

# Missile Secrets Guarded By Electronic Eyes

Missile secrets at Redstone Arsenal are guarded by sentries that don't carry guns, walk a post or even wear a uniform. They just yell for help with an electronic voice. In fact, they are



**WATCHFUL** — Backed by two of the cabinets containing intrusion detection equipment is Elmer Hargis, the Physical Security Officer for the Provost Marshal.

so alert that they are apt to yell if a mouse scampers across the floor or wind blows through an open window.

The sentries are electronic intrusion detectors that listen for sounds, watch for motion and squawk if a door is opened or a window raised when it isn't supposed to be.

Before the end of the year, about 80 per cent of the areas which contain the Army Missile Command's classified documents and missile hardware will be protected by the devices which are the electronic age's answer to the old-fashioned clanging burglar alarm.

An intruder may never know that he has been detected. At least, he may not know it for two or three minutes. That's about the time it takes for alerted armed and uniformed security police to have him surrounded.

Security is an important matter at the Army Missile Command. Most of the Army's missiles are developed here and work is done on projects that are so sensitive that the outside mention of their real name is forbidden. Code names are used instead.

To protect its documents and classified hardware from compromise, the Missile Command resorts to elaborate precautions.

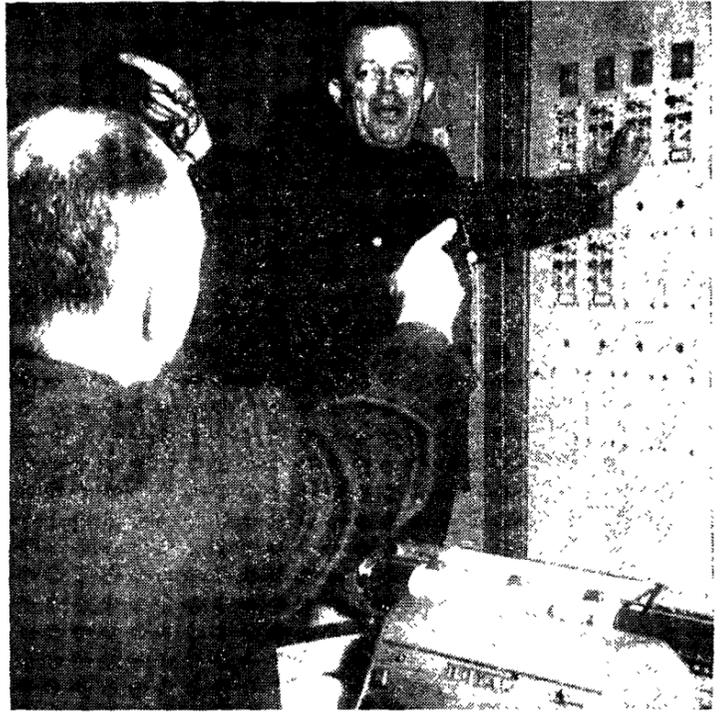
The intrusion detection systems are a good example of these precautions. They do not replace human guards, but, instead, supplement them. This allows the security police, as the guards are called, to be instantly mobile to converge on a violated area.

The sound detection systems can detect a man walking across a floor or opening a desk drawer. The electro-mechanical switches installed on doors, windows and other openings send a tell-tale signal when one of them is moved.

But the most sensitive of all are the motion detectors. This uncanny device is so touchy that its senses have to be purposely dulled to prevent it from sending "nuisance alarms." This is done by setting the sensitivity of the device so that normal air currents in the building will not cause a false alarm.

The ones at the Missile Command are adjusted so that if an intruder even breathes deeply while he is in the beam, he is caught. It has sent guards rushing to a building only to find the alarm was triggered by wind blowing through an open window.

The devices bounce inaudible sound waves between a loud speaker like transmitter and a receiver. (See SECRETS on Page 3)



**ALARM PANEL**—When the electronic detection devices spot an intruder they flash a warning to a small room in the security police headquarters. Here, R. H. Latham, (foreground) a Physical Security Specialist, points out a simple panel that shows the area of the violation. Glenn H. Bradberry, Intrusion Detection System operator, is speaking to a radio operator that can direct roving security policemen to the site of the violation in minutes.

**Gate 3  
Closed  
Indefinitely**

## The Redstone Rocket

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VOL. XI; NO. 44

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 20, 1963

# Col. Eifler To Speak At School

Col. Charles W. Eifler, commanding officer of Frankford Arsenal in Philadelphia, will visit Redstone Arsenal briefly this week to address an international class of 106 students from the U. S., Turkey and Germany who will receive their diplomas on Friday from the Army Ordnance Guided Missile School. The ceremony will be held at 10 a.m. in the Post Theater.

Col. Eifler, who was recently nominated for promotion to brigadier general and is soon to become Deputy Commander for Land Combat Systems at the Army Missile Command here, is scheduled to arrive by private automobile late Thursday. He will be billeted in the BOQ at the Officers Club.

Col. William J. Macpherson, OGMS commandant, said no formal social affairs are being held during Col. Eifler's brief visit. However, key officers of the Missile Command and OGMS will attend a lunch in his honor on Friday at the Officers Club.

## Who Knows Where He Is

How well do you know Redstone Arsenal?

This week the Rocket is commencing a series of feature pictures that show familiar places that you've probably seen many times.

Just to make things difficult the photographer was turned loose to use any trick he could pull from his hat.

The answer to where the picture was taken will be found on page 16.

## Gen. Lodoen Will Address Officers

The director of Army affairs for the Reserve Officers Association, Maj. Gen. George O. N. Lodoen, will be the principal speaker at an Ordnance Guided Missile School Officers Call here on Friday afternoon.

Gen. Lodoen will discuss the Association's legislative program, progress being made with the proposed new pay scale, dual compensation restrictions of the

(See LODOEN on Page 3)



MAJ. GEN. LODOEN

The Army Monday approved selection of Martin-Marietta Corp. as development contractor for the Sprint missile, planned as a major component of the Army's Nike X anti-missile missile system.

Martin-Marietta will join the Army's Nike X development team as a subcontractor to the Bell Telephone Laboratories which have responsibilities for system design and development. The Western Electric Company is the system prime contractor.

Amount of the initial subcontract, which is being negotiated between Bell Telephone Laboratories and Martin-Marietta will be approximately \$5,000,000.

Martin-Marietta will do the Sprint work at its Orlando, Fla. plant.

Selection of the Sprint subcontractor as the one best meeting the needs of the Army, resulted after extensive review by Bell Telephone Laboratories and the Army's Nike Zeus project office at Redstone Arsenal.

Martin-Marietta was one of three prospective Sprint subcontractors chosen last fall, who performed paid 120 day studies. These contractors were selected after a thorough review of more than 40 defense contractors.

Douglas Aircraft Company, Martin-Marietta, and North American Aviation submitted the results of their studies on Feb. 1 for detailed evaluation by Bell Telephone Laboratories and the Nike Zeus project office.

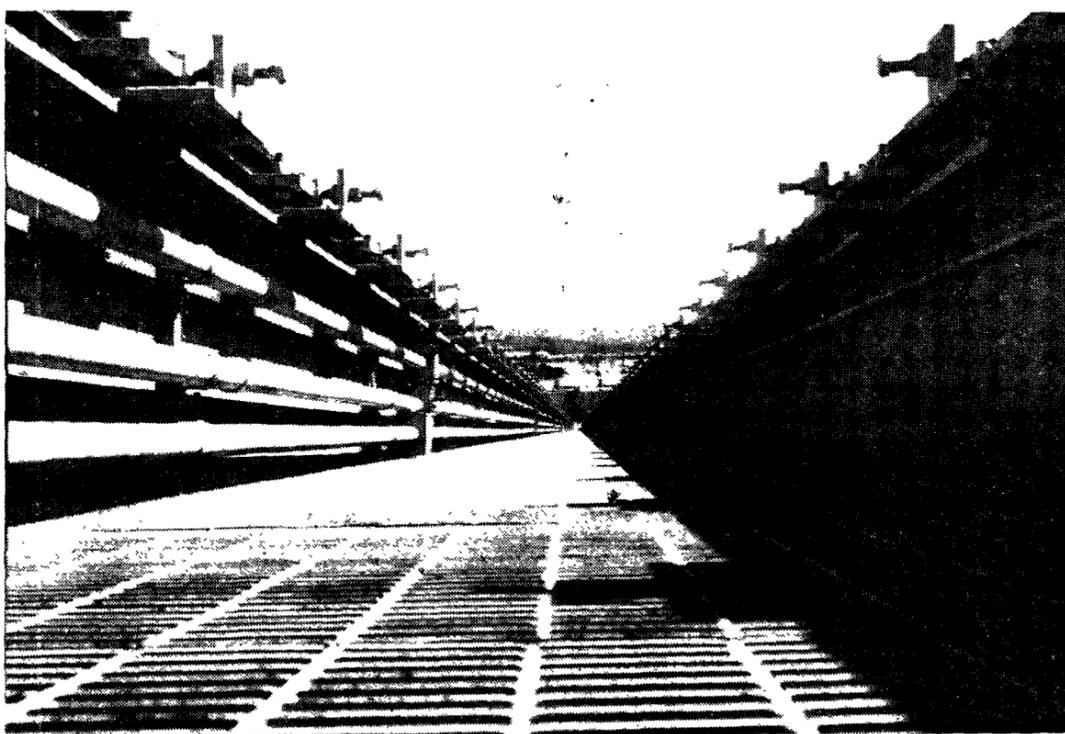
Development of the Sprint missile will be a part of the redirected Nike Zeus program first announced. (See SPRINT on Page 3)

## BIG PICTURE CREW SHOOTS PERSHING

An Army motion picture filming crew from The Big Picture series arrived at Redstone Arsenal early this week for the shooting of scenes emphasizing the mobility of the Pershing ballistic missile system.

The movies, to be released later, will show Pershing's mobility in the Chinook (YHC-1B) helicopter. A Chinook helicopter was flown from the Army Aviation Center at Fort Rucker, Ala., for the scenes.

The filming, scheduled for completion this week, is under the technical supervision of the Pershing Project Office. Col. O. M. Hirsch is Pershing Project Manager at the Army Missile Command.



**WHERE ARE YOU?**—The chances are that everybody on the arsenal has seen this object but not many have looked at it from this perspective. If it was in operation you would never stand where this picture was taken. To give you an idea of how long the object is, there is a man standing on a balcony on the building at the far end. CLUE: The photographer had to practically climb a mountain to get this picture.

# 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

Every succeeding scientific discovery makes greater nonsense of old-time conceptions of sovereignty.  
—Sir Anthony Eden

## Highest Award

One hundred years ago, on the 25th of March 1863, the first presentations of our Nation's highest military award, the Medal of Honor, were made to Army personnel. President Lincoln had signed the congressional resolution establishing the Medal of Honor in 1862.

The criteria which are in effect today provide that, "The President may award and present in the name of Congress a medal of honor to a person who, while a member of the Army and in action involving actual conflict with an enemy, distinguishes himself conspicuously by gallantry and intrepidity at the risk of his life above and beyond the call of duty."

The Medal of Honor, United States Army, has been awarded 2,199 times during the past one hundred years. It is a token of national esteem, and it is the ultimate symbol of our national gratitude. Every component of our ONE ARMY team—the active Army, the Army National Guard, and the Army Reserve—is represented in this select group. The soldiers who have received the Medal were representative of America—strong, hardy, vigorous, courageous and inspired. They came from every segment of our society; they held every rank from private to general. Their deeds have played a major role in keeping America free.

The Centennial of the Medal of Honor, United States Army, gives our ONE ARMY a unique opportunity to rededicate itself to service to the Nation in the causes of peace and security.

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

## Red Cross Month

March is Red Cross Month and the perennial threat of disaster from Spring thaws along the river banks is again faced by Red Cross teams across the Nation but particularly along streams fed by the Northeastern snows.

These teams are spreading help from North to South as the waters continue to rise.

Locally, the Red Cross has offered succor to citizens whose existence was threatened by flooding rivers in North Alabama and who were financially wiped out.

Should homes on the Arsenal be affected by the rising waters, the Red Cross Field Director on Post would immediately go into action.



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## LT. GEN. WATSON TO ADDRESS AUSA

The new commanding general of the Third Army, Lt. Gen. Albert Watson II, will make his first official visit to Redstone Arsenal next week. Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School, announced today.

He is to be guest of honor of local AUSA officials at a social hour and dinner at the Huntsville Country Club and will address the AUSA meeting in the auditorium of the City Utilities building at 8 p.m. All AUSA members are invited to the meeting.

Gen. Watson, who assumed command of the seven-state Army area last month, will visit Friday afternoon, March 28, and also address a general meeting of the Tennessee Valley Chapter of the Association of the U.S. Army that evening.

Gen. Watson and his aide will arrive at the Redstone Arsenal Air Field at 1:30 p.m. and will spend three hours in the OGMS area.

Gen. Watson assumed command of the Third Army at its Atlanta headquarters last month after serving as commandant of the Army's sector in Berlin for the past two years.

## Holland Is AFGE National H'ville Representative

The American Federation of Government Employees now has a national representative in the Huntsville area.

He is James E. Holland whose appointment became effective Mar. 28, after he resigned his position at the Army Missile Support Command. He has been at the Arsenal since March, 1961, and is a charter member in the local AFGE Chapter 1858.

Holland has served in a number of capacities working his way up from shop steward to vice president of the State Council of Lodges in Alabama.

Until his appointment as national representative, he represented the Support Command as a vice president of the local chapter.

This position is now filled by Raymond B. Swaim, also employed in the Support Command.

Headquarters  
U. S. ARMY MISSILE COMMAND  
Redstone Arsenal, Alabama

In Reply  
Refer to AMSMI-X

SUBJECT: National Health Agencies and Federal Service  
Joint Crusade Fund Drive

TO: All Personnel

- The subject drive, authorized by Presidential Executive Order Number 10927, is the only drive other than the United Givers Fund drive conducted Arsenal wide. This drive combines the two authorized fund raising campaigns, the National Health Agencies and the Federal Service Joint Crusade.
- One of the bright chapters in the story of mankind's ceaseless struggle for betterment is the continued, steady improvement in our health. Through medical and scientific research we have gained increasing knowledge of ways to ease suffering and prolong life. In the United States much of this lifesaving work is carried on by the voluntary National Health Agencies. The Health Agencies' support of research, education and community services is made possible by our voluntary support of their once a year campaign now under way at Redstone. A portion of your contribution is returned to directly benefit the local community.
- Never before was there a time when voluntary giving could be more significant as a barometer for all the world to see. Voluntary giving expresses the determination of Americans living in a free economy to help the distressed, the needy, and the oppressed of other lands. Within this framework of need and willingness to share, we are participating in the annual Federal Service Joint Crusade campaign for the American-Korean Foundation, CARE, and the Radio Free Europe Fund.
- The success of our drive depends upon the participation of each of us. I am confident that you will respond with the enthusiastic support which has characterized your participation during past drives.

HOWARD P. PERSONS, JR.  
Brigadier General, USA  
Commanding

## Officer Candidate Need Is Increasing

The need for enlisted personnel who qualified for Officer Candidate School is increasing, according to a recent message received at the Ordnance Missile School from the Commanding General, Lt. Gen. Albert B. Watson II, Third U. S. Army.

"It is desired that commanders at all echelons become familiar with the accelerated OCS program," the message stated, and "that potential applicants be made aware of the advantages of the program."

The need is most critical in the area of Infantry and Artillery classes, and the message urged that applications be processed as expeditiously as possible and forwarded to the final approving authority for selection or non-selection as soon as possible to avoid delay in scheduling these classes.

Members will vote on this.  
Holland lives on Route 2, Huntsville.

March 23, 1901 — Aguinaldo, leader of the Philippine insurgents, was captured by an American patrol commanded by Brig. Gen. Frederick Funston.

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**SPRINT**

(Continued From Page 1)

nounced in January by Secretary of Defense Robert S. McNamara who indicated that the advanced version of the Nike Zeus, called Nike X, would incorporate the Sprint, advanced radars and components of the current Zeus system.

Col. I. O. Drewry, Nike Zeus project manager who is also directing Army efforts on the Nike X, said that Sprint will complement, not replace, the Nike Zeus missile. The Army said the Sprint would be shorter and lighter than the 48-foot-long Nike Zeus missile and would use a solid fuel rocket propulsion system.

A major feature of the Sprint design is the emphasis being placed on extreme acceleration characteristics enabling the Sprint to reach intercept altitude in less time than the current Zeus missile, which with its 450,000 pound thrust first stage booster, is already the fastest air defense missile in the Free World.

The Army said initial testing of the Sprint missile would be carried

**Brig. Gen. Evans Inspects, Tours**

The deputy chief of the Continental Army Command's department of individual training, Brig. Gen. Benjamin F. Evans Jr., of Ft. Monroe, Va., is visiting the Army Ordnance Guided Missile School today for an orientation and inspection tour.

It is Gen. Evans' first visit to OGMS since the school became a part of the Continental Army school system last July.

Common block and programmed training aids and other individual training activities at OGMS will be inspected by Gen. Evans.

He was honored last evening by Col. William J. Macpherson and the OGMS staff and faculty at a dinner at the Officers Club.

out at White Sands Missile Range, N.M., with subsequent firings planned at Kwajalein Island in the mid-Pacific.

**Dr. Hersh Makes Award To Honor Graduate At OGMS**

Dr. Charles M. Hersh, Executive assistant for education at the Ordnance Guided Missile School awarded two Association of the U. S. Army outstanding student plaques to U. S. Army Warrant Officers Friday.

Receiving the awards were CWO James A. Haas, with a 96.1 average, and CWO George V. Carver, with a 96.6, both from the ballistic missile maintenance supervisor course at OGMS. CWO Carver was also named Honor Graduate in the course.

Two U. S. Marine Corps Privates First Class were named as honor graduates in the Hawk internal guidance and launcher electronic repair and the Hawk mechanical repair courses. They were PFC Jay A. Siegel and PFC Ronald L. Spillman.

Other honor graduates were PFC Lanny H. Corriher, Nike acquisition radar and computer repair course, and Pvt. James D. Peace, ballistic missile helper course.

Guest speaker for the graduation was Maj. Robert D. Funke, special assistant for deployment, Systems Support Division, Sergeant Project Office, Army Missile Command.

**ELECTRA IS SCHEDULED**

Eastern Airlines has announced a non-stop flight between Huntsville and Orlando, Fla., on a super Electra beginning Apr. 28.

According to the announcement, the flight would leave Orlando daily except Saturday. The plane would arrive at Huntsville at 5:05 p.m. and leave for Florida at 5:45 p.m. giving the 4:05 flight passengers from Chicago an opportunity to catch the Florida flight.

The Airline plans another flight from Huntsville to Birmingham, Atlanta, Spartanburg-Greenville and New York.

**SECRETS**

(Continued From Page 1)

ceiver, covering a broad area. Anything that moves in the path of the waves and disturbs them sets it off.

When an intrusion detector "hits the panic button" it is heard in a small windowless room at security police headquarters. Two walls of the room are lined with panels of lights, switches and meters. When a violation is committed a gong rings, a light flashes showing the area and a meter shows approximately what part of the area was disturbed.

The security policeman on duty speaks to a radio operator, giving the location. The radio operator, with his finger on every roving patrol car, flashes the information and in minutes they converge on the spot.

Chances are that the intruder is a janitor late in going about his duties or a forgetful employee who has returned to pick

**LODOEN**

(Continued From Page 1)

Economy Act, the Bolte Board promotion bill and USAR budgetary matters.

The meeting will be held at 2:30 p.m. in the Post Theater. It was arranged by Col. William J. Macpherson, OGMS commandant, in cooperation with Lt. Col. Paschal E. Redding of the Huntsville Chapter of the ROA.

The local group is sponsoring a social hour and dinner for Gen. Lodoen at the RSA Officers Club on Friday evening. Tickets may be obtained from Lt. Col. Redding (876-8611); Maj. John W. Kirby (876-2622); Cmdr. William Howard (876-2071); and Maj. Joseph Hinesley (536-8341).

up something from his desk.

On this security-conscious Arsenal, however, the police may be courteous—but they don't laugh.

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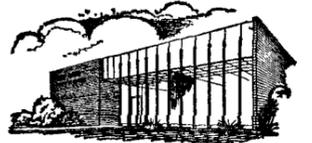
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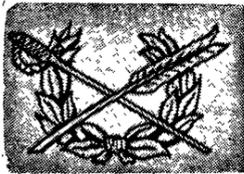
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# The Judge Advocate Advises



## ENFORCEMENT OF SUPPORT

Recent changes in the method of payment of the Quarters Allowance and Class Q Allotment provide that Quarters Allowance will be paid directly to enlisted men in the grade of E-4 with over four years service and all higher grades, rather than sent directly from Indianapolis to the dependents.

This change has raised numerous questions involving the enforcement of support for dependents.

The Uniform Reciprocal Enforcement of Support Act has been enacted, with some modifications, in all fifty states. Its purpose is to improve the means of enforcing duties of support across state borders and to create uniformity in the states' laws concerning enforcement of these duties. These problems have been solved by providing for the initiation of legal proceedings in one state, which proceedings are then transferred and processed to conclusion in another state.

### Runaway Pappy

As amended, the model of the Uniform Reciprocal Enforcement of Support Act, commonly known as the "Runaway Pappy Act," provides for civil and criminal enforcement and interstate registration of support orders.

Under the Act's provisions, the governor may demand from another state's governor the surrender of any person found in the other state who is charged in the first state with the crime of failing to provide for the support of someone in the first state, even though the person was not in the first state when the crime was committed.

The governor of the first state may also surrender on demand by the governor of any other state any person found in the first state who is charged in the other state with the crime of failing to provide for the support of a person in the other state.

### Responding State

The Act also provides means whereby support proceedings may be expeditiously brought in a state to which a person with a duty of support has moved called the "responding state" in the Act. The state from which a person with a duty of support has moved is called the "initiating state" in the Act, if a proceeding under the Act is commenced within the state.

After the person owing support leaves the state of those to whom he owes support, a petition may be filed for those to whom support is owed in a court in the initiating state.

If that court finds that the petition states facts from which it may be determined that the person owes a duty of support and that a court of the responding state may obtain jurisdiction of the person or his property, the court is to so certify and send copies of the petition and the court's certificate to a court in the responding state, or to the information agency in the responding state, which agency will forward the papers to the proper court in the responding state.

### Dockets The Case

When the court of the responding state receives the papers from

the court of the initiating state, the responding state's court shall docket the cause, notify the prosecuting attorney (whatever his title), set a time and place for a hearing, and try to obtain jurisdiction over the person who allegedly owes support.

The responding state's court is

to inform the initiating state's court if the responding state's court fails to obtain jurisdiction. If the responding state's court obtains jurisdiction, the prosecuting attorney has the duty diligently to prosecute the case in the responding state's court.

### Support Order Forwarded

If the responding state's court finds a duty of support, it may order the person to furnish the support and subject the person's property to the order. Copies of all support orders are to be sent to the initiating state's court.

When the responding state's court receives payment from the person owing support, it sends the

payment on to the initiating state's court, which then applies the payment to the persons to whom the support is owed.

The Act provides for exchange among the states of lists of the addresses of the courts having jurisdiction under the Act.

If the initiating state fears the person sought may flee from the responding state, the initiating state may include in its petition a request that the responding state's court arrest the person in order to retain jurisdiction over him.

### Hearings to Confirm

If the duty of support is based on a support order of another state, the person to whom support

is owed may register the order with the clerk of a proper court in a second state having jurisdiction over the person owing support.

In that second state the proper court will then hold hearings and confirm or refuse to confirm the order. The support order as confirmed will then have the same effect as if it had been originally made in the second state.

This Act therefore establishes effective means which can be used to force fathers and husbands to provide support for their dependents or, in many cases, face a jail sentence for contempt of court.

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# Sports By Lambert

By SFC Lambert

## Bowling

The 1963 Post Bowling "Roll Off" was completed March 8 and the top seven bowlers and personnel to represent Redstone at the Third United States Army Tournament are as follows:

Major Paul A. Pencola (OIC) AMICOM

Sfc William Buschuk (Team captain) Co B Sch Trp Cmd OGMS.

WO John A. Namath, Hq & Hq STC OGMS.

Sfc William Belt, Co B Sch Trp Cmd OGMS.

Sfc John Taormina, Co B Sch Trp Cmd OGMS

Sfc Russel T. Voisine, Hq & Hq Det USAMC.

Sfc Warren E. Hamer, Hq & Hq STC OGMS.

It is of interest to note that OGMS will be well represented gaining five berths on the seven man team.

### RSA BOWLING LEAGUES STANDINGS

Team	Won	Lost
Slowburners	70	30
Robes	59	41
Bandits	56	44
Spoilers	49	51
Alley Cats	35	65
Medico No. 5	31	69

### SCHOOL TROOP COMMAND

Team	Won	Lost
Deuces	79	25
Electrons	77	27
Aces	69½	34½
Strikes	49	55
Ten Pins	43	61
Spares	37	67

\*Final standing League Champions are the Deuces.

### TROOP COMMAND EM

Team	Won	Lost
Raiders	61	27
Ohms	59½	29½
S&E	52	36
Rats	51	37
Curvuls	48	40
Jockeys	43½	44½

### THURSDAY MORNING LADIES

Team	Won	Lost
Hit 'N' Misses	52½	35½
Off 'N' On	52	36
Up 'N' Down	37	51
Misfits	34½	53½

### OGMS OFFICERS

Team	Won	Lost
ADM	52	32
Researchers	49	35
OSTD	46½	37½
Bohunks	43	41
UTC Tiplers	34	50
Commoners	27½	56½

### ARMY-AIR FORCE OFFICERS

Team	Won	Lost
King Pins	124	60
Lucky Strikes	122	62
Black Jacks	116	68
Pin Splitters	109	75
Raiders	99	85
Justifiers	80	104
AF Juplos	50	134
Hopefuls	36	148

### OFFICERS WIVES

Team	Won	Lost
Merry Mrs.	54	30
Jumpin Jacks	52	32
Alley Cats	44	40
Hi Fi's	44	40
Team No. 8	42	42
Gamblers	36½	47½
EZ Rollers	34½	49½
Happy Bowlers	29	55

### JUNIOR LEAGUE

Team	Won	Lost
Esquires	39	21
Ghost Riders	35	25
Rambling Wrecks	33	27
Alley Cats	30	30
Sweepers	28	32
Alley Oops	26½	33½
Rebel Rousers	25	35
Baby Splits	22½	37½

### ARMY-AIR FORCE OFFICERS LEAGUE

Team	Won	Lost
King Pins	140	60
Lucky Strikes	130	70
Black Jacks	130	70
Pin Splitters	111	89
Raiders	107	93
Jupiters	86	114
AF Juplos	56	144
Hopefuls	40	160

200 Games: Green. J. — 209; Lau — 204; Reier — 201; Bird-sall — 201.

## Basketball

### BASKETBALL STANDINGS

Team	Won	Lost
Co A OGMS	22	6
Officers	21	6
Co B OGMS	20	8
291st MP Co	18	10
Hq AMSC	10	18
Hq AMC	8	20
Hq UTC	8	20
Hq STC	4	23

### FINAL TOP SCORING

Name	Points
Hudson	356
Jordan	355
Baker	352
Boyd	327
Kilpatrick	295
Comstock	294
Gentry	281
Neals	271
Turner	246
Gray	242

### RSA BANTAMS

Team	Won	Lost
Lucky Strikes	36	18
Jetsons	27	27
Wildcats	26	28
Strike-Outs	19	35



SCOUTS DONATE THROUGH ARSENAL DRIVE—Cub Scout Scot Campbell, third from left, presents a CARE donation to Redstone Arsenal fund drive keyman Max D. West who also serves as Cubmaster of Scout Pack 71. Members of Den 4, Pack 71, raised the donation as a citizenship project. Others looking on, left to right, are Mrs. Harold W. Penick, Den Mother, Herman Taylor, Ted Jewell, Harold Penick Jr., David Dashnaw and Greg Penick.

## OGMS SOCCER TEAM PLAYS IN CHICAGO

The German Air Force soccer team of the Army Ordnance Guided Missile School flew to Chicago last week-end and played a game against the semi-professional Fichte-Sams Club, losing by a narrow 4-3 score.

The game was played at Win-mac Stadium before several thousand spectators. German Lt. Heinz Rahns served as playing coach of the OGMS students.

Sgt. Siegfried Schroeder scored two of the OGMS goals, while Sgt. Hubert Geilen registered the other marker.

The Chicago team, made up of players of German-American descent, were hosts at a reception and dinner for the local missile students at the Deutsches Eck Restaurant.

Lt. Rahns reported that the team has been invited to participate in an international soccer tournament to be held at Milwaukee, Wis., in August.

Next Sunday afternoon the Germans will go to Cullman for a match with the recently organized soccer club of St. Bernard's College there.

March 5, 1770 — British soldiers climaxed a long period of friction by firing on a jeering crowd in Boston, wounding eight and killing five. This pre-Revolutionary incident—the Boston Massacre—stirred up patriotic fervor throughout the colonies to oppose British injustice.

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## Col. Jesse Fishback Talks To Engineers

SAVANNAH, Ga. — The chief of the Army Missile Command's Installations and Services Office told members of the Savannah, Ga., Chapter of the Society of American Military Engineers that some \$42 million will be spent in fiscal year 1964 for construction and expansion of Army facilities at Redstone Arsenal and at the George C. Marshall Space Flight Center of the National Aeronautics and Space Administration.

Col. Jesse L. Fishback spoke to the engineers' group here Tues-

day. Fishback said that while most of the money is being spent on construction of NASA facilities, the Army Corps of Engineers is supervising construction of most of the unique test facilities.

Fishback reviewed and showed color slides to the engineer group of construction projects for the Army at Redstone Arsenal, either completed or started during the past two fiscal years, that amounted to over \$20 million dollars. The construction costs did not include costs for instrumentation in many of the new facilities or planned for facilities not yet completed.

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Loan Department ..... 876-5883

### BUILDING 4488 BRANCH OFFICE

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12:30 P.M. to 3:30 P.M. MONDAY Thru FRIDAY

Phone ..... 876-4879

### BUILDING 5681 BRANCH OFFICE

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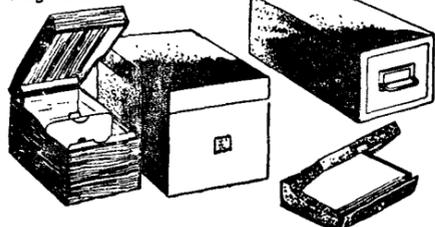
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**TRIPARTITE BRIEFING**—Missile experts representing Canada, the United Kingdom, Australia and the United States meet at the U. S. Army Missile Command to discuss technical concepts of weapons systems, guidance, propulsion and ground support equipment. Left to right are: Lt. Col. R. T. Mann, U. S. Office of the Chief of Research and Development; Col. W. W. Holmes, Army Missile Command; Lt. Col. D. J. Janigan, Canada, Defense Research Board; Lt. Col. D. R. O. Cowey, Australia, Technical Staff Officer for Armaments; and Lt. Col. Jack L. Jack, Defense Research Staff for the United Kingdom in Washington.

**FENCERS TO ORGANIZE**

Tonight an organizational meeting of a fencing club meets at the YMCA at 7:30 p.m. to discuss future plans.

Richard Heckman, 876-9210 and Joseph Dabbs, 536-5831 are handling details. They hope to attract fencers interested in using the foil, epee and saber.

**COMMUNICATIONS TO BE DISCUSSED**

Armed Forces Communications and Electronics Association will have a dinner meeting tomorrow at 6:30 p.m. at the Squirrel Hill Officers Club.

J. L. Nordbusch of the RCA staff at the Atlantic Missile Range will talk about communications on the range.

He will discuss data acquisition on the missile systems tested over the Atlantic. Mr. Nordbusch has been assigned in the Cape Canaveral area since early tests began on the Atlantic Missile Range.

**First Space Flight To Be Seen Friday**

Slides of the first orbital space flight in September, 1961 will be shown at the Pin Palace at 8 p.m. Friday for members of the North Alabama Chapter of the American Meteorological Society.

The group meets in the conference room of the pin palace located on North Memorial Parkway.

William W. Vaughan of the Marshall Space Flight Center will be the narrator. Glenn E. Daniels, phone 876-0917 can furnish information.

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## Welders Plan Dance At Club

The Greater Huntsville Chapter of the American Welding Society will hold a dinner dance at the Squirrel Hill Officers Club Saturday night.

A social hour and buffet will begin at 6:30 p.m., dancing at 8:30. The Melody Men will play for the dance. A special feature will be the Harmonica Wizards, Bob Brick, Herman Berges and Frank Havis. John Welzyn will be master of ceremonies.

R. A. Davis, 876-6351 and D. C. Jefferys, 876-6075 are handling arrangements.

## Military Engineers Meet Tomorrow Night At Club

The Society of American Military Engineers will meet at the Squirrel Hill Officers Club tomorrow at 6:30 p.m.

Brig. Gen. Lewis C. Pattillo, Ret., will be the principal speaker. Gen. Pattillo, currently a Consultant Engineer, will speak on World War II experiences as a commander of Engineer troops. Included in his talk will be the Vieppe Raid.

Gen. Pattillo holds a B. S. Degree in Civil Engineering from Auburn University.

He was a member of the Alabama National Guard (Engineers) from 1920 until 1940. During World War II he served in the Engineer Corps, U. S. Army and as Engineer of the Fifth Corps, planned the engineer operation for assault of Omaha Beach, Normandy.

His decorations include Legion of Merit with Oak Leaf Cluster, Bronze Star with two Oak Leaf Clusters, Purple Heart, and several European decorations. Since World War II, Gen. Pattillo has been engaged in private practice, Civil Engineering Consultant.

For reservations call Gustavus Brown, secretary, 876-1349 or Mr. Al Gieseke, assistant secretary, 876-3122.

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



DO-WAKA DO-WAKA DO—Mrs. Peggy Tomblinson and Mrs. Judy Frank are selecting the outfits they will wear to the "Roaring 20's" dance at the Redstone Officers Open Mess. (Photo by Charles Griffin.)

## Roaring Twenties Dance Planned By Officers Club

Tassel dresses, racoon coats and "oh you kid" buttons are expected when the officer personnel of Redstone Arsenal gather for the Spring Dance Mar. 23, a "Roaring 20's" theme.

The free dance will be held immediately after a happy hour and

buffet at the Officers Open Mess. Members and associate members of the Officers Open Mess attending the dance are urged to don duds of the roaring 20's era, but no criticism will be levied at those sans costume.

Informal attire is appropriate if costumes cannot be obtained. To prevent a "raid" by the Untouchables, Elliott Ness is invited to attend.

A new band called the "Cookers", booked especially for the occasion will offer charleston big apples, black bottom, and Suzie Q. music for those who want to go 'way out'.

The buffet will start at 6 p.m. with the dance scheduled at 8:30. The event is sponsored by the Directorate of Procurement and Production.

## Entertainment Section

PFC ART KALIN

The Third U. S. Army, All-Army Talent Contest, will be held May 15th through the 25th at Fort Bragg, North Carolina. The winners of this contest will represent the Third Army Area in the finals of the All-Army Talent Contest to be held in June.

Since the recent post-level talent contest was held in a non-categorized manner, and the All-Army Contest will be categorized, it will be necessary to hold another post-level contest to be judged in the following categories: solo vocalist, classical and semi-classical; solo vocalist, popular; instrumentalist, solo; indiv-

idual specialty; vocal group, maximum of 4 performers; instrumental group, maximum of 6 performers; specialty group, maximum of 3 performers.

We urge everyone who is interested in competing in this contest to contact Pfc Art Kalin, 876-5492, or Miss Molly Patterson, 876-4531. The rewards for the winners will be great, and it goes without saying, will be an unforgettable experience.

The post-level contest will be held at 8:15 p.m., Apr. 4. We expect a much larger turn-out of entries for this contest than we had for the last. Each act will be limited to 4 minutes. If there is any question the category of your act, please don't hesitate to call 876-5492 or 876-4531 and find out for sure.

Be sure to watch this column next week for more news on the All-Army Talent Contest.

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**CHERRY BLOSSOMS TELL**—Zollie Curry, Judy Hopper and Moorey Rhett try their costumes for the forthcoming Fantasy Playhouse-Huntsville Figure Skating Club production of Cherry Blossoms to be presented Saturday and Sunday at the Ice Palace in Huntsville.

**'Cherry Blossoms Tell' To Be Staged March 23-24**

Cherry Blossoms Tell, this year's production by the Fantasy Theater and the Figure Skating Club, are presenting three benefit performances Mar. 23-24.

The show, written and produced by local citizens, will be at 2:30 and 7:30 p.m. Saturday, and again at 2:30 p.m. Sunday at the Ice Palace in Huntsville.

Mrs. Benton Wilcoxon will narrate the action performed by the skaters against a backdrop representation of Old Japan, including bamboo fences, a tea house, and a bridge.

Mrs. Wilcoxon and the author,

Mrs. L. K. Wood who is also directing the production, appeared on Channel Six Monday morning.

They displayed some of the Kubuki dolls and other Japanese art as well as outlining some of the action of Cherry Blossoms Tell.

Miss Susan Wilson, a member of the Broadmoor Figure Skating Club in Colorado, is the star of the show. She is readying herself for national amateur competition and has skated in Dallas and Birmingham.

The fantasy, about a princess, a prince, and the gardener who coaxed to life a garden which would not bloom, includes a mammoth dragon and a Kubuki Lion.

Joe Kidd, skating as a wicked prince, did the choreography for the show.

Costumes for the 125 skaters

**At the Service Club**

By: Brenda Hanson

The old tradition of March has proven to be true again this year. As a usual thing, March is known as the windy month of the year. For the past few days, we have seen evidence of March and its notorious winds, and true enough, it has blown up a good program this week.

We begin with the weekly dance classes instructed by David Izen. These classes begin at 7 p.m. and continue through 9:30 p.m. So if you are interested in learning the more intricate and unique steps of dancing, this is your chance. Come to the Service Club each Tuesday and Wednesday night and join our classes.

Mar. 21, Classical Music will be featured at 6 p.m. The highlighted feature of the day is the Pool Contest beginning at 8 p.m. As a usual event these contests are hotly contested and skill is no rarity.

Friday night is Card Night. Bring your favorite partner and join us for an evening of hearts, pinochle, bridge or whatever your favorite card game might be.

Saturday night is a big, big night for all you lucky boys. The Junior Hostess' have gotten together and decided to have a "Favorite Dish Night." Each hostess will bring her favorite dish. It just might be yours too. The big event for the evening is a Record Hop beginning at 7 p.m. Pvt. Johnny Preston will be spinning your favorite records for you. So be sure not to miss the Favorite Dish Night and the Record Hop. That's Saturday night, Mar. 23, at 5 p.m.

Sunday, Mar. 24, coffee and donuts will be served at 9 a.m. Capping the evening will be a dance featuring "Swinging Spring." The dance will begin at

8 p.m. Jack Cobb Orchestra will furnish music.

Monday night is Game Night. The games begin at 8:15 p.m. Two grand prizes will be given.

Keep your eye on this column for next month's programs by taking a sneak preview into Betty's little red book, I am able to predict a Talent Contest, Spring Fashion Show and several other good programs in April.

The Third-Army Entertainment Contest is scheduled May 15-25. The Service Club Staff is now taking applications for the contest. The Post-Wide Talent Contest is scheduled Apr. 4 at the Service Club. If you are interested in entering the contest and possibly going to Ft. Bragg representing Redstone Arsenal, contact Miss Molly Patterson or PFC Art Kalin at 876-4531 or 876-5492.

Until then, see ye at the Ser-

**Movie Schedule**

WEDNESDAY, March 20  
"The Mongols" (M)  
THURSDAY-FRIDAY, March 21-22  
"The Man From the Diner's Club" (F)  
SATURDAY, March 23  
"Make Way for Lila" (F)  
SUNDAY-MONDAY, March 24-25  
"The Day of the Triffids" (M-YF)  
TUESDAY, March 26  
"Oklahoma" (M)  
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

vice Club.

—Brenda

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**WINS SLOGAN CONTEST**—William G. LaPier (right) accepts congratulations from Roland Cantrell (left) and Tommy Gooch for producing the winning slogan in Thiokol's February safety incentive contest. LaPier is a photographer, Cantrell supervises the photo lab, and Gooch is safety engineer. The winning slogan on a theme of 3,000,000 accident free manhours is: "Give me 2,000 or more who will make it 3,000,000 or more." A handful of silver dollars is awarded the contest winner.



**SAFE MISSILEERS**—Five persons in the Development Division, Directorate of Research and Development, received awards for 10 years of safe service recently from Col. John T. O'Keefe (right) Chief of the Division. Award winners, left to right, are G. S. Moshkoff, R. P. Whitley, Hugh Camp, and Melba Ledbetter. Art Simms, who also received an award, is not pictured.

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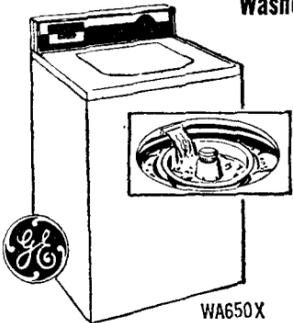
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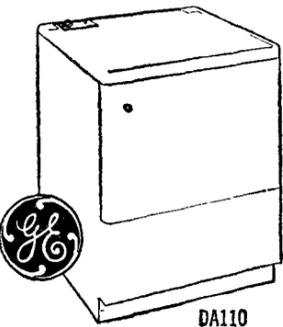


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| <p><b>1962 RAMBLER</b><br/>No. 187. 4 dr. with auto. trans., heater and white sidewall tires. '6' cyl. engine. \$1,995.</p>  | <p><b>1960 Volkswagen</b><br/>No. 150 2 dr. 4 speed trans., radio, and heater. Extra clean. . . . . \$1,295.</p>   | <p><b>1959 CADILLAC</b><br/>No. 822-A. 4 dr. '62' sedan with full power and air cond. Clean. . . . . \$2,695.</p>  |
| <p><b>1962 CHEVROLET</b><br/>No. 160. Impala 4 dr. Station Wagon with V8 engine, auto. trans., power steering, radio, heater and 250 engine. Local one owner car . . . . . \$2,695</p> | <p><b>1960 FORD</b><br/>No. 35-A. 2 dr. with auto. trans., and heater. A real bargain. . . . . \$1,095.</p>  | <p><b>1959 OLDSMOBILE</b><br/>No. 893-A. 4 dr. '98" with V8 engine, auto. trans., radio, heater, power steering and power brakes. Clean. . . . . \$1,295.</p>                                |
| <p><b>1961 CADILLAC</b><br/>No. 201. 4 door '62' Has full power, including windows and seats, and air conditioning. Nice. . . . . \$3,995.</p>   | <p><b>1960 FALCON</b><br/>No. 855-A. 4 door. Has straight shift, radio, heater and white sidewall tires. A real buy . . . . . \$1,095.</p>                                       | <p><b>1959 FORD</b><br/>No. 69. 2 dr. Fairlane. Has automatic trans., V8 engine, radio, heater, and white sidewall tires. A real buy. \$1,395.</p>   |
| <p><b>1961 CORVAIR</b><br/>No. 97. 2 dr. with radio, heater, auto. trans. Local one owner, like new. \$1,595.</p>  | <p><b>1960 CORVAIR</b><br/>No. 222. 2 dr. '700' Coupe with straight shift, radio, heater, and white sidewall tires. Motor completely reconditioned. Clean . . . . . \$1,195.</p> | <p><b>1958 CHEVROLET</b><br/>No. 189. A 4 dr. with V8 engine, radio, heater, auto. trans., radio, heater, power steering. Local one owner, like new. . . . \$1,295.</p>                      |
| <p><b>1961 OLDSMOBILE</b><br/>No. 205. CONVERTIBLE. Full power, auto. trans., V8 engine. Sharp. . . . . \$2,495.</p>   | <p><b>1959 OLDSMOBILE</b><br/>No. 139-A. '98" Holiday Coupe with V8 engine, radio, heater, power brakes, power steering and air conditioning. Sharp. . . . . \$1,595.</p>        | <p><b>1958 PONTIAC</b><br/>No. 161. 4 dr. Has V8 engine, auto. trans., radio, heater. . . . . \$795.</p>   |
| <p><b>1961 TEMPEST</b><br/>No. 225. 4 dr. with auto. trans., radio and heater. Local one owner, sharp. \$1,795.</p>  |  | <p><b>1958 CHEVROLET</b><br/>No. 897. Impala Sport Coupe with auto. trans., radio, heater, power steering, V8 engine and air conditioning. Like new. A real cream puff. . . . . \$1,295.</p> |

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| <p><b>1956 CADILLAC</b><br/>No. 878-A. Four door, you must see this one. . . . . \$795</p>                          | <p><b>1957 FORD</b><br/>No. 140-A Two door, V8, auto. trans., radio, heater. . . . . \$595.</p>                     | <p><b>1957 PLYMOUTH</b><br/>No. 200-A. Four door, V8, auto. trans., radio, heater. Clean. . . . . \$595.</p> |
| <p><b>1958 BUICK</b><br/>No. 880. Four door, auto. trans., radio, heater, a real buy . . . . . \$595</p>            | <p><b>1956 CHEVROLET</b><br/>No. 178-A Four door hardtop, 6 cyl. auto. trans., radio, heater. Only . . . \$495.</p> | <p><b>1957 Metropolitan</b><br/>No. 209. A Real Bargain . . . . . \$495.</p>                                 |
| <p><b>1958 DODGE</b><br/>No. 108 Sport Coupe, power steering, power brakes, auto. trans., radio, heater. \$695.</p> | <p><b>1956 DODGE</b><br/>No. 196 Two door. auto. trans., radio, heater, power steering, power brakes. \$395.</p>    | <p><b>1951 PLYMOUTH</b><br/>No. 213. Two door, local one owner. Good transportation. . . . . \$295.</p>      |

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troller, Post Engineer; Mavis T. Backer, Admin Asst., Directorate of R&D; Geneva B. McCluskey, Secretary (Steno), Directorate of Proc. & Prod; Cecil O. Rodgers, Industrial Specialist, Directorate of Proc. & Prod; Vivian M. Wallace, Clerk-Typist, Directorate of Supply & Maint.; Dorothy B. Wo-

mac, Procurement Clerk, and Donald A. Wight, Engineering Technician, Directorate of Proc. & Prod.

## Outstanding Performance

John A. McConnell, Supv. Accountant, and Sidney Mintz, Management Analysis Ofc, Control Office, AMSC.

## Sustained Superior Performance

Emilee P. Dillard, Clerk (Typing), Provost Marshal; Joseph L. Bray, Supv Equip Spec, Dir of Supply & Maint; Carman H. Gib-

son, Elex Test Equip Inst, and Edith C. Nance, Secretary (Steno), Directorate of R&D; Shirley C. Queen, Clerk General (Typing), Directorate of Supply & Maint; Martha V. Strong, Secretary (Steno), and William O. Turney, Procurement Officer, Directorate of Proc & Prod; Betty R. Weaver, Procurement Clerk, Hercules Proj. Mgr.

## Solar Experiment Provides Low Cost Heat Control

An answer to the skyrocketing costs of living may soon be on the commercial market thanks to the off-duty experimenting of a patent attorney employed by Headquarters, Army Materiel Command.

The attorney, Harry E. Thomason, found a cost method to harness the sun's rays and developed a sun-heating and air conditioning system for homes. Thomason has licensed a South Carolina firm to build the solar houses for public sale.

Working alone during his spare time, Thomason has built three solar-heated houses in the Washington, D. C. area in the last four years. The heating bill for a three-bedroom house was less than \$6 a year.

Attacking the problem of solar heating from the standpoint of efficiency and cost, the attorney first invented a low-cost heat collector of glass, black corrugated sheet metal and insulation.

The sun shining through the glass, makes the metal hot even on bitter cold days. Cold water sprayed over the metal is also heated. The heat is stored in a storage bin and the warmed water flows to a tank in the basement where it heats three truckloads of stones. The heat is then automatically extracted from the warmed water and stones by a blower and circulated throughout the house.

Thomason also developed a cooperating air conditioning system. During the summer the water and stones are chilled nightly and the coolness is stored for use during the days.

The second of the three homes, with two bedrooms, has no chimney or auxiliary furnace at all. Solar energy provides about 90 per cent of the heat and electricity provides the rest. The entire house is centrally air conditioned with 3.4 HP. The house was built at a cost of \$10,000.

The third house incorporates a number of architectural features that had been recommended by the FHA. Although Thomason and his family of seven live in it, the house is being used as a laboratory for solar energy research.

It is 44 feet wide and 74 feet long with seven heated rooms and two baths, a sun porch, enclosed pool, garage-workshop, recreation room, bowling alley, archery and pistol target range, bomb shelter and pump room.

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- [B] Night Table \$19.95
- [D] Double Dresser \$44.95

- Spindle Bed \$19.95
- Reg. Chest \$34.95

- [F] Single Dresser \$44.95
- [G] Bachelor Chest \$27.95
- [H] Corner Table \$24.95

- [I] Student Desk \$34.95
- [J] Mirror \$10.95

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MRS. A. W. CLAPP

## Protestants Will Hear Mrs. Clapp

A woman who started a second career at 52 will be the principal speaker at tomorrow's meeting of the Protestant Fellowship of the Post Chapel at 6:30 p.m.

She is Mrs. Allen Clapp of Atlanta, Ga., who served at Lubon-dai as dietitian and recreation assistant at the Central School, a boarding school for missionary children of all denominations. After one three-year tour, during which she was accompanied by her daughter, Mrs. Clapp returned to the U. S. for two years before returning to the Congo to operate a Christian book store in Luluaburg.

She came home to Atlanta just before the overt hostilities began in 1960.

The meeting in the chapel social room tomorrow night will include supper and is open to all interested in attending. Mrs. Robert Garrison is in charge of arrangements. Her phone number is 877-4853.

## Internal Revenue Director To Speak

George D. Patterson, District Director of the U. S. Treasury Department, Internal Revenue Service, Birmingham, will be guest speaker for the Federal Government Accountants Association meeting Thursday at the Huntsville Country Club at 6:30 p.m.

Patterson is a graduate of the Business Administration School, Emory University in Atlanta, and also a graduate of the George Washington Law School in Washington, D. C.

He is a member of the District of Columbia Bar and the State of Alabama Bar. In Birmingham Patterson is active in civic life. He is past president of Junior Chamber of Commerce, past president of Birmingham Young Men's Business Club, past president of Travelers Aid Society, and past vice president of the Birmingham Aero Club.

He was appointed to his present position as District Director of Internal Revenue Service in 1952.

The topic of his speech will be "The Administration of the Federal Tax Program in our Complex Society."



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## POLICE NOTICE

A reward is offered for information leading to the arrest of Eddy Current, charged with the induction of an 18 year old coil called Milli Henry, who was found half choked and robbed of vault

able Joules. The unrectified criminal, armed with a carbon rod, escaped from Weston Primary Cell where he had been clapped in ions. The escape was planned in three phases.

First, he refused the electrolytes, then he climbed through a grid, despite the impedance of the warders, and finally went to earth

in a magnetic field. He has been missing since Faraday.

What seems most likely is that he stole an AC motor. This is of low capacity and he is expected to try and change it for a Mega cycle, and to return ohm by a short circuit.

Reprinted from The Craftsman, Publication of the Royal Electrical

Mechanical Engineers.

March 7, 1945 — U. S. forces captured Remagen Bridge, over the Rhine River. Elements of the 9th Armored Division and the First U. S. Army secured a bridgehead on the east bank, becoming the first invading forces to cross the Rhine since the days of Napoleon.

### SPRING QUARTER

MARCH 25 - JUNE 7, 1963  
CLASSES BEGIN - MARCH 27

Placement Tests:  
Mar. 23: Math - 9:00 a.m.,  
English - 10:00 a.m.  
Mar. 27: Math - 7:00 p.m.;  
English - 8:00 p.m.

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## UNIVERSITY OF ALABAMA

REGISTRATION: MARCH 25 AND 26 — 12:00-8:00 P.M.

FOR FURTHER INFORMATION:  
CALL: 539-7731

LAST DAY OF REGISTRATION:  
APRIL 6

### — Schedule of Classes —

#### DAY CLASSES ON MONDAY AND WEDNESDAY\*

Accounting 1 .....	(8:00-10:05)	English 1 .....	(10:10-12:15)	Philosophy 3 .....	(1:15-3:20)
English 5 .....	(8:00-10:05)	French 3 .....	(10:10-12:15)		
*For course title and prerequisite see listings below.					
Mathematics 9 .....	(10:10-12:15)	Reading Improvement .....	(10:10-12:15)		

#### MONDAY AND WEDNESDAY EVENING CLASSES First Period (5:50-7:55 p.m.)

COURSE TITLE - PREREQUISITE	SEM.	HRS.	CR.
ACC 1 Principles of Accounting - None	3		
AE 241 Principles of Structural Analysis - AE 121 or MH 161 and Grad. Standing	3		
CH 1 General Chemistry (Lab. Fri. 6-10) - MA 9	4		
CH 202 Advanced Inorganic Chemistry, Part II - CH 201 and Grad. Standing	3		
DCF 2 Digital Computer Fundamentals II (begins April 8) - DCF 1 (Mondays only 6-10)	NC		
EE 201 Transients in Linear Systems - EE 134 Grad. standing	3		
EH 2 English Composition - EH 1	3		
EH 5 English Literature - EH 2	3		
GR 9 Intermediate Scientific German - GR 1-2	3		
GES 222 Graduate Engineering Analysis II - MA 53 and Grad. standing	3		
HY 1 History of Western Civilization - None	3		
IE 53 Manufacturing Processes - Soph. standing or Perm. of Instr.	3		
IE 226 Scientific Management - Grad. Stand. & Perm. of Instr.	2		
IE 255 Statistical Methods For Engineers - MA 51, Grad. Stand. and Perm. of Instr.	3		
MA 01 High School Algebra - None	NC		
MA 9 College Algebra - See footnote	3		
MA 11 Introductory College Mathematics - See footnote	3		
MA 91 Introduction to Real Analysis - MA 51	3		
MA 127 Vector Analysis - 17 Hrs. of Math	3		
MA 181 Theory of Statistics I - MA 224-R, Perm. of Instr. and Grad. Standing	3		
ME 202 Fundamentals of Thermodynamics II - Grad. standing	3		
ME 205 Turbomachinery - Grad. standing	3		
MH 55 Statics - MA 49, PH 5, Pre or parallel MA 51	3		
MH 257 Advanced Dynamics - MH 56, MA 53, and Grad. standing	3		
MH 366 Theory of Plates and Shells - MA 53 and Grad. standing	3		
MTE 231 Engineering Properties of Metals - GES 77 and Grad. standing	3		
NE 152 Principles of Nuclear Engineering II - NE 151	3		
PH 5c Technical Physics (Mechanics) (Lab. Tues. 5-8) - MA 25 or parallel; recommended parallel MA 49a	3		
PH 141 Geometrical and Physical Optics - MA 51	3		
PH 205 Relativity - 20 hrs. of PH, Perm. of Instr., and Grad. standing	3		
PHL 5 Introduction to Logic - None	3		
POL SC 62 Introduction to Political Theory - 6 hrs. of POL SC and 3 hrs. of one of the following: HY, EC, PHL	3		
PSY 7 Psychology of Adjustment - PSY 1 or 3	3		
SLS 80 Library Operation and Management - 60 hrs. of college work	3		

#### Second Period (8:00-10:05 p.m.)

ACC 3 Accounting Analysis - ACC 2	3		
CE 51 Plane Surveying I (Sat. 9-12 for 6 weeks) - MA 15 and MA 25	3		
DR 5 Fundamentals of Mechanical Drawing (Lab. Fri. 6-10)-None	2		
DR 11 Engineering Drawing (Lab. Fri. 6-10) - MA 9 or previous instruction in Mechanical Drawing	2		
DR 12 Descriptive Geometry (Lab. Fri. 6-10) - DR 11	2		
EC 12 Principles of Economics - EC 11	3		
EE 51 Fundamentals of Electrical Engineering I (Problem Lab. Fri. 6-9) - PH 6 and MA 49	3		
EH 03 Fundamentals of English - None	NC		
EH 1 English Composition - See footnote	3		
EH 41 English Composition for Engineers - See footnote	3		
GEOG 2 Physical Geography (Lab. Sat. 8-12) - GEOG 1	4		
GR 1 Elementary German - None	3		
IE 54 Engineering Organization - EC 11	3		
MA 15 Trigonometry - MA 9 or MA 11	3		
MA 25 Analytic Geometry and Calculus - MA 15; MA 11 recommended	3		
MA 49b Calculus and Analytic Geometry - MA 25	2		
MA 51 Calculus - MA 49b	4		
MA 76 Solid Analytic Geometry - 12 hrs. of MA	3		
MTE 205 Turbomachinery - Graduate standing	3		
POL SC 1 Principles of American Government - (not open to Seniors.) - None	3		
Reading Improvement - None (Begins April 1 and meets for 7 weeks)	NC		
SPC 51 Special Problems in Calculus - open to persons who wish to review calculus in one quarter	NC		

**Boldface symbols indicate Graduate Study Program Courses. SHOULD ADDITIONAL COURSES BE ADDED, THIS INFORMATION WILL BE AVAILABLE AT THE GRADUATE OFFICE.**

FOOTNOTE: Students are placed in appropriate sections of beginning English and Mathematics depending on score made on placement tests.

#### COURSES WITH SPECIAL SCHEDULES

MH 85 Mechanics of Materials Laboratory (Saturday Lab. on main campus) - Pre or parallel MH 64	1		
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#### TUESDAY AND THURSDAY EVENING CLASSES First Period (5:50-7:55 p.m.)

COURSE TITLE - PREREQUISITE	SEM.	HRS.	CR.
ACC 2 Principles of Accounting - ACC 1	3		
ACC 104 Introduction to Auditing - ACC 53 and 100, or Perm. of Instr.	Cert.		Cr.
AE 177 Dynamics of Flight - AE 131 and GES 131	3		
AE 321 Hypersonic Flow Theory - AE 171 and Grad. standing	3		
ART 11a, b; 12a, b Drawing I (Tues. only 6-10) - None	1½		
DCF 1 Digital Computer Fundamentals I (Tues. only 6-10, begins April 9) - None	NC		
DR 42a Production Illustration (Thurs. only 6-10) - DR 11	1		
EE 95 Electric Circuits (Lab. alternate Fridays 6-10) - PH 6 and MA 51	3		
EE 212 Network Synthesis - EE 211 and Grad. standing	3		
EE 215 Solid State Electronics - EE 136 and Grad. standing	3		
EE 219 Communication Theory - EE 178 and Grad. standing	3		
EE 221 Electromagnetic Field Theory - EE 181 and Grad. standing	3		
EE 305 Advanced Topics in Servomechanism - EE 205 and Grad. standing	3		
EH 1 English Composition - See footnote	3		
EH 184 Technical English - EH 2 or EH 42 and Jr. standing	2		
FR 2 Elementary French - FR 1	3		
GDC Government Defense Contracting - None	NC		
GR 4 Intermediate German - GR 3	3		
HY 60 Problems in American History - 9 hrs. of HY including 6 hrs. of American History, or Perm. of Instr.	3		
IE 55 Introduction to Engineering Statistics - MA 49 and concurrently with MA 51	3		
IE 159 Introduction to Operations Research - Perm. of Instr.	3		
IE 291 Methodology of Systems Engineering - Perm. of Instr. and Grad. standing	3		
MA 15 Trigonometry - MA 9 or MA 11	3		
MA 20 Elementary Mathematical Statistics - MA 9 or MA 11	3		
MA 53 Applied Differential Equations - MA 51 (not open to MA majors)	3		
MA 126 Partial Differential Equations - Normally preceded by MA 123	3		
MA 142 Introduction to Higher Algebra - 17 hrs. of MA	3		
MA 144 Determinants and Matrices - 17 hrs. of MA	3		
MA 171 Introduction to Topology - MA 91	3		
MA 292 Seminar on Celestial Mechanics - MA 224-R or Perm. of Instr. and Grad. standing	3		
ME 95 Thermodynamics I - PH 5, MA 51	3		
ME 208 Heat Conduction - Grad. standing	3		
MH 64a Mechanics of Materials - MH 55 and MA 51	2		
MH 265 Theory of Elasticity I - MH 64, MA 53, and Grad. stand.	3		
MH 281 Advanced Fluid Mechanics - MH 80 and Grad. standing	3		
PH 6c Technical Physics (Heat, Light, Sound) (Lab. Wed. 5-8) PH 5c	3		
PH 53 Introduction to Atomic and Nuclear Physics - 8 hrs. of PH	3		
PH 102 Intermediate Electricity and Magnetism - PH 85, MA 53 or 98	3		
PSY 1 Introduction to Psychology - None	3		
RUS 1 Elementary Russian - None	3		
SOC 6 The Family - SOC 1	3		

#### Second Period (8:00-10:05 p.m.)

AE 121 Aircraft Structures I - MH 64	3		
ASTR 1 Introduction to Astronomy - None	2		
BIO 1 General Biology (Plant) (Lab. Fri. 6-10) - None	4		
EC 11 Principles of Economics - None	3		
EE 52 Fundamentals of Electrical Engineering II - EE 51 and GES 77	3		
EH 2 English Composition - EH 1	3		
FIN 51 Money and Banking - Pre or parallel EC 12	3		
FR 3 Intermediate French - FR 2	3		
GES 77 Nature and Properties of Materials - CH 15, PH 6 and MA 49	3		
GR 3 Intermediate German - GR 2	3		
HUM 101 Man and His Behavior (For Engr. students only) - Jr. standing	3		
HY 21 The United States to 1865 - None	3		
HY 25 History of Alabama to 1860 - None	3		
IE 105 Engineering Economics - Sr. standing	2		
MA 01 High School Algebra - None	NC		
MA 9 College Algebra - See footnote	3		
MA 49a Calculus and Analytic Geometry - MA 25	3		
ME 136 Thermodynamics II - ME 95	3		
MH 80 Fluid Mechanics - Pre or parallel MH 56, ME 95	3		
MKT 1 Industries and Commerce (Freshmen and sophomores only) - None	3		
PH 7c Technical Physics (Electricity and Magnetism) (Lab. Mon. 5-8) - PH 5c or 6c	4		
PH 81 Intermediate Heat - MA 51 and 8 hrs. of PH.	3		

## Civilian Strength To Be Reduced By Normal Attrition

The total civilian personnel strength of the Army Missile Command elements at Redstone Arsenal is being reduced slightly by a process of gradual attrition.

Although the Command is hiring some personnel now and will continue to fill vacancies in key skill areas, the majority of vacancies occurring in the organization through normal personnel turnover are being filled from within present manpower resources.

The current civilian personnel strength of the organization is approximately 8,500. Under normal personnel turnover, approximately 150 civilians will leave the organization between mid-March and July 1 to retire, accept new employment or for other reasons.

Continued normal personnel turnover, which is anticipated, will enable the Command to adjust its overall civilian strength by July 1 to comply with manpower guidance set by higher authority without adverse effect on individuals now employed or on the Command.

## Missile Advances Told By Colonel

"The missile era is characterized by rapid technological advancements, sophisticated weapons and streamlined management methods and techniques," Lt. Col. James C. Miller of the Army Missile Command said in a speech prepared for delivery to the Hayes International Management Club in Birmingham Tuesday.

Miller, Chief of the Future Missile Systems Division of the Missile Command's Research and Development Directorate, centered his presentation to the Hayes management group around a status report on Army missile systems now operational, in production or under development.

"In this day of complex and specialized weapon systems, we must never lose sight of the lone foot soldier," Miller said. "He needs the best weapons he can get to carry right with him whether in jungles or up rocky hills," Miller said, outlining the development of the Army's Redeye shoulder-fired frontline air defense missile system and the M-72 crack tank-killer "pocket" rocket.

Miller also mentioned briefly development of the Army's new Lance, a guided missile using pre-packaged liquid propellants.

"Most significant in this (Lance) system is that it will replace two other systems now operational, the Honest John and Lacrosse," Miller pointed out. "This illustrates the Army's continuing ef-



**NO BOREDOM HERE**—What normally might seem to be a dull, boring task appears to be a pleasing experience for members of the Finance and Accounting Division, Comptroller and Director of Programs office. Their job was the re-orientation of time keepers

in updated labor job card coding procedures. The host of feminine timekeepers pictured here are employed in different missile system project offices of the Army Missile Command.

\*\*\*\*\*  
**Births at Post Hospital**  
 \*\*\*\*\*  
 Robert Augustus Dymes, 7 lbs., 7½ ozs., Mar. 8, son of Sp5 and

Mrs. Edward J. Dymes.  
 Kathleen Coralie Gerhold, 6 lbs., 6½ ozs., Mar. 8, daughter of Sp5 and Mrs. Robert F. Gerhold.

Janet Grace Eubanks, 6 lbs., 1¾ ozs., Mar. 9, daughter of MSgt. and Mrs. Edgar H. Eubanks.

Macheele Suzanne Lowery, 6 lbs., 15 ozs., Mar. 9, daughter of Sp4 and Mrs. Nathaniel L. Lowery.

Sara Jean Miscik, 6 lbs., 9 ozs.,

Mar. 10, daughter of SSgt. and Mrs. John G. Miscik.

Jimmie Thomas Rushing, Jr., 6 lbs., 7 ozs., Mar. 10, son of Pfc and Mrs. Jimmy T. Rushing.

Paula Ann Walker, 6 lbs., 6½ ozs., Mar. 11, daughter of Sp5 and Mrs. Robert W. Walker.

Paul David Egger, 6 lbs., 2 ozs., Mar. 12, son of 1/Lt. and Mrs. Carl T. Egger.

Oliver NMN Sander, 6 lbs., 13½

ozs., Mar. 12, son of Sgt. and Mrs. Wilhelm Sander.

Linda Kay Cook, 6 lbs., 12¾ ozs., Mar. 12, daughter of A01 and Mrs. Malcolm R. Cook.

Shelly Elizabeth Blankenship, 6 lbs., 10 ozs., Mar. 13, daughter of Pfc and Mrs. Richard L. Blankenship.

Kirsten Heike Ertel, 8 lbs., 4½ ozs., Mar. 13, daughter of 1/Lt. and Mrs. Helmut H. Ertel.

The Redstone Rocket — March 20, 1963 Page 13

orts to reduce the number of different types of missiles in the interest of cost and manpower." The dinner meeting attended by more than 300 persons was held at the Tutwiler Hotel.

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1958 CADILLAC—4 dr. hardtop, black with air conditioning and full power and all accessories. Has low mileage. Was \$1895—WHOLESALE \$1385.

1957 CADILLAC—2 dr. Coupe with factory air conditioning and all accessories. Local one-owner Southern car. WAS \$1795—WHOLESALE \$1380.

1959 CHEVROLET IMPALA—2 dr. Cpe. With radio, heater, big engine and auto. drive. radio and heater. New tires. Like new. WAS \$1695—WHOLESALE \$1550.

1959 FORD—GALAXIE Fordor with V-8 motor, auto. shift, radio and heater, Southern car. WAS \$1195—WHOLESALE \$888.

1959 PLYMOUTH—SAVOY 4 dr. with radio, heater, V-8 motor and standard shift, newly rebuilt engine. WAS \$895—WHOLESALE \$689.

1957 CHEVROLET—4 dr. "6" with auto. shift, radio, heater and it's extra clean. WAS \$1095—WHOLESALE \$792.

1958 EDSEL—4 dr. sedan with radio, heater and power steering, and new tires. WAS \$895—WHOLESALE \$699.

1960 CHEVROLET—Hardtop 4 dr. with V-8 motor, radio, and heater. Red and white. Unusually clean. \$1695.

1959 RAMBLER—Super 4 dr "6" with standard shift, radio, and heater. Extra clean. WAS \$1095—WHOLESALE \$987.

1959 FORD—GALAXIE 2 dr. hardtop with V-8 engine, auto. shift, radio and heater. WAS \$1295—WHOLESALE \$1052

1959 FORD—FAIRLANE Fordor "6" cyl. with standard shift. Low mileage and it's like new WAS \$1195—WHOLESALE \$999.

1960 FALCON—FORDOR with radio, heater and standard shift. WAS \$1095—WHOLESALE \$987.

1958 CHEVROLET—IMPALA Two-Door Hardtop with radio, heater and V-8 motor. It's an automatic. WAS \$1095—WHOLESALE \$980.

1958 CHEVROLET—BEL AIR Four-Door sedan with "6" cylinder motor and automatic. WAS \$995—WHOLESALE \$880.

NO MONEY DOWN — WE FINANCE PFC'S AND UP.

EXCELLENT FINANCING FOR YOU!!

### Other Low Priced Cars TO INTEREST YOU!

1960 CHEVROLET—STATION WAGON Bel Air Four-Door with standard shift, radio, heater and new tires. This is a Southern car with low mileage. \$1695.

1961 CHEVROLET—BEL AIR 2-dr. "6" with auto. shift, power steering, radio and heater, and only 12,000 actual miles and spare tire never used. 30-day guarantee on this car. \$1895.

1962 OLDSMOBILE—2-DR. CPE. Has white finish with maroon interior, radio and heater. It's a one-owner car. Like a new one. \$2695.

1962 VOLKSWAGEN—Sedan with radio, heater, 8,000 actual miles and it's like new. \$1595.

(2) 1959 FORD CONVERTIBLES—Both are automatics. One is a "6" and the other is a V-8. CHOICE \$1295.

1953 GMC HALF TON PICKUP—Local one owner. Like new and has new tires. \$595.

1954 FORD HALF TON PICKUP—"6" cylinder with newly overhauled engine. \$395.

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WANT AD RATES—\$1.50 minimum, per weekly insertion, covering first 25 words. 4 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Zillah T. Heath, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 The Redstone Rocket — March 20, 1963

## For Rent

**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 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

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

**FOR RENT**—1 and 2 bedroom, modern, brick apartments on Barclay Ave., near Arsenal Phone 536-0775. tfc

**FOR RENT**—3 room Unfurnished Apartment. Gas heat. Close to Downtown. Private Bath, Off Street Parking. 537-6426 ttp

**WANT TO RENT** garage or barn to store antique cars. Want to buy a single lens reflex camera, old magazines 1910 to 1942, books on archeology, history or geology and Indian artifacts. Phone 881-2435. ttp

## Cars for Sale

**FOR SALE**—1959 Chevrolet, Station Wagon, 4 door, 6 cyl., auto. trans., radio/heater and new tires. A real clean wagon. Owner selling, \$1200. Phone 536-0648 or 534-2179. ttp

**1963 FALCON**—Futura convertible, bucket seats (red) 4-speed stick shift, 3,000 miles. Same as new. Phone 536-9161. ttc

**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. ttc

**1958 BUICK**—Century, 4-dr. hardtop. Power steering & brakes. A real nice one. Phone Brooks, 536-9161. ttc

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

**1955 CHRYSLER**—New Yorker, full power. Clean as you will find anywhere, phone 536-9161. ttc

**WANTED TO BUY** clean used cars. "We can use yours." Call us. ROBINSON AUTO SALES, 810 Madison St., Phone 539-3551. tffc

**FOR SALE**—1961 Metropolitan convertible. radio, heater, 9,000 actual miles. Terms can be arranged. Phone 534-9839 from 9 to 4 or 536-2106 after 5 p.m. ttc

**1961 FORD**—Galaxie, 4 door beautiful blue. The best with power. Phone 536-9161. ttc

**FOR SALE**—1956 Triumph TR. looks and sounds good, \$695.00. 1959 Dodge pickup, many extras, low mileage, good condition. \$1095.00. Phone 539-3459 after 4 p.m. ttc

**1957 BUICK**—Special, 4 door, real clean nice car. Phone 536-9161. ttc

## Miscellaneous

**PLACE YOUR INCOME TAX** problems in the hands of competent personnel. Licensed Public Accountant at Robinson Auto Sales, 733 Madison St. Phone 536-9161. ttc

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

**EXPERT**—Major, small appliances and lawnmower repair, very reasonable service charge. WALTER'S APPLIANCE REPAIR SHOP, 630 Meridian St., Phone 539-1141. ttc

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

**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. ttc

**FIT, FASHION AND FINE SAVINGS** at BUS-ANN'S, downtown Huntsville. Truly your family shoe store. ttc

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

**CAMP DUNROAMIN—FAYETTEVILLE, TENN.**—FOUR happy, healthy WEEKS for GIRLS 8-14. Strong Lodges, Cement Swimming Pool. Excellent Instruction in Swimming, Tennis, Basketball, Archery, Crafts, Folk Dancing. FAMOUS for GOOD FOOD and personal attention of experienced Directors. C. A. GEARISH, Box 401, Fayetteville, Tenn. Telephone 433-1935. ttc

**FOR SALE**—14' Fiberglass boat with 35 hp electric motor and trailer or with skis and other accessories, \$350.00. Phone 377-4455 ttc

**FOR SALE**—15' Crenakes gas and white boat 40 h.p. Scott motor, heavy duty trailer, excellent condition. Call 881-2163 after 5 p.m. Mondays thru Fridays—Weekends, anytime. ttc

**"THE LUZIER MAGIC HOUR"** is available to everyone. We need ladies to present this wonderful service to their friends and neighbors. Phone Mrs. Odell Whirt, 534-3247 or write 3319 Kavanaugh Drive, Huntsville. ttc

**FOR SALE**—The Gibson mandolin, violin, Civil War Rifle, shoots good, muzzle-loader, and 4 good wagon wheels, good running condition. Phone 773-6032. tffc

**FOR SALE**—Sony 262D 4-Track Stereo Tape Deck \$50.00; and Nortronic RA-100 Recording Amplifier, \$40.00. Neither can be sold from new. Phone 881-3859 after 5 p.m. ttp

## Houses for Sale

**FOR SALE**—2 houses, brick veneer, 3 bedrooms, 1 1/2 baths, built-in kitchens, forced air furnace with air condition and concrete drive. The price is right. The terms are right. See these houses before you buy. See or call JESSE BLACK, Arab, Ala. Phone 586-4515. 3-27c

**FOR SALE**—3 bedroom, 1 1/4 baths. Ideally located on circle for children. \$82 monthly, \$2400 equity. FHA refinance for \$450 down, \$450 closing and \$93 monthly. 3517 Oleander Circle. 539-0543. ttp

**FOR SALE**—New brick home in Arab. Finished outside, wiring roughed in. Will rough in plumbing. You finish inside. 3 bedrooms, 1 1/2 baths, kitchen-dining comb., carpet, utility room, city water. Parts from 1952 Dodge. Motor, transmission, carburetor, starter, new rebuilt generator, real good seats, other parts. Call 876-0516 or 539-5880. 3-13p

**FOR SALE**—New nice 3 bedroom house, 1 1/2 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 582-3027. ttc

**FOR SALE OR RENT**—Modern 3 bedroom home with one acre of land 5 miles south of Floratte on Highway 67. CLYDE CRAWFORD. Phone 585-3342. ttc

**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 355-0405, Decatur, Ala. ttc

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

**100' GUNTERSVILLE LAKE FRONT**—Beach Creek, wooded lots, access to water, \$500.00 and up. Waterfront lots, \$1,000. and up. TY DORMAN, Guntersville, 582-3654 or Huntsville 876-3297. ttc

**5/10/5 Post Liability \$10.00 a Year**

Service men, all ranks and ages, also Civilians.

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**\$4.88**

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Reg: \$6.50 Value)

Fast Service - Expert Wheel Mechanic

All Work Fully Guaranteed

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Across From Butler High

DIAL 539-3482

Open 7 a.m. to 6 p.m.

**BEAUTIFUL WOODED LOTS**

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.

## CAMPING & FISHING EQUIPMENT

- Hip Boots
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Reconditioned and Guaranteed Used Volkswagen Sedans, Station Wagons, Panels and Pickups. Also we will buy your used foreign car.

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That **HOME** NOW  
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Between Butler High and Parkway

Regular Haircuts .... \$1.00

Flat-tops, thru age 13 \$1.00

Open 8 to 8 . . . 6 Days a Week

Your Patronage Appreciated

## GLEN PARK APARTMENTS

Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.

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## G.I. EQUITY

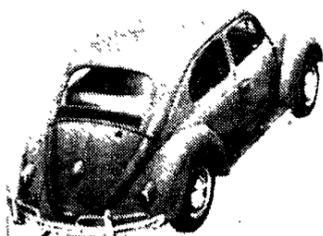
We have several G. I. Equities that you can buy and assume low interest rate mortgage payments ranging from \$57.00 to \$108.00. 1 and 2 baths, some have built-in kitchens.

PHONE

**Theodore Blocker**

Days 539-8481—Nights 536-2493

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**UNIVERSAL MOTORS, INC.**

North Memorial Parkway  
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**TRADE-IN** Your Present Home and Move Up to . . .

**LAKWOOD**

**YOU'RE INVITED** To Our Trade-In Program

**809's** If You Have Out-grown Your Present Home

You can now get a second 809 loan by selling or trading us your present home on one of our beautiful 3 and 4 bedroom with den brick homes.

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Also Other Household Items

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AND . . .

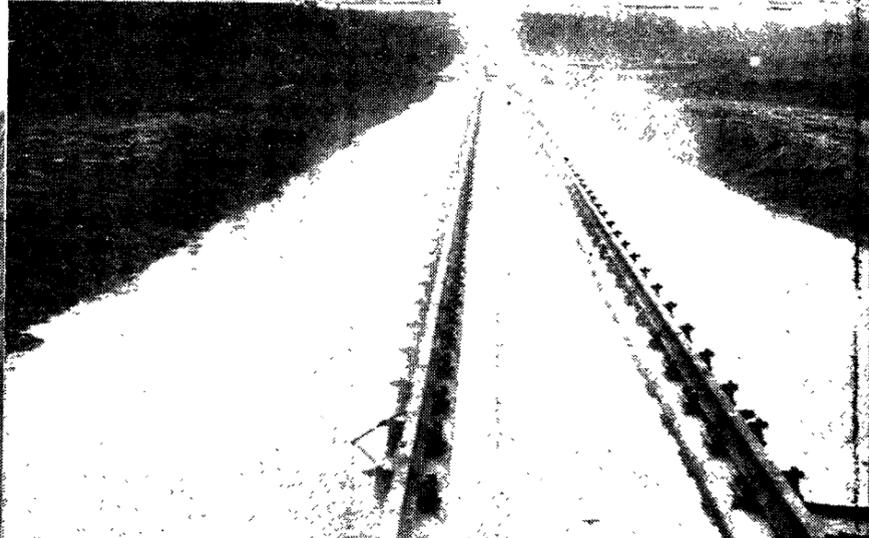
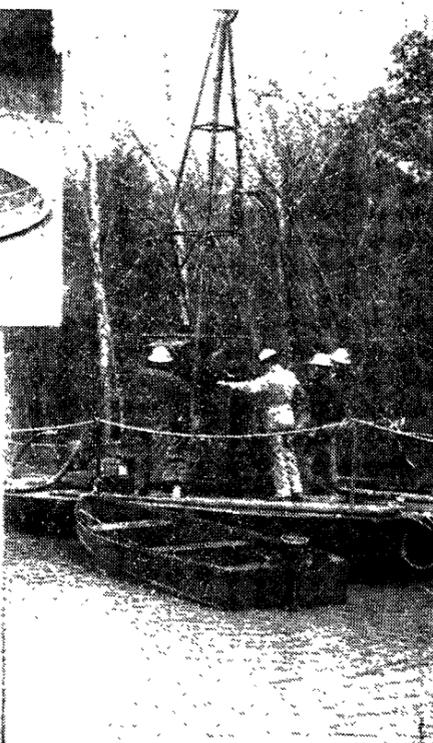
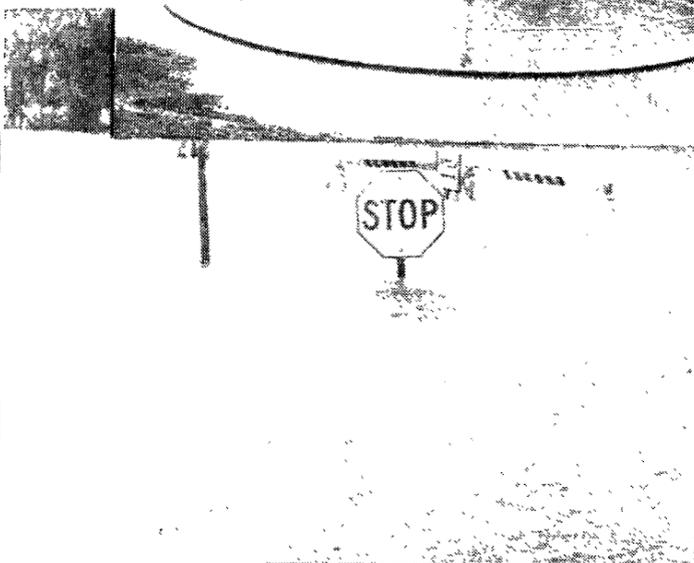
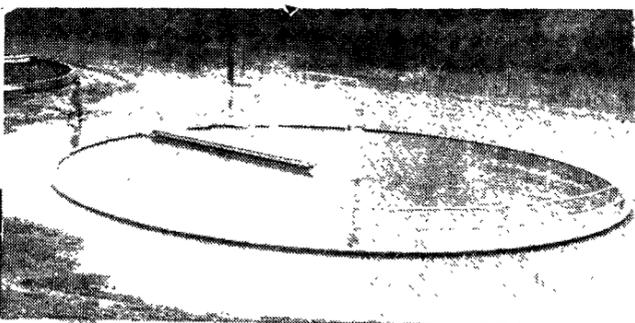
## LOTS FOR SALE! FOR DWELLINGS

We build houses on your lot . . . 100% financed by us or VA and FHA financing. Built by Bonded Builders.

FOR COLORED PEOPLE . . . VA FINANCED IN EDMONTON HEIGHTS

**C. F. STINNETT REAL ESTATE BROKER**  
2501 MERIDIAN ST. PHONE 536-9901

**WATERY WORLD**—Redstone Arsenal is a wet place after the heavy rains Mar. 12. Patton Road remained closed indefinitely according to informed sources who were queried Monday. The Huntsville City limits sign at upper left is beside the Arsenal Gate 2. Warehouses, test sites and bridges could only be reached by rowboat in many instances. Water damage in most cases was relatively minor. The Military Police, accustomed by now to the vagaries of the Tennessee handled traffic rerouting with efficiency.



\*\*\*\*\*  
**Religious Services**  
 \*\*\*\*\*

**PROTESTANT**

**POST CHAPEL — BLDG. 3714**  
 SUNDAY — 1000 and 1115 hours, General Protestant Services. (Chapel Nursery open during these services).

Church School — 1000 hours — Ages 3 years to adult. Classes for children and young people grades 1 thru 12, meet in Chapel Annex, Bldg. 3151. All military and civilian personnel, and families are welcome.

Youth Fellowship — 1730 hours — Junior and Senior High meet in Chapel Annex, Bldg. 3151.

Sunday Evening Worship Service — 1900 hours—Post Chapel. **REDSTONE PARK CHAPEL (BLDG. 9600)**

SUNDAY — 0945 hours — Sunday School — 1100 hours — Morning Worship Service. 1800 hours — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hours — Evening Worship Service. (Nursery is open for both Worship Services.)

**CATHOLIC**

**Post Chapel — Bldg. 3714**  
 SUNDAY—Masses— 0730, 0845, 1230 and 1700 hours. (Chapel Nursery open during Masses).

Baptisms—1330 hrs., or by appointment.

Tuesdays—Perpetual Help Novena—1930 hrs. Choir Practice—2000-2100 hrs.

Thursday — Instructions, 1900 hrs.

Saturday — Catechism—0945-1200 hrs. at Chapel Annex. Mass —1115 hrs.—Chapel Annex. Confessions—1800-1930 hrs.

**JEWISH**

**CONSERVATIVE JEWISH SERVICE** — Friday Evenings — 2000 hours — Services are held at the Huntsville Conservative Synagogue — Randolph School, Randolph St., Huntsville. Servicemen cordially invited. For further information contact Fred Glusman, 536-6621.

**REFORM JEWISH SERVICES** — Temple B'nai Sholom, Corner of Lincoln and Clinton Streets, S.E., Huntsville. Friday evenings at 2000 hours; servicemen cordially invited. Sunday School at 0930

hours. For further on services or Sunday School, call Ben Keyserling—536-2381.

**CHRISTIAN SCIENCE SERVICE**— Sunday — Service at 1100 hours Wednesday services are at 2000 hours at S. White and Wells Ave., Huntsville. For information or transportation, call Christian Sci-

March 16, 1945 — Iwo Jima fell to the United States' 4th and 5th Marines after 26 days of bitter and bloody fighting, giving the U. S. a base within 750 miles of Tokyo.

ence Armed Services Minister, collect 776-2791.

**"...Where the American soldier stands, there stands a tangible and unmistakable boundary of freedom that an enemy knows he can violate only at the gravest risk. Any attempt to understand the Army must always start from—and finally return to—the individual soldier; he, in aggregate, is the Army."**



General George H. Decker, Chief of Staff, U.S. Army

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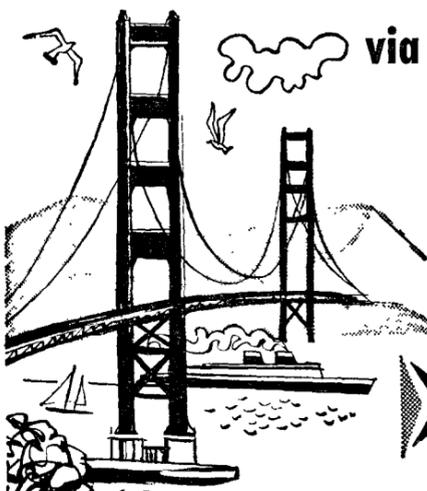


**DOWNTOWN HUNTSVILLE**  
 Phone 534-5681

Also Sterchi Stores to Serve You at Scottsboro and Fayetteville.

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Convair 880 at 11:07 am, arrives 3:45 pm. Other service at 4:10 pm via Dallas, arrives 10:25 pm.

Call Delta at 536-8576 or see your Travel Agent

**DELTA**  
 the air line with the **BIG JETS**

## SMALL BUSINESS SHARES DOLLARS

The Army Missile Command spent more than \$315,000, much of it with small business concerns, in the Southeast during February.

This money paid for goods, services and supplies. Part of the material purchased is used to keep the grounds and the Army's buildings at Redstone Arsenal in tip-top condition. Some of the money goes to the merchants who sell food, paper, business machines, mechanical repairs, electronic gear, cleaning service and "costs of the trade." These are the minutiae needed to support the Army's missile and rocket programs.

Huntsville companies received the largest share—approximately \$225,000. Birmingham was next with \$66,000 worth of orders, while several other Alabama cities shared \$17,000 worth of business. Some \$10,000 was spent with Tennessee firms.

Other orders on the small business level were placed with firms throughout the United States.

All of these awards are in addition to the contracts for one million dollars or more received by prime contractors to produce missile and rocket and related equipment.

Administration of the awards made by the Army at Redstone Arsenal is the responsibility of the Purchasing and Contracting Division of the Army Missile Support Command, and the Local Purchases and Formal Advertising Offices of the Missile Command Production and Procurement Directorate.

## Logistics Personnel Get On-The-Job Instruction

On-the-job education for logistics personnel in this rapidly changing field is now possible through nonresident instruction provided by the U.S. Army Logistics Management Center.

USALMC offers programs of instruction in logistics management to meet this need in both resident and nonresident schooling. The Center's nonresident instruction department provides on-the-job education in the functional areas of requirements, procurement, distribution, and maintenance management.

Each program undertaken by an installation or activity is tailored to meet its specific needs through close coordination with USALMC. A two-week resident instructor development course is given for Army Missile Command personnel.

Additional information concerning the program may be obtained from the Assistant Commandant for Nonresident Instruction, USALMC, Fort Lee, Virginia.

### ANSWER TO WHERE ARE YOU

The picture was taken from the elevated end of the rocket sled track just south of the intersection of Patton Road and Redstone Road. The track is as long as two football fields and angles upward at 3 degrees. When a test rocket reaches the end where this picture was taken it is travelling at roughly 1,000 miles per hour.

## Missile Command Gives Most Blood

The Red Cross Bloodmobile collected 471 pints of blood from 493 donors last Wednesday.

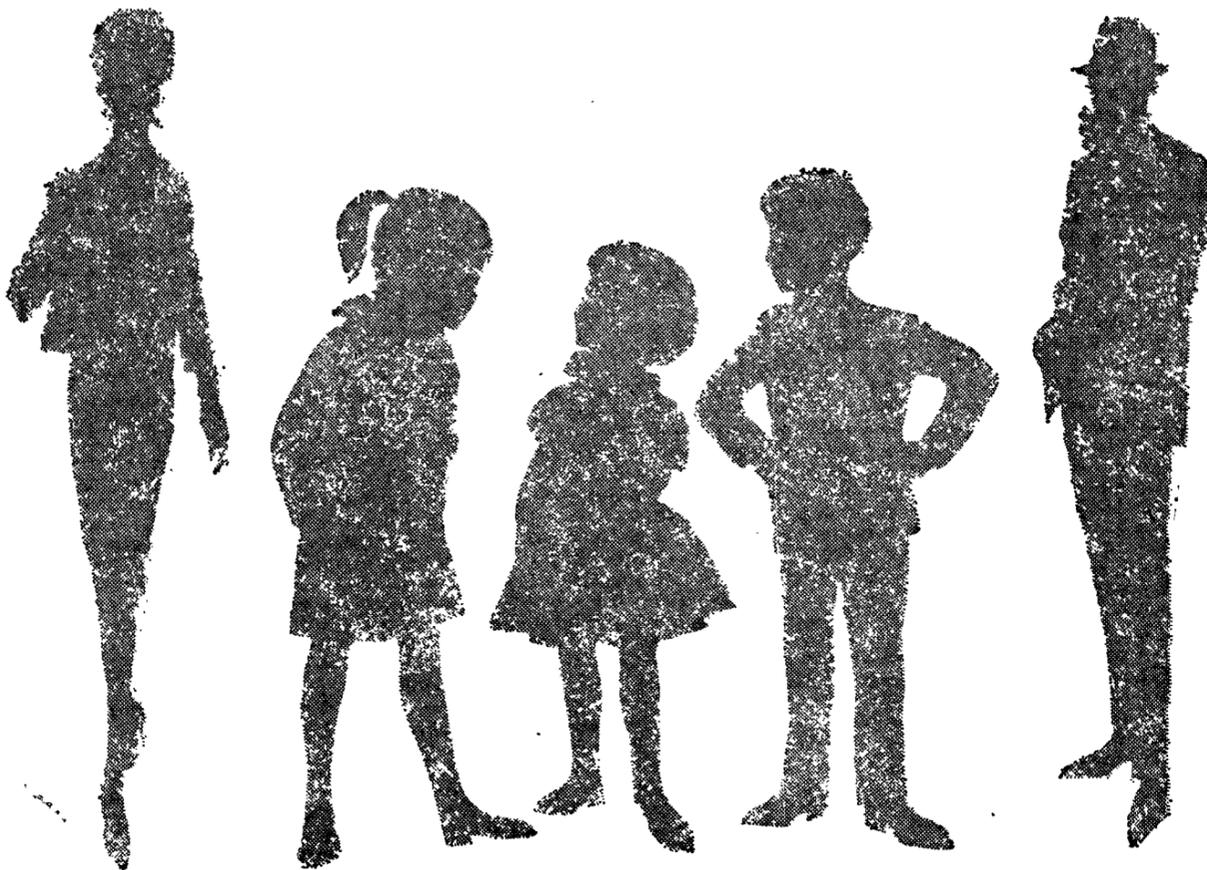
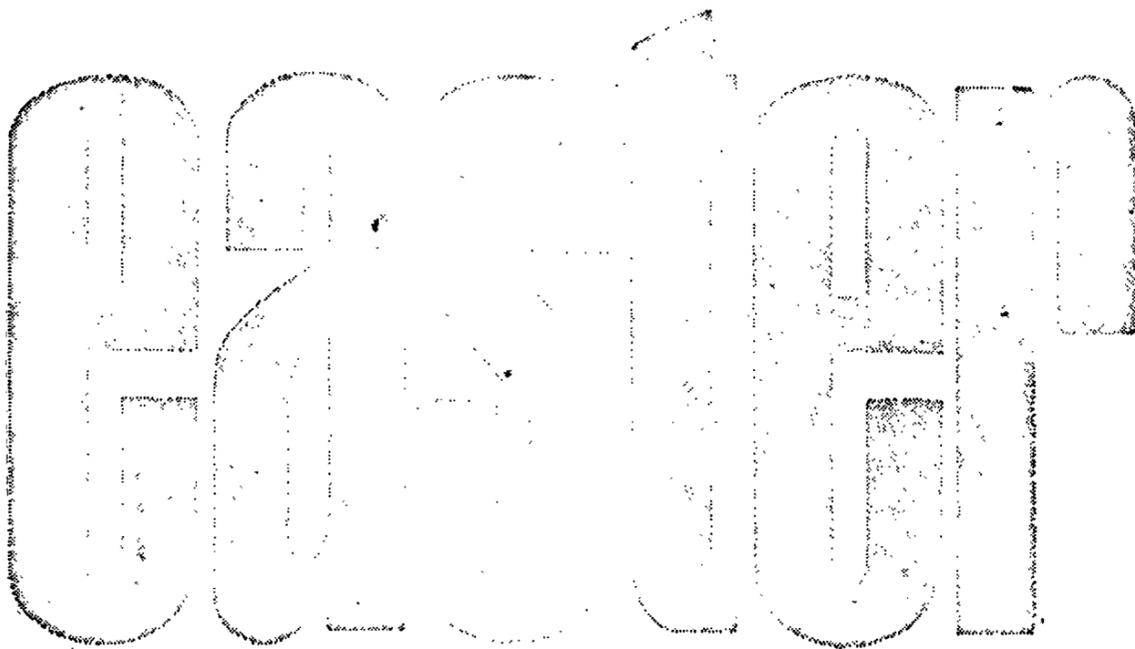
In charge of the team from Birmingham were Dr. Charles Spear and Nurse Gwynne Fisher.

Mrs. Glenn Bass is in charge of the Redstone Arsenal Gray Ladies who service the various Bloodmobile stations at each visit. Among her volunteers were the teenage daughters of many of her volunteers. The teenagers worked last summer during vacation and were on vacation from school last week. Mrs. F. L. Furphy is in charge of the Arsenal's overall volunteer program.

The Army Missile Command had the largest percentage of donors. The Military Plaque went to the 116th Ordnance Detachment from the Ordnance Guided Missile School. The 116th turned out 100 per cent.



**PIGGY-BACK PICKUP TRUCK SHIPMENT**—The first compact pickup truck rolls off the bi-level rail car from a shipment of new replacement vehicles which recently arrived at Redstone Arsenal. A total of 82 half-ton pickup trucks are scheduled to arrive at the Arsenal within the next few weeks. Forty-six vehicles were included in the first shipment. The pickup trucks are a part of routine Army procurement. It was the first time such a large shipment has arrived at Redstone Arsenal by bi-level rail car. The compact pickup trucks were purchased in keeping with Army policy to use vehicles wherever practical. The policy was formulated in an effort to reduce operating costs.



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REGISTER HERE for "G.H.V.D." PRIZES!

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