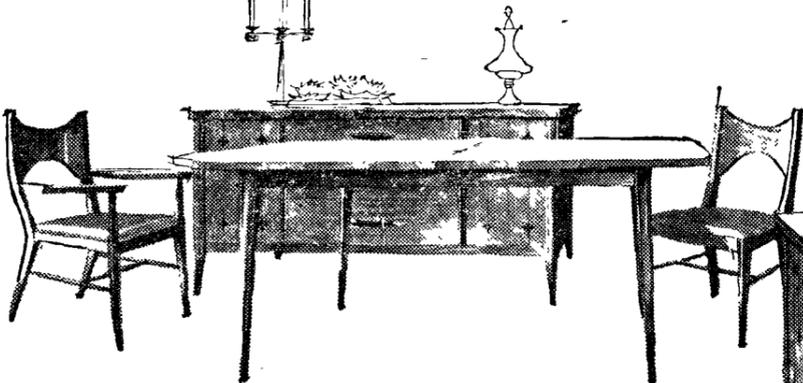
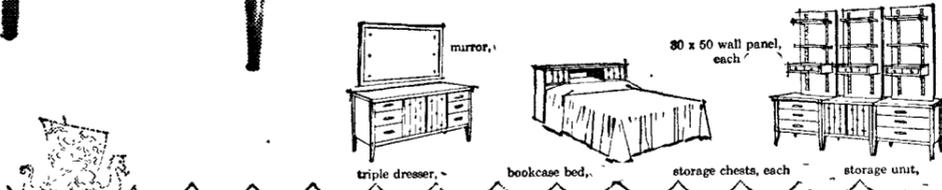


majesty . . . harmony . . . comfort . . .

Saga . . . a dream in mellow walnut veneer. No bulkiness here . . . only light airy lines that adapt to large or small rooms. Luxurious. Comfortable. Dream on . . . for the price is kind . . . the maker Broyhill Premier.

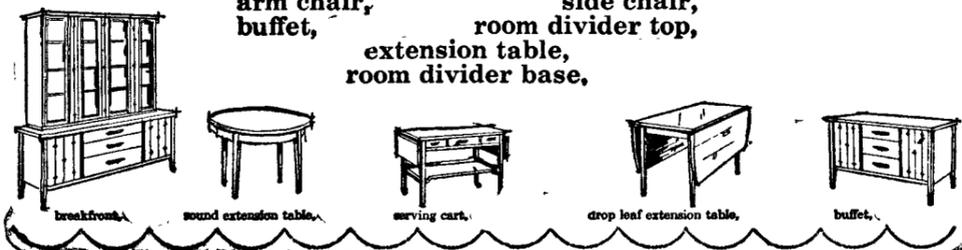
double dresser
panel bed

night stand
5-drawer chest



by
Broyhill
PREMIER

Dining becomes an occasion . . . with the presence of gay, graceful Saga. Touch the sleek walnut finish and feel quality. Roomy cabinets, sculptured pulls on dust proofed drawers underline quality. You'll be delighted with Saga . . . Indefinitely.



"Over 30,000 Square Feet of Furniture on Display"

CHARGE
ACCOUNTS
INVITED

CONVENIENT
TERMS
ARRANGED

Hale Brothers Furniture Co.

106 Jefferson Street—Downtown Huntsville—Pho. 536-8508 or 536-8509

● You Can Pay Your Telephone Bills Here!

Off-Beat And Efficient Describe Rosenfeld

Eddie Rosenfeld is the kind of guy who paddles his own kayak.

Rosenfeld monitors a construction program for the Army's Nike-X missile defense project that runs to eight fat figures and stretches a quarter of the way around the world. Personally Rosenfeld is slender and stretches less than six feet on tip-toes.

And, he does paddle a Kayak; having two and now in the market for a third racing hull which he says is 17 feet long and weighs slightly more than a heavyweight bowling ball.

Officially, Rosenfeld, Edward M., is Chief, Construction and Installation Branch, Test and Range Operations Division, Nike-X Project Office, Redstone Arsenal, Ala.

Unofficially, he is the relentless pursuer of the great compromise which gets things done when a half a dozen or so independent agencies are engaged in the same project. In the past years he has overseen the construction of everything from a nine story radar (at White Sands Missile Range, N.M.) to a sanitary sewer (on Ebeye Island in the Marshalls).

Management people with whom he deals constantly say he is a tenacious bargainer. Once, after a long session with designers over a particular type of insulation for a

building, he complained grimly that he could do the job cheaper "with crumpled dollar bills."

On another occasion, in negotiations with another Army agency over a method of providing fresh water for the Nike-X Project's Kwajalein Test Site, a Colonel, when told that a decision had been reached, asked "if it was a typical Rosenfeld compromise wherein we lost everything."

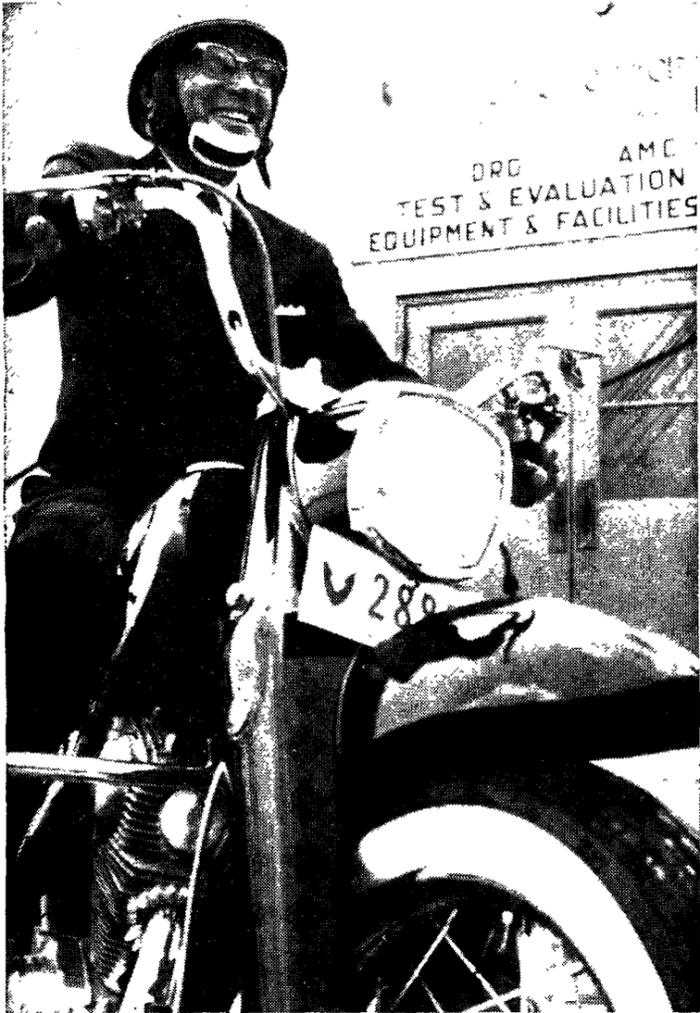
Born in Alpha, N. J., he graduated as an architect from the University of Pennsylvania. He spent 12 years with private architectural firms. Then he joined the Army Quartermaster Corps first as an architect and later as a supervisor in the design of Army buildings.

After being concerned with chapels and chow halls, he got into the missile business in 1952 when he designed a combination missile launcher and elevator for the Nike Ajax, the country's first air missile system. The elevator allowed the missiles to be stored underground. It also reduced the amount of expensive real estate required for a Nike Ajax site. The elevators are still being used on Nike sites throughout the country.

He joined the anti-missile missile project at Redstone Arsenal in 1958 when it had a staff of 30 people. Today it is ten times that



RADARS TO RACING KAYAKS—With muscles as nimble as his mind, Eddie Rosenfeld can leap from building a radar to riding a motorcycle; from defending a construction budget to racing a kayak. Here he is at his desk at the Army's Nike-X missile defense project at Redstone Arsenal. On his knee is his cyclist's helmet—the lack of which once kept him off the Arsenal.



THE MILD ONE—After leaving his motorcycle sitting in the garage for eight months after he purchased it, Eddie Rosenfeld finally got up the nerve to ride it to work. His usual mode of transportation is an Austin Healey sports car which he never puts the top up on.

big and spreads from Redstone to the Kwajalein Atoll in the Pacific.

Kwajalein has been a pet project of Rosenfeld's. Today it is a complex of nine islands with a \$500,000,000 investment in buildings and some of the world's most advanced radars. It is used by the Nike-X Project for testing and for ICBM re-entry physics studies.

The site of the major World War II battle, it was an obsolescent Pacific base in 1958 when, as one of Rosenfeld's first tasks, he set out to find a suitable testing range for the long range Zeus missile and its high powered radars. He headed a survey team that considered some 30 islands and spent two weeks in the air plying the Pacific in a converted Air Force Constellation.

Since that time he has travelled nearly a third of a million miles in making the 12,000 mile round trip between Redstone and Kwajalein a total of 22 times.

Described by his boss, Charles Richardson, Chief of the Test and Range Operations Division and Nike-X Deputy Project Manager for Range Operations, as "one of the most fabulous persons you'll ever meet." Rosenfeld has been stymied by two adventures.

One is marriage and the other is riding a motorcycle. He is a bachelor of long standing, but he recently bought a motorcycle. By his own account "it sat in the garage eight months before I had the guts to ride it." He even had a friend ride it home from the dealer's showroom. Recently, however, he showed up at Redstone proudly astride his un-broken-in mount — and was promptly turned away at the gate by MPs because he didn't have on a helmet.

His normal mode of locomotion is a white Austin Healey sports car which he drives sans top, winter and summer.

At Christmas his friends get hand drawn cards showing things like sketches he has made of the palm shaded chapel on Kwajalein. His water colors have been exhibited by the Corcoran Gallery in Washington, along with his silver work.

Among his other diverse pastimes are archery (he has four bows), a pistol shooting and omelet cooking (but no other kind of cooking; he claims a collection of nine omelet pans and the invention of a sardine omelet).

At 60 when most people begin

thinking of retirement, Rosenfeld supreme compromise in which he claims he "is having the time of his life." It may, however, be the he has agreed to grow old as long as he can still act young.

The Redstone Rocket — July 14, 1965 Page 11

money

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

Under State Supervision

LOANS UP TO \$300

MUTUAL

FINANCE

106 South Side Square
Phone: 536-8591

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

In Decatur

121 East Moulton St.
Phone: EL 3-4413

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

LOANS \$301 AND UP

MUTUAL

INDUSTRIAL FINANCE

106 South Side Square
Phone: 536-8591

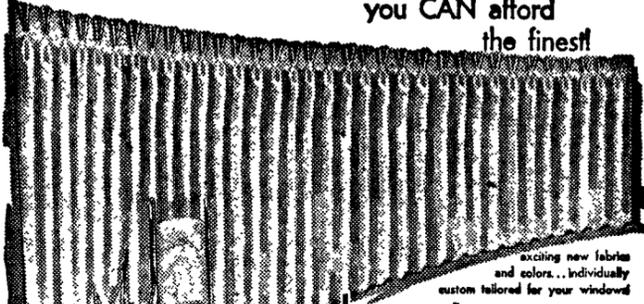
109 Holmes Ave., N.E.
Phone: 534-0611

In Decatur

121 East Moulton St.
Phone: EL 3-4413

MASON FURNITURE CO.

you CAN afford the finest!



exciting new fabrics and colors... individually custom tailored for your windows!

draperies PRICED TO FIT YOUR BUDGET

Superbly custom tailored! Magnificent fabrics are hand-cut for each order and each panel is carefully pattern matched! Each pleat is triple tacked... generous bottom hems are blind stitched... linings are hand tacked!

prices include:
• fabric
• measuring
• superb custom work
• installation

new... exciting...
insulated WHITE Lining
new at regular listing price!

Pho. 534-3541
at 555 of Wilson
Service
Call Today!

Mason Furniture Co.

115 Clinton Avenue

Downtown

Wrecker Service

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

Hill Chevrolet Company

CONTINUED FROM PAGE 10

Joy's Grand Opening JULY 18TH ON OUR BIG LOT

Factory Representatives will be here to talk with each and everyone of you!

**Come By And Meet
These Nice Folks . . .
Don't Forget!**

CONTINUED ON PAGE 12

Nike-X Trackers Sure They're On Right Track

The Army's Nike-X Project Office has been testing its massive Multi-function Array Radar for a year and this marvel of the electronics age has left its developers confident they are on the right track to solving one of the hardest problems in missile defense.

That problem is traffic handling—being able to engage and destroy if necessary whatever an enemy might attack the United States with in the way of ICBM's and submarine launched missiles. Traffic handling was one of the obstacles the Nike Zeus anti-missile missile system—predecessor to Nike-X—could never quite make its conventional radars hurdle.

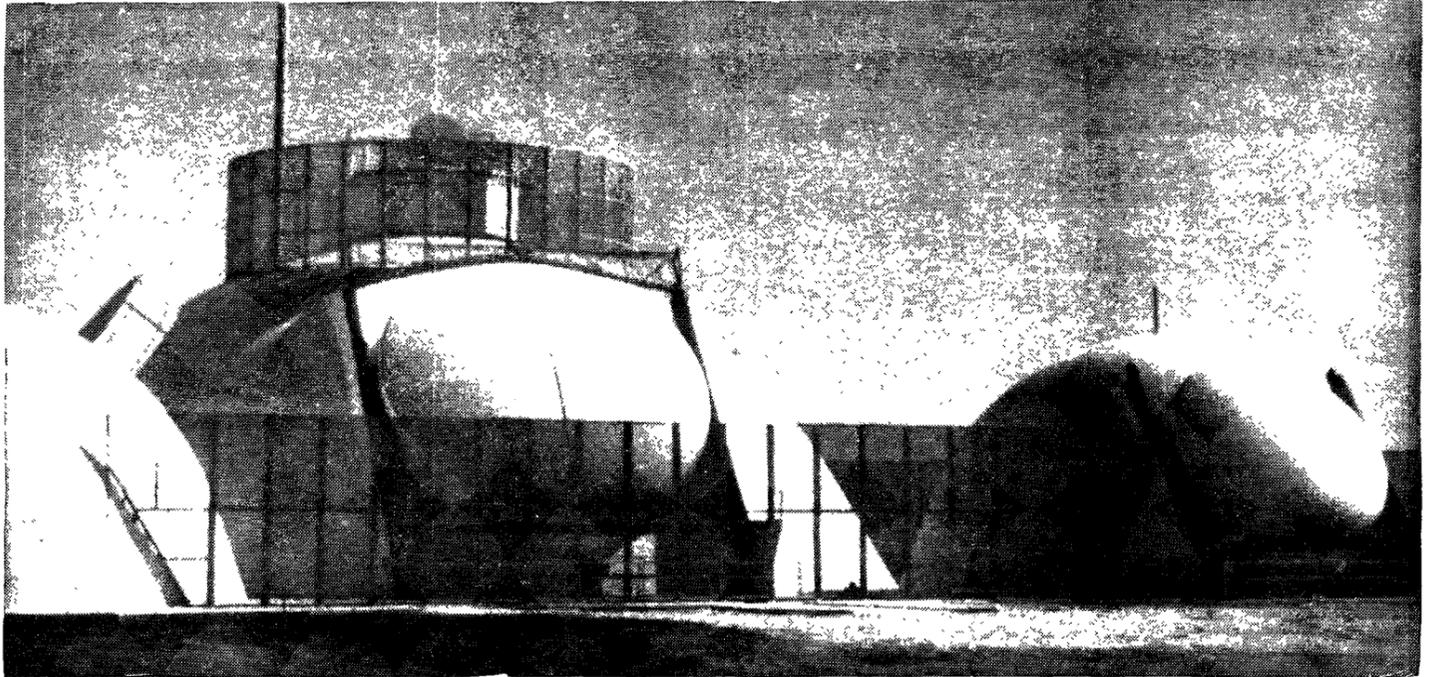
The MAR will serve as the eye and ears of the Nike-X system. It is the systems single biggest and most complicated piece of hardware. Other components of the system include a Missile Site Radar which is an advanced design and two interceptor missiles.

Construction of a pilot model of the MAR was completed last June at White Sands Missile Range, N.M., and testing got underway in July.

R. M. Bailey, Chief of the Nike-X Engineering Division, agrees that "everything hasn't been coming up roses," but he is still highly enthusiastic about the radar. Since the White Sands MAR was a venture into the unknown, it was not expected to operate perfectly in all respects.

Says Bailey, "as a result of tests we have altered the design on several elements. On the other hand, we have proved out the design in many areas. I would say the testing program has been very successful."

He is seconded in this analysis by Col. I. O. Drewry, his boss and the Project Manager running the



NIKE-X SYSTEM'S BIG RADAR—Protruding out of the desert floor like three huge concrete igloos, the Nike-X system's Multi-function Array Radar has been under test at White Sands Missile Range for a year. Shown here are the radar's transmitter dome at the right and the receiver dome on the left. Portion of a second,

unused, transmitter dome is shown at far left. Lens cap type radomes cover the transmitter and receiver elements on the front sides of the domes. An underground building beneath the domes houses the radar's electronic equipment. The building has some two acres of floor space.

top priority missile defense project for the Army.

Col. Drewry says he considers the successful development and testing of the MAR to be a major breakthrough not only in the Army's missile defense effort, but also in the entire field of radars.

Unlike conventional radars, the MAR has virtually no moving parts. Steering of its beam is done electronically—and for all practical purposes, instantaneously.

But the one thing which really

sets MAR apart from all other radars and makes it so effective is its design capability to perform many separate functions at the same time. It will detect and identify targets at long ranges, track targets with pin-point accuracy, observe and sort targets into various behavior patterns and guide interceptor missiles to within killing distance on the targets, all simultaneously.

To perform these functions the MAR has called for rush development of entirely new electronic components and techniques. Whenever possible its circuits have been transistorized and miniaturized—but the White Sands MAR still requires some two acres of underground floor space to house all of its equipment.

It has, for example, several hundred transmitting tubes and receiving elements. Most radars have only one each. The transmitter tubes are encased in the world's largest permanent magnet — 100 tons of water cooled steel. One of the problems encountered in the MAR was preventing "cross talk" or interference between these transmitter elements. This led to improved electrical shielding around some components and re-location of others.

During its test program the MAR has already acquired and tracked test missiles.

Knowledge gained in testing and operating the MAR at White Sands is being incorporated into the tactical MAR which is planned for the Nike-X system's Kwajalein Test Site in the Pacific.

As a pilot model, the White Sands MAR is used to prove in actual use pieces of hardware and methods of operation on which no functional experience is available.

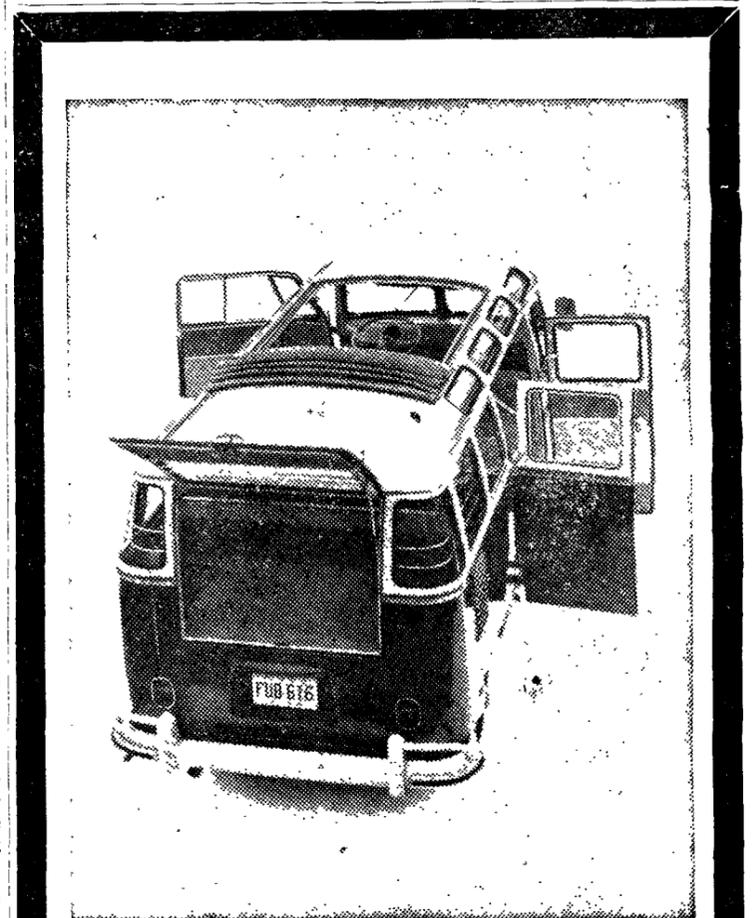
Furthermore, says engineering chief Bailey, the radar will be used to try out future state-of-the-art hardware improvements which can then be added to the tactical radars once they are proven to be beneficial. Having an "off line" test radar such as the White Sands MAR decreased to amount of time tactical equipment is off the air

for modifications.

MAR at White Sands was designed by Sylvania under the direction of Bell Telephone Laboratories. BTL for Western Electric

Corporation is responsible for Nike-X system design and development under contract to the Nike-X Project Office, Redstone Arsenal.

Page 12 The Redstone Rocket — July 14, 1965



We Must Sell 12 More Station Wagons in the Month of July!

HIGHEST TRADE-INS EVER!

Now Being Offered on Our New 1965 V. W. Station Wagons

COME IN TODAY OR CALL

UNIVERSAL MOTORS, INC.

2305 No. Memorial Parkway
PHONE 539-7456

7th ANNIVERSARY SALE SPECIAL PRICES FOR THIS SALE

REGISTER
For
Free 14,800 BTU
Coldspot
AIR CONDITIONER
To Be Given Away
July 15th

EXAMPLE:
2 Bedroom
Only \$320 Down
\$55.00 Per Month
\$3182.00

Nothing to Buy—You Do Not Need to Be Present to Win

Texas Mobile Home Sales

1003 Meridian Street
PHONE 536-6121

OPEN
8 a.m. to 8 p.m.
1 p.m. to 6 p.m. Sun.

CONTINUED FROM PAGE 11

Joy's Grand Opening

**16TH - 17TH AND 18TH
OF JULY**

Joy Homes On Wheels

4707 GOVERNORS DRIVE, WEST
HUNTSVILLE, ALABAMA

FOR OUR BIG

GRAND OPENING

MOBILE HOMES AS LOW AS . . .

CONTINUED ON PAGE 13

**Camping Time Is
Any Time at
MADISON TRAVEL
TRAILERS**

North Alabama's largest &
only exclusive Travel Trailer
and Camper Dealer.

Franchise Dealer For
• NOMAD • SKAMPER
• DREAMER • LITTLE COLONEL &
• HOLIDAY RAMBLER

Sales — Service — Rentals

**Madison Travel
Trailers**

Corner Jordan Lane & Governors Dr.
Phone 837-3882

Mathematics Aide Is National Sweetheart

Among the scores of summer employees at the U.S. Army Missile Command is a blue-eyed blonde mathematics major carrying the singular title of Sweetheart of Sigma Chi, 1965.

She is Miss Mary Jo Brazelton, employed as a mathematics aide in the Structures and Mechanics Laboratory of the Research and Development Directorate.

In the Fall she will return to the Tuscaloosa campus of the University of Alabama where she is a member of the Alpha Chi Omega sorority. Her first year on campus was on a scholarship, conferred by the Junior Miss Alabama contest.

Mary Jo is still glowing with the visions of her recent trip to Denver where she was awarded the Sweetheart title at the international convention of Sigma Chi. A reconstructed gold mining town Central City, was a stop on her itinerary as well as the beauties of Estes Park. The girls missed a trip to the Air Force Academy only because the roads leading out of Denver were flooded.

Mary Jo is the daughter of Mr. and Mrs. S. M. Brazelton of Madison, Ala.

She was cheerleader and Homecoming Queen at Butler high school where her sister Jean will be the captain of the drill team this Fall. Jean is also a member of the scholastic honor society.

Mary Jo is not just working at a job this summer. She is also enrolled in two courses at the University of Alabama Huntsville Campus. It leaves her no time for play or riding horses, but she'll have all her English requirements behind her when she returns to the main campus.



MISS MARY JO BRAZELTON
Mathematics Aide in Structures and Mechanics
1965 Sweetheart of Sigma Chi

R&D Management Officials Attend Computer Seminar

About 20 top management officials from the Army Missile Command's Directorate of Research and Development this week are attending an Executive Computer Seminar being held in Huntsville for the first time.

Col. Stanton W. Josephson, Director of R&D, opened the class Monday and emphasized the importance of computers.

With the help of computers, Col. Josephson said, "all sorts of information can be programmed and processed in a fraction of the time it would take an expert in the particular field."

"This is the first time the course has been offered in Huntsville," he said, "and it has been updated and tailored to meet our needs in R&D."

During the five-day training ses-

sion to be conducted by IBM Corp., studies will include basic data processing concepts, current developments and future trends. At least three other training sessions are scheduled during the next few months with a total of

approximately 80 key R&D executives attending.

Representing IBM in opening ceremonies was R. W. Blaylock, Huntsville Branch Manager of the IBM Data Processing Division.

DEW START

The entire Distant Early Warning Line began functioning officially July 31, 1957. (NNS)

COLLEY TO TALK

Ken Colley, reliability engineer for Hayes International, will present a paper "Mechanical and Electrical Systems Pertaining to Clean Room Environments" at the monthly meeting of the Huntsville Chapter of the American Society for Contamination Control, July 15, at the Sheraton Motor Inn at 6 p.m.

The Redstone Rocket — July 14, 1965 Page 13



DEFEND!
\$1.00
POSTPAID

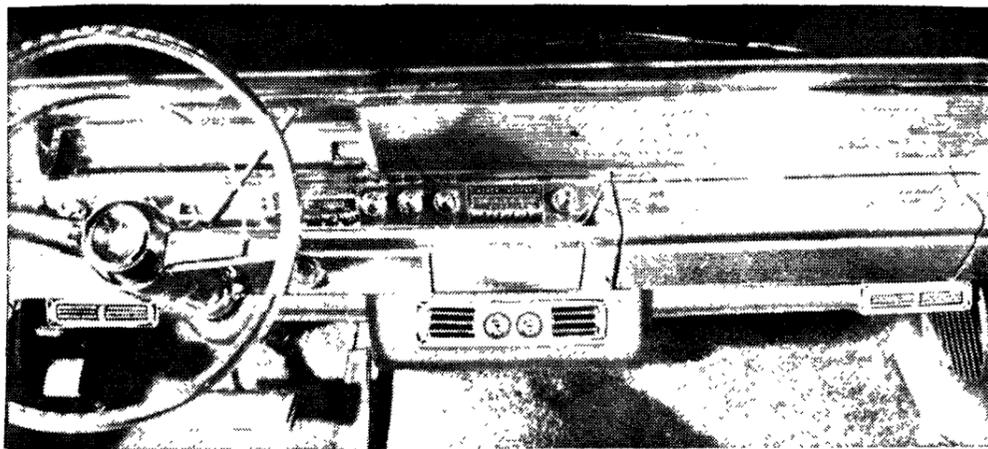
DEFEND, an amazing new product made expressly for protection against violent crime, can be carried easily in handbag, pocket or glove compartment. This palm-sized squeeze bottle contains a scientific solution which temporarily blinds the criminal but causes no permanent injury. It also leaves a telltale stain which marks the skin, assures identification.

At last women can enjoy self protection. DEFEND guards against attacks on streets, parks, self-service elevators. Terrific protection if you travel. Wonderful protection everywhere! The cheapest life insurance you can buy!

FLOYD'S

P. O. Box 7
Athens, Alabama 35611

KEEP COOL IN STYLE . . .



Why have a bulky air conditioner on the floor . . . Have a new streamline Clardy Customatic with 3 units on the dash as shown on this 1964 Pontiac.

- FITS ALL MAKE CARS —
- NO MONEY DOWN
- COMPLETE INSTALLATION

— CALL OR COME BY —

HOLIDAY MOTORS INC.

"FIAT AND JEEP SALES AND SERVICE"
701 Oakwood Avenue Phone 539-9593

CONTINUED FROM PAGE 12

Joy's Grand Opening

\$1.73 PER DAY

For A Joy Mobile Home

**Live Broadcast Over
RADIO BIG "B"**

Folks, Come On By. This Weekend Only . . . Register For Free Gifts and Fun For All! . . . Don't Forget!

CONTINUED ON PAGE 14

READ THE WANT ADS! USE THE WANT ADS!

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

Page 14 The Redstone Rocket — July 14, 1965

1. For Rent

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964-65 models. Ph. 536-9761 Central TV and Stereo Co., corner Governor's Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. ttc

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

**TYPEWRITERS
WAREHOUSE
CLEARANCE SALE
300 Must Be Sold
PHONE 881-5510**
Ttc

VOLKSWAGEN



SUGGESTED RETAIL
PRICE P.O.E.
\$1563.00

Freight, local taxes and other dealer delivery charges, if any, additional.

**Universal Motors,
Inc.**

"Your Authorized VW Dealer"
2305 NO. MEM. PARKWAY
PHONE 539-7456

2. Cars For Sale

1962 Chevrolet Impala 2 door solid white, red interior, auto, V8, radio and heater, call Phillip Blair 539-7456. 1-t-c

1963 Mercury Meteor 4 door Sedan V8 auto radio, heater reasonably priced excellent condition Phone Chuck Gilliland 539-7456. 1-t-c

1960 FALCON — 4-dr. sedan, automatic transmission, radio, heater. Tutona paint, white top, green lower. \$550.00. Call 881-5068. 1-t-c

1963 Pontiac Tempest 4 door, auto trans., take up payments on will finance call Malcolm Stanley 539-7456. 1-t-c

1962 Volkswagen sedan 29,000 miles, radio, Ruby red excellent condition \$1095. Universal Motors Inc. Phone 539-7456. 1-t-c

1960 Volkswagen Sunroof, radio, clean \$895. Universal Motors Inc. Phone 539-7456 1-t-c

3. Miscellaneous

Need a Bar-B-Q, retaining walls, planters, fireplace or other building? Call G. M. Petry & Sons, 852-7645. Satisfaction guaranteed. 7-21-c

PIANO REPAIRING, tuning and refinishing over 12 years experience. Parris Piano Service. 907 Meridian St., Phone 539-2906 ttc

BARGAIN SHOE CENTER—Summer Sale, ladies heels, flats and bags, some reduced more than half. Come see. Located 4 miles West Arab Hwy. 69, at Standard Service Sta. Joppa, Ala. Open Sunday. 7-15-p



WORLD'S LARGEST MOVER
Local and Long Distance Moving
FREE ESTIMATES Phone 539-1742
**DECATUR TRANSFER &
STORAGE, INC.**
2117 Holmes Ave., NW

**HERTZ RENTAL
TRUCKS AVAILABLE
MOVE YOURSELF**

NEW UHF CONVERTERS \$11.97

Alabama's largest sales and service dealer for Zenith, RCA TV & Stereo and RCA Whirlpool Appliances. Our prices are equal to or lower than so called "discount or wholesale" prices. Price, then compare. Our merchandise is visually priced tagged at all times. We accept trade-ins. Used TVs sold for \$20 and up. We service all makes and models. Picture tubes, 21 in. 90 degrees, \$21.00 exchange with 1 year guarantee. TV rentals by day, week or month. 1964-65 models. Open 8 a.m. to 9 p.m. daily.

CENTRAL TV & STEREO CO.
Cor. Governor's Drive & Parkway
Phone 536-9761 or 534-8689

RCA VICTOR RCA WHIRLPOOL
ABS SECRETARIAL SERVICE — 915 Franklin St., SE. Phone 534-6451 or 536-5992. Complete secretarial service. Also Mimeograph; Photocopy; and multi-copy service. Telephone answering. Notary Public. ttc

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

4. Mobile Homes

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

5. Houses, Lots - Sale

FOR SALE — 4644 Broad Meadow Lane, split level, seven (7) rooms, three (3) bedrooms, two (2) baths, only \$19,100.00. Call Cornelius Real Estate Company, 852-5486. 7-21-c

GUNTERSVILLE LAKE

Star Point S/D. Large wooded waterfront lot. Well built completely finished home, furnished. Large boat house. Excellent condition. \$15,000.00 See—

ED NEELY - Broker
Broad Street
Guntersville, Alabama
Phone 582-3914 or 582-3230
7-21-c

MONEY

For
HOME LOANS
FARM LOANS

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

• Also All Types of Insurance

GATES

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

SPORTS CARS

WE HAVE THEM . . .

MOST POPULAR & BEST SELLING SPORTS CARS IN U. S. A.

- M.G.B. Prices start at \$2658. P.O.E.
- Austin Healey 3000 MK3
- Austin Healey Sprites
- M.G. Midgets
- M.G. 1100 Sedans

See Them At

**STOCKTON
Motor Co.**

511 MERIDIAN ST., NO
PHONE 539-6587

FOR SALE—Brown's Valley Farm, 289 acres Price \$55,000. 150 acres in row crop, 31 acres in cotton allotment, 2 dwellings, barn, overflowing spring runs through entire farm. This farm on Highway 25 7 miles east of Arab, 8 miles south of Warrenton. Contact E. G. Williamson, Real Estate Broker, P. O. Box 41, Cullman, Ala., or phone Cullman 734-6294 days; 734-9190 nights. ttc

FOR SALE — Three (3) bedrooms, One (1) bath, electric heat, 2701 Craft Street, N.W. Huntsville, Ala \$12,000.00 as is. \$12,700 if redecorated. Call Cornelius Real Estate Company, 852-5486. 7-21-c

FOR SALE OR TRADE—One home, 3 bedrooms, brick, 1 1/2 baths, carport, close to Ridgecrest school and Gates 1 & 8 of Arsenal. \$2,000 equity. Trade for Travel Trailer or Camper of comparable value. Call 539-8612. ttc

FOR SALE—My home on Fourth Street, North-east, Arab. Five bedroom brick, with 3800 feet living area, including basement. Also recreational room, three baths, large den and kitchen with all built-in conveniences. Air conditioned, electric and gas heat. Double carport, concrete driveway. Two blocks from elementary school and adjoining high school. Outbuildings, cyclone fence, located on one-acre shaded lot. FHA appraisal much higher than asking price. If interested, contact Clyde Hart, Arab, 586-4141. 7-14-21-c

FARM FOR SALE—336 acre farm 38 miles north of Huntsville on Nashville Hwy 431, 3/4 mile frontage on both sides of highway. Can be divided into two tracts one containing 157 acres creek bottom land, new 9 room brick house, two baths, basement and 3 barns. Other has 7 room Colonial house, 2 barns and Grade A dairy barn on 179 acres. Can be sold separately. For further information call Mrs. James Hightower, Lewisburg, Tennessee, 539-2277. 7-14 21 pd

Glen Park APARTMENTS

Furnished or Unfurnished
Lovely 2 bedroom, living room, kitchen and ceramic tile bath, including air conditioning and TV outlet. Convenient to schools, churches and shopping.
852-0131

WHEEL ALIGNMENT \$4.88

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

ARE YOU BUYING OR SELLING? MORTGAGE LOANS

Maximum FHA and VA — Maximum Terms
Conventional Loans 5 1/2% - 5% — 25 Yr. Terms
W. B. Leedy and Company, Inc.

401 Lowell Dr. Suite 3
Huntsville, Alabama
Phone 539-3404

Southeast First!

GOING GOOD

in

MOUNTAIN GAP ESTATES

PRICE RANGE

\$16,600 to \$20,600

Mountain Gap Estates is located in Southeast Huntsville, across the street from the new school construction to be started in July, 1965, and is near the Haysland Square Shopping Center. This subdivision is located 2 miles east of Memorial Parkway. Turn east on Kohler Road and watch for Mountain Gap Signs.

THESE HOMES . . .

Have 3 & 4 Bedrooms, Attached Single or Double Garage or Carport, FHA or G.I. Financing.

Hunter & Mitchell

800A Arcadia Street
PHONE 539-1758



FOR SALE

Beautiful wooded 1 acre lot and like new 1961 54'x10' Wolverine Champion House Trailer with 4' living room extension . . . Septic tank, well and pump, TV antenna, new chain link fence. You'll agree it's one of the loveliest spots you have ever seen.

LOCATED 2 MILES FROM ARSENAL GATE
AT FARLEY

— SHOWN BY APPOINTMENT —

COLE AUCTION & REAL ESTATE

Phone 539-4328

CONTINUED FROM PAGE 13

Joy's Grand Opening

\$50.00 CASH

FROM FACTORY WITH PURCHASE
OF NEW MOBILE HOME THESE
3 DAYS ONLY

JULY 16th - 17th & 18th

At . . .

JOY HOMES ON WHEELS

CONTINUED ON PAGE 15



RAYMOND LITTLE. COL. THOMAS W. COOKE and Little's Special Acts Certificate

Raymond Little Receives Award From Commander

Raymond D. Little, an administrative officer in the Adjutant's Division at the Army Missile Support Command, was awarded a Special Acts and Services certificate and check for quick action when a fire broke out in the Support Command Headquarters building.

Walking along the main hallway of the building, Little saw the reflection of flames in the anteroom to the Commanders Confer-

ence Room and investigated. While he was stamping out the flames in a wastebasket full of shavings, someone from an adjoining office yelled, "Cut out that noise." Little's sense of humor led him to repeat the incident to his fellow workers over a cup of coffee and like all good stories, it was repeated until it reached the ears of Col. Thomas W. Cooke, Commander of the Support Command.

Col. Cooke then made arrangements to have the quick action of Little recognized.

In presenting the award, the Colonel said that too often people are absent minded about their surroundings and observation of things happening around them.

He said, "Little's speedy action after detecting the flames in an area where people seldom linger, saved the building from damage

or destruction."

When every motorist is as well mannered on the highway as he is when entertaining guests in his own home, our traffic injury toll will reach a new low.

Cost Reduction Is Everybody's Job —Do Your Part!

REAL ESTATE MORTGAGE

QUICK EASY TO REPAY } LOANS

On First & Second Mortgages
ANY AMOUNT
\$1,000 to \$500,000

Get a loan for any purpose on your developed or undeveloped residential, business or farmland properties. Up to 7½ years to repay on first or second mortgages. On the spot loan processing . . . no waiting!

ARTHUR COLE
MORTGAGE COMPANY
... "Directly Across Street From Huntsville Hospital" ...
911 MADISON STREET PHONE 539-0626

Thoroughness

Thoroughness on the job separates the men from the boys. It is the ability to follow through and make sure all the elements are in place. In the end, nothing can take the bloom out of a good idea faster than a sloppy job of execution.

ATTENTION SERVICEMEN

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

Central TV & Stereo Co., Inc.

Corner of Governors Dr. & Memorial Parkway
Phones 534-8689 & 536-9761
SALES & SERVICE

RCA
VICTOR
TV

RCA
WHIRLPOOL
APPLIANCES

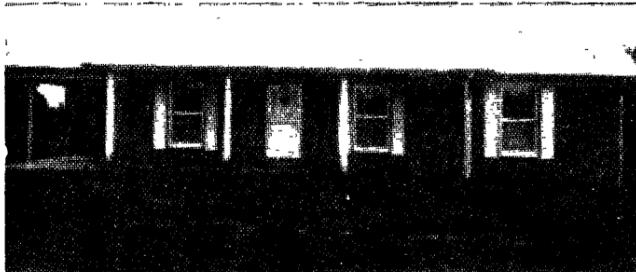
ABSOLUTE AUCTION

SATURDAY, JULY 17 at 10:33¼ a. m.

JOYLAND SUBDIVISION

Located on Highway 53 (Herman Nelson Highway) 6 Miles So. of Ardmore — 14 Miles North of Huntsville, Ala.

ACROSS FROM DALY'S GROCERY



HOUSE #1



HOUSE #2

30

1-ACRE LOTS

All the factors that make a desirable subdivision are present at Joyland. It is a prestige site that meets county approval. All lots are level (no expensive grading), many along highway frontage, 10 or 12 are wooded with plenty of shade. Wells are easily dug, evident by the 3 homes already occupied. Joyland is far enough for privacy, yet near to Huntsville, Ardmore, Pulaski and Athens. There are sensible restrictions to protect your investment. Drive out now or during Open House, July 11, and select your lot. Never again will you have a chance to get lots like these at auction where you set the price!

2

3-BEDROOM BRICK HOMES

Built for comfort, quality, convenience and good planning. Living room, kitchen-din combination, 3 bedrooms, 1½ baths, ceramic tile, carpet and plenty of yard. These homes will pass FHA or GI inspection. Stop paying rent when you can get the best for your family at this auction!

Free \$100.00 CASH Free

TO SOME LUCKY PERSON ATTENDING THIS SALE

PLAN NOW TO ATTEND THIS SALE. MARK YOUR CALENDAR FOR the BIG AUCTION SALE, Saturday, July 17. For lasting satisfaction, you can never do better. Joyland is a convenient spot where you will be proud to live and welcome guests.

TERMS: 75% to 80% Loan Available On Homes

LOTS: 1/3 Down Sale Day, Balance Bankable Note at 6%, 3 Yrs. Payable, On Notes. Plats will be Available.

LUNCH WILL BE SERVED!!

For Further Information Contact:

BOB KELLER REALTY & AUCTION COMPANY

Telephone 363-2527 or Tommy Harrison, Sales Manager 363-5159
Owners of property are Mr. Charles Solomon in Pulaski and Mr. Almus Bledsoe of Franke wing.

S. First St. COLE AUCTION CO. — OUR ALABAMA BROKER Pulaski, Tenn.

CONTINUED FROM PAGE 14

Joy's Grand Opening

COME ONE . . .

COME ALL . . .

FRIDAY, SATURDAY & SUNDAY

TO . . .

Joy Homes On Wheels

4707 Governors Dr., W.

Huntsville, Ala. — Pho. 837-1980

THE END

Annual Summer Lectures To Begin Friday Morning

A series of 20 lectures have been scheduled for the Third Annual Summer Lecture Series which will start Friday, July 23, at Redstone Arsenal. The series is for engineering and science summer employees of the Army Missile Command and the Marshall Space Flight Center.

Each of the lectures will be given by specialists in various areas of the Army and Space Agencies. The series will have its first formal meeting at MSFC's Morris Auditorium on July 19 when Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, will talk to the group. Regular lectures will be given each Monday and Friday through July and August with Dr. Wernher von Braun, Director of Marshall Space Flight Center, addressing the final session on Aug. 27.

Dr. Reginald I. Vachon is director of the Series. He is a summer employee of MSFC and regular faculty member at Auburn University.

The purpose of the 20 lectures is to relate engineering and scientific functions as seen on the job to those taught and learned in the classroom.

The Series is sponsored by the Joint Graduate Study Steering Committee of the Missile Command and MSFC.

The schedule and lectures for the Summer Lecture Series are as follows:

Friday, July 23, MSFC: "Laser Communications," Dr. J. L. Randall; "Manufacturing Research," Robert Schwinghamer.

Monday, July 26, Missile Command: "Laser Biophysics," James R. Dearman; "Atmospheric Effects On Missiles," Dr. O. M. Essenwanger.

Friday, July 30 MSFC: "Ground and Space Astronomy," Conrad Swanson; "Technical Management," Walter Wiesman.

Monday, Aug. 2: "Missile Intelligence," Bill Pales, Missile Command; Nike-X, Capt. W. J. Fiorentino.

Friday, Aug. 6, MSFC: "Post Apollo Man In Space," Dr. P. D.

GRIFFITH ATTENDS LOS ANGELES ENGINEER CONFAB

The Chief of the Control Systems Branch in the Army Inertial Guidance and Control Laboratory of the Missile Command Research and Development Directorate, William A. Griffith, is attending meetings of a Society of Automotive Engineers committee this week in Los Angeles, Calif.

Griffith is the Missile Command liaison member of the Aerospace Vehicle Flight Control Systems committee, SAME Aerospace Division. The group is composed of approximately 100 members from the Army, Navy, Air Force, National Aeronautics and Space Administration and all major prime contractors for missiles and aircraft.

Committee meetings provide information on the state-of-the-art and on typical problems and their solutions used on other missile control systems.

GRAY LADY COURSE

Lt. Col. James T. Thompson will conduct Gray Lady courses for dental clinic assistants July 19, 20, 21 from 8:30 a.m. to 11:30 a.m. at the Dental Clinic.

Interested volunteers should contact Virginia Swick, 877-5372.

Fisher; "Human Factors Engineering," Haydon Y. Grubbs.

Monday, Aug. 9, Missile Command: "Nuclear Physics," Dr. D. R. Koehler; "Spectroscopy," Dr. J. S. Merritt.

Friday, Aug. 13, MSFC: "Space-mobile and Fundamentals With New Applications," Timothy O'Connell.

Monday, Aug. 16, Missile Command: "Radar," A. Y. Harper; "Technical Documents," Fred E. Croxton.

Friday, Aug. 20, MSFC: "Test Operations," Carl L. Heimburg; "Lubrication In Space," E. C. McKannon.

Monday, Aug. 23: "Hypervelocity Techniques," A. H. Jenkins, Missile Command; "Space Vehicle Flight Control," J. R. Redus, MSFC.

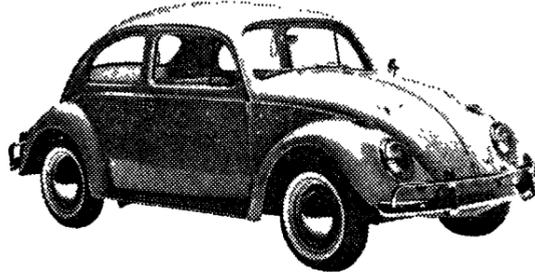
Friday, Aug. 27, MSFC: "Environmental Effects on Materials," L. K. Zoller.



SCIENTISTS VISIT REDSTONE—Maj. Gen. John G. Zierdt, Commanding General, Army Missile Command, welcomes the chief scientists of the Army Materiel Command and Army Munitions Command after their arrival at Redstone Arsenal last week for a two-day orientation visit. From left to right are: Dr. W. W. Carter, Chief Scientist, Missile Command; Gen. Zierdt; Dr. Craig M. Crenshaw, Materiel Command and Dr. J. V. R. Kaufman Munitions Command.

VOLKSWAGEN TALK!

The Bug!
You Know
What I'm Talking
About ...



The Beetle!
Sure You Do. It's
A Volkswagen
Sedan!!!

Your Neighbor Knows What I Mean!

IT'S YOURS FOR Only \$150.00 Down
And \$51.77 Month

30 Miles Per Gal.

**45,000 Miles On
One Set of Tires ...**

**Highest Trade-In
Value in The World..**

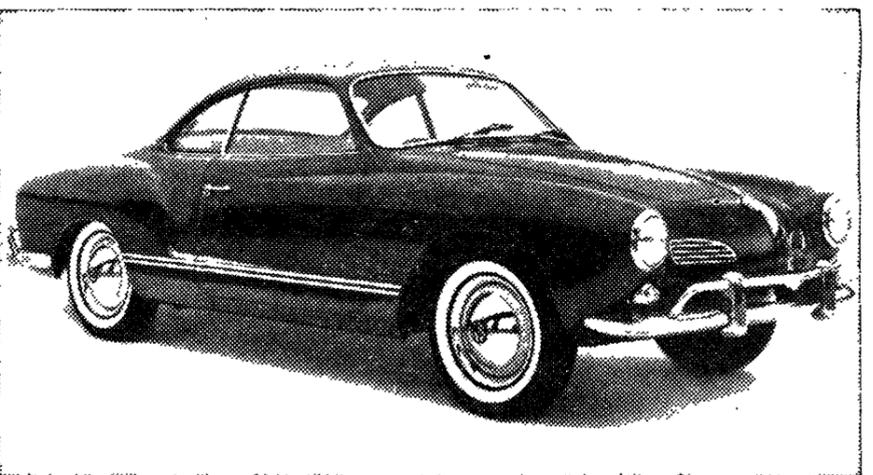
**IMMEDIATE
DELIVERY ...**

**Stop By And Let Us
Know Your Choice Of
Colors ...**

And Just—

Browse Around A Bit. BE OUR GUEST And Test Drive A 1965 Volkswagen

WE'RE OPEN 'TIL 8 P.M.



**KARMANN GHIA—by Volkswagen
IT'S SLEEK — IT'S SUBLIME**

**IT'S YOURS FOR ONLY \$279.95 DOWN
AND \$69.95 MONTH**

One of the few hand finished automobiles manufactured in the world. You will be proud to own one.

**A TEST DRIVE IS WORTH 10,000 WORDS
— TRY IT —**

Universal Motors, Inc.

"Huntsville's Only Franchised V.W. Dealer"

2305 NORTH MEM. PARKWAY

DIAL 539-7456



**LOCAL & LONG DISTANCE
MOVING • STORAGE**



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