

**UNITED STATES ARMY CHORUS**—The 40-voice United States Army Chorus is touring the Third Army Area. They sang at the Redstone Arsenal Post Theater Monday night after a one-night stand at Ft. Campbell, Ky. Their next stop was at Ft. Rucker, then Ft. McClellan before going to Ft. McPherson, Third Army Headquarters. Headquarters for the Chorus is Washington, D. C., where they sing with the United States

Army Band for State occasions as well as presenting performances for special events. The director is Maj. Samuel Loboda who is also assistant leader of the Band and a widely-recognized composer with such works as the Kiwanis Anniversary March and the 101st Airborne Division's "Screaming Eagles" March among his published works. The Band was formed under Gen. John J. Pershing. The Chorus came into being in 1956.

## HERCULES HAS NEW MANAGER

Col. Bernard R. Luczak, former Deputy to Brig. Gen. H. P. Persons, the Army Missile Command's Deputy Commanding General, Air Defense Systems, has moved into the driver's seat of the Nike Hercules Project Office.

Col. Luczak takes the reins from Lt. Col. Joseph C. Baer, who has directed Hercules activities since January, 1962.

As Hercules Project Manager, Col. Luczak will direct the activities of an Army Missile Command-developed anti-aircraft missile which has been in the hands of American soldiers for the past nine years.

He came to the Army Missile Command following his graduation from the National War College in Washington, D. C.

Before his studies, Col. Luczak



COL. B. R. LUCZAK

was assigned to the Missile Command's Headquarters at the Pacific Missile Range, Pt. Mugu, California, from 1958 to 1961.

Col. Luczak became a Regular Army officer in 1939. He held an ROTC commission from the University of Pittsburgh where he

# The Redstone Rocket

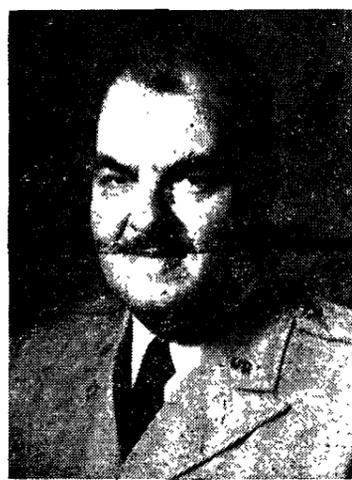
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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 30, 1963

## Explorer I Orbiting Five Years Ago



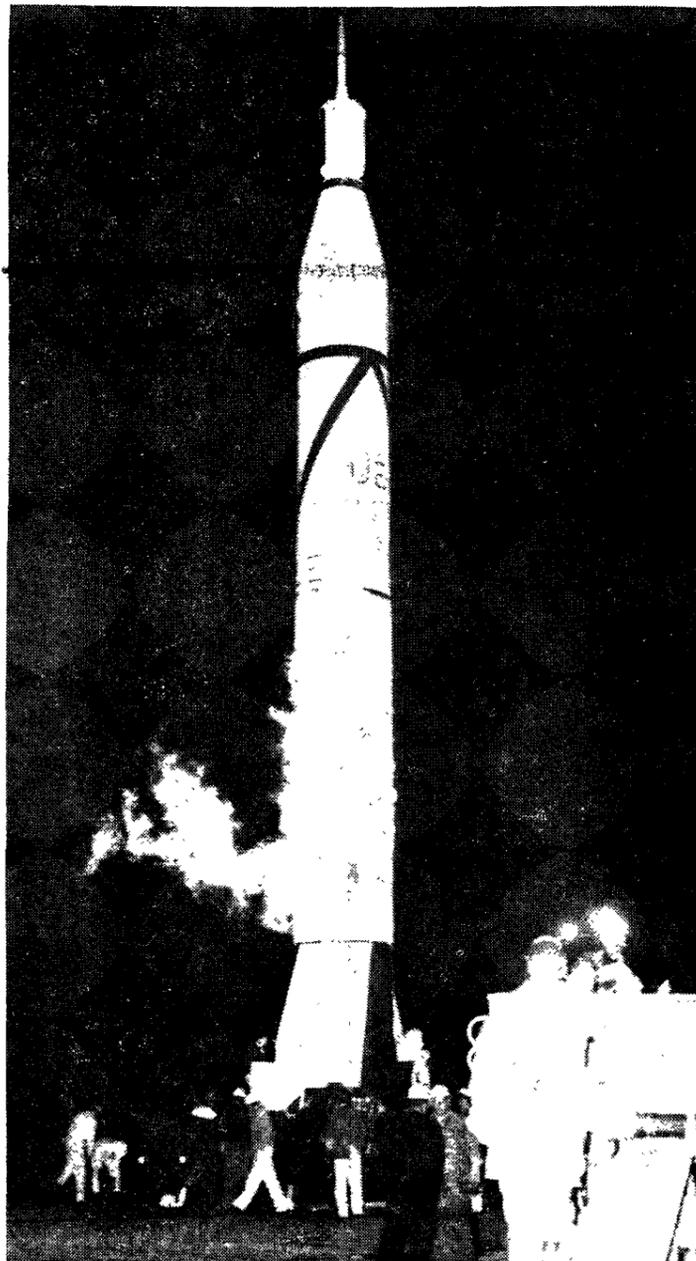
COL. J. C. BAER

earned a bachelor of science degree in industrial engineering in 1936. He also has a master's degree in business administration from Stanford University.

Col. Luczak is active in the American Ordnance Association, the Association of the United States Army, the American Rocket Society and the Aircraft Owners and Pilots Association.

From 1952-1954 he was stationed in Korea.

During World War II, Col. Luczak was in Europe. Among his decorations are the Belgian Order of Leopold, the Belgian Fourragere and the French Croix de Guerre as well as the Legion of Merit. He earned the Bronze Star (See HERCULES on Page 3)



**HISTORIC SATELLITE READIED FOR LAUNCH** — The Free World's first scientific satellite, a product of U. S. Army technical know-how, is shown here during launch preparations atop an Army-developed Jupiter-C. Tomorrow the satellite will count its fifth year of whirling through space. The successful shot by Army personnel opened a new era of technology.

## Army Began Man's Step Into Space

The Free World's first scientific satellite—a product of U. S. Army technical know-how — tomorrow will count its fifth year of whirling through space.

This will be more than an anniversary for many people at Redstone Arsenal. It marks the day when they wrote a new and exciting chapter in the pages of United States history—a day which saw the opening of a new era of technology.

The U. S. space era began when the Army's sleek Explorer I lofted its 18.13 pound payload into orbit around the earth at 10:48 p.m. EST, 1958. The satellite beamed scientific data back to earth for 63 days after launch—until its batteries were exhausted.

The payload began its historic journey when the Army Ballistic Missile Agency—then an element of the Army Ordnance Missile Command—sent its Jupiter-C rocket thundering skyward from a launch pad at Cape Canaveral, Fla.

Jupiter-C tossed its satellite payload into orbit only 83 days after the Army received an order to try.

Instruments packaged in the device confirmed existence of the Van Allen radiation belt, one of the major space discoveries of this century. Other data transmitted back to earth concerned cosmic radiation, micro meteorites, and the outside and inside temperatures of the satellite.

Explorer I is still under visual observation but its life is slowly drawing to an end.

It twirls in an ever-decreasing orbit around the earth 13 times each day. Eventually, the instrument-loaded satellite will lose its orbital altitude and perish in a fiery plunge toward the earth—expected sometime between three and six years from now.

Explorer I is still kept under visual observation by the National Surveillance Control Center at Bedford, Mass., and the Smithsonian Astrophysical Observatory at Cambridge, Mass.

Upper stages of the powerful (See EXPLORER I on Page 2)

## It's Bump, Bump, Bump In Missile Torture Test

The "Indianapolis 500" is billed as the world's most grueling run designed to test strength of men and machines.

But Redstone Arsenal has a 500-mile rival for the top billing.

The U. S. Army Missile Command's version, run on a 1.8 mile black-top track with built-in torture stretches, could be the makings of a truck-driver's nightmare or a tire-repairman's dream, depending on the point of view.

Missile engineers — working much as automotive engineers do in trying out their newest speed chariots at the annual Memorial Day race — wring out "live" missile motors in the 500-mile rough road tests.

Test engineer Jack Bissinger of the Test and Evaluation Laboratory, Directorate of Research and

Development, said missile stages are rough-roaded to find out how they withstand continuous G loads over long periods of time. ("G" forces represent the gravity acceleration of objects.)

Five series of bumps were used in a recent 500-mile test of two Pershing stages. Bissinger's test plan called for the motors to be hauled over: (1) a single railroad crossing; (2) 45 parallel 1x6 inch boards spaced over 90 feet; (3) 45 staggered 1x6 inch boards for another 90 feet; (4) 16 parallel 1x6 inch boards for 115 feet; and (5) 14 parallel 2x6 inch beams evenly spaced for 100 feet.

Obstacles are bolted into concrete along the sides of the course's straight stretch. Long turning loops at either end of the

stretch complete the course.

Truck drivers, R. T. Russell and Peter Merrell, Post Transportation, drew the job of rough-riding the Pershing. The two truckers drove their chariot, a 10-ton tractor-trailer with dual tandem wheels, 278 laps. Chains held the Pershing motor shipping containers to the trailer bed.

A smiling Russell, veteran of some 2,000 miles of test driving,

shifted the big vehicle into gear to start the test in front of an old Air Force C124 Globemaster tied down east of the Redstone airstrip.

The single railroad crossing hardly caused the semi-trailer to ripple but the parallel-staggered-parallel board combination shook the truck, driver and cargo much as a proficient daquiri maker (See BUMP, BUMP on Page 3)

# The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

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## Rocket Ruminations

"A friendly sea makes neighbors of widely separated nations."

—Adm. Robert Carney, U.S.N.

## Tax Refund Savings

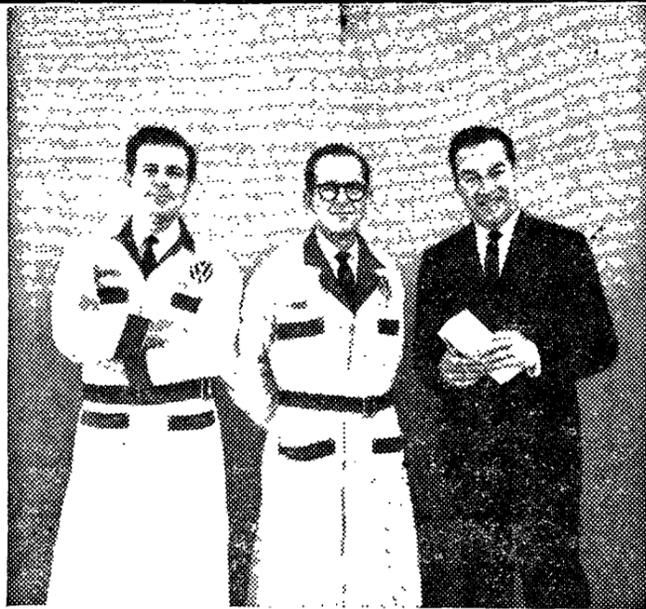
The new plan to give U. S. taxpayers the opportunity to take tax refunds in Savings Bonds is one that should prove a boon to individual citizens, as well as a constructive step in the direction of easing the Nation's debt management problem.

Public interest in this plan has been evident for a long time. A recent survey indicated that a significant number of taxpayers who received refunds last year might have taken them in Bonds if given the option. Individual taxpayers can benefit from the plan by making it a method of insuring that their refunds are not simply absorbed into household money, to vanish in day-to-day spending. The plan will permit the setting aside of the nucleus of a special fund for educating their children, planning for retirement, and the like. And for all taxpayers it represents an opportunity to own a real share in America while earning a good return on their money.

The Treasury hopes to benefit from the plan, too. At present more than 45 billion dollars in Series E and H Savings Bonds are outstanding, nearly 1/6 of the national debt. The Treasury is keenly interested in increasing the amount of money in Bonds, since every dollar in this type of security is a dollar less that the Treasury has to raise through the commercial banking system. The Treasury is also aware of the beneficial effect that Savings Bonds have in encouraging the habit of thrift and in helping to maintain economic stability in communities throughout the country.

Just as the Payroll Savings Plan has appealed to many people because it is an automatic way of saving, it is expected that the new tax refund plan will be popular for much the same reason. The Treasury hopes so.

It would be well for all citizens who are expecting tax refunds this year to consider seriously taking them in Savings Bonds—to benefit themselves and their country. A check mark in the proper place on the new tax forms can put you in an active role in supporting the Nation, and feathering your own nest at the same time.



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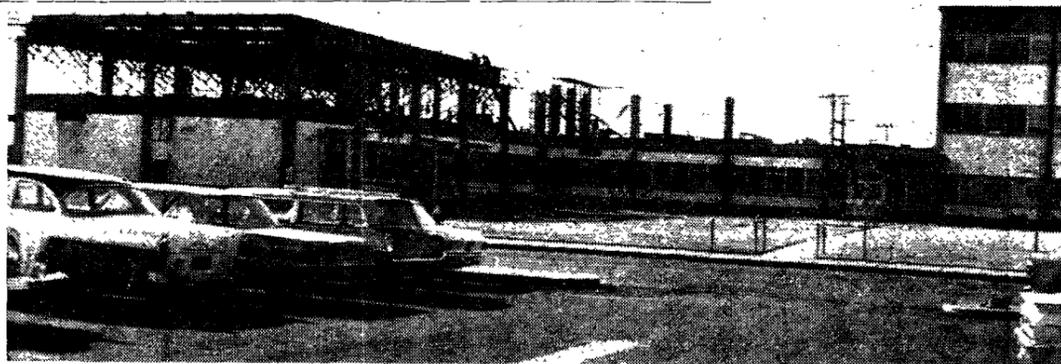
Our VW Parts Manager saves you time, money, and effort, by keeping a full supply of Genuine VW Spare Parts and factory-rebuilt assemblies on hand or immediately available—as is required at every Authorized VW Dealer's in all 50 states.

Why don't you drop in soon and talk to one of them—or, better yet, all three?



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**NEW OFFICE SPACE**—Concrete supports have been poured for the first of a two-floor addition to the cafeteria wing of the Army Missile Command's Research and Development Building. The two additional floors will have 12,000 feet of floor space. Plans call for completion in mid-August.

## EXPLORER I

(Continued From Page 1)

Jupiter-C and the satellite were packaged by the Jet Propulsion Laboratories of Pasadena, Calif., which was then performing research and development for the U. S. Army.

When the first news of the space achievement reached Huntsville five years ago, the missile-minded city pulled an unprecedented spontaneous celebration about the Court House square. Sirens screamed and an estimated 10,000 persons poured out of their homes to join the fun. Horns blared and firecrackers popped. They celebrated the success of

an Army-industry team effort.

Later, officials described the missile as a modified Redstone. It was developed by the Army Ballistic Missile Agency. At that time, the Redstone was the Army's most powerful weapon carrier over a 200-mile range. The Redstone furnished the basic unit for modification of the Jupiter-C.

In the modification process, the Redstone's power plant and other

components were adapted to a different fuel. It involved the developing and assembling of a different guidance and control system and fabrication of the rotation launcher for the upper stages of the missile system.

The mating of the liquid propelled booster and the high-speed upper stages was done in Army facilities at the launching site.

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## NOTICE OF ANNUAL MEETING

The Annual Meeting of the Redstone Federal Credit Union will be held at 5:00 P.M., Thursday, Jan. 31, 1963 in the Auditorium, First Floor, Building 5250, Redstone Arsenal, Alabama.

Officials will report on 1962 operations and an election will be held for offices expiring in January.

Three door prizes, \$25, \$15, and \$10, will be added to the shares accounts of the winners.

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**MISSILES ROUGHED UP**—"Live" missile motors are rough-roaded for 500 miles at the Redstone Arsenal "Fixed Bump Course" to find out how they withstand "G-loads" over long periods of time. Technicians J. W. Mills (left) and E. M. Pritchett, of the Functional Suitability Branch, Test and Evaluation Laboratory, are shown readying two Pershing stages for a recent test. The technicians periodically recorded the bumps and bounces with sensitive oscillographs carried in the panel truck. The test was run in a continuous rain.

**BUMP, BUMP**

(Continued From Page 1)  
 mixes the ingredients of the drink.  
 Bissinger, who served as a soldier in the T&E Laboratory from August 1960 to May 1962, said the Pershing stages were rough-roaded after being "soaked" (the engineer's term for conditioning) for 30 days at minus 10 degrees. He pointed out the "soaking" of the solid propellant motors took place in refrigerated conditioning boxes in the Arsenal's test area.  
 Technicians J. W. Mills and E. M. Pritchett of the Functional Suitability Branch, monitored the punishment by fitting one motor with sets of triaxial accelerometers (devices which measure stresses in three planes.) Accelerometers were also attached to monitor vibrations of the truck bed.

The technicians used oscillograph recorders mounted in a panel truck to monitor the "G-loads" at three different times during the 28-hour test.

The 278 laps take their toll on the wooden obstacles, the trucks and the drivers. Large pieces of wood are worn away by

**PROGRAM INSURES JOB OPPORTUNITY**

An Army program to insure equal employment opportunity on government contracts becomes operational this month with the establishment of seven inter-group relations specialist positions to various geographical areas throughout the United States.

As directed by the Secretary of the Army, Lt. Gen. Frank S. Besson, Jr., Commanding General of the U. S. Army Materiel Command in Washington, D. C. has appointed seven specialists who will serve as advisors and compliance reviewers on the equal employment opportunity program policies as set forth in the President's Executive Order No. 10925 and the President's Committee on equal employment opportunity.

They will be responsible for insuring that equal opportunity exists for all qualified persons either employed by or seeking employment with Army contractors.

Among the intergroup relations specialists selected is Hugh A. Brimm of Louisville, Ky., who will be located at the Birmingham Procurement District and will service the states of North Carolina, Georgia, Florida, Alabama, Mississippi and Louisiana. Mr. Brimm has been a professor at the Carver School of Missions and Social Work, Louisville, Ky.

the constant tire pounding. Russell said one truck recently threw its battery into a field along the road while another lost a spare tire.

He said the most serious mechanical mishap during this run was a worn-through battery cable. A standby tractor is kept at the test site to keep the test going during breakdowns and refueling stops.

The two drivers completed the run by each driving alternate 50-mile turns.

James Howard, test engineer with the Functional Suitability Branch, said inspectors will check the motors at the end of tests for cracks or other damage. Test

data and results are evaluated and reported by the Test Management Branch of the Test and Evaluation Laboratory.

Col. Earl F. Otto, chief of Post Transportation, has six drivers and several trucks assigned to the continuous test program. Truck drivers alternated the rough-road tests.

The "Fixed Bump Course," the course's official name, has several notable obstacles used for special applications. These include a sine wave, 18-inch high waves of concrete spaced 40 inches apart; a double railroad track; and rocks set into concrete. The rocks are used only for testing tracked vehicles.

**HERCULES**

(Continued From Page 1)  
 Medal in Korea in 1952.

Col. Luczak is married to the former Miss Rosemary Johnson, daughter of Mrs. Loma Johnson, Long Beach, California. His parents, Mr. and Mrs. Joseph Luczak, live at 1429 Anderson Road, Pittsburgh, Penn.

The Luczaks now are living at No. 6 Wadsworth Drive, Redstone Arsenal. They have three children, Loma Suzanne, 15, Richard, 12, and Mary Jean, 3.

Col. Baer, a native of Reading, Penn., is leaving the Nike program after being associated with it since 1954. He received his commission in the Coast Artillery Corps from Officers Candidate School in 1942. He is a graduate of the Command and General Staff College, Fort Leavenworth, Kan.

Col. Baer came to Redstone Arsenal in 1959 as Chief of the Technical Programs Division of Research and Development. Later he became acting Deputy Chief of Staff for R&D.

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# Ships On New Frontier Steered By Young Men

The "New Frontier" and its youthful look extends to science at Redstone Arsenal.

For example, there's a small group of U. S. Army Missile Command scientists here which will probably come up with the best picture yet of what happens to a missile nose cone during its flaming plunge through the earth's atmosphere.

The average age of the group is 33 and three of its nine members have Ph.D's.

The young scientists are going about their research with a 150-foot-long space age machine they designed and built for three-quarters of a million dollars as the only one of its kind in the world.

The machine is a plasma jet—a super hurricane of brilliant electric flame traveling at 20 times the speed of sound in a giant steel bottle.

The word plasma means, in simple terms, a gas such as air that has been broken down into charged atomic particles at high temperatures. A plasma jet produces these particles by passing the gas through a heavy electrical arc. An electric arc welder works on the same principle.

A plasma jet works basically like this: A model of a nose cone is placed on a stand inside the plasma jet test chamber and blasted with a fast moving gas that has been ionized and heated to more than 11,000 degrees Fahrenheit by an electric arc. The results are the same as if the nose cone were howling through space.

The magnitude of the electric arc in the big plasma jet here is 8,000 kilowatts, or about a tenth of the amount of electricity used by the entire city of Huntsville, in one day.

Most plasma jets blast the model nose cone with one steady jet of hot gases. Dr. Thomas Barr, Jr., and the group who designed the jet reasoned that to simulate a nose cone in flight more accurately they should be able to vary the amount of air through the plasma jet. Because of the plasma jet's fraction-of-a-minute operation, two high speed analog computers have been installed and programmed to

vary the pressure according to what it would be on a real re-entry body.

The visual and physical reactions of a model nose cone to the plasma jet's blue-hot flame will give the Army the fingerprints of an ICBM entering our atmosphere. The information will enable Army missilemen to identify a target while there is still time to pluck it out of the air. It will also enable the Army to build better missiles of its own.

The Barr group is the Plasma Physics Branch of the Directorate of Research and Development.

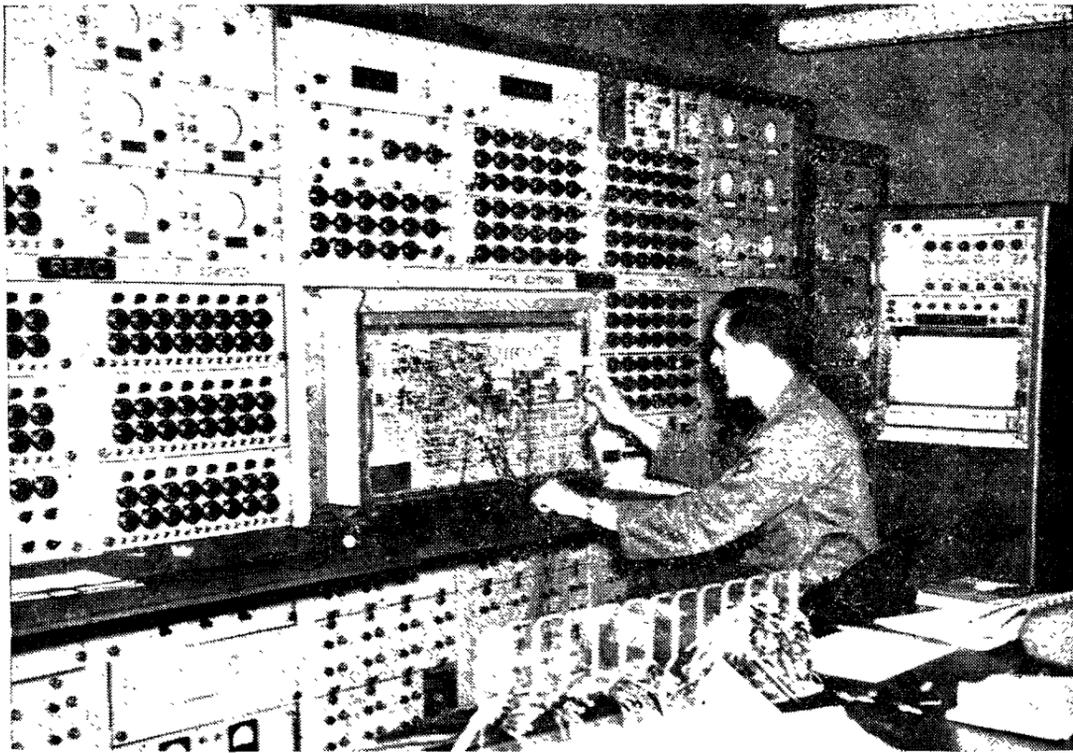
When the plasma jet goes into operation later this month its creators will be able to put 6-inch scale models of nose cones through 10 to 15 second tests—approximately the same time it takes an actual missile to penetrate our atmosphere.

The kind of thinking which resulted in this plasma jet represents years of training and keen scientific brainpower. Thirty-eight-year-old Dr. Barr—his official title is Chief of the Magnetohydrodynamics Branch—is a former assistant professor of physics at the University of Georgia and a consultant and research participant at the Atomic Energy Commission's Oak Ridge National Laboratories. A native of Chattanooga, Tenn., he took his BS degree from the University of Chattanooga and advanced degrees from Vanderbilt University.

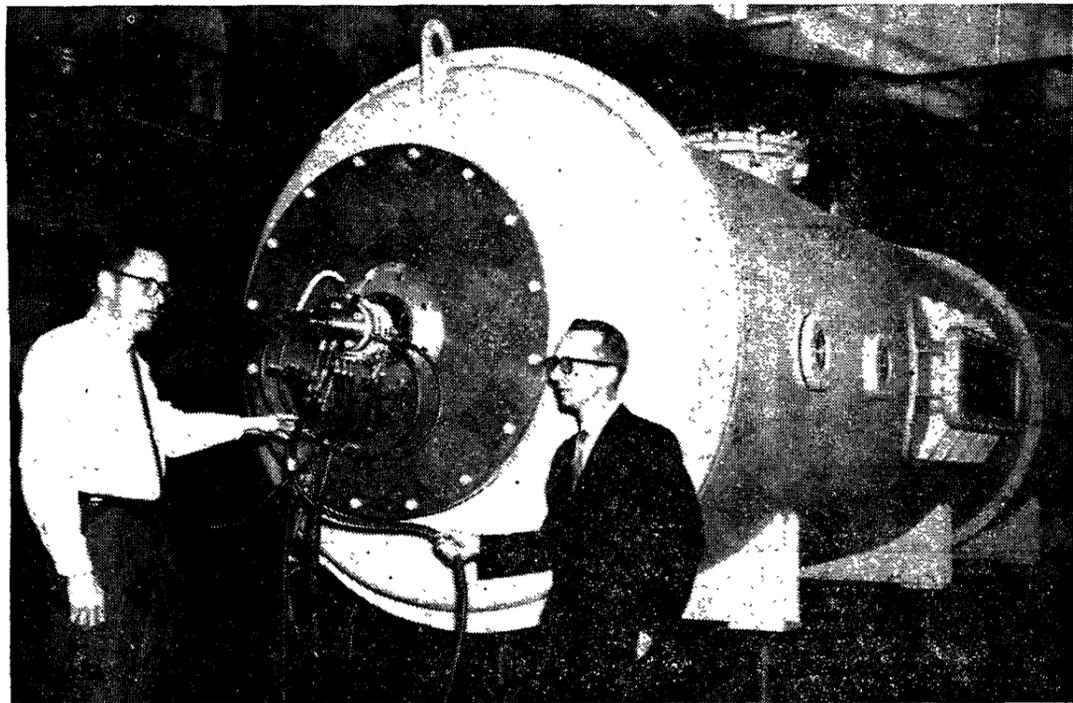
Dr. Barr has co-authored several technical papers on the physics of re-entry bodies with 29-year-old Charles Cason, a member of his group. Cason is another Chattanoogaan and took his degrees from the University of Alabama.

Dr. Loren Dickerson took his doctorate in chemical engineering from Massachusetts Institute of Technology and at 44 is the oldest member of the senior staff. He was born in Fritzgerald, Ga., and, before coming to Redstone, his scientific accomplishments included operating his own chemical company and heading up the Reynolds Metals Company Research Laboratory in Sheffield, Ala.

The third doctor on the staff is



**MASTER BRAIN**—The plasma jet operates for only 10 to 15 seconds. During this time the high speed computing equipment being set up by SP4 Dale Arpasi, a soldier-scientist, will direct it through a complex routine. During the test, recording equipment shown behind Arpasi will note the reactions of a missile nose cone model placed inside the plasma jet.



**MONSTER MAKERS**—The giant plasma jet dwarfs two of its designers. Dr. Thomas Barr (left) heads up a group of young space age scientists at Redstone Arsenal's Plasma Physics Laboratory who built the three-quarter million dollar machine. It is the only one of its kind. Dr. James Perkins (right) is one of the three Ph.D's in the group—which has an average age of 33. The thing which makes this plasma jet unique among all others is the computer-controlled nozzle shown between Dr. Barr and Dr. Perkins.



**YOUNG SCIENTISTS**—The machine in the background that looks vaguely like a tank car is the Army Missile Command's newest plasma jet—the only one of its kind. And the group of young scientists in front built the three-quarters of a million dollar space age device. They are the staff of the Plasma Physics Laboratory in the Directorate of R&D. The head of the lab is Dr. Thomas Barr, shown in the rear. The average age of the scientists is 33. They are, standing from left to right: Robert Mayo, Charles Cason, Billie Rogers, Walter Hales, Thomas Roberts, John Erlich, Herbert Ruge and Dr. James Perkins. Kneeling in front are student trainees Marshall Clements and Joseph Doctorchik.

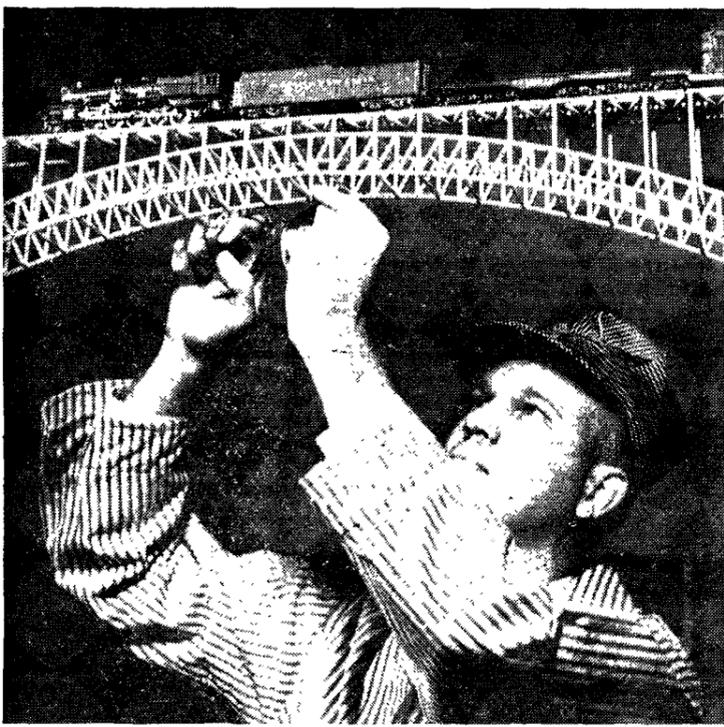
James F. Perkins, 38, who also took his PhD in mathematics and physics from Vanderbilt. As well as authoring scientific papers on theoretical atomic physics, the Hillsdale, Tenn., native specializes in experimental nuclear spectroscopy, fission product spectra and reactor shielding calculations. Before coming with the Army Mis-

sile Command he worked on nuclear projects for Convair and Lockheed aircraft companies. Other members of the staff include: John J. Ehrlich, 30, from Chicago, a chemical engineer and researcher in plasma physics; Walter L. Hales, 28, a mathematician and physicist from Boaz, Ala.; Thomas G. Roberts, 33, a former physics instructor at the University

of Georgia and a native of Fort Smith, Ark.; and Raymond Brandt, 27, who studied electrical engineering at the Newark (N. J.) College of Engineering. Staff member Robert Mayo developed a plasma jet nozzle while working at Langley Field, Va., which Dr. Barr says "will make the one here work successfully over a wide range of pressures."

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**MINOR ADJUSTMENT**—Levin C. Soule Jr., President of the Redstone Model Railroad Association, repairs a bridge over which runs Redstone Arsenal's smallest transportation system. The association meets on Tuesday and Friday evenings. Members are now constructing to scale, 30 miles of track complete with miniature scenery. Levin is a coordinator for the Field Artillery training programs in the Missile Division's Department of Individual Training, Ordnance Guided Missile School.

## Men Don't Need Excuse To Run Model Railroad

Someone once said that when a man buys his son an electric train, it's like a small boy giving his mother 10 pounds of jelly beans for her birthday.

One organized group of men at Redstone Arsenal makes no excuses for playing with trains. The Redstone Arsenal Model Railroad Association treats miniature railroading as a science and an art.

Although military men compose most of the club's membership, M/Sgt. George Ryan, Secretary, said that membership is open to anyone over 12 with a genuine interest. Ryan is Assistant Band-leader of the Redstone Arsenal 55th Army Marching Band.

ings the group meets in a building where is found Redstone Arsenal's smallest transportation system. Here, members are constructing what may be the most elaborate miniature railroad layout in the Southeast.

Each Tuesday and Friday even- Sp/4 Jerry Hoffer, Chairman of

Scenery, says that when it is completed, the layout will compare to a Hollywood set on a reduced scale. A "Tom Thumb" passenger, while traveling at a scaled 80 mph, will view mountains, lakes and tunnels over 30 miles of roadbed. Hoffer has a degree in electronic engineering from Purdue University and is doing research in the Guidance and Control Laboratory, Directorate of Research and Development, Army Missile Command.

Some memberships have resulted from curiosity. Capt. E. R. Chrulski, a dentist at the Redstone Dental Clinic, stated that he thought it might be amusing to drop in on a meeting to see grown men play with trains. "Before the meeting was over, I was at the throttle of a mountain freight and had joined the club," he said.

Proper cab procedure is a must. "Engineers" are graded on their skill. A demerit is given for a "jackrabbit start" or exceeding speed limits. While crossing a high bridge, 35 mph is strictly enforced, a standing ICC regulation for trains.

Although the steam locomotive has disappeared from the American scene, the "iron-horse" is still the favorite of the association's members. Exact replicas from almost every decade of railroading history are brought to meetings.

Occasionally, a streamlined diesel finds its way on the rails. This is considered a deviation however, from the principles of the brotherhood.

Historical fact is carefully observed. For example, CWO Dewitt Mytinger, treasurer, created the "General" in exacting detail. After much research and study of "The Great Locomotive Chase" of Civil War history, he discovered trains of that era were equipped with "drop pin couplers." His General has them. "This serves two purposes," Mytinger says. "It conforms to historical fact and pre-

vents the Civil War locomotive from ever pulling a string of streamlined cars." CWO Mytinger is Director of the Redstone Arsenal 55th Marching Band.

The Redstone organization is a chapter of the National Model Railroad Association which boasts 10,000 members throughout the United States. The national organization has declared Jan. 26-Feb. 3, National Model Railroad Week to stimulate further interest in the hobby.

The safety record of Redstone Arsenal's smallest railroad is a good one. No one has been reported killed or injured. The only property damage resulted from an engineer's carelessness — he backed the "Green Diamond" across the St. Louis waiting room floor.

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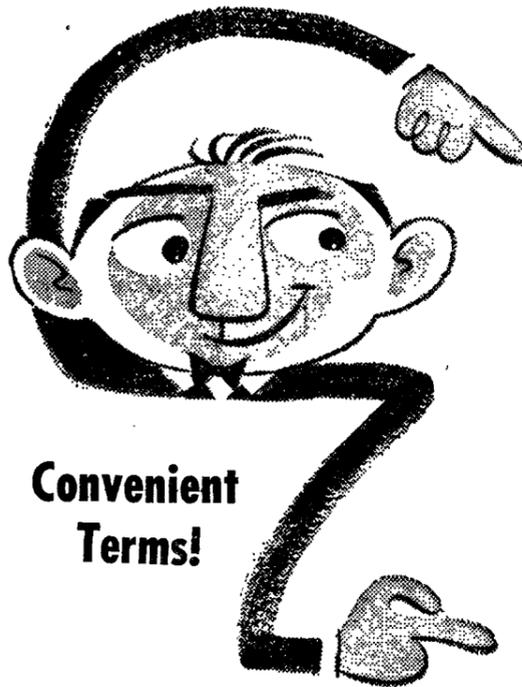
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# Sports By Lambert

By SFC Lambert

## Basketball

The Redstone All Stars downed powerful SPACO of Huntsville Saturday night 76-49.

The All Stars looked good in their win over SPACO, and it looks like they will make a good showing in the Third Army Tournament at Ft. Gordon come March.

Jerry Miller, a 5'10" guard, who played his basketball at Lafayette College before coming to Redstone, hit nine straight points and ended the first half with 19 points.

SPACO could never get any closer than 9 points of Redstone during the first half, with double point efforts from D. Auria (16 points) and Erwin with 12 points. Although SPACO has a slight height advantage, the All Stars were able to control both backboards, with big Joe Turner 6' 5" sweeping the boards and throwing in 10 points. Other scoring included Jerry Hudson, 10 points, Bob Woletz, 9, Jordan, 13, and Miller 19. These were the big guns for the All Stars.

Coach William Bock stated that with a few more games, the All Stars will be ready when tournament time rolls around. They have two games on tap this week at the Post Gymnasium, Bldg. 5663. Thursday, Jan. 24, they play the freshman team from Snead College and on Saturday, Jan. 26, they will play the Huntsville Swishers. Game time for both nights will be 7 p.m. Come out and support your team. The price of admission is 'good sportsmanship.'

### POST LEVEL BASKETBALL STANDINGS

Team	Won	Lost
Officers	11	2
291st MP	9	3
Co. A OGMS	7	5
Co. B OGMS	7	5
Hq UTC	5	7
Hq AMSC	5	7
Hq AMC	4	9
Hq STC	1	11

### TOP TEN SCORING

Name	Total Points
Hudson	189
Jordan	184
Gentry	153
Gray	127
Kilpatrick	120
Baker	116
Thomas	111
Turner	110
Miller	104
Neals	101

### POST LEVEL VOLLEYBALL STANDINGS

Team	Won	Lost
3d ETC No. 1	5	0
1st ETC	4	0
Hq AMSC	4	1
Co. A OGMS	2	3
3d ETC No. 2	1	3
Officers	1	4
Co. B OGMS	1	4
291st MP Co.	0	4
Hq OGMS	0	4

## Bowling

### SATURN BOOSTER LEAGUE A-DIVISION

Team	Won	Lost
Martin Co.	49	27
Brown Engineering	44½	31½
Hilding-Holmberg	43	33
Norris-Riddle Furn.	41½	34½
Redstone Mach & Tool	37½	38½
Tenn. Valley Oxygen	37	39
Arrowhead Prod.	35	41
Huntsville Trailer Ct.	32	44
Republic Aviation	30½	45½
Push Overs	30	46
200 Games: Kozlowicz	—	217;
May — 201; Graves — 200.		

### B-DIVISION

Team	Won	Lost
Redstone Fed.		
Credit Un.	46½	29½
Murphree Mortgage	45½	30½
Tri-Lanes	45½	30½
Lockheed	43	33
Stewart Mach.	42	34
Progressive Welders	36½	39½
Modern Mach.	36	40
Hayes-Designers	35	41
Hayes Top Seven	33½	42½
Hayes Excons	16½	59½

### OFFICERS MIXED DOUBLES

Team	Won	Lost
Bowl Weevils	92	61
D-Yanks	88	65
Bombers	85½	67½
Pin Droppers	84	69
D-Doms	77	76
Redstones	69½	83½
Hi Counts	59	94
Baby Splits	57	96

### RSA BANTAMS

Team	Won	Lost
Lucky Strikes	25	8
Jetsons	22	11
Wildcats	10	23
Strikeouts	9	24

### TROOP COMMAND EM

Team	Won	Lost
Raiders	43	17
Rats	43	17
Ohms	40½	19½
Curvals	38	22
S & E's	32	28
Jockeys	31½	28½

### RSA OFFICERS LEAGUE

Team	Won	Lost
Slowburners	47	25
Robes	41	31
Spoilers	41	31
Bandits	41	31
Alleycats	28	44
Medico No. 5	18	54

### OGMS OFFICERS

Team	Won	Lost
ADM	38	18
Bohunks	35	21
Researchers	32	24
OSTD	26½	29½
UTC Tiplers	19	33
Commoners	13½	38½

### THURSDAY MORNING LADIES

Team	Won	Lost
Off 'N' On	41	23
Hit 'N' Misses	34	30
Up 'N' Down	31	33
Misfits	22	42

### ARMY-AIR FORCE OFFICERS

Team	Won	Lost
Lucky Strikes	94	42
Kingpins	90	46
Pin Splitters	83	53
Raiders	81	55
Black Jacks	80	56
Jupiters	58	78
AF Juplos	32	104
Hopefuls	26	110

## SHOOTERS TO GET RSA Post Team "Roll-Off" Set For March 4-8

Supervisors have been asked to help build a rifle and pistol team at Redstone Arsenal by helping to arrange marksmen's workloads so that they will have an opportunity to shoot.

Maj. Gen. F. J. McMorro, Commanding General of the Army Missile Command, added a statement of support to the request of Col. T. W. Cooke, Commander of the Army Missile Support Command. It also applies to shooters from the Ordnance Guided Missile School who are members of the pistol and rifle teams. The Commandant, Col. William J. Macpherson, has endorsed the program to bring marksmanship trophies home to the Arsenal.

Col. Cooke said, "It is anticipated that the amount of duty time lost will be a minimum. The majority of practice drills and matches occur from Friday noon through Sunday."

He added that major matches would possibly require a week away from the job.

### EM MIXED

Team	Won	Lost
Kirby-McClure	45½	26½
Bennett-Hayes	43	29
Bell-Ryan	38	34
Cooley-Chervanik	35	37
Hartwell-Metcalf	35	37
Kreiger-Foster	34	38
Mourie-Louis	31	41
Jones-Maier	27½	44½

### OFFICERS WIVES LEAGUE

Team	Won	Lost
Money Mrs.	43	21
Jumpin Jacks	42	22
Gamblers	30½	33½
Hi-Fi's	34	30
Alley Cats	30	34
Team No. 8	29	35
EZ Rollers	25½	38½
Happy Bowlers	22	42

### JUNIORS

Team	Won	Lost
Esquires	23	9
Ghost Riders	20	12
Rambling Wrecks	19	13
Baby Splitters	16½	15½
Alleycats	15	17
Sweepers	14½	17½
Rebel Rousers	10	22
Alley Oops	10	22

sanctioned military league and be assigned to the Redstone Arsenal. Individuals must be active duty personnel. Civilians and retired personnel are not eligible. Personnel going off active duty before April 30 are not eligible.

Entry slips and information may be obtained at the Post Bowling Lanes.

The Third Army Bowling Tournament will be held at Fort Rucker, Ala., Apr. 30-May 4. It is necessary for all individuals entering Roll-off to obtain a release from their section indicating that they will be released for TDY should they be placed on the Post Team. The seven highest bowlers will represent Redstone Arsenal at the Third Army Tournament.

The sap of a tree does not always go down in the fall and rise in spring. Some trees have higher moisture content in the winter.

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**CHIEF ENGINEER'S CLASSY CAR**—While not as streamlined as the Army missiles he helps develop, this 1928 Buick provides stately transportation for Army Missile Command Chief Engineer Horace Lowers. Here Lowers rubs the dowager's snobbish nose as though consoling her about that sleek Jaguar next door. The "Jag" belongs to Lt. Col. George Chow of the Missile Command. Lowers, an old car buff, traded a 1929 Dodge for the Buick. He drove a 1919 "Model T" Ford while in col lege.

## Chief Engineer Fancies New Missiles, Old Cars

Army Missile Command Chief Engineer Horace Lowers contemplates missiles that fly faster than sound as he drives to work—in a 1928 Buick.

The Buick's liquid fuel engine will boost it to speeds "in excess of 55 miles per hour," grins missileman Lowers.

Hardly an ICBM, the Buick has covered only 58,000 miles in the past 38 years.

Most people trade their old car and "boot" for a newer machine. Not Lowers. He traded a 1929 Dodge and \$500 for his "new" Buick. He's had the car less than

three months. His principal worry right now is where to get three inside door handles for the huge black and green classic. Otherwise, it has all the original equipment from 21 inch tires to a carved wooden steering wheel.

Lowers should know his cars; he has a masters degree in automotive engineering from the Chrysler Institute of Engineering "My interest in old cars grew to some extent out of my post-college experience as an engineer for Chrysler," he says.

And people who think such mod-

ern automobile 'extras' as power brakes and automatic transmissions cut their gas mileage to the bone will get no sympathy from Lowers. He gets 10 miles to the gallon. Part of the low gas mileage is due, however, to the fact that the car's spark advance system is not working properly, the chief engineer says.

Lowers is a member of the Huntsville Antique Automobile Club and is its first treasurer. He says the club is attempting to schedule the first regional meeting of the Antique Automobile Club of America in Huntsville.

Lowers, who also has two Amer-

ican cars, drove a 1919 "Model T" Ford while he was in college in the early 40's.

Although the Buick Motor Company had 25 years experience in building cars when it put out the Silver Jubilee model in 1928, the car still has a few shortcomings by today's standards. It has enough power and is geared low enough to climb a wall—but you'd have to have a full tank of gas to do it. Lowers says he has "found out the hard way" that you can run out of gas with two gallons in

the tank on an uphill pull because the car doesn't have a fuel pump. It works on a vacuum.

Lowers says he doesn't know what the market value of the car might be. But the Alabama motor tax bureau which takes the pragmatic approach and bases values on age charges Lowers less than a dollar a year.

Cigar bands were first used in Cuba to protect the delicate fingers of aristocratic Spanish ladies who secretly took up smoking.



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# SOCIAL <sup>and</sup> CLUB EVENTS

## MRS. SZEREMI, DON FRENCH WIN AT PARTY BRIDGE

At Monday night Party Bridge last week, Don French and Mrs. Robert Szeremi scored high for the men and women respectively. The Monday night Group meets at the Squirrel Hill Officers Club at 7:30 p.m. Mrs. F. E. Moore, who scored second for the women, also handles reservations. The second high man was Lt. Robert Frazier.

### TO STAGE WEDDING

The West Huntsville P-TA is sponsoring a womanless wedding skit and a magic show at 8 p.m. Feb. 1 at the West Huntsville Elementary School. Johnny Evans will be narrator. Principals in the skit include some of the best known citizens in the city including a judge, the police chief, the sheriff, and a City councilman. Hooky Fann, the Magic Man, will follow the skit.

## Director Of Research Institute Will Speak

Dr. Rudolph Hermann, Director of the Research Institute, will be the keynote speaker at the annual dinner meeting of the Armed Forces Communications and Electronics Association at 6:30 p.m. tomorrow. The meeting is scheduled in the Hawk Room at the Squirrel Hill Officers Club. Dr. Hermann received his Ph.D. from the Institute of Technology at Aachen. He came to the United States in 1945 as a technical consultant to the Air Force, later taught at the University of Minnesota and at the same time the Rosemount Aeronautical Laboratories' hypersonic facilities. He accepted his position at the Research Institute in January, 1962.

## Entertainment Section

### PFC ART KALIN

When you read this article there will be less than 30 days left before the Post-Wide Talent Contest "takes the boards" at the Service Club. So that means the time left to enter your act is now starting to get short. If you have a talent pertaining to the entertainment field, again I urge you to get on the bandwagon and get yourself entered. As I stated in last week's article nervousness and "butterflies" are not good reasons to hold you back from entering. This is a reaction that everyone and anyone who has walked on a stage or a platform to sing, dance, act, tell jokes, or give a speech, has experienced. Anyone who has had this experi-



**NEW OFFICERS**—Saturday night the NCO Auxiliary installed 1963 officers at a dinner meeting attended by husbands and friends. Officers and executive board members include (left to right): Mrs. Floyd Singleton, Mrs. Joseph Corimer, executive board; Mrs. William F. Lowery, secretary; Mrs. John Sloan, president; Mrs. Louis Di Michele, vice president; Mrs. Thomas Costello, treasurer; and Mrs. Carl English, executive board.

## Sodality Plans To Discuss Dr. Tom Dooley's Book

The Catholic Women's Sodality meets tomorrow morning at the Redstone Chapel social room immediately after the 9 a.m. Mass. Dr. Tom Dooley's book and life will be a part of the discussion which will also include a newly-translated Catholic Children's Bible. The Rocket Nursery will be available at the expense of the Sodality, but the reservations deadline is today.

ence will tell you it was actually part of the fun, a big part I might add.

There are, I'm sure, a few people who feel that they are too professional for a contest of this nature. Well, to this group I say, any real professional will jump at the chance to display his talent. If he doesn't then he's not as much a pro as he thinks he is.

So let's all turn out and make this show a success. The only way this will be possible is with your help. To enter call 876-4531 or 876-5492, or stop by the Service Club in person.

The Theatre Workshop had its initial meeting this past Sunday afternoon. We will meet again this Sunday at 2:00 p.m. If you would like to join this group, please don't hesitate to attend. See you next week.

**SELECTED FOR GENERAL**  
Col. Charles W. Eifler, formerly Commandant of the Ordnance Guided Missile School and now commanding officer at Frankford Arsenal, Penna., has been selected for promotion to brigadier general according to an announcement received here last week.

Col. Eifler was assigned at Redstone Arsenal in July, 1959, and left here in 1962 to take command of Frankford.

## Auxiliary Officers Installed

The Redstone Arsenal NCO Wives Auxiliary installed new officers at a dinner meeting Saturday night at the NCO Open Mess. Guests included husbands of the members. Mrs. John Sloan was installed as 1963 president with Mrs. Louis Di Michele as her vice president. The new secretary is Mrs. William F. Lowery. Mrs. Thomas Costello is the treasurer. The executive board members include Mrs. Joseph Corimer, Mrs. Floyd Singleton and Mrs. Carl English. Outgoing officers are Mrs. Merle Mountz, Mrs. Ivy Messick, Mrs. Arthur Ellis and Mrs. James Walden. The installation theme was carried out in decorating the table and club room. The outgoing officers were presented gifts of silver holloware engraved with the office the recipient held—and the year. Following dinner, the members attended the NCO Club dance.

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**INTERNATIONAL NIGHT SET**—Service club staff members and Rotarians plan International student night at the Redstone Arsenal Service Club Feb. 8. The students from International House at Jacksonville College will present a program following a barbecue supper at the Service Club. Planners, left to right are: Miss Molly Patterson, Service Club Director; Miss Brenda Hanson, Recreation Director; Pickens Gates, Chairman of the Rotary Club Planning Committee; Robert Burns Harris, member of the Planning Committee, and Capt. Michael P. Gately, foreign liaison officer at the Ordnance Guided Missile School. The Service Club staff is inviting all enlisted men to attend, and has emphasized a special invitation to foreign students stationed here.

**At the Service Club**  
By Brenda Hanson

At every turn we see the growing importance of recreation as a fundamental element in the life of the GIS of this Arsenal. The vast host of GIS who play, who travel, who participate in sports, who find expression in dramatic spectacles, enjoy dancing and good music, it is you for whom we plan our programs. We try to make your social life and recreation increasingly interesting, and try to eliminate any

aspect of boredom. As we venture into the second month of 1963, we have kept this idea in mind. This month holds four of the spotlighted programs of the year. You don't want to miss out on any of the programs. Take a sneak preview into Betty's little red book. On the 8th, we have planned a night known as the "International Student Night." With the aid of the Huntsville Rotary Club, Gibsons Bar-b-Cue, and the Jacksonville College International House, we have a very exciting evening for you. At 5 p.m., a Bar-b-Cue supper will be served. At 7 p.m.,

the International House from Jacksonville College will present a program. We extend an invitation to you to come join us for the Bar-b-Cue supper and the program. We extend a special invitation to the foreign students.

Later in the month other special events include, "A Night At Harolds Club," "Post Wide Talent Contest," and a "Sweetheart Semi-Formal Dance." Keep an eye on this column and I will keep you posted to the date and time of these special events.

This week's program looks exciting. The first feature is the Dance Class. These classes are now being taught two nights a week instead of one. They are held on both Tuesday and Wednesday nights beginning at 7 p.m. If you will make haste and join these classes now, you will be all set for the Sweetheart Semi-Formal Dance. What better could a cupid doll point the arrow at than a good dancer. Don't wait! Start Tuesday night at 7 p.m.

Thursday, January 31, we have a classical hour for the people who enjoy classical music. This begins at 6 p.m. The main event of the evening is a table tennis contest at 8 p.m. If you enjoy ping-pong this is a chance to display your skill. A prize will be given to the winner.

Friday, February 1, TV Features will be viewed at 6 p.m. Then at 7:30 p.m. card games will be played.

Smoker Poker is on the schedule for Saturday at 8 p.m. We furnish the cigars, cards, and chips. All that's lacking is players. So be sure to join us for the fun to be had by playing "Smoker Poker."

Sunday at 9 a.m., coffee and donuts will be served from the Service Club kitchen. For the late risers who miss breakfast, a big donut and cup of coffee is just the thing to get Sunday off to a bearable start. Those who attended our dance when Tony Pastor played will be glad to know he will have a return engagement tonight at 7 p.m. There will be a small admission fee of \$1.00 per person. All military personnel and their guests are invited.

For further dances, if any single girl, 17 years or older, would like to join the Junior Hostess Group, we would be happy to have you. You can contact any of the staff members for further information at 876-4531.

Monday, Feb. 4 at 8:15 p.m., designates the hour for the weekly game night. Come out and join us for these games in the main lounge.

Tuesday, Feb. 4, at 7 p.m., dance instructions will begin. These classes are taught by David Izen. We invite you to come and participate in these classes.

**Miscellaneous**

On Saturday, Jan. 19, a happy group gathered here at the Service Club for a buffet. For all of you appreciative gourmets, that food was prepared by Molly Patterson with the aid of myself in the finishing touches.

On Sunday night, we had a record dance that really shook the walls. We had a total of fifty-two Junior Hostesses which is a record breaker for the Service Club. Hope you girls continue to attend our dances.

Aloha! See ye at the Service Club.

—Brenda

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Week of February 12th  
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R.S.V.P.



SECOND TIME AROUND—Brothers, SFC Richard (center) and SFC Gordon Turner, have taken the soldier's oath for the second time at Redstone Arsenal, both with twenty years of active duty behind them. Facing them is the Military Personnel Officer, Capt. Doyle L. Woodward. The scene is the reenlistment office.

## At Redstone Turner Boys Feed Troops Re-Up Twice

Two Turner brothers have done it again. They reenlisted in the Army at Redstone Arsenal for the second time.

Their careers have been similar all the way through. Both are concerned with feeding the troops; both have become sergeant first class E-7s; and both will probably "go for thirty."

SFC Gordon Turner, noncommissioned officer in charge of ration breakdown has been at the Ar-

senal since January, 1953, the longest termed duty assignment of his twenty-year career.

His brother, SFC Richard Turner, was also here in 1953, but his Redstone assignment was interrupted by one in Korea from January, 1961, through February, 1962. He is a Post Food Service supervisor.

Both men were mess stewards on previous assignments. They are the sons of Jim Turner, now living at 3503 Mariposa Road, Huntsville, but the boys grew up at Cerro Gordo, Tenn.

Richard is married to the former Miss Jo Mae Lynch. They have a 5-year-old son, David.

Gordon is married to the former Miss Muzzett Sanders whose parents live at Jackson, Tenn. The couple has three children, James,

12; Mary Jo, 11, and Dianne, 4.

Gordon started his military career with the Army Air Corps in 1942. He is four years older than Richard who entered the Army in October, 1943.

Both men have the Good Conduct Medal with multiple loops. Richard also has been awarded the Army Commendation Medal with oak leaf cluster. The Medal was awarded during his first assignment at Redstone Arsenal, the oak leaf cluster was added in Korea.

In Los Angeles, as in no other United States city, life centers on the automobile as a means of transport. Three-fourths of all Angelenos drive to work. They think nothing of motoring 10 miles to dinner, 20 miles to a motion picture or 50 miles to the home of friends.

## Pershing Maintenance Video Taped At Ft. Sill

Mobile video tape vans of the Army Ordnance Guided Missile School are in Ft. Sill, Okla., this week to record new sequences on the Pershing missile system for inclusion in maintenance courses on the new weapon.

Lt. Glenn A. Giere, chief of the Missile School's television branch, is heading the group of techni-

cians who are to make new tapes of procedures used at the Army Artillery and Missile School by Pershing units.

The tapes are to be incorporated into the two-hour televised course that the Missile School transmits regularly to the Senior Officers Preventive Maintenance Course at the Armor School at Ft. Knox, Ky.

The video crews will spend five days shooting the new Pershing maintenance lessons.

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Hardtop, auto., radio, heater, like new. (3 to choose from).

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"6", auto., power steering, radio and heater, 26,000 actual miles. Like new.

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### 1960 CORVAIR "700" 4-Door

Auto., radio and heater. Like new, red with gray interior. Priced to sell at

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**TECHNICAL PARLEY**—John Hurgeton, Jr., (center), a senior at Decatur High School, talks about lasers with Tom Crow (left) and Dr. James A. McLaren, both laser experts with the Electromagnetic Laboratory, Directorate of Research and Development. Hurgeton holds a two-inch ruby laser rod with which he plans to build a laser for science fairs this spring. Crow and McLaren show two of the rods they used in their research. After talking with the experts, the Decatur school senior said, "This project may be a bit more complicated and expensive than I'd planned for, but I'm confident I can make it work." After graduation this spring, Hurgeton plans to apply for admission to the Massachusetts Institute of Technology.

## STATE'S SERVICE SCHOOLS VALUED AT \$300 MILLION

Six Army and Air Force schools in Alabama have an installed plant value of \$319,000,000, employ 17,900 people, train 41,500 students per year and boast a combined payroll of \$128,000,000 a year.

These statistics were presented yesterday, by Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School, in a talk before the Birmingham Kiwanis Club.

The figures cover the operations of the Missile School, the Air University at Montgomery, the pilot school at Craig Air Force base in Selma, the Women's Army Corps Center and School and the Army Chemical Corps School at Ft. McClellan, and the Army Aviation Center and School at Ft.

## Program For Cost Reduction Studied

A team of Defense Department experts visited the Army Missile Command last week to make a study of the Administration's Cost Reduction Program.

The two-day visit was one of a series being made under the direction of the Assistant Secretary of Defense for Installations and Logistics to military installations of each of the services.

Charles J. Brzezinski and Donald R. Mitchell came here for the specific purpose of reviewing engineering change procedures involving the Hawk and Pershing programs.

While here they were briefed by a number of Hawk and Pershing Project Office officials. Their visit was coordinated by the Value Analysis Office of the Procurement Directorate.

The Defense Department representatives came here from Martin-Orlando and the Raytheon plant at Andover, Mass. A number of engineering changes were selected during these visits for further study at Redstone.

Rucker.

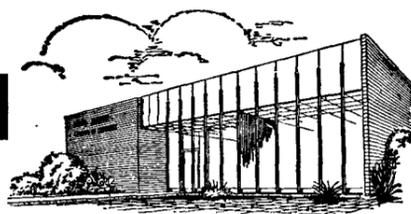
Macpherson was introduced to the gathering of 200 Birmingham business men by Maj. Gen. Stanhope B. Mason (ret.), former commander of the IV Army Corps. He spoke to some 200 businessmen at a luncheon in the Tutwiler Hotel.

Most Alabamians do not realize

the value and the scope of the military training conducted in the state by the six service schools, Macpherson declared.

He urged the Birmingham Kiwanians to visit the schools and asked for assistance in entertaining several thousand foreign students who come to the six schools each year.

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## Graduates Hear Cost Of Failure

One improperly fastened access door caused a missile to burn up when launched, and one pair of crossed wires in the input switch of a radar computer caused the failure of another missile.

These examples of the cost of carelessness were cited by Maj. Leo K. Huber in an address to 34 graduates of the Army Ordnance Guided Missile School last Friday.

Maj. Huber is a graduate of the U. S. Military Academy and the University of Texas and is now chief of testing and field operations in the Nike-Zeus Project Office at the Army Missile Command.

Urging the graduates to constantly polish their proficiency, Maj. Huber pointed toward steadily increasing responsibilities for missile maintenance technicians.

"This will make the technician's job more difficult and important," Maj. Huber declared.

Maj. Frank S. Bowman Jr., assistant director of individual training at OGMS, was master of ceremonies at the exercise in the Post Theater.

Honor graduates were Pfc. Grant H. Seale in Nike Track Radar; Pfc. Robert P. Kirkendoll in Hawk Pulse Acquisition Radar & Battery Control; Pfc. Roger N. Bailey in Ballistic Missile Rocket Motors & Structures; and Pvt. Edward R. Konecki in Corporal Ground Handling Equipment.

## Maj. White Named Training Director

Maj. Rudolph D. White, chief of the Air Defense Missile Division of the department of training research and development has been appointed director of that department to fill the vacancy of Lt. Col. Raymond Hansotte, now attending Omaha University, according to Col. William J. Macpherson, commandant, Army Ordnance Guided Missile School.

A former Army Air Corps officer, Maj. White is a graduate of the Command and General Staff College at Ft. Leavenworth, Kan.

Prior to his assignment at the college, he served as Commanding Officer of the 4th Ord. Co., U. S. Army Europe.

He arrived at the Ordnance Guided Missile School in July, 1961, and was promoted to major on December 27, 1961.

He is also a graduate of the Officers Associate Advanced Course at Aberdeen Proving Ground and has served as Operations Officer, Guided Missile Staff Officer and Commanding Officer at the Air Defense School at Ft. Bliss, Texas.

He attended the University of Southern Illinois at Carbondale until entering the Army Air Corps.

Maj. White wears the Army Occupation Ribbon, the American Theater Ribbon (Pacific), the Army Commendation Medal and the Air Medal.

He and his wife, Louise, reside at 416 Hughes Drive, Redstone Arsenal.

## Mrs. Warren Heads Team Making County Survey Of Personnel Policies

Mrs. Minerva S. Warren of the Army Missile Support Command Civilian Personnel Office will head a team surveying job classification and wage administration of employes of community agencies in Huntsville.

The survey is sponsored by the newly formed Personnel Policy Committee of the Madison Coun-

ty Council of Community Organizations. The committee chairman is Stuart H. Jones. He announced that results and recommendations will be used to help the community develop uniform personnel policies and procedures.

The task force appointed by Luther F. Adams, president of the Society for Personnel Administration, is composed of members of the organization, including Charles E. Motley, Marshall Space Flight Center, Robert F. Shanks, Rohm and Haas, Jack Underwood, Brown Engineering and Edward F. Bozee, Fred J. Green, J. G. Green, and Gerald Y. Cortright of the Army Missile Support Command.

In 1916 St. Viator (Ind.) defeated Lane College (Chicago) in one of football's highest scoring games, 205-0. Leo Schlick paced the victors by scoring 12 touchdowns for a game-scoring record.

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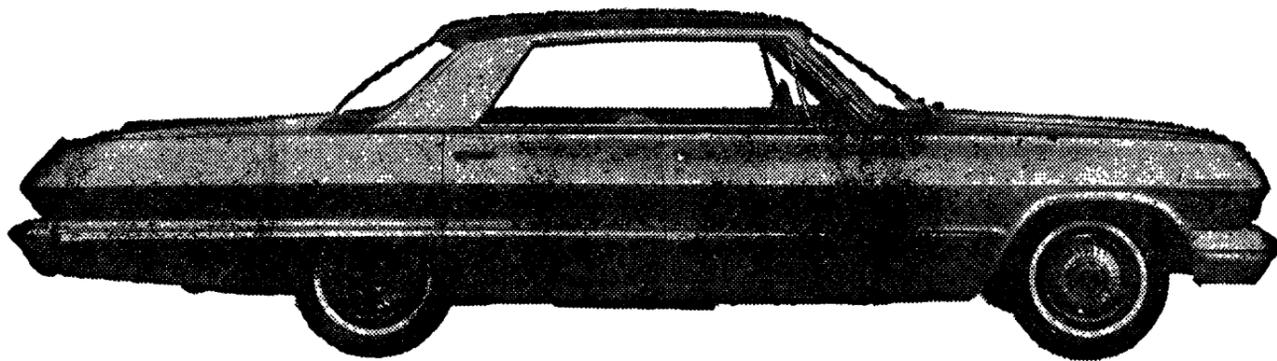
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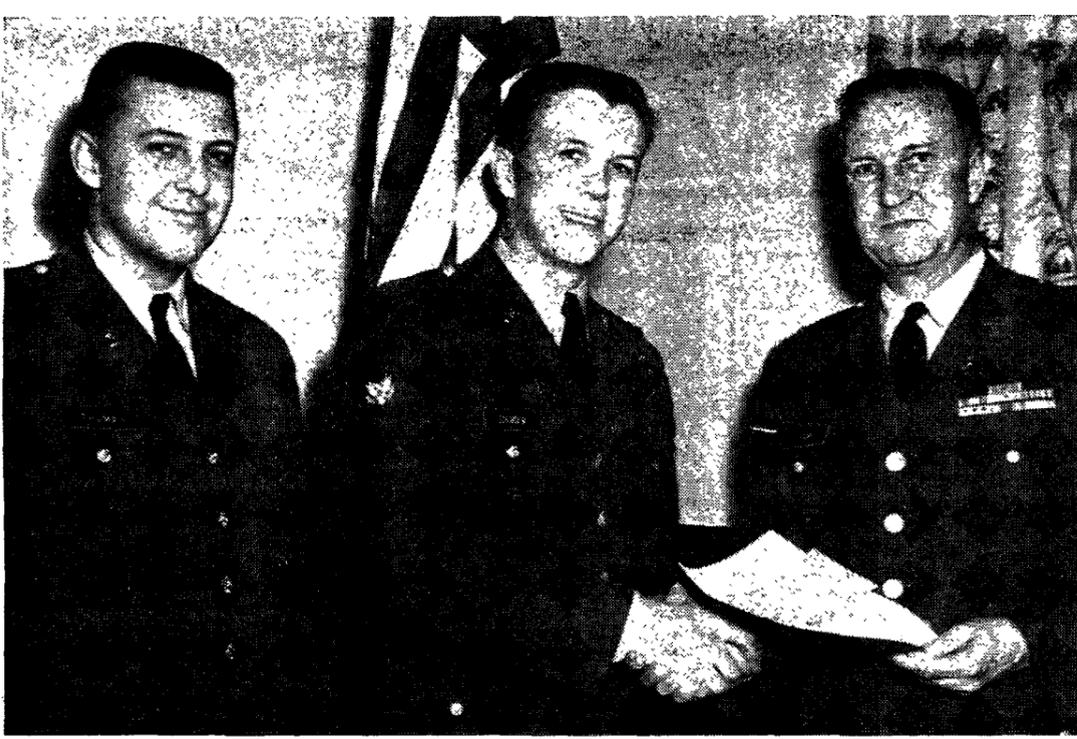


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**HAPPY DAY**—SP4 William J. Georgen (center) accepts the congratulations of Col. T. W. Cooke after he was named Post Soldier of the Month. At left is his Company Commander from the 116th Ordnance Detachment, Unit Training Center, Capt. Joel Thomas. SP4 Georgen, an electronics repairman for the Sergeant missile, is a deep water commercial fisherman in civilian life. His home is on the Pacific at Port Orford, Ore. He entered the Army in September, 1961, took basic training at Fort Ord, Calif., and arrived at the Arsenal in January, 1962.

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**Maj. Gen. Welling Is  
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Engineering Chief**

Maj. Gen. Alvin C. Welling has been named to succeed Brig. Gen. H. A. Morris as South Atlantic Division Engineer for the Army Corps of Engineers.

He is scheduled to take up the reins at the Atlanta headquarters in February. His command covers six district offices in South Carolina, North Carolina, Georgia, Alabama and Florida.

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Page 14 The Redstone Rocket — January 30, 1963

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**AY'S KINDERGARTEN NURSERY SCHOOL** — State licensed for children 2½ — 6 yrs. old. Mon.-Fri., 6:30 a.m., 5:30 p.m. Qualified staff. Hot meals. Ph. 534-4203, 536-9051. 1tp

**FOR SALE** — Country lot, 160' frontage on highway, 210' deep, located at Lacey's Spring on Hwy. 36. \$950.00, 24 mos. to pay. interest, no down payment, act deed, furnished, near churches, post office, school, phone 881-3108. 1tc

**FOR SALE—ECONOMY STATION WAGONS** — 1960 Borgward, low miles, new rubber, \$750.00. 1958 Opel, \$650.00. Call 876-2531 weekdays, 534-7110 evenings and Sundays. tfc

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

**SALE** — Solid brass antique bed, phone 877-4050. 1tc

**FOR SALE** — 3 bedroom half brick, 1 and ½ baths, large lot, large workshop, \$2500 equity, transferred, make offer, 2915 Bayless Drive. 1tc

**CASH—MOVE IN!** Beautiful bedroom brick in Hartselle, ready to move in! \$100 cash in hand, and payments will be lower than rent. How can you lose? Make an appointment to see it today, call W. E. SMITH, Hartselle, 773-7463. tfc

**ALTERATIONS** — If you have unworn clothes because they need altered or re-styled, call me for reliable and experienced work. MRS. ELKINS, 536-8026, S.W. Section. 2-13p

**FOR SALE** — Civil War officer's sword, dated 1884; striking mantel clock; deep gold lined walnut picture frames, several sizes. JOSEPHINE FRANCIS, Hartselle Rt. 4, Highway 36 East; one mile from city limits. 1tc

**HOME LOTS** — In Trummel Addition in Hartselle. Spacious lots, some with trees, bargain prices. 773-7463. WM. E. SMITH. tfc

**FOR RENT** — Room for one or two gentlemen. Lavatory in room. Three blocks from downtown. Phone 534-9817. 1tp

**ROOMS FOR RENT** — Single and double for men with good habits, completely and newly decorated, economically priced. Central Y. M. C. A. Dial 534-6452. tfc

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

**FURNISHED** — Modern 2 bedroom house. Also housekeeping units and motel rooms. Fishing pier and dock. Apply Nolan Motel, Guntersville. 582-3178. 2-20c

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

**GUNTERSVILLE** — Warrenton Shores section, 3 bedroom, extra large lot, G'ville Lke. Access, FHA, \$250.00 down. Water front lots, \$2500 to \$4500, financed. ED NEELY, REAL ESTATE BROKER, 703 Broad, Guntersville, Ala., Phone 582-3914; night 582-3230. 2-6c

**FOR SALE BY OWNER** — Two spacious family homes in Decatur, walk to public and parochial schools. At 651 Sherman St., four bedrooms, three baths, gas furnace, radiator heat, carpeted. At 633 Jackson St., four bedrooms, three baths, central air conditioning, new gas furnace, radiator heat. Phone EL 5-0405, Decatur. tfc

**BILL'S ALTERATION SHOP**, 202 Eustis St. — Alterations of all kinds for men, ladies and children. Reweaving, phone 536-0811. Open 8 to 5:30—'til 7:30 on Thursdays. Just 1 door off courthouse Square S. E. 2-13c

**FOR SALE** — 42 gallon, 220 V, hot water heater, round model. Price \$25. Call 881-3187." 1tp

**WANTED TO BUY** clean used cars "We can use yours." Call us. Robinson Auto Sales. 810 Madison St. Phone 539-8551. tffc

**FOR SALE** — New nice 3 bedroom house, 1½ ceramic tile baths, completely air conditioned, access lot to lake. Minimum FHA down payments, in one of Guntersville's nicest sections. Price \$16,250.00. Will build homes in Arab and Guntersville and finance up to 97% FHA and 100% G.I. Cornelius Real Estate & Insurance Co. Marshall County's leading mortgage broker. 521 N Broad Street, Guntersville, Ala. Phone JU 2-3027. tfc

**FIT, FASHION** and fine savings at BUSANN'S, downtown Huntsville. Truly your family shoe store. tfc

**MODERN HEALTH Club Services** — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy sun lamp swimming pool. Graduate masseur in charge. Phone 534-2444 tfc

**Montgomery Barber Shop**  
Located in  
Holiday Plaza Shopping Center  
Corner Bob Wallace & Jordan Lane  
—4 Barbers to Serve You—  
IVAN PEPPER  
LAYMAN SHARP  
MACY MONTGOMERY  
AARON MONTGOMERY  
OPEN 10 A.M. to 9 P.M.

**NOTICE!**  
Special Federal Entrance Exam Coaching Class Will Start Feb. 4th. Call, Write or Visit For Reservations.

**North Alabama College of Commerce**  
No. Ala. College of Commerce Bldg.  
528 MADISON ST.  
Phone 536-2611 or 539-0429

**FOR SALE** — 1878 Army Springfield rifle, 45-70, in good firing condition. 3 sword\$, 1-Civil War, 1863, Antique Gibson tenor banjo. Antique rocking chair, which reclines. flat irons, dinner bell with post. Wardrobe—ideal for converting into gun case. good finish, large chandelier, and a real good fiddle with new bow. Phone 773-6032, Hartselle. tffc

**INCOME TAX RETURNS** — Prepared by L. P. A. Get ahead of the rush. Phone 536-9161 for appointment. 5:30 p.m. to 9:00 p.m. tfc

**COMPACT** — Vacuum Cleaner and Polisher — See the cleaner that revolutionized the industry, featherweight. Get the most cleaning power available. As new and modern as our space age. Shown by appointment only. For free home demonstration. Call 539-8913. tfc

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Military - Any Age or Rank - Terms  
**Branner Insurance Agency**  
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**REMODELING CLEARANCE SALE . . .**  
— Many Items Reduced —  
**20% to 40%**  
NEW STORE HOURS: — MON.-FRI., 11 A.M. TO 8 P.M. SATURDAY — 9 A.M. - 6 P.M.  
**MAC'S HOBBY HOUSE**  
503 GOVERNOR'S DRIVE

**FOR RENT TO GENTLEMEN** — 1 and 2 room efficiency apartments, private bath, private entrance, off street parking, downtown. Apply between 10 a.m. to 4 p.m. 106 N. Lincoln Ave. Phone 534-1451. tfc

**ON GUNTERSVILLE LAKE**—For Rent Boat House, 2 housekeeping rooms with private bath for couple or gentlemen. House-trailer space available Feb. 1st, also cabin site for sale. Call 536-3113 or 534-1451. Write P. O. Box 473, Huntsville. tfc

**FOR SALE** — Residential houses and lake property in or around Guntersville, Alabama. Phone 582-4197, Word Real Estate. 3-6p

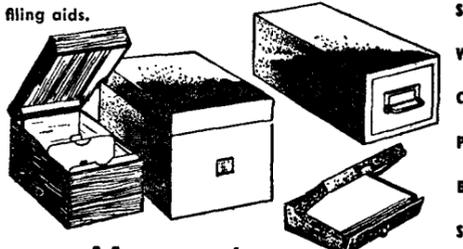
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(With This Ad)  
Reg. \$6.50 Value)  
Fast Service - Expert Wheel Mechanic  
All Work Fully Guaranteed  
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Across From Butler High  
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With or without VA or FHA houses. 100% wooded lots of this caliber are indeed a rarity for Huntsville. All of our houses feature 2 full ceramic tiled baths, 3 or 4 bedrooms, built-in fabulous Frigidaire Flair glass front stove & oven. Garbage disposal & dishwasher. Located near University of Alabama complex, Arsenal, Brown Engineering. IBM. A perfect environment in which to live and raise your family. Sherwood Park, 11th Addition. For information dial 539-8481 days or 534-6303 nights.

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**Clean Sweep CLEARANCE OF USED CARS**

'60 Ford Fairlane "500". 4-dr., V8, auto., radio, heater, nice clean car. <b>\$1395.00</b>	1958 Olds Super "88" 4-dr., hardtop, power steering & brakes. Local car. Beautiful color. <b>\$1195.00</b>
1958 Plymouth 4-Dr. V8, stick, radio, heater. New tires. <b>\$875.00</b>	1959 Opel Sedan Clean and ready to go. <b>\$595.00</b>
1960 Plymouth Belvedere 2-dr. Hardtop. Clean. Low mileage. Extra nice. <b>\$1395.00</b>	'60 Chevrolet 4-Dr. 6 cyl., straight shift, local car. <b>\$1295.00</b>

**ROBINSON AUTO SALES**  
733 Madison St. A AND D  
Pho. 536-9161  
810 Madison St.  
Phone 539-8551

**Births at Post Hospital**

Steven Wayne Hargrave, 5 lbs., 1½ ozs., Jan. 17, son of S/Sgt. and Mrs. Thomas P. Hargrave.  
 Richard Winchester Bauer, 8 lbs., 5 ozs., Jan. 18, son of Capt. and Mrs. Hugh A. Bauer.  
 Michael Andrew Smith, 6 lbs., 6 ozs., Jan. 20, son of SP4 and Mrs. William H. Smith.  
 Robyn Anne Salter, 5lbs., 8 ozs.,

**Thiokol Hopes To Reach 6 Million Safe Manhours**

Thiokol Chemical Corporation's Alpha Division — Huntsville Plant this month reached a total of 2,000,000 manhours without a lost time accident.  
 Four times during its fourteen-

year history, the Huntsville Pl has reached the 2,000,000 manhour safety record. Highest achieved by the Plant was 2,800,000.

Plant Manager John H. Goodloe, in congratulating employees for the record, set the Plant's goal as 6,000,000 manhours in 1963. This can be achieved if the record is not interrupted the year.

**FLANK RECEIVES SPECIAL AWARD**

Leonard Flank, Assistant Director of the Army Missile Patent Center, Army Missile Support Command, has received a special award for his outstanding contributions to professional periodicals.

Col. Thomas W. Cooke, AMSC Commander, presented the award to Mr. Flank, citing him for his achievements in the patent field.

One of the articles for which Flank was praised was published in a national magazine, "American Engineer," in April, 1962. Titled "A New Look at Patent Rights," the article drew favorable comment from patent attorneys across the nation.

Flank has also made presentations before local professional engineering societies on the patent laws of the United States. A publisher of contributions from Flank lauded him for what he called "the world's first encyclopedia in the

patent field."

The AMSC award cited Flank for "exemplary performance of duty as Assistant Director of the Patent Advisory Division, USA-MS, from May, 1962, to November, 1962."

Combining graduate degrees in engineering and law from the University of Illinois and DePaul University, respectively, Flank has 16 years' experience in the field of patents and proprietary rights.

A Huntsville resident, Flank and his wife are active in community little theatre groups. He also serves as vice-president of the local Explorer Chapter of the Federal Bar Assn.



LT. COL. HANSOTTE

**COL. HANSOTTE WITH BOOTSTRAP**

Lt. Col. Raymond Hansotte, Director, Department Training Research and Development at the Army Ordnance Guided Missile School left last week to attend the spring semester at the University of Omaha.

He is one of several officers selected from the entire Army to attend the University under the Army's Education Program known as "Operation Bootstrap."

He has been attending the Huntsville Center, University of Alabama for the past four years. He is a graduate of the Command & General Staff College, Fort Leavenworth, Kansas, the Ordnance Officer Associate Advance Course, Aberdeen Proving Grounds, Maryland, and the Ordnance Staff Officer's Guided Missile and Special Weapons Course, Redstone Arsenal, Alabama.

Hansotte is a native of Butler, Pennsylvania and served as Ordnance Advisor, Chinese Armored Force on Formosa before coming to the Missile School in 1958.

He entered the Army in 1941 and served in the China-Burma-India Theater during World War II.

**SAFETY OFFICIALS WARN OF CARBON MONOXIDE POISON**

Safety officials at Redstone Arsenal are initiating a campaign against the dangers of carbon monoxide poisoning, as installation safety projects for 1963 get under way.

Motorists are cautioned against this deadly gas in a memorandum released by D. K. Womack, Safety Officer, Army Missile Support Command. Womack points out: "Carbon monoxide is a deadly gas, odorless and tasteless, killing quickly and without warning if breathed in large quantity."

"Even a minute concentration may induce drowsiness and fatal inattention on crowded streets and highways. The primary contributing factor in many serious accidents has been found to be leaky exhaust systems on motor vehicles."

"Fresh air is the one sure safeguard against the killer."

The safety officer lists eight rules for motorists, designed to combat the deadly effects of carbon monoxide.

1. Before starting your automobile engine, open doors wide.
2. Never crawl under your car while the engine is running.
3. Keep the engine in good condition, with combustion as complete as possible, through frequent inspection, adjustment and repair.
4. Make sure that all parts of manifold, exhaust pipe and muffler have no leaks.
5. Be doubly careful to prevent gas leaks through manifold car heaters.
6. Never drive with all the windows of your car closed.
7. Sleepiness while driving may indicate the presence of carbon monoxide. Stop at once, get out and walk about in the open air; then drive with windows open.
8. Avoid following other cars too closely; their exhaust contains carbon monoxide which may easily drift into your car.

**Movie Schedule**

WEDNESDAY, January 30  
 "Five Gates to Hell" (M)  
 THURSDAY-FRIDAY, January 31 and February 1  
 "The Music Man" (F) First Movie: 6:45 p.m.  
 SATURDAY, February 2  
 "Mothra" (F)  
 SUNDAY-MONDAY, February 3  
 "Two for the Seesaw" (M)  
 TUESDAY, February 5  
 "Mystery Submarine" (F)  
 Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

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for HER . . .



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