

**Arsenal-Wide  
Spot News  
Dial 877-2164**

# The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 4, 1963

**GEN. HERSHEY SAYS:**

## We Need Better Relationships With People...



**SELECTIVE SERVICE CHIEF AT REDSTONE**—Lt. Gen. Lewis B. Hershey, (second from left) Director of Selective Service, was welcomed to Redstone Arsenal Sunday by Brig. Gen. John G. Zierdt, Commanding General, Army Missile Command. Also on hand were Walter Eigenbrod (second from right) of the Hunts-

ville-Madison County Chamber of Commerce, and James Record (right) Chairman of the Madison Board of County Commissioners. Gen. Hershey addressed the opening session of the National Security Seminar Monday at the Rocket Auditorium. The 10-day Seminar is being conducted under sponsorship of the C of C.

"What we need today is a better relationship with people around us," Lt. Gen. Lewis B. Hershey, (Ret.), told a capacity crowd at Rocket Auditorium Monday at the opening of the National Security Seminar.

Gen. Hershey, Director of the Selective Service System, showed to good advantage his Indiana brand of home-spun humor.

"You know," he said, "there was a time when nations going to war would first declare war on each other and then go to it. But not anymore."

"Now with such things as 'cold war,' you never know whether you're at war or peace. And you can't depend on the other fellow to go by the rules. He might even attack on Sunday because he hasn't had the course."

Gen. Hershey was well-received by the overflow crowd of military and civilian personnel who poured in for opening ceremonies of the Defense Seminar. Scheduled to continue for two weeks, this is the first time this type of seminar has been held in Huntsville.

The Seminar is a broad presentation of facts concerning the national security. It is designed to increase general understanding of the need for cooperation and preparation in times of national danger.

These Seminars seek to inform and encourage application of the highest level of skill, intelligence and imagination of all citizens to the complex problems which must be solved if the nation's heritage of freedom is to be secure.

Civilians who attend 50 per cent or more of the lectures and forums are given a diploma.

About 200 military officers have been called to active duty for the course.

Prior to Gen. Hershey's opening address Monday, Brig. Gen. John G. Zierdt, Commanding General of (See GEN. HERSHEY on Page 2)

### Martec, Huntsville Given Motor Container Contract

The Army Missile Command last week awarded its first major contract for missile system hardware to a Huntsville firm.

Martec, Inc., of 2413 Governors Drive, N. W., received the award, a \$1,885,439 contract, to manufacture metal containers for rocket motors and guidance sections for the Army's Sergeant ballistic missile.

Martec won the contract in competition with more than 100 small businesses throughout the nation. The contract covers work to be performed by the company

through February, 1965.

The Missile Command and its elements at Redstone Arsenal spend approximately \$10 million annually in local procurements in the North Alabama area for goods and services, but the award to Martec is the first major buy of missile system hardware from a local firm.

Sergeant, a highly mobile ballistic missile, is operational with U. S. Army units in Europe. Management of the weapon system is directed by Col. J. Mort Loomis (See MARTEC on Page 3)

### Scout Round Up Is Saturday

Approximately two thousand Boy Scouts and their adult leaders will be guests of Redstone Arsenal on Saturday for the sixth Adventure Round Up, the annual climax to the recruiting campaign of the Tennessee Valley Council.

The Round Up is staged in conjunction with an awards ceremony that honors the boys who have recruited other youths for the scouting program.

Brig. Gen. Charles W. Eifler, Deputy Commanding General, Land Combat Systems, will welcome the Scouts to the Arsenal and Col. Thomas W. Cooke, Redstone Commander will serve as

the official host and preside over the awards ceremony.

Attending the Round Up will be Scouts and their adult leaders representing every Troop in the Tennessee Valley Council, comprising Northern Alabama and Southern Tennessee.

Their big day will start with an opening assembly in Building 7434 at 8 a.m. The 55th Army Band will play for the Assembly and General Eifler will speak briefly.

Following the assembly the Scouts will be divided into groups and escorted through a series of (See SCOUT on Page 3)

### Commissary Truck Driver Saves Phyllis Ann's Life

A commissary truck is usually a welcome sight anyhow to Army wives in housing areas scattered around sprawling Redstone Arsenal.

But for one family at 1210-A Nike Road, a particular truck driven by Clifford S. Dunson last week brought more than groceries—it brought life!

Dunson, a civilian employed by the Post Commissary, is credited with saving the life of Phyllis Ann Wozciechowski, 2, daughter of SFC and Mrs. Stanley Wozciechowski.

A quiet-spoken, but gregarious driver whom neighbors describe as one of the favorites of the "we deliver" set, Dunson minimized his part in the freakish mishap by drawing in his succinct manner:

"I was just glad I could help." According to Dunson, he was serving a customer near the Wozciechowski home last week when he noticed that blonde-haired Phyllis Ann had fallen over a name-tag sign. These signs, found in front of each house on the street to identify the occupants, are about two feet high.

"Her coat was hooked over a rod supporting the name tags in such a manner that her coat and the sign appeared to be strangling

her," Dunson recalled.

"All I did was to join the lady who was with me and we freed the little girl."

The witness, Mrs. Eloise Cambridge who lives near Phyllis Ann, was more profuse in praising Dunson's quick thinking and timely action.

"I think Phyllis would have been in serious trouble if he (Dunson) hadn't been so attentive," Mrs. Cambridge said. "She was trapped in such a way that she couldn't yell or tell us she was in trouble."

"It was a freakish accident that probably wouldn't happen again in a million years."

Dunson, who is married and has five children himself, left the scene without telling the parents or mentioning it to anyone. But Mrs. Cambridge told the little girl's mother, who in turn called the Commissary Officer to express her gratitude.

Both Sgt. and Mrs. Wozciechowski feel that Dunson's prompt action probably saved the life of Phyllis. Needless to say, there is one mobile annex that will always be welcomed at their home.

"If he ever wants a free cup of coffee, he knows where he can find it," the grateful parents offered a standing invitation.



**COLLECTS REWARD**—Clifford Dunson gets a hug from Phyllis Ann Wozciechowski, 2, whose life he is credited with saving after a freakish accident. Phyllis is the daughter of SFC and Mrs. Stanley Wozciechowski of 1210-A Nike Road, Redstone Arsenal. Dunson is a civilian employee of the Post Commissary.

### Gen. Beach Is Scheduled Here Today

Lt. Gen. Dwight E. Beach, Commanding General, U. S. Army Combat Developments Command at Ft. Belvoir, Va., is scheduled to touch down at Redstone Arsenal this morning.

Prime purpose of his tour will be to receive briefings on workload and projects of the Missile Support Division of the CDC Ordnance Agency headed by Lt. Col. William M. Paris. He will also tour facilities and meet personnel of the Missile Support Division.

Following a meeting with Col. W. J. Macpherson, Commandant of the Ordnance Guided Missile School, Gen. Beach will meet with Brig. Gen. John G. Zierdt, Commanding General of the Army Missile Command.

This includes meeting the CDC Liaison Officer to the Army Missile Command, Lt. Col. Robert M. Pearce, who will join the group meeting with Gen. Zierdt.

Gen. Beach will leave Redstone Arsenal Airfield at noon to continue his tour of CDC facilities elsewhere.

# 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

"Here in this Assembly, reposes the best—perhaps the last—hope for the peaceful survival of mankind."  
—Ethiopian Emperor Haile Selassie addressing the UN General Assembly.

## Incentive Awards—Armywide

To provide impetus to the Army Cost Reduction Program, a special Suggestion plan competition has been inaugurated by the Department of the Army to encourage military and civilian personnel to submit suggestions offering solutions to problems related to their immediate work areas.

The three most beneficial suggestions submitted and adopted during the year-long period ending in June, 1964—as judged by the Army Incentive Awards Board—will receive special recognition from the Secretary of the Army.

Everyone has a chance. Send your suggestions to the Incentive Awards Board, Building T-3151.

Praiseworthy suggestions will be forwarded to higher headquarters for consideration by the Awards Board. In this case it doesn't pay to keep your cost reduction ideas to yourself.

## Lt. Powell Heads School Company

Lt. William D. Powell assumed command of Hq and Hq Company, STC, OGMS, last Tuesday.

He is replacing Lt. Burt R. Mann who will attend the Ordnance Guided Missile Officer (Air Defense Missile) course at OGMS. Lt. Powell is the former Commanding Officer of the 2nd ETC.

Powell entered the Army in June of 1961 and received his basic training at Aberdeen Proving Grounds, Md. He is a 1960 graduate of Western Kentucky State

## GEN. HERSHEY

(Continued From Page 1)

the Army Missile Command, welcomed visitors and friends.

"The Army Missile Command is happy to cooperate with the Industrial College of the Armed Forces and the Huntsville-Madison County Chamber of Commerce in this outstanding program," Gen. Zierdt said.

"Since we here at Redstone Arsenal have an important role in helping to assure the nation's security, we feel it most appropriate that class sessions be held on this installation."

Also welcoming the group were Huntsville Mayor, R. B. Searcy; James Record, chairman, Board of Commissioners of Madison County; and James D. Thornton, president Huntsville-Madison County Chamber of Commerce.

Walter F. Eigenbrod, chairman of the C of C Planning Committee, introduced distinguished guests.

College. Prior to entering the service in June, 1961, he was employed as a high school teacher in Vine Grove, Ky.

## Raytheon Given More Hawk Work For Fixed-Price

Two fixed-price incentive contracts totaling \$31,829,641 have been awarded for work on the Hawk missile system, the Army announced. The Raytheon Company, Lexington, Mass., received the awards.

These contracts are designed with an incentive for the contractor to reduce costs of the missile work. The contractor and the government would share the savings that result.

The larger of the two, a \$30,736,349 award, will cover production of Hawk guidance and control systems. The work will be done at company plants in Andover, Mass., and Bristol, Tenn.

The second award for \$1,093,292 will fund continued production of ground support equipment for the Hawk. Work under this contract will be performed at Andover, Waltham and North Dighton, Mass., and Bristol, Tenn., company plants.

The Hawk air defense missile system is transportable and capable of maintaining high rate of fire against high performance aircraft or air-breathing missiles at low altitudes. The first Hawk missile battalion was activated in 1959. Hawk is also operational with U. S. Marine Corps units.

The Hawk program is managed from headquarters at the Army Missile Command, Redstone Arsenal. Col. Charles R. Graham is the Hawk Project Manager.

## Sen. Mansfield's Eulogy

WASHINGTON (AP)—Following is the text of a tribute to the late President Kennedy delivered by Sen. Mike Mansfield, D-Mont., Sunday:

There was a sound of laughter; in a moment, it was no more. And so, she took a ring from her finger and placed it in his hands.

There was a wit in a man neither young nor old; but a wit full of an old man's wisdom and of a child's wisdom, and, then, in a moment, it was no more. And, so she took a ring from her finger and placed it in his hands.

There was a man marked with the scars of his love of country, a body active with the surge of a life far, far from spent and, in a moment, it was no more. And so, she took a ring from her finger and placed it in his hands.

There was a father with a little boy, a little girl and a joy of each in the other. In a moment it was no more, and so she took a ring from her finger and placed it in his hands.

There was a husband who asked much and gave much, and, out of the giving and the asking, wove with a woman what could not be broken in life, and in a moment it was no more. And so, she took a ring from her finger and placed it in his hands, and kissed him and closed the lid on a coffin.

A piece of each of us died at that moment. Yet, in death he gave of himself to us. He gave us of a good heart from which the laughter came. He gave us of a profound wit, from which a great leadership emerged. He gave us of a kindness and a strength fused into a human courage to seek peace without fear.

He gave us of his love that we, too, in turn, might give. He gave that he might give of ourselves, what he might give to one another until there would be no room, no room at all, for the bigotry, the hatred, prejudice and the arrogance which converged in that moment of horror to strike him down.

In leaving us—these gifts, John Fitzgerald Kennedy, President of the United States, leaves with us. Will we take them, Mr. President? Will we have, now, the sense and the responsibility and the courage to take them?

I pray to God that we shall and under God we will.

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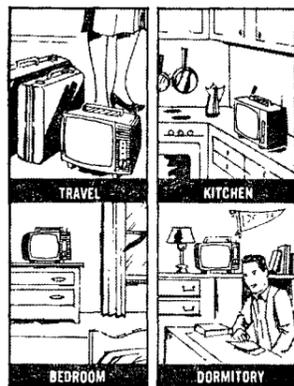
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# UGF Wrap-up Is Almost Completed

Twenty-six county and city United Givers Funds in Northern Alabama and Southern Tennessee are sharing in the break out of over \$200,000 raised at Redstone Arsenal in the 1963 United Givers Fund.

The campaign closed in mid-November with a final unofficial total of \$206,112 pledged. Al LaGrone, Finance and Reports Chairman, stated that the final validation of funds would require up to two weeks.

Approximately eight per cent of the amount collected has been dispatched to the receiving organizations. The balances on deposit at the First National Bank of Huntsville will be forwarded as soon as the final total is validated.

The Huntsville-Madison County UGF will receive the greatest individual amount with over \$170,000 having been designated for that agency by Arsenal contributors.

Morgan County (Decatur) will

UGF ALLOCATIONS	
Huntsville-Madison County	\$172,474.38
Morgan County	8,250.78
Athens-Limestone County	6,239.13
Arab	4,892.94
Lincoln County, Tenn.	3,849.81
Guntersville	1,934.46
Jackson County	1,469.66
Albertville	1,104.75
Cullman County	877.05
Lauderdale County	530.50
Blount County	307.25
Bedford County, Tenn.	103.00
Jasper County	111.50
Colbert County	80.50
Mufreesboro, Tenn.	73.00
Cleveland, Tenn.	40.25
Miscellaneous	2662.00



**YOU SURE IT'S GONNA FLY?**—Major Bryan Fegan, Royal Australian Signals, Technical Advisor (left), and Capt. Don Stotser, U. S. Army Project Officer (second from left) direct members of the 125th Signal Battalion, 25th Infantry Division as they launch an experimental balloon. The launching is to test the use of the balloon as a giant antenna to increase the overall efficiency of FM radio sets. Captain Stotser's hometown is Lawrenceburg, Tenn. He is currently assigned to the Limited War Laboratory, Aberdeen Proving Ground, Md.

## Capt. Ennis Is Honor Grad

Captain Harry F. Ennis, of the Supply and Maintenance Directorate, was cited as the Honor Graduate at recent graduation ceremonies for Class 14 of the Basic Airborne Course, conducted at Ft. Benning, Ga.

In addition to winning his parachutists' wings, Capt. Ennis was presented an Airborne trophy bearing the inscription, "For Outstanding Leadership."

Lt. Col. John Lissner, Commanding Officer of the 4th Student Battalion, in making the presentation, congratulated Capt. Ennis

on his enthusiasm, aggressiveness, attention to detail and professional bearing.

The Missile Command officer was assigned as Platoon Leader within the 4th Battalion for the training and competed with 200 other commissioned officers for the coveted award.

Capt. Ennis has received overseas orders and will be assigned to the 71st Ordnance Group, stationed in Songhwan-ni, Korea.

receive the second largest amount, almost \$8,250 and the Athens-Limestone County UGF will receive approximately \$6,250.

Other Alabama UGFs receiving over \$1,000 are Arab, Guntersville, Albertville and Jackson County. The only organization in Tennessee to receive more than \$1,000 is Lincoln County (Fayetteville).

Most leaves turn gold in the autumn, but the dearest season to an Army Major's heart is when the gold leaves turn silver.

James D. Donnelly recently had the silver leaves of a Lieutenant Colonel pinned on by his wife, Nancy, and Col. D. F. Shepherd, Director of Research and Development for the Army Missile Command.

Col. Donnelly is laboratory representative for the Mauler and Shillelagh missile systems in the Electromagnetic Laboratory.

Wallace H. Hastings, Jr., traded his captain's bars for the gold leaves of a major. The change was being made by Col. John T. O'Keefe, chief of the Development Division in the Army Missile Command's Directorate of Research and Development.

Hastings is chief of the Close Support Section in the Future Missile Systems Division, which helps determine the type of future missiles planned for close support of the Field Soldier.

Steverding spoke to the group at a recent meeting held at Frankford Arsenal in Philadelphia, telling some of the advantages and disadvantages of different types of ablative material.

Steverding is assigned to the Directorate's Physical Science Laboratory, and has been engaged in research and development work

## Monument Honors George S. Patton

BRUSSELS (AFPS) — A monument has been unveiled in Bastogne honoring the late Gen. George S. Patton Jr.

The \$60,000 monument was unveiled by Army Lt. John Waters, a grandson of the general.

Patton and his troops played a vital role at Bastogne during the Battle of the Bulge in 1944.

## SCOUT

(Continued From Page 1)

displays and exhibits that have been especially constructed to depict activity at the Arsenal and the mission of various Reserve units in the area.

The displays were prepared by the Army Missile Command, Missile Support Command, Ordnance Guided Missile School, 326th Chemical Company (Reserves), the 279th Signal Battalion (Reserves) and the 20th Special Forces Group (National Guard).

The Scouts will be reassembled at noon for the awards ceremony. Each Scout who signed up one or more boys for scouting during the drive will be given an attractive shoulder patch commemorating the event.

Col. Cooke will present the special awards to the individual scouts and units that achieved the greatest success in the recruiting program.

Capt. Farley Thompson is the Project Officer for the event and Maj. Arlen McNeil, Secretary to the General Staff, will serve as master of ceremonies.

## Ablation Discussed At Ceramics Meet

Dr. Bernard J. Steverding, a research physical scientist in the Army Missile Command's Directorate of Research and Development, told members of the American Ceramic Society that ablative materials should not be limited to those that pass directly from solid to vapor state.

Ablation is a cooling process used in some high-speed missiles which become superheated from air friction. Outer portions of the ablative material are sloughed away, creating a cooling effect on the missile and remaining material.

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Steverding is assigned to the Directorate's Physical Science Laboratory, and has been engaged in research and development work

## MARTEC

(Continued From Page 1)

and his project staff at the Missile Command.

The containers protect the missile components in storage and transit. Sergeant components remain in them until the missile is assembled for launch at a firing site. The containers include electrical connections so that the missile components can be tested without being removed from the containers.

## Repairmen Get Diplomas

Sixteen graduates of radar and computer repair courses at the Ordnance Guided Missile School, Redstone Arsenal, Ala., were told Friday that they must dedicate themselves to keeping up with the rapid changes in the missile field—especially in the area of electronic computers—because of the remarkably swift advances being made in that field.

Lt. Raymond D. Powell, chief of the Guidance and Computer Branch of the New Missile Components Division, reminded the students from the United States, Belgium and Turkey that this was "the beginning, not the end of their responsibility."

Sgt. Romain N. de Keyzer of Belgium was awarded the certificate as the honor graduate in the Hawk radar repair course and PFC David V. Harvey Jr., was named honor graduate in the Nike acquisition radar and computer repair course.

## SPEED LIMIT CHANGED

The Provost Marshal, Col. William Luk, announced that beginning Friday, Dec. 6, the speed limit on Patton Road from Gate One to Bob Wallace Avenue will be 40 miles an hour.

The change is necessary, the Colonel said, because traffic has increased with the new entries from side roads. Accident incidence has increased proportionately.

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# Voters Will Decide School Taxes At Polls December 10

When balloting on Dec. 10, qualified Alabama voters among employees at Redstone Arsenal will find two state constitutional amendments of immediate concern to them—one to Alabama voters in general and one to Huntsville residents in particular.

Approximately one half of the civilian work force at the missile command resides in Huntsville. To these persons, and to those military persons with children in the Huntsville school systems, Amendment 9 will be of interest because it deals with procedures to levy additional school tax which will be used to construct facilities. The text of the proclamation is as follows.

"Section 1. In addition to any taxes now authorized, or that may be hereafter authorized, by the Constitution and laws of Alabama, there is hereby levied a special school tax of fifty cents on each one hundred dollars worth of taxable property in the school Tax District of the City of Huntsville in Madison County to be used solely for public school purposes; provided the levy of said tax shall first have been approved by the qualified electors of the School District as hereinafter provided.

"Section 2. The proceeds of said tax shall be used exclusively for constructing and improving school buildings and acquiring sites therefor in the School Tax District of the City of Huntsville,

"Section 3. In the event this amendment is approved and a majority of the qualified electors of the City of Huntsville who vote thereon vote in favor of the adoption of this amendment when it is submitted, the additional tax provided for in Section 1 shall be levied and collected for a period of thirty years without any other election having been held hereon.

In the event this amendment is approved and a majority of the qualified electors of the School Tax District of the City of Hunts-

ville who vote thereon against its approval, the tax shall not be levied unless the rate of the tax, the time it is to continue and the purpose thereof shall have been again submitted to a vote of the qualified electors of the School Tax District of the City of Huntsville and voted for by a majority of those voting at the election.

Subsequent elections may be held at intervals of not less than one year and shall be called, held, conducted, paid for, and governed otherwise in the manner provided for an election on the school district tax authorized in Constitutional Amendment III."

Also, of interest to all Alabama voters is a proposed change in voting qualifications through Amendment 3. The text of the proclamation is as follows:

Section 181. The following persons and no others who, if they are citizens of the United States over the age of twenty-one years and have the qualifications as to residence prescribed in Section 178 of this article, shall be qualified to register as electors provided they shall not be disqualified under Section 182 of this constitution; those who can read and write any article of the constitution of the United States in the English language which may be submitted to them by the board of registrars, provided, however, no persons shall be entitled to register as electors except those who are of good character and who embrace the duties and obligations of citizenship under the constitution of the United States and under the Constitution of the State of Alabama, and provided further, that in order to aid the members of the boards of registrars, who are hereby constituted and declared to be judicial officers, to judicially determine if applicants to register have the qualifications hereinabove set out, each applicant shall be furnished by the board of registrars a written application form and a sealed examina-

# Army Brings Out Spectators



**OF BOYS AND MEN**—Sp4 Thomas Diggs and PFC James Biese appear to be the center of attraction to a swarm of German boys during operation BIG LIFT. During the maneuver, interested spectators became as commonplace as the soldiers themselves. This scene was taken in Muehlbach, Germany. Specialist Diggs is from Newark, N.J. Private Biese is from Kaukauna, Wis. (Photo Courtesy Stars and Stripes, Europe.)

tion, which shall be uniform in all cases with no discrimination as between applicants.

The form and contents of such application form and sealed examination shall be prescribed by a state board of examiners for voter registration to be appointed by the Legislative Council of Alabama, which application shall be so worded that the answers thereto will place before the board of registrars information necessary or proper to aid them to pass upon the qualifications of each applicant, and which examination shall be graded by the state board of examiners for voter registration which must certify to the several boards of registrars of the state whether or not each applicant, who shall be designated by number only, has passed or has not passed the examination.

The examination shall be provided and shall be administered as provided for by the legislature. Provided, in no event shall the intelligence level required of the applicant for registration be less than that required to serve as a member of the armed forces of the United States as determined by written examination.

The application shall be answered in writing by the applicant in the presence of the board without assistance, and there shall be incorporated in such answer an oath to support and defend the constitution of the United States and the constitution of the State of Alabama and a statement in such oath by the applicant disavowing belief in or affiliation at any time with any group or party which advocated the overthrow of the government of the United States or the State of Alabama by unlawful means, which answers and oath shall be signed and sworn to by the applicant before a member of the county board of registrars. Such application and written answers of the applicant thereto shall be filed with the records of

the respective boards of registrars and such examination shall be filed with the records of the state board of examiners.

The board may receive information respecting the applicant and the truthfulness of any information furnished by him, Provided further, that if solely because of physical handicaps the applicant is unable to read or write, then he shall be exempt from the above stated requirements which he is unable to meet because of such physical handicap, and in such cases a member of the board of registrars shall read to the applicant the questionnaire and oaths herein provided for and the applicant's answers thereto shall be written down by such board member, and the applicant shall be registered as a voter if he meets all other requirements herein set out."

Employees who reside in Mar-

shall County will also be interested in Amendment six which states: "The Legislature may, by general or local laws, fix, alter, and regulate the costs and charges of court and the fees, commission, percentages, allowances, and salaries, including the method or basis of their compensation, to be charged or received by the judge of probate, sheriff circuit clerk, registrar of the circuit court, tax assessor, tax collector, or any other officer of Marshall County, and may place any of such officers on a salary and provide that the fees, commissions, percentages, and allowances collected by such officer shall be paid into the county treasury from which their salaries shall be paid. The compensation of such officers shall not be increased or diminished during their terms."

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With Ham, Bacon or Sausage  
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With Ham, Bacon or Sausage  
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# Spectrum Guides Chemist To New Propellants

A soldier in the Army Missile Command's Directorate of Research and Development uses beams of light to determine what certain molecules look like.

Sp4 Miles Turner is a chemist in the Optical Spectroscopy Branch of the Physical Science Laboratory. He works with a team of civilian scientists to analyze compounds which may one day be used as a fuel to send an Army missile thundering into the sky.

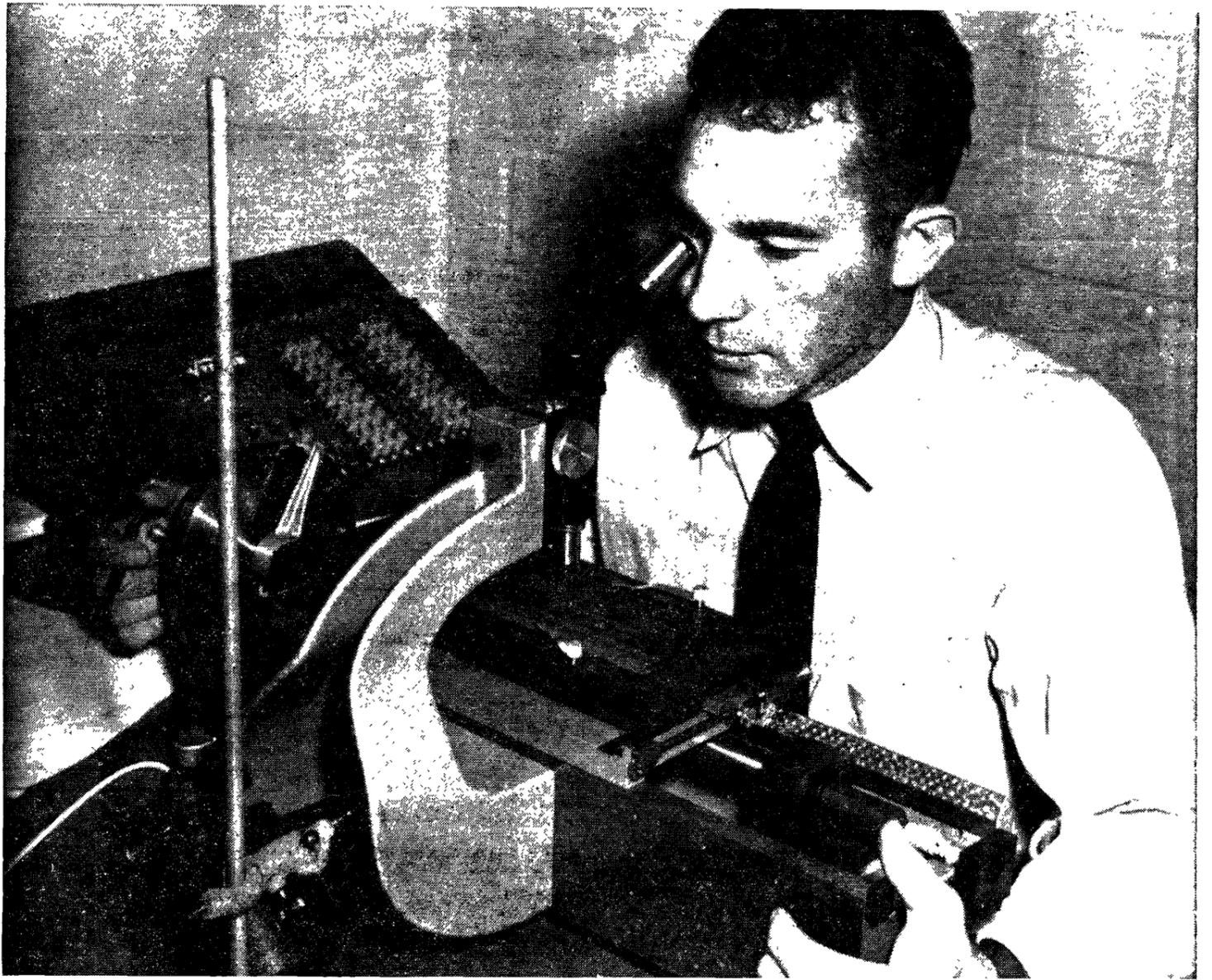
The major item in Turner's "tool kit" is a Spectrograph which covers almost 100 square feet in the laboratory. The spectrograph uses an intense light source, six mirrors, a diffraction grating and a photographic plate to record molecular absorption and emission spectra.

Turner and his teammates never actually look at a molecule, but by analyzing results from the spectrograph, they can construct an exact large-scale model of the molecule being studied.

A sample of the compound to be analyzed is placed in a glass vacuum cell. Light is passed back and forth through the substance by a series of mirrors, and part of the light is absorbed by the molecules. The unabsorbed light then is reflected from a diffraction grating and on to a photographic plate.

The molecules of different substances absorb light in different amounts and in a different manner. A study of the patterns of light on the photographic plate tells the researcher exactly how the atoms are arranged to make up the molecule.

Turner most frequently teams up with chemist Larry Robertson in analyzing compounds selected by Dr. James A. Merritt, chief of the Optical Spectroscopy Branch. The spectrograph may be used for



**HIGH-POWERED ANALYSIS**—Sp4 Miles Turner, a chemist for the past 14 months with the Army Missile Command's Directorate of Research and Development, studies photographic evidence

from a spectrography which indicates the structure and behavior of molecules. The device is a comparator, which makes precise measurements of light patterns on a photographic plate.

solids, liquids, or gases. After the air is removed from the specimen cell, both solids and liquids release molecules which float around the cell to be exposed to the beams of light.

Turner's work is labeled basic research. Much of the analyses is made of likely missile propellants. Results might show that certain substances could be used successfully as a rocket propellant before an actual test firing is ever made. These findings are turned over to scientists in the Propulsion Laboratory, who combine it with their own research results to design rocket motors for the Army's missiles.

In a recently-assigned task, Turner will work with Chemist Ron Mitchell and Electronic Technician Don Green in determining the characteristic emission spectrum

of an experimental solid propellant furnished by the Propulsion Laboratory.

A native of Taft, California, Turner received his BA degree in Physical Science from Chico State College, Chico, Calif., in 1961, and has spent the last 14 months in the Army. He had just begun teaching mathematics and science at Cambria Junior High School,

Cambria, Calif., before entering the service.

The Redstone Rocket — December 4, 1963

Page 5



Mike Jones

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# Scoreboard

**BASKETBALL RESULTS**  
November 20

B Co. STC	50
291st M. P.	55
184th Ord. Det.	51
Hq. Co. UTC	26
Hq. AMSC	52
Allied	10

November 27

Officers	60
Hq. STC	42
C Co. STC	67
German Det.	16
1st ETC	61
A Co. STC	34

**BASKETBALL LEAGUE STANDINGS**  
American League

	Won	Lost	Pct.
Officers	2	0	1000
1st ETC	2	0	1000
Hq. STC	1	1	500
C Co. STC	1	1	500
A Co. STC	0	2	500
German Det.	0	2	000

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**National League**

	Won	Lost	Pct.
291st M. P.	1	0	1000
Hq. AMSC	1	0	1000
184th Ord. Det.	1	0	1000
Allied	0	1	1000
E Co. STC	0	1	1000
Hq. UTC	0	1	1000

The games that were to be played on Nov. 22 and Nov. 25, which were cancelled, will be made-up on Dec. 11 and Dec. 13.

**SATURN BOOSTER LEAGUE "A" DIVISION**

Team	Won	Lost
Black Forest Lounge	39	9
Spaco	28	20
Lockheed (RIFF)	28	20
Martin Company, Mfg. Div.	25	23
Hilding Holmberg	25	23
Hayes Top Seven	25	23
Hall's "66" Serv. Sta.	24	24
Republic Aviation Corp.	22	26
Garrett Airesearch Corp.	22	26
Brunson Instruments	22	26
C. W. Stewart Machinery	15	33
Hayes Ex-Cons	13	35

200 GAMES:  
Lynch, 202; Foster, 203; Simms, 235.

**"B" DIVISION**

Team	Won	Lost
Redstone Fed. Credit	34	14
Pin Palace Lanes	31	17
Arrowhead Products	31	17
Norris-Riddle Furn. Mart	28	20
All Sports Trophies	26	22
Modern Machinery	22	26
Redstone Mach. & Tool	22	26
RCA	22	26
Terry Heights Cleaners	20	28
Hayes Designers	19	29
Progressive Welders	18	30
Reba's Bowling Apparel	16	32

200 GAMES:  
Clark, 200; Meadows, 201; Hicklin, 201; Williamon, 203; Chambers, 203; Cizek, 204; Fuqua, 205; Doak, 210; Bowling, 211; Mallory, 217; Francis, 220, 223; Mosser, 222; Davis, 267.

600 SERIES:  
Francis, 220, 223, 158-601  
Davis, 186, 185, 267-638

SPLITS:  
Ford-6-7-10.

# Voting Leave Controlled By Open Polls

Army employees at Redstone Arsenal who are qualified Alabama voters can obtain voting leave under certain conditions to ballot in the state-wide voting next Tuesday. The vote concerns amendments to the state constitution.

Installation Operating Procedure 690-7 stipulates that where the polls are not opened at least three hours before or after an employee's regular hours of work, he will be granted an amount of excused leave which will permit him to report to work three hours after the polls open or leave work three hours before polls close, whichever requires the least amount of time off.

As an example, the Madison County polls open at 8:00 a.m. and close at 6:30 p.m. If an employee's work hours are 8:00 a.m. to 4:30 p.m., he may be excused at 3:30 p.m. as this will allow him three hours before polls close. If the eligible voter were to make application for leave in excess of that amount of time off, the excess would be charged to annual leave.

Poll hours throughout Madison County will be as in the example above. In the city of Decatur poll hours will be from 8:00 a.m. to 6:00 p.m. Marshall County, and places with voting machines, will have polls open from 8:00 a.m. to 6:00 p.m. All other counties and towns in the area will carry poll hours from 8:00 a.m. to 5:00 p.m.

Responsibility for scheduling and determining the amount of voting leave to be accorded each employee rests with the supervisor, as outlined in the Procedure. It further states that voting leave will be granted insofar as practicable without seriously interfering with operations. Special or unusual cases should be referred to the personnel management assistant assigned to the organization.



**BEST MESS AWARD**—M/Sgt. William D. Welch, mess steward of Consolidated Mess No. 2, STC, receives the "Best Mess" award for October from OGMS Commandant, Col. William J. Macpherson. OGMS mess officer, Lt. Robert B. Green, looks on.

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### 1963 FALCON

2-Door Sedan. Radio, heater, 11,000 miles. Will take less than \$1499.00.

### 1962 FORD GALAXIE

2-door sedan, 6 cyl., stick shift, radio, heater, one owner, low mileage. new condition, new tires. Will take less than \$1595.

### 1959 CADILLAC SEDAN DeVILLE

4 dr. hardtop, factory air condition, yellow finish, extra clean. Wonderful bargain. Will take less than \$2599.00.

### 1962 CADILLAC

4 door hardtop, black, full power, factory air, low mileage. Like new. Will take less than \$4199.00.

### 1959 TR-3

Convertible, white with blue interior. Will take less than \$899.00.

### 1961 VALIANT

2-Door Hardtop. Black with red interior. Auto., radio & heater. Will take less than \$1299.00.

### 1963 IMPALA

4 dr. sedan, 3,000 actual miles, power steering and brakes. 6 cyl. Will take less than \$2590.

### 1961 CORVAIR MONZA

Cpe. 4-speed trans., red with red leather interior. Low mileage, like new, fully equipped. Will take less than \$1599.00.

### 1961 COMET

4-dr., stick shift, radio & heater. Will take less than \$1199.00.

### 1961 BEL-AIR

6 cyl., auto., radio, heater, 32,000 miles. Like new. Will take less than \$1599.00.

### 1962 VOLKSWAGEN

Sedan with sunroof, low mileage, extra clean. Will take less than \$1499.00.

### 1963 DODGE

4-Door Sedan "Palara", white with beige interior, factory air condition, radio, heater, full power, 9,000 miles, spare tire never down. Has factory warranty. Will take less than \$2599.00.

### 1962 FORD

3/4 ton pickup. Long wheel base, extra clean. Will take less than \$1499.00.

### 1960 OLDS

2 door "98" Hardtop cpe. Power, full inc. seats and windows. Black, like new. Will take less than \$1799.00.

### 1959 PLYMOUTH

4 door sedan, 6 cyl., auto., power steering. White with red interior. Sharp. Will take less than \$899.00.

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Before the Army Missile Command rates a material "Grade A" for missile use, it has to be tortured until it cracks up.

If the material doesn't prove it can take the ordeal of supersonic speeds and the heat of a rocket blast, chances are that it will never get off the ground.

To find out how well a material will stand up under the rigors of flight the Missile Command's Directorate of Research and Development has a universal testing machine that flexes its muscles according to a script.

Given the word, it can rip a steel bolt apart in less than two seconds and bathe a specimen in flame hot enough to vaporize metal.

The script this tester works from is a set of mathematical curves that tell what stress, strain and heat a missile part goes through during liftoff and flight. The tester can perform its destruction on any type of material from insulation and ablative coatings to samples of a missile's metal skin.

These curves are fed into the machine in much the same manner that a pattern is set up on a weaver's loom. The operator moves small pegs on a control board until they duplicate the curve. It may be a complicated curve telling the exact strain on a part each moment from liftoff to end of flight.

With only 25,000 pounds of pull (enough to lift 10 compact cars)

the universal tester is a real lightweight by some standards. Many others go up to 3,000,000 pounds. But what makes it unique is that it has an extremely fast strain rate, also temperature, stress and strain can be programmed.

Bill McClane, a young engineer who wears the badge of the researcher — a knee-length white coat—is the master of the complex machine. He has just finished overseeing the installation of a new type heater called an electron beam furnace which will increase the tester's capabilities.

For one thing, the researchers are more interested in how fast heat can be applied and how well it can be controlled rather than just how hot they can get things. Many testers generate high temperatures in a specimen by passing a huge electrical current through it. This limits them to testing only those materials which would conduct electricity. And, the clamps which connected the current leads to the specimen have to be water cooled.

Now, with the electron beam furnace, it can test anything, even insulation, because the heat comes from an external source. This source is an electrical discharge. The heating is done by a stream of electrons that are blasted out by the discharge at speeds approaching that of light. Completely invisible, these electrons heat up the specimen when they strike it.

The experiment takes place in a heavy steel vacuum chamber with thick glass portholes.

By using the universal tester the Missile Command takes much of the guess work out of finding a suitable new material for missiles. Since the tester simulates very closely the actual stresses and strains generated in a missile during flight, it would theoretically be possible for McClane to run a test of a specimen and then call up a missile maker and say "I predict that if you use such-and-such a material in your motor you'll get one heck of a blast at six sec-

onds after liftoff."

But, best of all, using the tester beats using the trial and error method of firing an expensive missile just to see how well a new material will stand up.



AT MARLY LE ROI — Maj. James R. Butterworth, assigned in the NATO-Hawk Liaison in France, makes a Churchillian "V" for victory sign. Maj. Butterworth went to the French post from an assignment at the Army Ordnance Missile Command. Last week he visited the Army Missile Command which he represents in the NATO office.

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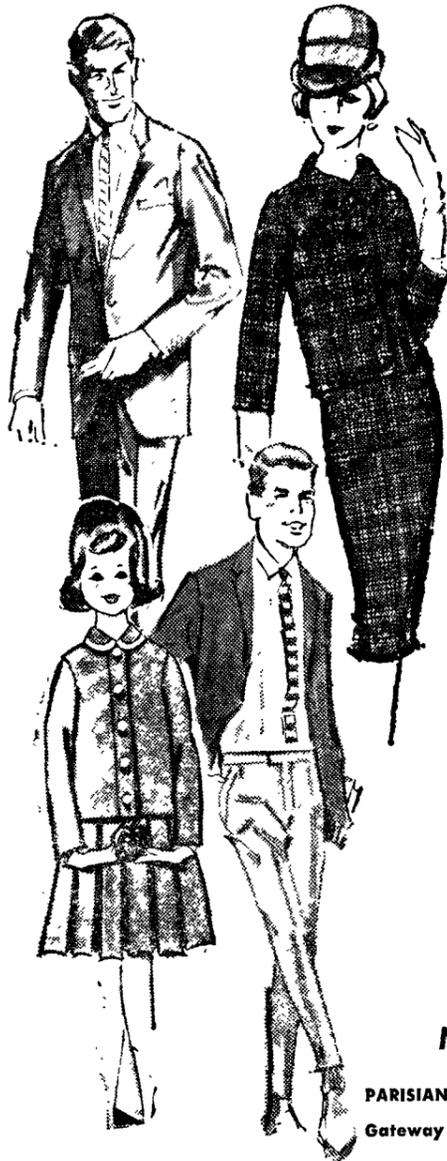
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# Employment Opportunities Conference Held At AMC

Two representatives from the Army Missile Command attended a one-day conference at Army Materiel Command covering employment opportunities. They were Jack McConaha, Missile Command Personnel Officer, and William R. Hay, Deputy Employment Policy Officer.

Among the speakers was Roy Davenport, Deputy Under-Secretary of the Army for Personnel Management, who said in the key address:

"Nothing should stand in the way of obtaining the greatest possible individual contributions to the Army Effort. We must assure opportunity for qualified individuals of minority groups so that personnel are not under utilized. Whether approached from a moral or economic point of view it is good business for the Army to attract and retain the best available talent without regard to race, creed or national origin."

McConaha told the conference that employment of minority-group applicants in professional fields within the Missile Command had been achieved with increasing

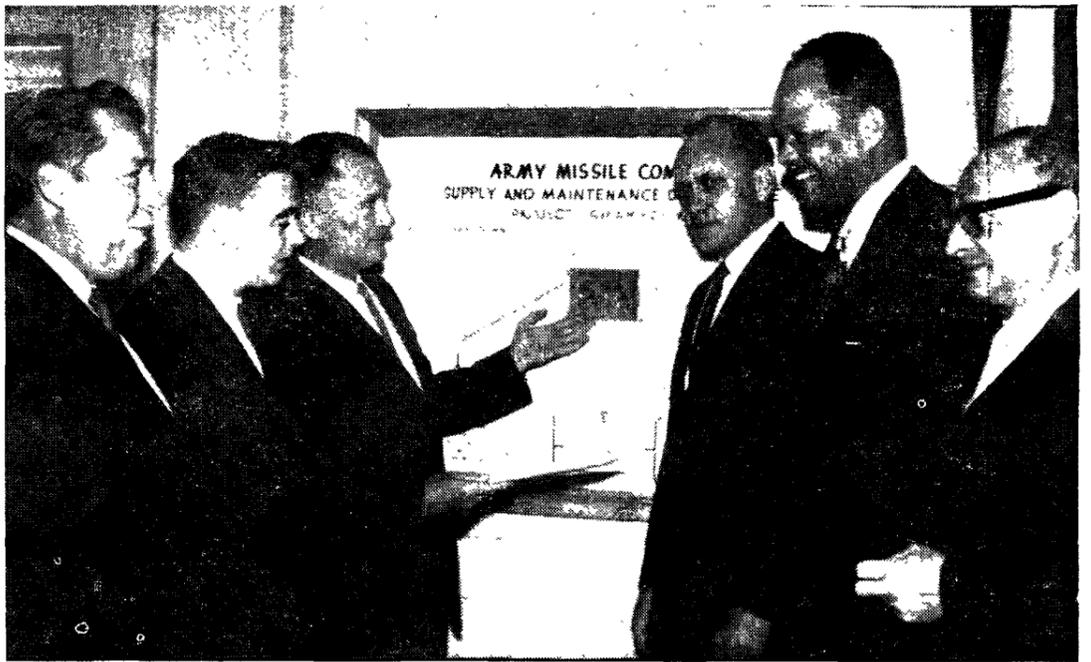
success. Appointments to electrical engineer, librarian, staff nurse, supply commodity management officer, and accountant positions were cited.

McConaha reported that a large number of Civil Service registers had been expired in recent months, in order that new announcements could be issued as needed. The new announcements, he said, will be accorded the widest possible distribution and publicity, so all interested applicants, including minority-group members, will have an opportunity to compete for announced positions.

He stated that minority-group employees participate in the Summer student program, and communication has been established with Negro educational institutions in the area to apprise them of recruitment and placement opportunities.

Hay reported on the progress of the Supervisory Training Course in Equal Employment Opportunity, developed and conducted jointly by the Command Deputy Employment Policy Officer and the Civilian Personnel Office, Army Missile Support Command, which is being given this Fall to all first-line supervisors and middle managers within the Army complex at Redstone Arsenal.

As of the date of the AMC Conference, almost 1200 supervisory and managerial employees had completed the three-hour course at the Missile Command. Hay observed that response to the course had been encouraging and that he discerned a wholehearted attitude toward making Equal Employment Opportunity a meaningful program at this Command.



**PROJECT SHAKEDOWN MEETING** — Officials recently met at the Army Missile Command to discuss Project Shakedown, a program aimed at maximum utilization and control of military supplies. The program, under the Department of Defense, is administered by the Defense Supply Agency in Washington, D.C. At right is John Norton and Thomas Rooney, both of the Army Electronics Command at Fort Monmouth, N.J.; Joe C. Cleere, of the Missile Command's Directorate of Supply and Maintenance; Donald C. Slauch, the Army representative on the Shakedown steering committee; Romuel B. Jackson, of the Electronics Materiel Agency in Philadelphia; and Morris Chernow, of the Electronics Command. It was the first meeting among officials who handle the Project Shakedown for the Department of Defense. Costa E. Apostolakis is the Missile Command Project Shakedown officer.

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## At The Service Club

By: Brenda Hanson

The last part of 1963 is flying by!

It reminds me of a line from an old song, . . . "and the days dwindle down to a precious few" . . . but I don't want to get ahead of myself.

We still have one more month ahead of us before we wave goodbye to 1963. You might make this resolution a month ahead of time. Resolve to use the Service Club this month.

We have curtailed our activities in respect and homage to the late President Kennedy. The club will remain open for its regular hours. Much of the regular program has been cut until the period of mourning ends.

### TEA CANCELLED

The Redstone Arsenal Officers Wives Club has cancelled the annual Christmas tea, originally scheduled for Tuesday at the Squirrel Hill Officers Club.

Cancellation was prompted by the 30-day mourning period for the untimely death of President Kennedy at all Government establishments.

### SODALITY TO MEET

All Catholic women in the area have been invited by the Sodality at Redstone Arsenal to attend Mass with the Sodality at 9 a.m. Friday.

The Mass will be followed by a buffet luncheon at the Chapel.

Nursery reservations deadline is tomorrow.

### OPENINGS ANNOUNCED

The U. S. Board of Civil Service Examiners has announced openings in three fields of endeavor.

Announcement No. AT-35-13(63) calls for electronic fire control systems installer and repairer with grades ranging from W-8,

\$2.52 an hour, to W-14, \$3.56 an hour.

Announcement No. AT-35-14(63) is for a dental assistant at GS-3, \$3820 a year.

Announcement No. AT-35-15(63) is for W-10 (\$2.86 an hour) electricians.

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**RECEIVES WARRANT**—Being congratulated by Col. William J. Macpherson, Commandant of the OGMS, is William O. Hutson, who received his Warrant Officer bars in the Commandant's office recently. Mrs. Hutson looks on approvingly. Hutson, a native of McComb, Mississippi, is attached to Hq & Hq Co, UTC, as a Hawk missile systems maintenance supervisor.

### Hummingbird Makes First Vertical To Horizontal Transition In Army Test

A fixed wing aircraft made for the U.S. Army, under U. S. Army Materiel Command auspices, made the first transition from vertical to horizontal flight at a demonstration at Fort Benning, during the AUSA Air-Ground Mobility Symposium, Nov. 20.

The aircraft, the XV-4A, labeled the "hummingbird" by its makers, the Lockheed-Georgia Company, took off vertically, hovered for a moment and then accelerated forward into normal flight.

The Hummingbird is the first VTOL (vertical take-off and landing) jet airplane designed and built for the Army. It is designed to rise straight up or go straight down, creep sideways or hover motionless in the air. In its conventional flight tests, it regularly climbed to an altitude of 10,000 feet in only 58 seconds from brake release.

Powered by two Pratt and Whitney JT-12 turbo-jet engines, the

Hummingbird is a stub-winged conventional monoplane, 32 feet long with a wing span of only 25 feet.

The plane achieves its vertical lift through a system wherein the high velocity exhaust gases of its two engines are mixed with free air resulting in a thrust greater than that of the basic engines with no increase in fuel consumption.

Working under a \$2½ million fixed price contract from the Army Transportation Research Command (TRECOC), an element of the U.S. Army Materiel Command, the first Hummingbird, XV-4A, flew a year and a week after the program was begun. Two planes have been made under the contract. Further testing by AMC is scheduled in the near future.



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### Key Changes Made At Missile School

The School Troop and Unit Training Commands have new Commanders and the Office of Operations and Security has a new chief.

The new Commander of the STC is Maj. Leonard A. Stanley, formerly Chief of the Electronics Mechanical Branch, Department of Individual Training, OGMS. Maj. Stanley is a graduate of the University of Delaware. He and his wife, Anna, reside at 4545 Simpson Drive on the arsenal. Stanley is replacing Maj. Bruce E. Dahrting who is retiring.

The Commander of the UTC is Capt. Richard G. Vorba, who was formerly assigned to the OGMS Project Office. Capt. Vorba is a graduate of East Washington College of Education, Washington. He and his wife, Virginia, are living at 402 Hughes Dr.

Maj. James M. MacDonnell who was the former UTC Commander has been assigned as the Chief of Operations and Security replacing Maj. Verne Wolfe who will attend the Command and General Staff College, Ft. Leavenworth, Kan.

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### NON-FICTION

Bontemps, Arna Wendell, "American Negro Poetry."  
Carson, Anthony, "Travels Near and Far Out."  
Chou, Eric, "A Man Must Choose."  
Gamow, George, "A Planet Called Earth."  
Hill, Herbert, "Soon, One Morning."  
Land, Frank, "The Language of Mathematics."  
Leach, Gerald, "Science Shapes Tomorrow."  
Pearson, Edmund Lester, "Masterpieces of Murder."  
Wilder, Thornton Niven, "The Long Christmas Dinner."

### FICTION

Clarke, Arthur Charles, "Tales of Ten Worlds."  
Gibbs, Willa, "A Fig In Winter."  
Lasswell, Mary, "Let's Go for Broke."  
Merriam, Eve, "The Real Book About Amazing Birds."  
Powell, Anthony, "What's Become of Waring?"  
Tanner, Louise (Stickney), "Miss Bannister's Girls."  
Van Vogt, Alfred Elton, "The Beast."  
Vaughan, Leo, "A World Full of Nightingales."  
West, Morris L., "The Shoes of the Fisherman."

### PROMOTION ANNOUNCED

Promotion of Brig. Gen. Paul A. Feyereisen, Deputy Chief of Staff at Army Materiel Command Headquarters, to Major General was announced by Lt. Gen. Frank S. Besson, Jr., AMC Commanding General.

At the same time, he announced the reassignment of Gen. Feyereisen to the Army Electronics Command as Deputy Commanding General.

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## Rocket Kindergarten Expands Classroom Facilities For Tots

Expanded classroom facilities for the Rocket Kindergarten at Redstone Arsenal have been announced for the current school year.

Additional facilities will permit the operation of a fourth class for dependent children of active and retired military personnel in the Huntsville-Redstone Arsenal area, said Capt. L. O. Cox, Rocket Kindergarten chairman.

The organization is a non-profit, self-supporting schooling activity, established to provide the benefits of a Kindergarten to children of military personnel.

Membership is open to any dependent of active or retired military personnel, between the ages of 4½ to 6 years.

Parents desiring to enroll their children in the Rocket Kindergarten may call Mrs. D. V. Swearingen, 536-0273, or Mrs. L. O. Cox, 877-5766.

Classes for the last half of the school year will begin on Jan. 6, in Building 3187, at Redstone Arsenal. Class hours will be 8:30 to 11:30 a.m., Monday through Friday. Buses will be provided to transport children from their resi-

## FRIDAY, KNIGHT AND CHRISTOPHER TEACH ECONOMY

A special training course to orient Command personnel in the application of weighted guidelines in determination of profit and fee objectives for negotiated contracts will open here in mid-December.

The weighted guidelines method was established by the Department of Defense in conjunction with the overall cost reduction program. It will be implemented the first of the new year with DOD-wide application.

Instructors for the classes on base will be Morris Knight, Hubert Friday and Wiley Christopher, all of the Procurement and Production Directorate.

The three represented the Missile Command as delegates to a recent conference that was conducted at the U. S. Army Logistics Management Center, Ft. Lee, Va.

The conference was conducted by DOD personnel for the purpose of introducing the new method.

Classes located on Redstone Arsenal.

Dependents of military personnel residing off-post, must arrange private transportation, Capt. Cox said.

## Religious Services

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

### RELIGIOUS SERVICES—POST CHAPEL—BLDG. 3714

#### PROTESTANT

SUNDAY — 1000 and 1115 hrs., General Protestant Services. (Chapel Nursery open during these Services.)

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

Sunday Evening Worship—1900 hrs

#### CATHOLIC

SUNDAY — Masses — 0730, 0845, 1230, and 1700 hrs. (Chapel Nursery open during Masses.)

BAPTISMS — 1330 hrs., or by appointment.

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

THURSDAY — Instructions — 1900 hrs. Confessions — 1800-1930 hrs. Mass — 1100 hrs.

DAILY MASS — 1100 hrs. (Monday through Saturday)

### REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday

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

#### JEWISH SERVICES

Conservative Jewish services will be held weekly each Friday at 2000 hrs. and each Saturday at 1000 hrs. at 2333 Poincianna Street, SW, Huntsville, behind the Scottish Rite Temple which is located at 314 Bob Wallace Avenue, SW.

Reform Jewish Services are held at Temple B'Nai Shalom, 2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE, Huntsville. Sunday School at 0930 Avenue, Huntsville. For further information or transportation, call Christian Science Armed Services Minister, Collect 776-2791.

For further information concerning these Services, contact Rabbi Stein, 536-4771.

#### CHRISTIAN SCIENCE SERVICES — SUNDAY — 1100 HRS.

Wednesday services are held at 2000 hrs. at S. White and Wells

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# Zeus Intercepts ICBM Over Pacific

The U. S. Army has made another successful interception of a target vehicle launched on a 5,000 mile trajectory at intercontinental ballistic missile speed in the continuing test program to further development of its Nike X anti-missile missile system, the Department of Defense announced Nov. 29.

The interceptor missile, a three stage Zeus missile, was fired and

controlled from the Army test installation on Kwajalein Island in the mid-Pacific.

Fired west over the Pacific Missile Range, the target vehicle was boosted by a Titan I ICBM launched from Vandenberg Air Force Base, Calif., in a training exercise carried out by the Strategic Air Command.

Components, concepts and techniques evaluated and proven in the test engagements are being applied to the Nike X systems development, an advanced anti-missile missile system with greatly improved capability.

The Zeus missile will be used in the Nike X system, as will other equipment developed in the earlier program. A high acceleration Sprint missile and a multi-function array radar (MAR) are also being developed for the Nike X system.

Ground distance from Kwajalein and the altitude of the intercept were not revealed. The Army said precise tracking equipment proved the Zeus missile got within killing distance of its target.

Neither missile carried a live warhead.

A number of Nike Zeus missiles have been fired to date as part of the Nike Zeus development program. In addition to test firings against test targets and simulated targets (fed into the computer

from tapes) other firings have been conducted to verify missile structure and to test operation of the ground complex.

These tests have been conducted over the past four years from firing sites at White Sands Missile Range in New Mexico, Point Mugu in California, and at Kwajalein Island in the Pacific.

Of tests conducted thus far, more than half have been completely successful and an additional 25 per cent were partially successful in meeting test objectives.

The capability of intercepting a single target vehicle launched by an ICBM under research and development conditions is a valuable aid to our understanding of the basic factors involved in problems in this field.

Components of the Nike X system are being developed and tested at a number of sites. Firings are carried out at White Sands Missile Range, New Mexico, and the Pacific Missile Range on Kwajalein.

Western Electric Co. is the prime contractor for the Nike X system and Bell Telephone Laboratories has responsibility for system design and development.

Douglas Aircraft Co. builds the Zeus missile. The Sprint missile is being developed by Martin Company's Orlando, Fla., division.



**SOLDIER OF THE MONTH**—Framed by the ring of a Pershing erector-launcher PFC Daniel M. Luiz, OGMS, checks circuitry continuity on the anti-rotational lock. PFC Luiz, selected as Post Soldier of the Month, is a propulsion and system technician in the Pershing Maintenance Unit of OGMS. He was assigned to the school following basic at Fort Dix, New Jersey. From Pawtucket, R.I., he is a graduate of Providence College, Providence, Rhode Island.

## Civic Arts Center Holds Open House At West Clinton

The Temporary Civic Arts Center will be open to the public Sunday, Dec. 8, between 1 to 5 p.m. at the West Clinton School.

The event is sponsored by The Arts Council, Inc., to honor the Mayor and members of City Council and the Chairman and Madison County Board of Commissioners.

The 23 members organizations of the Arts Council jointly extend an invitation to the military and civilian personnel and families of Redstone Arsenal to attend this Open House.

Exhibits throughout the building will include the fields of art, drama and music. A special showing of recognized art work from local schools will be displayed in the Art League's Gallery. Display of props, stage sets and make-up demonstrations are planned by the theatre groups. Musical contributions will be presented during the afternoon.

Mrs. Houston Glover and Mrs. Rudolph Herman with their committee have planned the coordinated efforts of the varied organizations. Committee members include Mrs. Stephen Johnston, refreshments, Mrs. Leroy Sims, arrangements, Mrs. Richard Watts, decorations, Mrs. Valerie Fjrsden, group coordinator, and Alvin B. Dregar, music coordinator.

The Arts Council, Inc. of Huntsville was organized more than a year ago in response to a growing demand for cultural arts in the community. They moved into the temporary location at the West Clinton School last September.

Counting the membership lists of the member organization of the member organizations would reveal more than 7,500 persons of the community who are interested in or engaged in cultural activities through their memberships.

Member groups of the Arts Council are: The Arts League of Huntsville, Broadway Theatre League, Chamber Music Guild, Fantasy Playhouse, Civic Symphony Association, Community Chorus Association, Community Concerts Association, Huntsville Little Theatre and Youth Orchestra.

The associate members are: Civic Symphony Guild, Downtown Development Association, Grace Club Auxilliary, Junior Chamber of Commerce, Music Appreciation Group, Music Study Club, Society of Technical Writers and Publishers, Association of University Women and Monte Sano Womens Club.

Affiliate members include Athens College, Burritt Museum, the Huntsville Campus of the University of Alabama, Huntsville Library Board and Russell Gerhart (conductor Civic Symphony) and Kenneth Turvey (conductor, Community Chorus).

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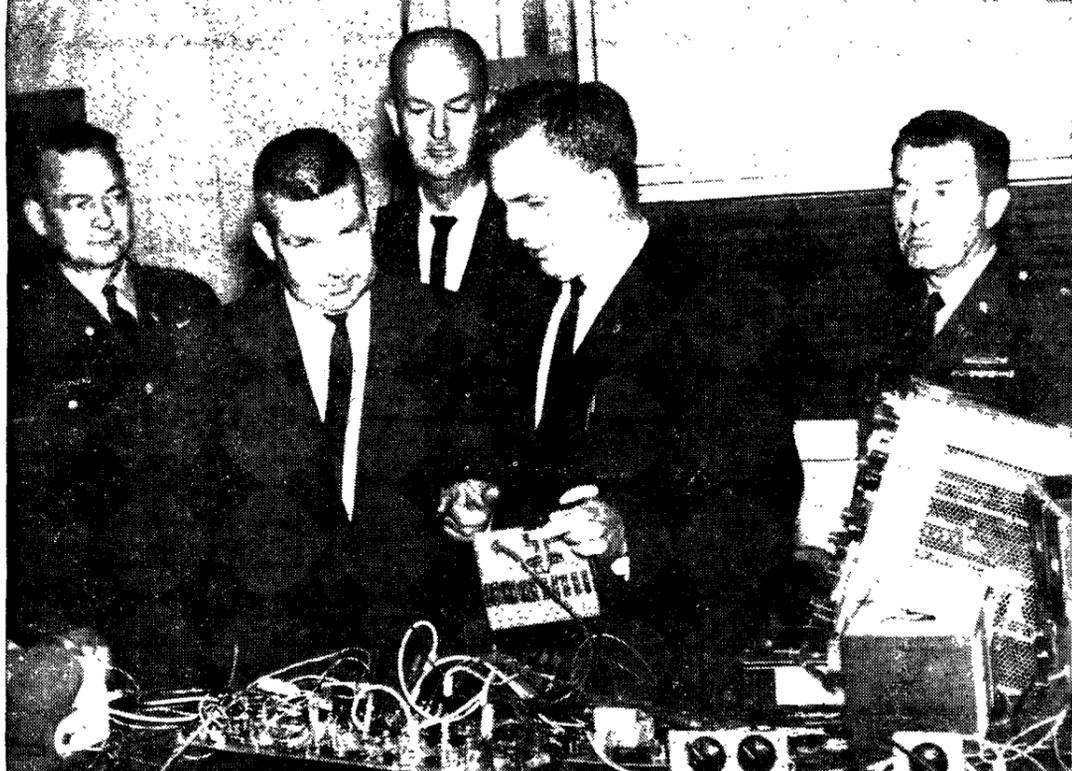


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**OFFICIAL VISITS LABORATORY**—A recent visitor to Army Missile Command saw a model of the power supply for one of the Army's missile systems. He was William Woodruff, front left, staff member of the Senate Appropriations Committee, who talks with Jess B. Huff, director of the Inertial Guidance and Control Laboratory. Looking on in back are Col. D. F. Shepherd, director, and John L. McDaniel, technical director of the Research and Development Directorate. At right is Lt. Col. George C. Eblen, escort officer for Woodruff's visit.

## AMC Awards \$18 Million In November Contracts

Five elements of the U. S. Army Materiel Command awarded a total of \$18,374,502 in contracts covering Navy communications equipment, tank armament, stevedoring services, M84 artillery fuze, and vehicle parts, last week.

The Electronics Materiel Agency, Philadelphia, awarded a \$4,759,450 contract to Technical Materiel Corp. of Mamaroneck, N. Y., for single sideband radio equipment for the Navy.

The Army Weapons Command ordered 2400 7.62 mm M-73 ma-

chine guns; M-132A1 flame thrower for tanks, at a cost of \$4 million, from its Springfield Armory, Mass. Another contract, for \$1,278,000 was awarded to Springfield for 3,205 M-3 .50 cal. machine gun tripod mounts, for Army use.

Indefinite quantity stevedoring and related services contract for \$1,071,664 was awarded to Atlantic and Gulf Stevedores, Norfolk, Va., by the U. S. Army Terminal Command, Atlantic.

Cleveland Procurement District awarded a \$1,696,835 contract for

59,832 rubber track assembly for the M48 tank to Firestone Tire and Rubber Co., Akron.

Cincinnati Procurement District awarded a \$2,928,653 contract to Allison Division, General Motors Corporation, for 1,364 GS-100-3 geared steer units for the M114A1 armored personnel carrier with related spare parts.

The Ammunition Procurement and Supply Agency awarded a \$1,267,900 contract to AMC's Picatinny Arsenal for 220,500 M84 artillery time fuses. Another con-

\*\*\*\*\* 5-6  
**Movie Schedule**  
 \*\*\*\*\*  
 WEDNESDAY, December 4  
 "Mein Kampf" (M) Documentary  
 THURSDAY - FRIDAY, December 5-6  
 "Who's Minding The Store" (F)  
 SATURDAY, December 7  
 "The Traitors" (F)  
 SUNDAY-MONDAY, December 8-9  
 "Who's Been Sleeping In My Bed?" (M-YP)  
 TUESDAY, December 10  
 "The L-Shaped Room" (M)  
 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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<b>'62 RAMBLER</b> CLASSIC Four-Door with radio, heater, and overdrive. <b>\$1475</b>	<b>1957 DODGE</b> STATION WAGON with radio, heater and automatic shift. <b>\$575.</b>	<b>1959 AMERICAN</b> STATION WAGON with radio, heater and automatic shift. <b>\$675.</b>
<b>'62 RAMBLER</b> CLASSIC Four-Door sedan with radio and automatic shift. <b>\$1475</b>	<b>1961 OPEL</b> Station Wagon <b>\$875.</b>	<b>1959 RAMBLER</b> AMERICAN Two-Door sedan . . . and it's a nice one! <b>\$775.</b>
<b>'60 RAMBLER</b> CLASSIC 4-Dr. Radio, heater, factory air cond. <b>\$1275.</b>	<b>1959 FORD</b> HALF TON PICKUP TRUCK. Ready for hard work. <b>\$875.</b>	<b>1963 FALCON</b> FORDOR . . . local one-owner car with radio, heater, automatic shift and factory air. <b>\$1975.</b>
<b>1961 CORVAIR</b> MONZA Coupe with radio, heater, auto. shift and air conditioning. <b>\$1475.</b>	<b>1955 PONTIAC</b> STATION WAGON with radio, heater and automatic transmission. <b>\$275.</b>	<b>1957 MERCURY</b> HARDTOP Two-Door with radio, heater and standard shift. <b>\$475.</b>
<b>1955 FORD</b> FORDOR <b>\$275.</b>	<b>1960 MORRIS MINOR</b> <b>\$675.</b>	<b>1958 PLYMOUTH</b> TWO-DOOR sedan with radio, heater and standard shift. <b>\$575.</b>
<b>1957 FORD</b> STATION WAGON with radio, heater, and automatic shift. <b>\$675.</b>	<b>1959 RAMBLER</b> CLASSIC Four-Door with radio, heater. <b>\$875.</b>	<b>1957 CHEVROLET</b> Four-Door Station Wagon. One you'll like. <b>\$675.</b>
<b>1955 CADILLAC</b> HARDTOP 2-Door with radio, heater and automatic. <b>\$675.</b>	<b>'56 INTERNATIONAL</b> HALF TON PICKUP TRUCK with heater, automatic shift and CATTLE RACK. <b>\$775.</b>	<b>1963 FORD</b> FORDOR with radio, heater and automatic shift.

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Page 14 The Redstone Rocket — December 4, 1963

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**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. tfc

**MUST SELL 1963 FORD GALAXIE 500**, Small equity and take up payments. New car warranty. Phone Decatur 353-3017. tfc

## 3. Miscellaneous

**LET'S PLAY BRIDGE!** Join a learner's private club and enjoy learning. Sessions supervised by an experienced and qualified instructor. Register NOW for DAY and NIGHT classes. Registration limited. Phone 881-3615. 12-24

**ATTENTION MOTHERS**—If you work, enroll your children in the Sunnydale Private School—Kindergarten through grade 6. Supervision will be provided for play and home work after school until 6 p.m. Accredited teachers, reasonable tuition, special emphasis on phonics, music and speech. For more information, Call 536-8444 evenings, 5 to 10 p.m. tfc

**A B S 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

**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. tfc

**ALL KINDS OF USED FURNITURE** Trade-in on mobile homes. All kinds of appliances. See at Texas Auto & Mobile Home Sales, 1003 Meridian. No phone calls please! tfc

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

CENTRAL TV & STEREO CO.  
Cor. Governors Drive & Parkway  
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Between Butler High and Parkway

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Flat Top Specialists  
OPEN 8 TO 8 . . . 6 DAYS  
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## 4. Mobile Homes

**CLOSE OUT PRICE** on '63 National Deluxe Mobile Home, 55x10, front expands, raised roof, storm windows, completely furnished. Was \$5495.00. Reduced to \$4495.00. Hurry for this one. Texas Auto and Mobile Home Sales, 536-6121. tfc

**FOR SALE**—16' Travel trailer, stove, icebox, equalizer hitch, brake controls, sleeps five. Excellent condition inside and out. \$950. 539-6469 after 5:00 p.m. ttp

**FOR SALE**—1962 New Moon 55x10 Mobile Home. All electric kitchen. Purchase equity of \$1,000.00 and assume payments of \$75.00 mo. Phone 534-0119. ttc

**SEE OUR FULL LINE OF** — Mobile Homes — or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. tfc

## 5. Houses, Lots - Sale

**WE CAN NOW BUILD** you a three (3) bedroom brick veneer home fully completed to FHA or VA requirements on your lot with carport and storage for as little as \$49.77 per month, plus fire insurance, taxes, etc. No down payment and no closing cost. CORNELIUS REAL ESTATE & INS. CO., 521 N. Broad St., Gunterville, Ala. tfc

**FARM FOR SALE** — 160 acres with old house more than 1/2 mile overlooking beautiful mirror lake will sell for small down payment, balance at \$50.00 per month plus interest only \$50.00 per acre. Cornelius Real Estate Co., Gunterville, Alabama. Phone 582-3027 or 582-5313. ttc

### FOR SALE!

19 ACRES located 12 miles northeast of Cullman, 38 miles of Huntsville — COUNTRY ESTATES, all city conveniences. Large 3 bedroom brick home, 2 good wells, 1700 sq. ft. of living space, large oak shade tree, 2 full baths, gas heat, large patio and barbecue pit, large barn, two 10,000 capacity chicken houses, good fish pond, fallout shelter, fenced and cross fenced. All this for only \$27,500.00.

22 ACRES, choice retirement property, tract located in a thickly settled community, 20 miles south of Huntsville on black-top highway. Area is a highly developed agricultural section. Has 6 room dwelling, 3 bedrooms, bath, fine well, good barn, won't last long. \$8,000.00 E. G. WILLIAMSON, Real Estate Broker, pho. 734-6294, Cullman, Alabama. ttc

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Fast Service - Expert Wheel Mechanic  
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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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\$5/10 Bodily Injury  
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**FARM FOR SALE** in E. Morgan Co. 65 acres, just off H'way 67 between Hulaco and Ryan, behind Pleasant Grove Church. Two old houses, plenty of water. W. A. Crawford, Rt. 1, Baileyton, Ala., phone 586-3343 after 4 p.m. 12-12p

**FOR SALE** — 12 to 15 Building Sites. Located 13 miles south of Arsenal Gate No. 3 on top of Mountain east of Cotaco. Contact C. L. Cryer, Hartselle, Ala., 773-7864 or see in person at Cotaco. ttp

## 6. Pets

**FOR SALE**—English bulldog puppies. Beautifully marked, sire and dam direct son and daughter of champion. AKC registered. Five generation pedigree furnished. GEORGE'S BULLDOG KENNEL, 119 Church St., N.W., Decatur, Ala. Phone 353-3396. ttp

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When you graduate from a Volkswagen Sedan to a Volkswagen Station Wagon, you really step up in the world.

The Station Wagon stands a good foot taller than other cars.

And it holds more than the biggest conventional wagon you can find.

But the VW Wagon isn't only tall.

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We saved 4 feet of hood in front by putting the engine in back.

Big as it is inside, it's only 9 inches longer than the Volkswagen Sedan.

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## Capt. Guy Narras Becomes French Liaison Officer

Capt. Guy Narras has been named French Liaison Officer at the U. S. Army Ordnance Guided Missile School here, succeeding Maj. Raymond Terry who completed his training and returned to France.

A French Army unit of 40 officers and men, trained on the Hawk air defense missile system which is a standard weapon for the North Atlantic Treaty Organization, also returned to France for further assignment to missile bases in West Germany. It will be commanded there by Capt. Paul Odin. He and his men have been here for the past year.

Maj. Terry will be assigned to the French Army's Missile School at Nimes in south France. He and Mme. Terry have resided here since May of 1962.

Another French unit of approximately 40 men has arrived for training that will extend into late 1964.

French graduates of the Missile School now total 188 over a five-year period.

## Can't Control Weather? Try To Control The Heat

Cuss it—or discuss it—all you like!

Everyone knows that nothing can be done about the weather.

But at this particular time of year — which has been unseasonably warm — everyone can, and should, be concerned with conservation.

This piece of advice comes from Niles Prestage, Chief of the Post Engineer's Utilities Division.

"During these fringe winter months," he says, "we have our greatest losses of heat. People who become warm or want a breath of fresh air have a tendency to throw open a window."

"What they should do, for the sake of conservation," he continued, "is turn off the radiator or lower heat controls."

"This would represent a tremendous savings and that is why we are putting in a pitch for utilities conservation," Prestage said.

"The ratio of fuel used to degree days is much higher during these fringe months (early or late part of winter), "Prestage went on. "We actually get our best efficiency in the cold months."

In a degree day, every degree below 65 degrees for the average of that day, is a degree day. For example, if the average temperature of a 24 hour period is 58 degrees, there would be 7 degree days.

"There is a definite relationship between degree days and fuel consumption in each building and/or group of buildings heated from a central heating plant," Prestage says.

"We urge people who do have control to help in this matter," he added.

### MEETING SCHEDULED

Dr. W. B. Harrison, Head of the School of Nuclear Engineering and Technical Research Reactor at Georgia Institute of Technology, will be guest speaker at a meeting of the North Alabama Section of the American Institute of Chemical Engineers Dec. 10 at the Squirrel Hill Officers' Club.

Reservations in Huntsville must be made no later than noon Monday, with Dr. Lewis Hurt of Rohm and Haas Company, 876-9926.

## School Observes 11th Anniversary

Already more than 30,000 students old, the Army Ordnance Guided Missile School at Redstone Arsenal, Ala., marked its eleventh anniversary Sunday as a separate Army service school, according to Col. William J. Macpherson, Commandant of the Missile School.

The "Missile Academy" is the only school in the Army devoted entirely to missile maintenance technology. Servicemen from the United States and other North Atlantic Treaty Organization countries, Korea, Nationalist China, Israel, Sweden and Japan have trained at the Arsenal to become part of the most versatile striking force in the free world.

The faculty of the \$73,000,000 school includes more than 600 per-

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3 BEDROOMS — 1½ BATHS — HOLLYWOOD STYLE  
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- 3 — 1959 Chevy's

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- 2 — 1959 Cadillacs

### T-BIRD

- 3 — T-Birds

### OLDS & PONTIAC

- 2 — 1962 Models
- 3 — 1961 Models
- 3 — 1960 Models
- 2 — 1959 Models

11 Other Models to Choose From

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## SUSTAINED SUPERIOR

**O'Neal Peseur**, Mathematical Technician, and **Thomas L. Kilough**, Mechanical Engineer, Dir of R&D; **Billy M. Davis**, Program

## SELLING HOME DOESN'T ALWAYS CLOSE OUT LOAN

Merely selling his GI home does not relieve the veteran of his liability to the Veterans Administration, VA officials emphasized.

Too often veterans who have sold their GI homes learn later that the buyer has defaulted on the loan, the mortgage has been foreclosed, a deficiency resulted and they are liable to VA for payment of the claim VA had to pay to the lender.

Veterans should understand this thoroughly when disposing of their GI homes, Clyde A. Harris, Loan Guaranty Officer at the VA Regional Office in Montgomery,

Specialist, and **Edward Bourne, Jr.**, Program Specialist, Dir of Proc & Prod; **Paul R. Hunsicker**, Engineering Technician, Hercules Project Ofc; **Brenda S. Harper**, Mail & File Clerk (Typing), Zeus Project Office; **Wayne L. Jones**, Mathematician, and **Robert L. Butler, Jr.**, Digital Computer Sys Analyst, Dir of Proc & Prod.

said.

The veteran may be released of that liability to the Veterans Administration if his loan is current and if the purchaser has obligated himself by contract to purchase his property and assume his liability.

In addition, the purchaser must satisfy the Veterans Administration that he is a good credit risk.

A veteran planning to sell his GI home may take either of two steps to avoid future liability. (1) He can arrange for the GI loan to be paid in full. (2) He can allow the purchaser to assume his GI loan and obtain a release of his liability on the loan from the holder of the mortgage and the Veterans Administration, provided, of course, both agree.

He may apply to Veterans Administration for a release from liability by submitting a written request addressed to the Manager of the Veterans Administration Regional Office which processed the loan. The request should include the Veterans Administration loan number if known (it is shown on the reverse of the certificate of eligibility), the address of the property, the name and ad-

## Births At Post Hospital

**Wesley Bruce Eiland**, 7 lbs., 15½ ozs., Nov. 19, son of Sp4 and Mrs. Shelly D. Eiland.

**Kenneth Reed Pittman**, 8 lbs., 8½ ozs., Nov. 20, son of Sp6 and Mrs. James S. Pittman.

**Kimberly Anne Steczo**, 6 lbs., 10½ ozs., Nov. 23, daughter of Pfc and Mrs. Michael J. Steczo.

**Karen Anne Stokes**, 7 lbs., 10½ ozs., Nov. 24, daughter of SSgt. and Mrs. John S. Stokes.

**Donald Mathis Spivey**, 7 lbs., 6¼ ozs., Nov. 25, son of Pfc. and Mrs. Herbert L. Spivey.

The man behind the gift is what counts—and Uncle Sam is behind you all the way when you give U. S. Savings Bonds for Christmas.

dress of the proposed purchaser, and the name and address of the holder of the mortgage. More complete details may be obtained from the Montgomery VA Regional Office.

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Home of Quality  
—Since 1914!



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for EVERYONE  
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