

The Redstone Rocket

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VOL. X; NO. 25

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

NOVEMBER 1, 1961

No Fatalities Occur In Decade of Testing

Rockets Fired Here Include Free Flight And Captive Tests

Despite the development of some of the most potentially dangerous weapons man has devised, the U. S. Army Ordnance Missile Command has not had a fatal accident in over a decade of missile captive and flight testing at Redstone Arsenal.

In fact, statistics so far show the missile engineers are much safer than wives working in their kitchens.

Henry Dyer, director of the AOMC missile systems office, said approximately 1,500 large missile rocket engines have been captive tested, along with several thousand smaller motors.

From 15,000 to 20,000 smaller missiles have been flight tested at the four ranges on 40,000 acre Redstone Arsenal. No death has been attributed directly to a missile flight or engine test.

Warheads in the missiles test fired at Redstone are duds, which greatly enhances the safety prob-

lems. The rocket fuel, however, is the same concoction used in actual missile flights, a variety of solid and liquid rocket propellants.

It's high powered — generating up to hundreds of thousands of pounds of thrust.

Therefore, there is no compromise with safety in carrying out possibly the "toughest" job in Alabama.

Missiles flight tested at Redstone are relatively small ones of ranges up to several hundred yards. They impact near an isolated mountain located on the Arsenal.

Range limitations, however, do not allow actual flight testing of the large missiles with ranges of up to several hundred miles. The Army has a system much better, from both safety and economy standpoint.

The large engines are locked in a concrete-steel reinforced test stands and fired, performing the same functions they would in flight, although they never leave (See NO FATALITIES, Page 2)



MAULER—The Army today announced first successful test firing of its new Mauler air defense guided missile. This artist's sketch shows Mauler in its envisioned role providing shoot-on-the-move protection for mobile Army units in the field. Army Rocket and Guided Missile Agency at Redstone Arsenal, Ala., is technical supervisor of the Mauler program. Pomona Division of General Dynamics, Pomona, Calif., is prime contractor.



TEST FACILITY INSPECTION—Samuel W. Crosby (3rd left) talks with members of the Army missile research and development team at the Army Ballistic Missile Agency Test Stand Oct. 24. Left to right are: Jack H. Waite, ABMA Associate Director for Test Operations; Brig. Gen. Richard M. Hurst, ABMA Commander; Crosby; Lt. Col. Robin Elliott, Army Ordnance Missile Command Control Office, Col. Paul B. Schuppener, AOMC R&D; John L. McDaniel, ABMA R&D; and William Grafton, ABMA Test, Evaluation and Firing Laboratory Director.

Development Tests Begun With Mauler Test Firings

Solid Fuel Meets Test Objectives

The U. S. Army announced Oct. 25 that it has begun a new series of development test firings of its new Mauler air defense guided missile.

Brig. Gen. John G. Zierdt, Commander of the Army Rocket and Guided Missile Agency, said the solid-fuel missile met all test objectives in the first firing at White Sands Missile Range, N.M. recently.

Additional test firings will be conducted at that location. Designed to give air defense to

fast moving Army units on the battlefield, Mauler is being developed under the technical supervision of ARGMA by the Pomona Division of General Dynamics, Pomona, Calif., prime contractor.

The Army recently funded continued development of the system with a \$13,000,000 award to the prime contractor.

Each Mauler unit, missiles, tracking and guidance equipment, will be self-contained on a self-propelled vehicle. Mauler is designed to defend against high performance aircraft as well as short range missiles and rockets.

Crosby, Appropriations Chief, Briefed on Missiles

His Schedule Includes Industry Program and Army Missile Arsenals

The senior staff member of the Defense Appropriations Subcommittee of the House of Representatives took a thorough look at Army missile research and development here last week.

Samuel W. Crosby, who has overall supervision of the House Subcommittee Staff, was briefed at the Army Ordnance Missile Command on top level Army missile research programs.

He also inspected Army Rocket and Guided Missile Agency and Army Ballistic Missile Agency test facilities on the Arsenal.

Crosby, who has worked with the Bureau of the Budget and the Atomic Energy Commission, is visiting missile producing arsenals and industries for general orientation and to evaluate Army budget items.

He received initial briefings on missile intelligence, Army missile systems, missions of AOMC, and

supporting research at AOMC. He toured ABMA Test, Evaluation and Firing Laboratory's Test Stand Facilities with Brig. Gen. Richard M. Hurst, ABMA Commander.

(See CROSBY VISITS, Page 2)

Scouts Gather Clothes To Send Korean Orphans

An assistant scoutmaster's service in Korea has led to a charitable project for Redstone Boy Scout Troop 234.

Specialist Don Petilon, assistant Scoutmaster, remembered the plight of Korean orphans and suggested that the post troop collect used clothing to send them.

The 28 boys in the troop will conduct a house-to-house drive in all arsenal housing areas Saturday to collect useful clothing items. Articles for collection may be placed in bags and left on the curb in front of the houses.

Pvt. Tom Hillyard is the Scoutmaster. Most of the boys in the troop are from Army families living on the Arsenal.



CLOTHING FOR KOREAN ORPHANS—Mrs. August Schomburg, wife of the Commanding General of AOMC, donates used clothing to Mike Zierdt, Redstone Boy Scout Troop 234 as part of the plan to collect such items for Korean orphans. Members of this troop will conduct a house-to-house drive in MCA, Wherry and the new and old Capehart housing on Saturday, November 4. Donations may be placed in bags and left at the curb in front of the quarters.

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday at no expense to the Government by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

The Rocket is NOT an official or semi-official Army or Ordnance Corps publication. Policies and statements reflected in the news and editorial columns represent the views of the individual writers and are not necessarily those of the Department of the Army, the Ordnance Corps, or any organization at Redstone Arsenal, Alabama. Appearance of advertisements in the Rocket does not constitute an endorsement of the advertising matter by the Department of the Army, the Ordnance Corps, or any organization at Redstone Arsenal, Alabama.

The publisher will receive editorial content for publication in the Rocket only through the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama, Bldg. 7101, Extension 876-3362. All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Alabama, P. O. Box 346, telephone 534-4701, as representative of the publisher.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.15 a year, or \$2.83 for six months, Alabama sales tax included. Mailing arrangements may be made with the publisher.

NO FATALITIES

(Continued From Page 1)

the ground. Liquid fueled rocket engines can be used over and over again for testing different fuels or components, whereas, in a flight test it's a one shot operation. Communications play a big role in safety at the test area. Range vehicles are equipped with two-way radios. A loudspeaker gives the countdown. Human and television "eyes" keep the range un-

der surveillance and can command a "hold" on a second's notice. Once a solid fuel engine is fired, or a missile, there's no shutdown until the test is completed. Liquid fuel engine tests can be halted.

For "tie down" engine tests, experts watch the performance from concrete-steel reinforced block-houses.

Many of the motors and missiles fired here are developed models being tested for the first time. Sometimes this causes some unpredictable reactions.

From a safety standpoint, however, the biggest hazard for the Army missile men at Redstone is the drive to and from work.

CROSBY VISITS

(Continued From Page 1)

Crosby conferred with Brig. Gen. John G. Zierdt, ARGMA Commander, and was briefed on the Nike Zeus, the Army's anti-missile missile now under development.

He toured ARGMA's environmental test facility in the after-



RECEIVES PATENT — Charles A. Hawkins recently received from Col. Thomas W. Cooke, Commander of AOMSA an original patent grant issued to him by the United States Patent Office through the Army Missile Patent Center at AOMSA. Mr. Hawkins applied for the patent while an employe of ABMA. The Government has been granted a non-exclusive license for use of the patent for governmental purposes. The patent relates to a precision lapping device, to finish a ball and a socket for enclosing the ball with a high degree of accuracy. The ball and socket are included in missile guidance control mechanisms for low friction operation. Mr. Hawkins is presently employed by NASA.

BROCK IS DIRECTOR

Hobart M. Brock has been elected State Director of the Alabama Society of Professional Engineers to fill the vacancy caused by the death of the late Lawrence M. Le Gros.

Mr. Brock is an Electrical Engineer in the Test Equipment and Instrumentation Branch, Engineering Division, Industrial Operations ARGMA. He was born in Sweetwater, Tenn., and reared at Athens, Tenn.

noon and held final talks with Maj. Gen. Francis J. McMorro, Deputy Commanding General of AOMC.

Crosby who holds a master's degree from the University of Denver, concentrates on the functional area of Research & Development Test and Evaluation for all services.



TOP MISSILEMAN—S/Sgt. James W. Higgins, (right), U. S. Marine Corps, 39, son of Mr. Charles R. Higgins, 1624 Woodterr Drive, Homewood, Ala., accepts congratulations from Maj. Edward E. Riddlehoover, Chief of the Special Projects Branch, Research and Development, Army Rocket and Guided Missile Agency, during graduation ceremonies recently at the U. S. Army Ordnance Guided Missile School. Higgins was top man in the Hawk Mechanical Repair Course at the Missile School. He entered the Marine Corps in July 1952 and received his basic training at Parris Island, South Carolina.



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Capt. Lorder Commended For Work With 7th Army

Capt. James L. Lorder, Jr., has been assigned to Field Service Operations of the Army Rocket and Guided Missile Agency.

A recent arrival from the 7th U. S. Army Support Command in Germany, Capt. Lorder will serve as a projects officer.

On his arrival here he was presented with a Certificate of Achievement awarded at his last duty station.

He was praised by Brig. Gen. A. J. Adams, Commander of the Support Command, for his "faithful and efficient performance of his duty," as Battalion Adjutant and Headquarters Detachment Commander of the 8th Ordnance Battalion from June 1959 to July 1961.

A graduate of Prairie View (Tex.) A&M College where he received a bachelor of science degree in mathematics, the captain entered service in 1956.

He attended the Basic Officers Course at Aberdeen Proving Ground, and stayed there after graduation until he was assigned to Europe in 1958.

A native of Marlin, Texas, he is married and has two children.

Redstone Soldiers Complete Sergeant Course at Sperry

SALT LAKE CITY, UTAH — Commissioned and non-commissioned officers of the first ordnance direct support detachment for the Sergeant ballistic missile have completed initial training, with graduation today from the Army's Sergeant equipment train-

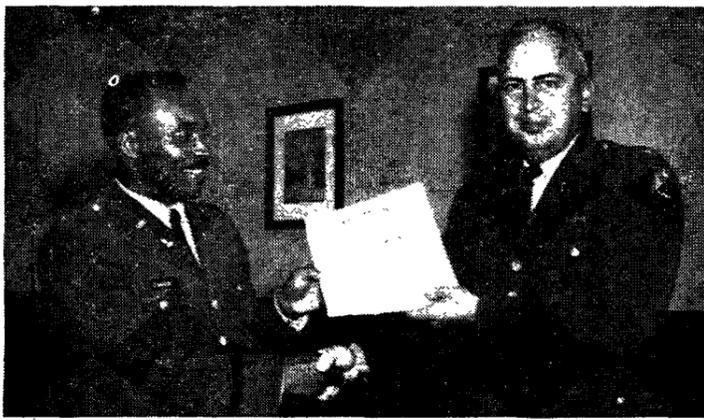
ing course at Sperry, Utah.

Receiving diplomas today were Capt. V. J. Laver, detachment commander; 2nd Lt. Ben Johnson, operations officer; CWO R. D. Vento, maintenance officer, and detachment non-commissioned officers, all from Redstone Arsenal.

Technical supervision of the Sergeant program is under the Army Ballistic Missile Agency at Redstone. Sperry Utah is prime contractor.

The unit will be officially activated at Redstone. It is to undergo extensive technical and tactical training with the Sergeant system in preparation for the role it will play in support of the first Sergeant tactical artillery battalion.

Today's graduating class was the final one at the school which began last January. Over 200 Army ordnance and artillery personnel have received the three month course of instruction. Prior classes were composed of Army instructor and maintenance personnel from agencies that will conduct ordnance and artillery classes for soldiers assigned to Sergeant units.



COMMENDED — Captain James L. Lorder, Jr., recently assigned to Field Service Operations, ARGMA, receives a certificate of achievement for performance of duty while assigned to the Seventh Army Support Command in Germany, his last assignment. Col. Robert Van Wert, Chief of FSO, makes the presentation.

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QUICK BANK RATES

Social News

LT. COL. MOORE, MRS. SCOTT WIN AT PARTY BRIDGE

Lt. Col. Frank Moore and Mrs. Robert Ross were winners at the Monday, Oct. 23 bridge group meeting at the Squirrel Hill Officers Club.

Second high were Lt. Col. Wesley Scott and Mrs. Esther Van Roo.

The Group meets every Monday night. Reservations may be made with Mrs. John Severeid by Saturday noon.

Bridge Draws Seven Tables of Players

Seven tables of players attended the Thursday Party Bridge Group meeting at the Squirrel Hill Officers Club.

The Group is sponsored by the Redstone Arsenal Officers Wives Club and is open to members and associate members. Play begins at 10 a.m. with one party day a month extending the play until 2:30 p.m. with lunch served at the Club.

Winners at last Thursday's meeting were Mrs. R. B. Ross, first; Mrs. W. L. Patton, second; and Mrs. W. R. Phillips, third.

Reservations or cancellations are being handled this month by Mrs. M. C. Eversole.

Kramer Is In Who's Who

An Army scientist on Redstone Arsenal has been added to the list of "Who's Who in the Southwest."

Fritz Kramer, Army Ordnance Missile Command and Development Operations, is listed in the 1961 edition of Southwestern personalities.

Now in the Advanced Planning Division of AOMC R & D, Kramer spent three years at Fort Bliss, Texas, with the Army Ordnance team.

As an aeronautical research engineer, he was Design Chief with Dr. A. Lippisch at the Aeronautical Research Institute in Darmstadt, Germany from 1930-38. During this period, he designed and developed delta-type research aircraft and a rocket propelled interceptor fighter.

During World War II, he was Chief of the Pilotless Flight Vehicles Division, developing items as remote controlled target drones, towed flight vehicles, and a "flying bridge" for airborne opera-

Miss Jean Roberts, Lt. Harry T. Ennis To Wed in December

Mr. and Mrs. Charles E. Vaughn announce the engagement of her daughter, Miss Reba Jean Roberts, to Lt. Harry F. Ennis, son of Mr. and Mrs. Harry T. Ennis of Lyndhurst, N. J.

Miss Roberts is a graduate of Butler High School and is employed at the Army Rocket and Guided Missile Agency.

Lt. Ennis, a native of New York City is a graduate of Purdue University with a bachelor of science degree in physics. He is presently a student at the Ordnance Guided Missile School.

The wedding is scheduled in December.

GEM MEN TO MEET

The Huntsville Gem and Mineral Society will hold its fall meeting at the Ideal Bakery at 7 p.m. on Nov. 2.

Swap night is planned to exchange materials among members. The membership is open to anyone interested in gems and minerals according to Preston Watts, president.

A film is also planned for this meeting.

The group is extending the mineral display at the Burrett Museum on Monte Sano. A committee will be appointed to build the display.

tions.

He became Chief of the Technical Feasibility Studies Office in 1956 and in 1958 joined the Army Ballistic Missile Agency as Special Assistant and Branch Chief of the Test Division. This Division later became a part of the Marshall Space Flight Center where Kramer worked until returning to AOMC in Sept. 1961.

Charter Banquet Set By Communications Association

Final plans are being made for the charter night banquet and reception of the newly formed Armed Forces Communications and Electronics Association chapter. The Redstone-Tennessee Valley organization now has more than 200 members.

Dr. Frank A. Rose, president of the University of Alabama, is to be the featured speaker for the banquet on Thursday, November 16, 1961. A reception at the Russell Erskine Hotel will precede the dinner at the Big Spring Community Center.

National officials of the AFCEA who have been invited and are expected to attend the charter night celebration are Frank A. Gunther, national president of AFCEA and president of Radio Engineering Laboratories, Inc.; W. J. Baird, national secretary of AFCEA; Ben S. Gilmer, national director and president of Southern Bell Telephone Co. and W. K. Mosely, Region C vice president of AFCEA and vice president of Southern Bell Telephone Co.

Births at Post Hospital

Scott Allen Muncy, 7 lbs., 2 3/4 ozs., Oct. 20, son of SP5 and Mrs. Kenneth R. Muncy.

Karen Joy Huber, 7 lbs., 10 1/2 ozs., Oct. 20, daughter of Maj. Leo K. Huber.

David Wayne McNutt, 4 lbs., 11 ozs., Oct. 20, son of M-Sgt. and Mrs. Joseph L. McNutt.

Dale Wayne McNutt, 3 lbs., 5 ozs., Oct. 20, son of MSgt and Mrs. Joseph L. McNutt.

Robin Merle Bryant, 5 lbs., 15 1/4 ozs., Oct. 20, daughter of SFC and Mrs. Cecil D. Bryant.

Clark Allen Misner, 7 lbs., 9 1/2 ozs., Oct. 21, son of PFC and Mrs. Karl H. Misner.

Laurie Adele Stortz, 6 lbs., 15 1/2 ozs., Oct. 24, daughter of Capt. and Mrs. Michael J. Stortz.

Kenneth Paul Andres, 7 lbs., 7 1/2 ozs., Oct. 24, son of PFC and Mrs. John P. Andres.

Deborah Ann Shannon, 8 lbs.,

CATHOLIC WOMEN TO HOLD MEETING

The Military Council of Catholic Women will hold a breakfast meeting immediately following 9 a.m. Mass Friday (6 Nov.) at the Redstone Post Chapel.

The program will include a report on the Spiritual Development Committee by Mrs. Robert Funke, chairman. The purpose of this committee is to stimulate personal sanctification and to enhance religious life of the home and family.

The Chapel nursery will be available for small children for this meeting.

AOMSA Sponsors November Dance

The November dance at the Squirrel Hill Officers Club will be sponsored by the Army Ordnance Missile Support Agency officers on Nov. 18.

Lt. Col. John Palsrok is chairman of the planning committee. Other members include: Capt. O. Goeben, finances; Maj. Russell A. Bergmann and CWO S. W. Curtis, entertainment; Capt. P. Boyer, A. E. Chiles and E. Roe, decorations; Capt. E. S. Schorsten, food; Capt. G. R. Poole and Ralph C. Perrill, publicity; Capt. R. W. Parker and CWO F. Cole, communications.

2 1/2 ozs., Oct. 25, daughter of 2d Lt. and Mrs. James T. Shannon.

Bruce Lee Magness, 6 lbs., 10 3/4 ozs., Oct. 25, son of Sgt. and Mrs. Perry G. Magness.

Sheryl Ann Panchur, 8 lbs., 5 ozs., Oct. 26, daughter of SP4 and Mrs. Robert L. Panchur.

Film Group to See Film Poem on Friday

Cinema Arts will hold the fourth screening of Huntsville's "Premier Film Festival" at the theater in the Huntsville Utilities building at 8 p.m. Friday.

The group meets monthly to see fine arts films which have won acclaim at international film festivals.

This month's feature is "Quietico," a film poem produced by the National film board of Canada. Several silent pictures will also be shown.

Information about the group can be obtained from J. Hunter Todd, 539-8790.

Movie Schedule

Wednesday, Nov. 1, "Tall Story" (M-YP) starring Anthony Perkin and Jane Fonda. Time 1800 and 2030 hours.

Thursday - Friday, Nov. 2-3, "Breakfast at Tiffany's" (M) starring Audrey Hepburn and George Peppard. Time 1800 and 2030 hours.

Saturday, Nov. 4, "Lad: A Dog" (F) starring Peter Breck and Peggy McCay. Time 1800 and 2030 hours. SPECIAL MATINEE: 11:10 hours because of military training.

Sunday - Monday, Nov. 5-6, "Paris Blues" (M) starring Paul Newman and Joanne Woodward. Time Sunday 1400, 1800 and 2030 hours. Time Monday 1800 and 2030 hours.

Tuesday, Nov. 7, "The Deadly Companions" (M-YP) starring Brian Keith and Maureen O'Hara. Time 1800 and 2030 hours.



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Watch For The Answer in Next Week's Redstone Rocket

Color Standards Set for Use in Missiles, Planes

A team of representatives from the Armed Services and Department of Defense has adjourned here after agreeing on a color standard for all pipe, hose and tube lines used in aircraft, missiles, space vehicles and associated support equipment and facilities.

The standard consolidates four separate color systems into one, prescribes colors and symbols to identify functions, contents and tags and gives dimensions of pipes, tags and bands.

Chairman of the Department of Defense unification meeting was Lloyd Dunn, Chief of the Project Preparation Section of the Department of Defense and International Standardization Office located at Redstone.

Title of the new standard, agreed upon by the delegates, is "Identification of Pipe, Hose, and Tube Lines for Aircraft, Missiles, Space Vehicles and Associated Support Equipment and Facilities." The document is to be prepared by the Redstone Standardization Office.

In addition to Dunn, those attending were Carl C. Muller of the Armed Forces Supply Support Center; Frank Powell, Office of the Army Deputy Chief of Staff for Logistics in Washington, D. C.; Harry Williams, Air Force representative, Wright Patterson AFB; Harry Huester, Navy Bureau

of Weapons representative and Don Mitchell, Army Ordnance representative.

Also, Herman Woodward, Brookley AFB; James Hodges, Redstone Arsenal;

EMPLOYMENT DEVELOPMENT OPPORTUNITIES

The Training Branch, Civilian Personnel Division, Army Ordnance Missile Support Agency announces the following local opportunities for employe development:

NEXT WEEK — 6-10 November, 1961:

- Undergraduate Study
- Graduate Study
- Introduction to Supervision
- Job Instructor Training
- Oral Communication
- Advanced Secretarial Training
- Intern Training of Civilian Personnel Specialists
- Procurement Management
- Clear Writing

NEAR FUTURE:

- Conference Leadership—13 November
- Basic Supervisor Development—13 November
- Management Dynamics—13 November
- Correspondence Procedures and Office Practices—14 November
- Work Simplification—14 November

Ordnance Group Confers On Surface Preservation

Some 90 members of the American Ordnance Association Surface Preservation Section met here Oct. 24 for a two-day conference, their 30th semi-annual meeting.

Chairman of the meeting is Myron B. Diggin of the Hanson-Van Winkle-Munning Company of Matawan, N. J.

Maj. Gen. August Schomburg, commanding general of the U. S. Army Ordnance Missile Command, welcomed the conferees who represent numerous industries across the United States.

Papers presented today covered deterioration problems in missile systems, reclamation of corroded magnesium castings, a review of corrosion problems on magnesium and a summary of significant activities associated with surface preservation in ARGMA missile systems.

Among the speakers from AO-MC were Ray Kline of the Control Office; Dr. Leonard N. Werner, Chief, Materials Research Branch, Army Ballistic Missile Agency; Julian Kobler, Chief, Fabrication and Assembly Engineering Branch, ABMA; Lt. E. J. Wilson, ARGMA Research and Development Operations and Duward McClung, chief engineer, Industrial Operations, ARGMA.

Representatives of industry scheduled to present papers in the second day session include: Leo E. Gatzek, head materials engineering, Aerospace Corporation, Los Angeles; Morton J. Disckind, senior engineer, Martin Company, Orlando, Fla.; C. F. Nixon, head, Electrochemistry Department, Research Laboratories, General Motors Corporation; Dr. John A. Stevens, Dow Metal Products Division, Midland, Mich., and Henry Handler, Special Assistant for Industrial Relations, Office, Chief of Ordnance.



CUB SCOUT PACK 234 INDUCT NEW MEMBERS—Splinter Village was the scene of an impressive ceremony Thursday night as twelve boys were invested into the Cub Scouts. Bottom row (left to right) Paul Sment, Steve Lee and James Attaya. Second row (left to right) Charles Belcher, Douglas Walden, Bobby Lacey, Steve Riley, John Neil and Timothy Laynor. Third row (left to right) Billy Lloyd, Billy Marsh and Clarence Rogers. Background SFC. Boschee (Chief Akela). At the present time, Pack 234 cannot take in any new members due to the six dens being filled. Any mother desiring to organize a new den can contact SFC. Lacey, Asst. Cub Master, 877-5866.

Ladies' Bazaar—

IN THE HEART OF HUNTSVILLE SHOPPING MALL
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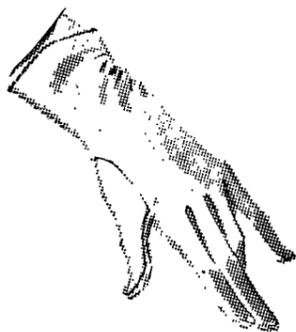
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Who Keeps the Miss Out of Army Missiles?

Who keeps the miss out of the Army's ballistic missiles? It's the Guidance Control and Aeroballistics Laboratory of ABMA's Research and Development Operations.

The employes there like to say that if it were not for them, the missile would never reach its target. It would yaw, pitch and roll, landing no telling where like a mal-kicked football.

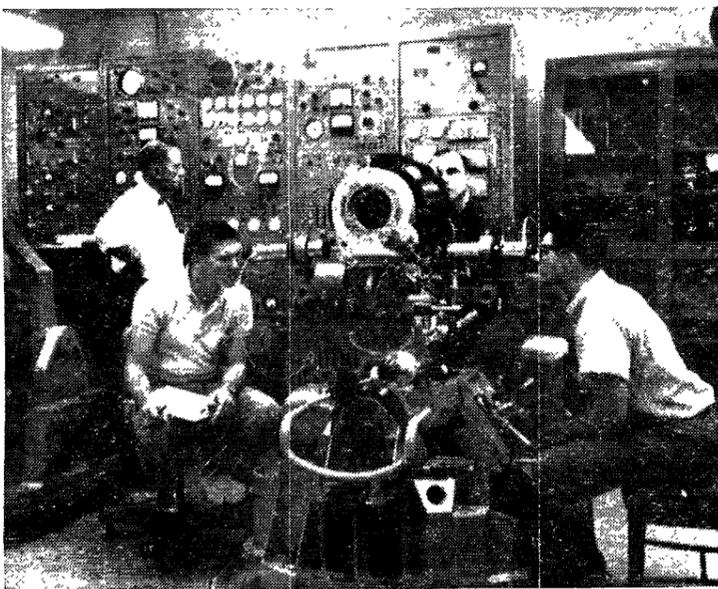
When a missile goes up, it is confronted by many things that can affect its trajectory. A sudden upsurge or downthrust of air, a strong head wind or tail wind, or a bad launch can get it off on the wrong foot.

An uneven burning of fuel can send it askew. Just think how handy it would be if you could speed the missile to its target through a long curved gun barrel or tunnel. Anyone who has ever shot his favorite law at the center ring knows how much one can wish for such a tunnel to guide a missile.

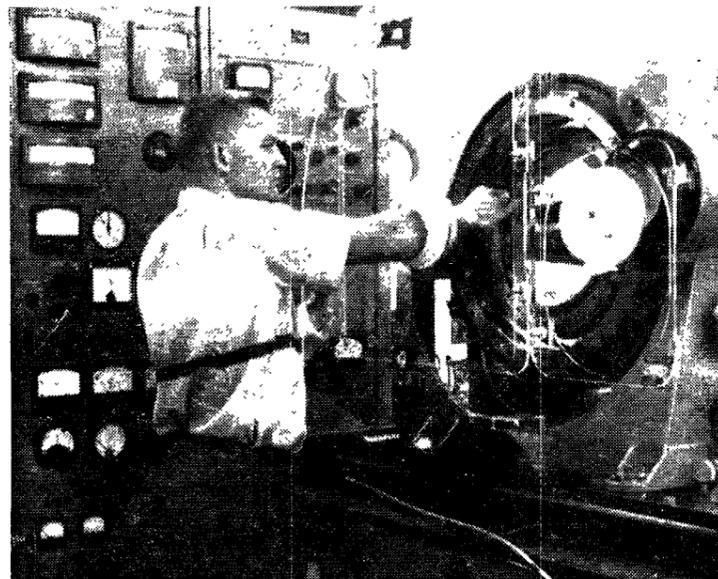
And this is what the ABMA Guidance and Control people wished for, worked for, and got . . . an electronic tunnel to send their missile down. They developed the Delta Minimum Guidance System, a scheme of guidance now used in all the Army's ballistic missile trajectory guidance.

Unlike a gun barrel, the electronic tunnel is inside the missile. It is made by a gyroscope that feels the yaw, pitch, and roll of a missile and signals the feelings or sensations to a computer that calculates corrections for moving the fins of the missile.

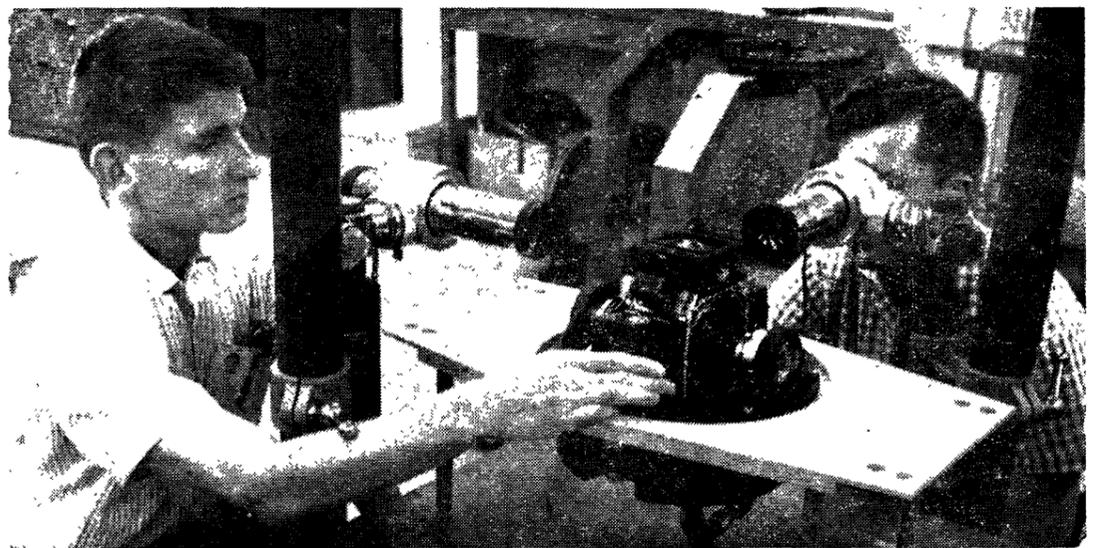
That guidance and control system holds the missile true to the thousandth of a degree, which is more truthful than most folks are.



THE GYROSCOPE IN A MISSILE'S GUIDANCE SYSTEM must be correct to the thousandth of a degree. Before it goes into the missile, it must be tested. Here, left to right, Marvin Belew, Stanley Thomas, Eli Brello and Carlo Coscia of ABMA's Guidance Control Lab run an acceptance test on a guidance package. The package is placed in the platform and a test is run for six minutes. A beam of light registers on a graduated line in the auto-collimators they look through and detects optically any deviation caused by five of the earth's movements that the platform simulates.



FIGHT FIRE WITH FIRE, an old saw is given a new twist here: Test electronics with electronics. Ragan Edmiston, a summer student from Louisiana Tech, is making a preliminary adjustment on a Gyro test stand prior to running an acceptance test on a gyroscope in ABMA's Guidance Lab. The gyroscope is a component of the guidance platform used in the Pershing missile system. (Additional picture on page 7)



THE ABMA GUIDANCE CONTROL LAB IS CONTINUOUSLY WORKING toward perfection. Bob Smith and Aubrey Rogers here run an optical engineering test on a prototype model of a gas-driven guidance platform. Prototypes and new variations are checked and double-checked in the belief that no matter how good the present component is, there is one better.

A couple of boots spent their first night in camp. "Boy, my cot was lumpy and uneven," declared one the next day. "How did you make out last night?" "Oh, I did all right," shrugged the other boot. "I got up out of my cot several times during the night and rested."



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AND THEN BUGS HAVE TO BE REMOVED—Steve Labyack is not literally picking bugs out of missile parts, but he is looking for lint or chipped bearings, even scratches and microscopic defects. He is here studying a ring of bearings in the Guidance and Control Lab of ABMA that can have no defect or foreign matter whatsoever. A piece of lint from a facial tissue might cause a malfunction in a sensitive guidance equipment.



THE SKIN YOU LOVE TO TOUCH can be no more flawless and smooth than the surface of the inner gimbal of the guidance platform in a Pershing missile. Here Bob Kruse of ABMA's R&D Operations looks for flaws. If a rough edge or unsmooth surface is on the gimbal when it is placed in the missile, it could roll like a log through rapids.

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Civil Service Jobs Opened for Missile School Instructors

A change in the employment status of civilian contractor instructors at the Army Ordnance Guided Missile School here was announced last week by Col. William J. Macpherson, commandant.

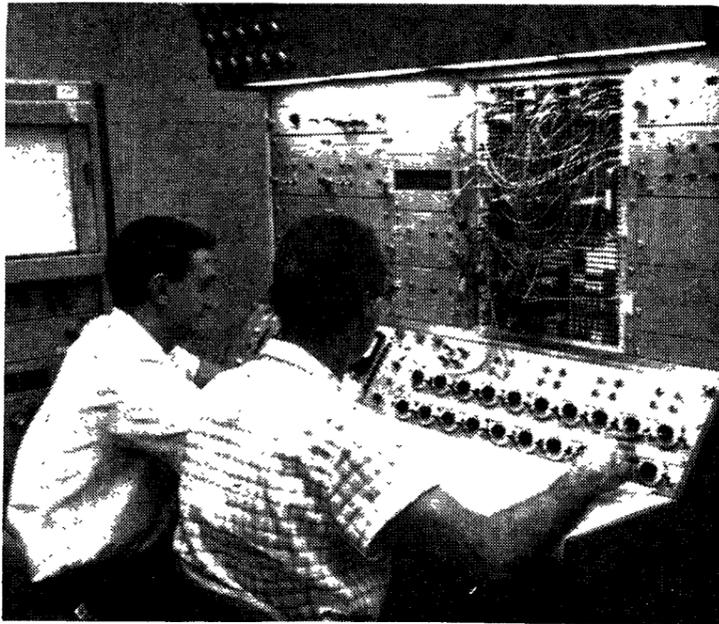
Some 116 civilian instructor positions heretofore filled by Philco Corporation, Radio Corporation of America and Associated Aero Science Laboratories, Inc. under contract with the Missile School are to become Civil Service positions under a Department of the Army directive, Colonel Macpherson said. The change is to become effective over a period of eight

months, beginning immediately.

Col. Macpherson said that all present civilian contract instructors as well as other interested persons will be given an opportunity to file an application for employment under Civil Service as training instructors. Experience in class room instruction of electronics and the mechanical phases of missile systems is required.

The Civilian Personnel Office at the Army Ordnance Missile Support Agency, is now accepting applications for these positions. Applications may be made on Standard Form 57 which can be obtained from post offices or at any Federal activity.

Beginning salaries are \$5355 per annum for grade GS-7; \$6435 for grade GS-9; and \$7560 for grade GS-11. The grade and salary offered will be based on the applicant's qualifications.



ONE WAY TO LEARN whether you have a good match or not is to strike it; then you don't have a good match anymore. But guidance systems are different—you have to know whether you have a good one before you fire it. So Robert Alongi and Paul Lee check one out on an electronic computer in the Guidance Lab at ABMA before it goes into the missile. By plugging that mass of wires into the right circuits, they can create any condition of outer space that man knows will affect the guidance system. They can make the guidance system react to upsurges of air, uneven burning, and strong headwinds.

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'60 Chevrolet

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'59 Ford Fairlane

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1959 Cadillac Cpe.

DeVille, full power and factory air-condition, Southern car. Sharp!

1958 Cadillac Cpe.

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BOWLING:
Anyone in the Sporting Goods supply should make money "hand over fist" for this Christmas season.

With "tempers" high and "averages" low, many "Don Carters" are looking for new bowling balls or shoes. With some of the "alibis" even a new bowling bag might help.

The "crying towel" was really put to use this last week at the Redstone Arsenal Bowling Lanes. In one league, a score of 145 for THREE GAMES was bowled, in another league, the lead changed so fast that a new organization had to be formed to continue the league.

With the fall season almost over, and the practicing and alibis over, tournaments will be starting. As soon as notice of the tournaments are given, it will be published in the Rocket. Bowlers are requested to watch the Rocket and consult the bowling lanes for any future tournaments open to them.

Secretaries having outstanding events that would interest the bowling fans are requested to notify the Redstone Arsenal Bowling Lanes manager. He, in turn, will see that it is published in the Rocket. Last week's Rocket published the unwritten code of ethics for bowling and bowlers. This week stenciled copies of the code are available at the counter of the Bowling Lanes.

The following standings are for the various leagues that bowled at Redstone Arsenal Bowling Lanes as of Oct. 29.

LEAGUE STANDINGS

OGMS Officers League

Team	Won	Lost
Hawks	15	5
Signaleers	14	6
R & C	12	8
Bohunks	12	8
Researchers	8	12
Alleycats	7	13
OTD	7	13
Troopers	5	15

Outlaw League (New League)

Team	Won	Lost
Marines	4	0
Mil. Per. AOMSA	3	1
3rd ETC No. 1	2	2

3rd ETC No. 2	2	2
Hq-Hq AOMSA	1	3

RSA E. M. League

Team	Won	Lost
Special Services	22½	5½
ARGMA No. 1	15	9
ABMA	15	9
Medics No. 2	16	12
Hq AOMSA	12	16
Medics No. 1	12	16
55th U. S. Army Band	8	20
ARGMA No. 2	7½	20½

Army-Air Force Officers League

Team	Won	Lost
Lucky Strikes	42	14
Pin Splitters	36	20
King Pins	32	24
OGMS	29	27
AF Jupios	28	28
Jupiters	26	30
Black Jacks	19	37
Raiders	14	42

Thur. Morning Ladies League

Team	Won	Lost
Team No. 6	17	11
Team No. 5	15	13
Team No. 1	14	14
Team No. 3	14	14
Team No. 4	13	15
Team No. 2	11	17

E. M. Mixed Couples League

Team	Won	Lost
MCSCHLETTS	16½	11½
Mor-Rums	16	12
The Four H's	15	13
The Hot-Shots	15	13
Cool Toms	15	13
Team No. 8	14	14
G. E. R. M. S.	12½	15½
Spoilers	8	17

Redstone Scratch Trio League

Team	Won	Lost
Havolinas	19	11
Pick-Ups	18	12
Proprietors	18	12
Strikes	17	13
Splits	16	14
Unknown	13	17
Rusty Needles	11	19
Pencil Pushers	9	21

RSA Officers League

Team	Won	Lost
Bandits	12	6
Robe's	19	9
Alleycats	16	12
Industrialists	16	12
Medico No. 5	11	17

Spoilers	10	18
King Pins	10	18
Slow Burners	8	20

School Troop Command League

Team	Won	Lost
Co B No. 2	15	9
Signal	14	10
1st ETC	13	11
2nd ETC	12	12
Co B No. 1	11	13
Hq-Hq	11	13
Co A No. 2	10	14
Co A No. 1	10	14

Officers Mixed Couples League

Team	Won	Lost
Pin Droppers	37½	16½
Hi Counts	37	17
D-Yanks	33	21
Bombers	32	22
Red Stones	24	30
Pin Poppers	20	34
Bowl Weevils	18½	35½
D-Doms	14	40

Officers Wives League

Team	Won	Lost
Rock-Rollers	20	8
Rockets	18	10
Alleycats	15	13
Headpins	13	15
Missilettes	12	16
Untouchables	12	16
Cherry Pickers	12	16
Unpredictable	10	18

FOOTBALL:
Football season has come to an end with UTC/STC winning the Championship and A-B OGMS-STC being the Runner-Up. A-B OGMS/STC still hold to the theory that UTC/STC was "lucky" so a tell-tale game is being played Friday night October 27, 1961 at Linton Field. This game will have no bearing on the final standings. In the final game of the season last Monday, Oct. 23, AOMC put up a struggling first quarter in which the score was 7-6 in favor of UTC/STC. It appeared that AOMC might pull an upset, but the heavier line of the UTC/STC team began to tell, and after the first quarter, AOMC had no chance. All in all, credit is due the teams that participated in the Post 6-man tackle League of Redstone Arsenal for the year 1961. With military duties scheduled at the same time as football it was hard for most teams to make a team or to have a complete team all at one time. With UTC/STC winning the Championship in football, it looks as though the sport supremacy of Redstone Arsenal, which

was once held by Hq AOMSA, has now been taken by UTC.

Plans are being made for the selection of the All-Stars from two commands, OGMS/STC and RSA. The players selected will represent their respective commands on the 23rd November (Thanksgiving Day), 1430 hours at Linton Field. These two teams are coached by 1st Lt. Joel Thomas, OGMS, who will coach OGMS/STC All-Stars; and Capt. Richard Nidever, AOMC, who will coach the RSA All-Stars.

BASKETBALL:
Even though the weather has been wonderful for outdoor activities, it is still time to get prepared for the coming basketball season, which will start December 4. The Post Gym is available for practice. All reservations for the use of the Post Gym will be made to 876-4032. Basketballs and athletic shoes are available for issue. A team will not be allowed over two practice sessions a week and can use only a half of the court at a time, because of the number of teams entered in the coming Post League. Practice days, or nights, will be Monday, Tuesday, Thursday, and Friday, 1300-2000 hours. A reminder: The rosters

of all entries must be in the Sports Branch Office no later than November 1 with pertinent information as requested in Circular 28-2, dated October 23. A meeting of all coaches and managers will be held 1300 hours November 1 at the Sports Branch Office, Bldg. 3648. The Basketball Officials' Clinic will be held from November 27 through December 1. Anyone interested, call SFC James Whisenant, 876-2943, Sports Office, Bldg. 3648.

VOLLEYBALL:
More participation and interest is expected this year in the Post Volleyball League. The volleyball season is starting at the same time as basketball, in that way a good team can be selected to represent Redstone Arsenal at the Third U. S. Army Volleyball Tournament to be held in March. Volleyball coaches or managers are reminded that the league starts on December 5 and should start processing (See VOLLEYBALL on Page 9)

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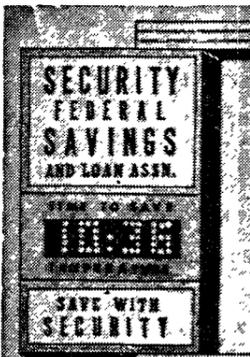


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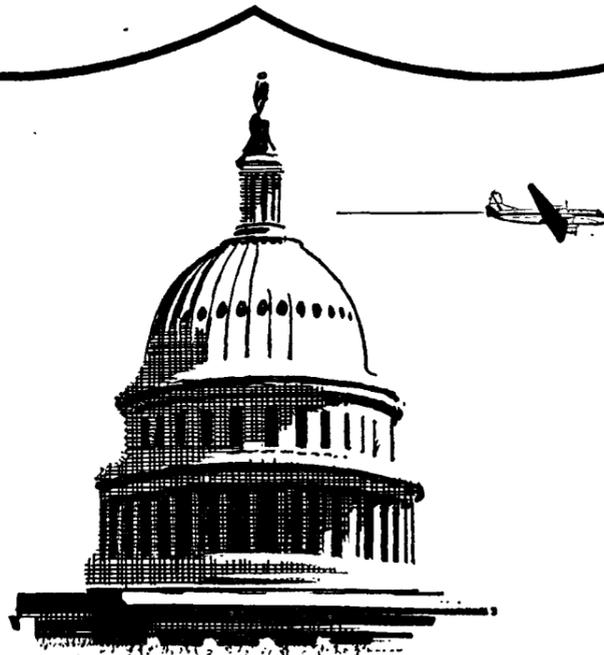
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FIELD DAY—The Golf Group sponsored by the Redstone Arsenal Officers Wives Club held a Field Day Wednesday as the final meeting of the Group this season at the Arsenal golf course. Everyone came in costume and shot a nine-hole game fraught with extra hazards such as left-handed drivers and hoola hoops. Ready to start (top picture left to right kneeling) Mrs. H. H. Wishart, Mrs. Stan Sheridan and Mrs. E. W. Powell. Standing are (left to right) Mrs. R. L. Spragins, Mrs. W. W. Witten, Jr., Mrs. Glenn Crain, Mrs. R. L. MacIntosh, Mrs. W. B. Lewis, Mrs. J. G. Zierdt, Mrs. N. I. Reiter, Mrs. S. C. Holmes and Mrs. H. M. Murray. In the bottom picture left to right are: Mrs. B. F. Register, Mrs. R. W. Burkett, Mrs. W. H. Clisson, Mrs. George Grace, Mrs. Charles Payne, Mrs. Frank Napper, and Mrs. William Kaiser.



VOLLEYBALL

(Continued From Page 8)

a team now. A coaches and managerse meeting will be held November 20 at the Sports Office, Bldg. 3648, 1300 hours. A practice

night has been reserved for use in the Post Gym for interested volleyball teams. Wednesday night, or if a team has free afternoon time, Wednesday afternoon will be available. Reservations must be made through the Post Gym, 376-4032, Saturday and Sunday, 1300-

1600 hours, will be on a "first come, first serve" basis. A reminder: Team rosters must be in the Sports Office by November 20.

Golfers Conclude Season's Play In Costume

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club wound up the season with a field day at the Arsenal Golf Course on Wednesday, Oct. 25.

Golfers played the course in costumes ranging from an overseas airmail letter to bathtowels and a shower cap.

Extra hazards for the 21 golfers were added to the course such as left-handed drivers, stools to sit on while shooting, and a hoola hoop to drive through.

At the end of the nine holes, Mrs. Glenn Crane's score was low gross, Mrs. S. C. Holmes, low net;

Mrs. W. D. Lewis, closest to pin on No. 8; Mrs. Charles Payne, low putts.

The best costume prize went to Mrs. R. L. McIntosh, a beatnik.

Other prizes were presented to Mrs. B. F. Register, Mrs. T. T. Moxley, Mrs. R. L. Spragins, Mrs. George Grace, Mrs. H. H. Wishart, Mrs. Stan R. Sheridan, Mrs. William W. Witten, Jr., Mrs. William Kaiser, Mrs. O. M. Hirsch, Mrs. R. W. Puckett, and Mrs. E. O. Sentar.

Mrs. Frank E. Napper and Mrs. E. W. Powell, tournament committee, made the awards.

DINNER MEETING PLANNED

The American Society of Tool and Manufacturing Engineers will hear Mr. Lee Hammond on chemical milling at the Holiday Inn dinner meeting tomorrow night.

Mr. Hammond is a technical service representative with the Turco Products, Inc.

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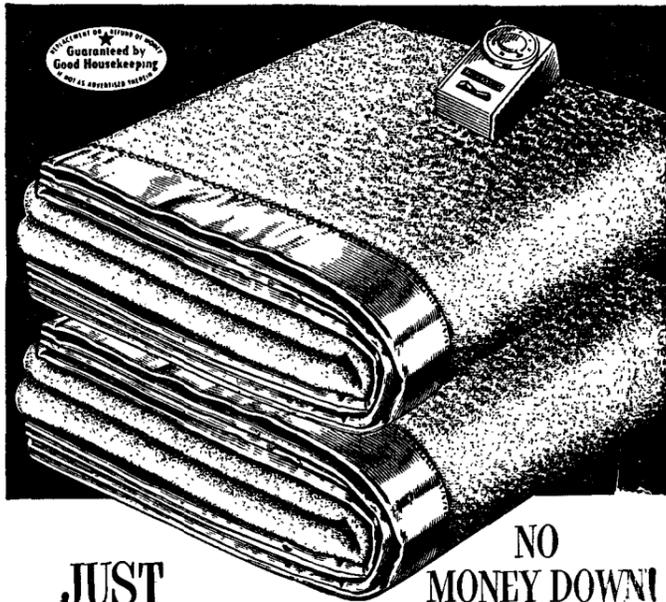
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The Sports Car Buffs

By Pat Patterson

With winter fast approaching activities among the local sports car clubs are tapering off slightly. We only have one event to report on this week, the Alabama Sports Car Club's "Rallye Royal" held Sunday, Oct. 22.

Starting from Singleton's Bar-B-Q on Highway 43 north of Florence, the route took us through three states covering 200 miles and consuming about six and one-half hours. Rallymaster Jim Baker put in a lot of time laying out the course. It took us through some of the most scenic parts of Alabama, Tennessee and Mississippi with a lunch stop at Shiloh National Park.

Fourteen cars, nine manned by members of Twickenham AC, started the event. Penalties were incurred at the rate of one point per second early or late at a control and ten points per tenth of mile over or under the corrected rally distance. Instructions were clear. However in a few places navigators began to wonder whether they made the correct turn. In one instance the words "A few miles" turned out to be nearer ten. Confidence was strained to

the hilt.

No attempt to score the event was made. Final results were in the hands of the contestants Tuesday afternoon. Overall winners were A. Lynch and Pete Glenn of ASCC with 166 points. Second was garnered by John and Martha Hardiman of TAC with 239 points. This seems to be a repeat of the Rallye DeNoir for the finishing order is the same. Web Mayfield and I were the first Huntsville car. we finished fourth, followed by Bill McClain and Vick Baucom in fifth and Chuck Rayburn and Jan Patterson in sixth.

The Tennessee Valley Region, SCCA met Oct. 28 at the Kings Inn Motel and the Tri-States Rallye the following day. My deadline prohibits coverage of these events. Complete details will be in next weeks column including the new officers for TVR-SCCA 1962 and results of the rally.

Among coming events is a tenta-

tive Gymkhana scheduled for early November, sponsored by the TVR-SCCA. No date or details are available at this time. However as they become known they will be passed on to you who are interested. The Tennessee Region, SCCA has their Great Tennessee Rallye scheduled the 18th and 19th. The event is claimed by the organizers to be more of a test of ability to follow instructions and stay on course than split second timing. Also on the tentative schedule is a Hare and Hound Rallye by the combined TVR-SCCA, TAC groups, scheduled for the latter part of the month.

Tomorrow night will be the last meeting of the 1961 summer phase of TAC. Trophies will be awarded to the point champions and new officers will be elected. Again let me remind all members that this is a very important meeting. It is here that you have the opportunity to elect the officers who control the organization for the next six months. Weather permitting, the meeting will be held at Leroy and Martha Barnes in Madison.

If it rains, the meeting will be at George's Restaurant. Those who

do not know where the Barnes's live, will find rally instructions to the Barnes posted in front of George's between six and seven p.m. Let's all turn out and make this a very successful electrica meeting.

With frost on the pumpkin it behooves all of us to exercise a little more caution on the roads. It takes very little to make roads slick as glass. One false move where it looks dry but isn't can lead to a damaged car, injury and even death. So keep alert and avoid winter pitfalls. Enjoy another year of excellent motor sport in the Tennessee Valley.

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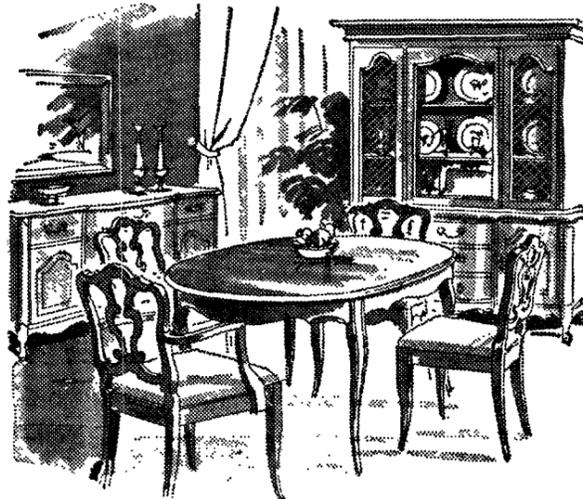
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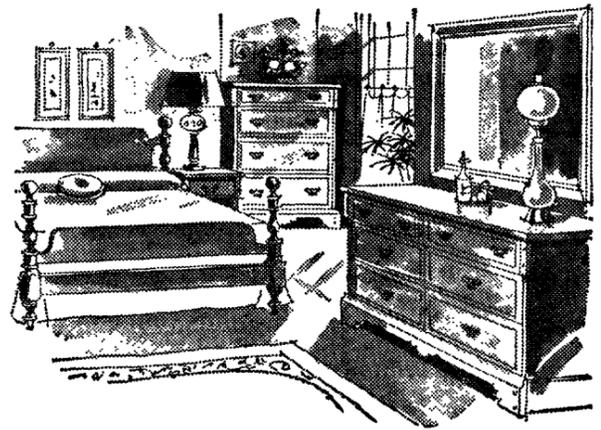
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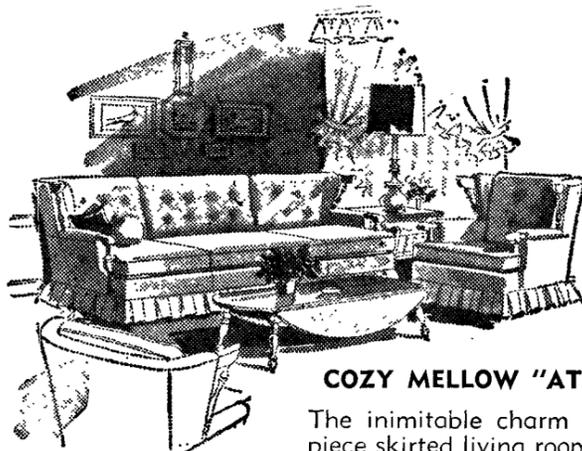
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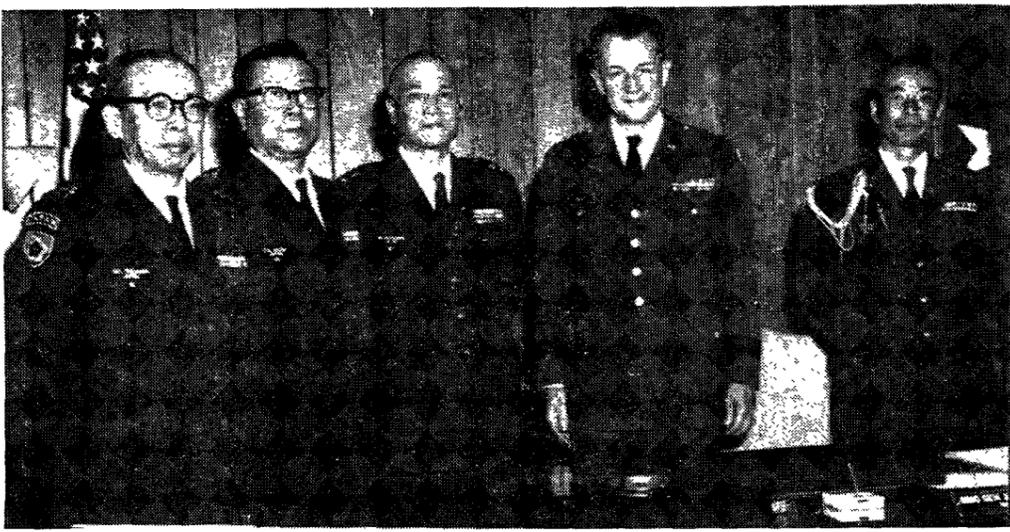
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JAPANESE VISITORS—Recent visitors to the Army Ordnance Missile Command pose with Brig. Gen. John G. Zierdt, Commander of ARGMA, one of the stops on their round of orientations and briefings. They include: (L-R) Col. Atuski Takanami, Chief of Plans and Coordination Branch; Col. Toshio Ikeda, Commander, First Advanced Weapons Training Unit; Maj. Gen. Iwaichi Fujiwara, Chief of Staff of Japan's Eastern Army; Gen. Zierdt and Col. Toshikata Mai, Defense Attache, Japanese Embassy.

Golfers Play Scotch 4-Some

The final gesture in the organized golf season of the Redstone Arsenal Officers Wives Golf Group was a Scotch-foursome played by 24 couples on Sunday at the Arsenal golf course.

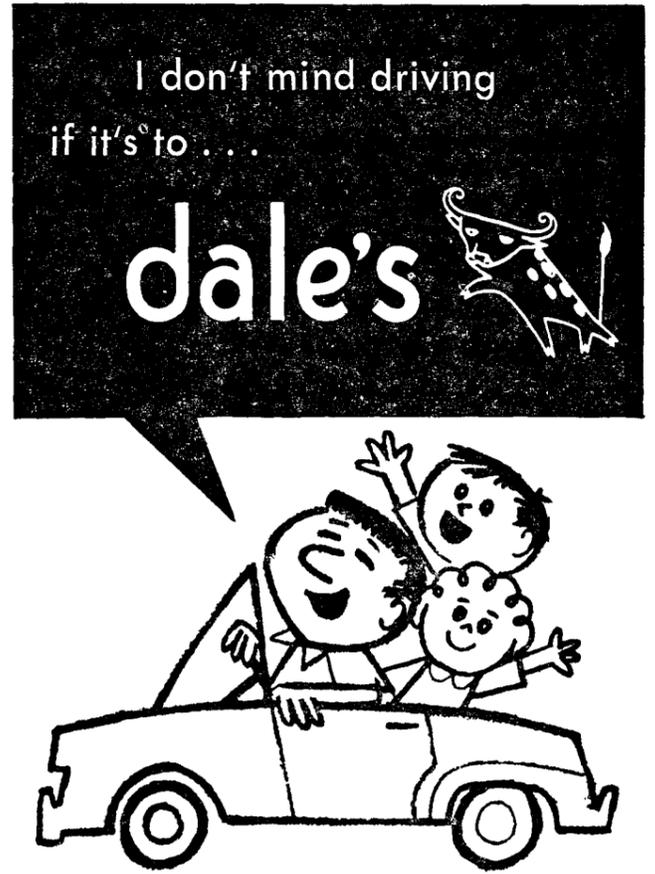
First flight winners were Maj. and Mrs. W. D. Lewis with Col. and Mrs. Glenn Crane runnersup.

Second flight winners were Maj. and Mrs. G. L. Grace with Capt. and Mrs. T. T. Moxley runnersup. In the third flight Col. and Mrs.

W. F. Kaiser won. Maj. Gen. F. J. McMorrow and Mrs. R. L. Spragins were runnersup.

At the end of play the golfers met in the Redstone Room at the Squirrel Hill Officers Club followed by a buffet supper.

Mrs. E. W. Powell made awards to the winners. Chairman of the wives Golf Group, Mrs. H. H. Wishart, presented a most valuable player award to Mrs. Spragins for her contribution to the Arsenal golf program, her participation, sportsmanship, and inspiration to other players.



PATENT ADVISORS NEEDED AT AOMC

The U. S. Board of Civil Service Examiners has announced openings for patent advisers with grades ranging from GS-7 (\$6345 per year) to GS-13 (\$10,635 per year) on Announcement No. 5-35-21 (61).

The Board has also announced the closing of two previous announcements:

Announcement No. 5-35-3 (58) for electronic fire control systems repairer at grades ranging from W-9 (\$2.56 an hour) to W-13 (\$3.18 an hour);

And Announcement No. 5-35-36 (59) for shoe repairer at W-8 (\$2.40 an hour). Applications on these two will be closed at midnight on Nov. 7.

All applications should be addressed to the Executive Secretary, U. S. Civil Service Board of Examiners, Army Ordnance Missile Command, Redstone Arsenal.

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At the Service Club

For about two weeks, I've been consciously ignoring those Christmas candles and glittery balls on display downtown right beside the pumpkins and Halloween masks. If this "get an early start" spirit keeps growing at its present rate, I predict that in a few years we'll have one continuous holiday that lasts for three months, and will be climaxed by the night St. Nick comes down on his witches' broom to chase the Thanksgiving turkey. Therefore, this week the Service Club is dedicated to sweeping away the leftover goblins and restoring order and sanity for a brief interval of non-holiday spirit before the turkeys and holly wreaths take over.

On Wednesday, Nov. 1, the EM Council will meet at 1330 hours for their regular monthly meeting. Then that evening at 1900

hours, the Advanced Dance Classes will begin in the Main Lounge.

The Shutter Club will meet on Thursday evening at 1900 hours in the Small Lounge.

Friday night we'll have a Fudge Party at 1800 hours, when homemade Fudge will be served from the kitchen. Then at 2000 hours, the variety of small games available for check-out here at the club will be the center of interest as we go into Small Game Night.

Saturday's feature attraction is Smoker Poker, beginning at 2000 hours.

Sunday Morning Coffee call will get the day off to a good start bright and early at 0930 hours. We'll have plenty of hot coffee and donuts too, so come by and join us for Coffee Call. The Sunday Night Record Dance will begin at 1900 hours under the title of Tops in Pops, and that's quite a title to live up to, so be assured we'll be trying to spin some lively disks.

Monday night we change pace

in our usual Ev starting at 2015

On Tuesday night, the Bridge Club will hold their weekly meeting at 1930 hours in the small lounge. Also on Tuesday, there will be a special beginner's Dance Class starting in the Main Lounge at 1900 hours. A variety of dances will be taught, so here's your chance to improve your ballroom techniques.

HISTORY:

The Ft. McClellan Service Clubs sent us a dilly of a variety show on the 21st of last month. We

were treated to two hours of dancing, singing, and comedy, plus an interesting magician's act. We hope to pay a return visit to McClellan in the near future, so keep in touch for details.

Our apologies for the trouble we had with the records at our usual Sunday night Record Dance—the turntable just couldn't make up its mind to stick to one speed. Let's look at the bright side, though—it did cause some unusual and interesting dancing.

FUTURE:

I notice that we're to have our

first Semi-formal dance of the season this month on the 14th. Semi-formal merely means coat-and-tie. Also, we have a three-act comedy scheduled for the 16th and 17th, "Will Success Spoil Rock Hunter." Then there's a pot-luck supper in the offing, a Ship Ahoy Dance later in the month, and perhaps, just perhaps, there will be an all-girl revue here on the 28th, entitled Isn't She Lovely starring a cast of magnificent proportions. Sounds like a good month? I hope so, and I hope we'll be seeing you at the club.

Margaret

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Industry-Army Program Reaps New Perspective In Qualitative Development

The California inventor who offered the Army first crack at a death ray made of two transistor radios and a tuba received a polite "no thank you."

So did the man from New Jersey who proposed using fans "of unusual size" to blow hurricanes out to sea.

But the gentleman who responded to an Army call for assistance in locating missile pieces scattered over a firing range with a suggestion that dogs be trained to search for and "point" the fragments as they would game birds had an idea that the Army thought merited close inspection.

His suggestion was one of the more unique that have resulted from a program called QDRI in use at the Army Ordnance Missile Command and its elements to let industry and business in on the Army's thinking.

No psychic breakthrough, the Qualitative Development Requirements Information program puts the businessman in close contact with Army Ordnance research and development plans and needs.

This operation gins some original and money-saving ideas from the industry half of the Army-industry team that plans and develops the Army's missiles and rockets under AOMC management.

According to Marvin Dinsmore, QDRI boss of the Army Ballistic Missile Agency, an element of AOMC, "Research and development is a big ball with a lot of inertia. If you can let industry in on your plans and they evolve, you can gain six months, a year, two years, in your program."

This is exactly what QDRI is designed to do, save money and save time.

"You have to let people know

what your problems are before they can solve them," says Frank Duvall, chief of the Army Rocket and Guided Missile Agency, QDRI section.

His branch is now receiving suggestions from various firms on compact missilery for guerilla warfare. The requirements were sent to more than 500 large businesses and 350 small businesses on the ARGMA QDRI list.

To qualify as a recipient of the Army's thoughts, the business must admit qualification information to its Army Ordnance District. There are 11 such offices covering the entire nation.

Company qualifications include necessary security clearances, evidence of research and development capability and a signed copy of a policy agreement.

As soon as an industry is approved, it is notified that it will receive information on what the Army is seeking in one or more of the 23 fields in which it can qualify.

After a company has indicated interest in a problem area, the Army continues to assist it by making reports available for study, by technical discussions and other support for industrial research.

If industry comes up with an idea that does not have application in Army missiles, the suggestion is not lost. Dinsmore, Duvall and their staffs direct the industry to the proper Army agency where the idea has a chance for adoption.

Many vital parts of the Army's missile systems have come from QDRI. The Pershing ballistic mis-

sile system, a selective range weapon being developed for Field Army use, started out as a qualitative material requirement and the Nike Zeus, had many of its supporting research problems solved by QDRI.

Although QDRI is only three years old, it has already proven its worth in ideas submitted. Of the 926 firms in ABMA's program, approximately 250 ideas on 12 projects have been received. ARGMA has 911 firms on its list with about 135 ideas on 4 projects received. Some contracts for industry have resulted.

Industry gains other benefits besides contract awards. QDRI provides a means of following the Army's thinking. Participants in the program are able to avoid unnecessary work on ideas that the Army is not liable to adopt.

According to Dinsmore: "Industry can see the trend in missilery now. QDRI also helps small business to find out our problems and help us solve them."

"We are pleased with the results to date," Duvall says, "And we are looking for some unique breakthroughs to come from this program in the future."

Industry is also pleased with the QDRI program. Typical of comment received was this statement by one major industrial participant; "We are firmly convinced that the QDRI program serves an essential purpose in ad-

vancing the state of the art in weapons development."

While going through a model home a man sat down on a newly varnished chair to rest. After

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FOR RENT — 6 room brick home, garage, attic, school bus connections, located at 2210 Dogwood Lane, Highlands Subdivision, available on or about November 10th, phone 539-7874. tfc

NEW FINANCE RATES. 5% interest on new automobiles, Government Employees Finance Co., Ft. Worth, Texas. Local agent, V. F. Carter, phone 539-2356, 2905 Bayless Drive, in Huntsville, Ala. tfc

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

FOR RENT — 1208 Humes Ave.. 4 rm. and bath furnished house. \$75.00 per mo. Phone 534-4123. tfc

FOR RENT — New Four Room House on Lake. Furnished, electric heat, air conditioned, dock and pier facilities. Apply Nolan Motel, Guntersville. Phone 582-3178. 11-8c

FOR RENT — Modern, 2 bedroom mobile home. Reasonable, located on Lot 44, Whiteway Trailer Ranch. For appointment Phone 772-6970. tfc

FOR SALE — McCulloch Super-charger, excellent condition, 2 aircraft type bucket seats, new U. S. diver's twin tank scuba outfit, complete. Phone 772-6632. 11c

BARGAIN SHOE CENTER — New shipments every other week First quality, low prices, men's, women's, and children's shoes. Located 4 miles west of Arab at Standard Service Station, Joppa Highway 69. Open Sundays 11-22p

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● Model Apartment Open From 2 p.m. 'til 7 p.m. Daily!
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Indoor outdoor living, soundproof walls and floors, beautiful kitchens, with custom built cabinets, living room drapes by Martin Interiors, choice of beautiful vinyl tile or hardwood floors, complete air conditioning, pre-wired for telephones—TV outlet available, spacious closets, complete laundry facilities (planned) ample parking for residents and guests, play area for children.
Glen Park Apartments Are Conveniently Located Near schools, shopping areas and churches. Only minutes from Redstone Arsenal and downtown Huntsville. But words can't begin to describe the full charm of these apartments, you must see them for yourself . . . right away!
DIRECTIONS Go North on Memorial Parkway to first street past Albert Pick Motel (Mastin Lake Road), go 500 yards—turn left—Glen Park Apartments at end of street.
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ROOMS FOR MEN — Nice and clean, close in, near Arsenal, phone 539-5205. tfe

FOR SALE — 1958 Plymouth V8, 9-passenger station wagon, radio, heater, power steering and brakes, automatic transmission, W. W. tires, best offer. Call 536-5581, ext. 503 or 536-8105. 1tc

FOR SALE—16' Lyman Lapstrake with 30 h.p. Johnson, electric start, skis, tilt trailer, \$400.00. After duty hours call 877-5951. 1tp

1514 CLUB VIEW DR., NW—Two bedroom and den or 3rd bedroom, 1 1/4 tile baths, 6 big closets, utility with W&D connections, LR and separate DR with glass door to patio overlooking C.C. Golf Course, Built-in cooking units, D.W., air cond., sewers, TV cable and other tras. Price \$18,500. Buy equity on loan now worth \$13,925. (Payments approx. \$105 per mo. incl. tax and ins.) or refinance. Call 536-3214. 1tp

FOR SALE BY OWNER — 1959 T-Bird. Like new in every way. Power steering, power brakes, power seats and windows. Radio heater, real leather seats, 29,000 actual miles. See at Don & Berts Trailer Sales. Phone 536-7345 from 9 a.m. to 5 p.m.

WANTED TO BUY — New and used house trailers. Call 536-7345. tfc

(Continued on Page 15)

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100% VA LOANS OR MINIMUM DOWN FHA ONLY \$200 CLSNG COST
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Wantads

(Continued From Page 14)

FOR SALE — 1955 Cadillac 62 coupe, power brakes and steering, rebuilt engine, trans., carburetor, air conditioner. Best offer over \$1000.00. Phone 876-5459. 1tc

FOR SALE BY OWNER — 1962 Brand new GMC pick-up Custom cab, wide box with long wheel base. 2 tone paint, heater and defroster. Driven from Michigan to Alabama. Cost new \$2,442. My price \$1995. See at Don & Berts Trailer Sales. Call 536-7345 from 9 a.m. to 8 p.m. 1tc

FOR SALE — Beautiful '57 Ford Fairlane 500, solid white, deluxe interior, radio, heater. new W.W. tires, extra clean. Must see to appreciate. \$685.00. Ph. 534-5528. 1tc

FOR RENT — 2-4 room duplex furnished apartments, one bedroom, gas heat, near Five Points East Shopping Center. Available now. Also 6 room furnished house. For appointment call 534-5714 or see Bruce Patton at Bruce's Jewelry, 112 E. Clinton St. 1tc

FOR RENT — Desk and/or office space for rent. Available Nov. 15. A.B.S. Secretarial Service, 408 Clinton Ave., W. Phone 534-6451. ttc

FOR SALE — Late model Farm-all Cub Tractor and equipment. Good condition. \$600.00. Call Coy Puckett, 877-2151. 1tp

FOR SALE — Perfect economy car, extra clean '54 Plymouth, all extras, good tires, baby blue and white, \$325.00. Phone 534-5528. 1tc

MUST SELL — Being transferred 2 Westinghouse air conditioners, 1½ and 1 h.p., used 2 mos., take up payments. John Force, 3507 Beaty Rd., 534-8072. 1tp

FOR SALE — American Flyer electric train, two transformers, track mounted on plywood. Many accessories. Also boys Western Flyer bicycle. Phone 536-7528. 1tp

FOR SALE — St. Bernard puppies. Herman H. Floyd, Rt. 4, Box 88, Athens, Ala. Phone "Thiokol" Redstone Div., Day phone 876-8633; Night phone 232-3561, Athens, Ala. 11-8p

HOME FOR SALE
Cost of living high? Not in Hartselle, 40 minutes to Bldg. 5250. Excellent home and neighborhood for children. Consider these pluses: Corner lot, separate 2-car garage with utility room attached, 3 bedrooms, large living room, fireplace, dining room, large fenced-enclosed backyard, one block to high school. Other extras. Just \$12,500. Call Hartselle SP 3-9343. 1tp

FOR SALE — Automobile - Television - 1955 Buick Special, Power Steering-Brakes, hardtop, very good condition. \$495.00. Television, 17" table model, \$39.00. Scott, 876-1446, 534-7384 after 5:30. 1tp

FOR SALE — 485 acres farm land, located in Morgan County, 1½ miles from Florette. If interested see Mrs. J. O. Beal on Route 3, Arab at Eddy, Ala. 1tp

FOR QUICK SALE—Delux Mobile Home—Victor Supreme—50x10 Early American interior, 2 bedrooms, large bath with elec. washer. Also included—2 ton air cond., 45x9 awning. Will sell \$3500 equity for \$500 cash or anything or equal value. May be seen anytime at Trailer Haven, Lacey's Springs. Contact Mr. Lawson, Mgr. to see this bargain. 1tp

FOR SALE — Beautiful custom built, 8' knotty pine bar, 5 stools, built-in indirect lighting, ice crusher, alcohol resistant finish, like new condition, also, 2 pc. living room suite, 1 sofa-bed and matching chair. Call 539-5422 after 5 p.m.

FOR RENT — 3 BR furnished house. Includes television, auto. washer, deep freeze, electric heaters, 2 minutes from Patton Rd., and Goss Rd. Arsenal gates. Prefer 1 year lease. \$100.00 a month. 3507 Beaty Rd., 534-8072. 1tp

FOR RENT — Furnished apartment for couple, 601 Holmes Ave., N.E., phone 534-5763. 1tc

FOR SALE — 1952 Chevrolet four door sedan with radio and heater, in good mechanical condition, has two new tires and three in good condition. Would be excellent buy for someone needing cheap transportation to and from work or as a hunting car. Those interested please call 876-1836 during duty hours or 536-5935 after five o'clock.

FOR SALE: Used gas wall heater and thermostat 27,000 BTU -- \$50. Minolta Autocord reflex 3.5f camera—\$60. 536-2993 after 5:30 p.m. 11-8p

FOR SALE—Brick home on Green Mountain, 1600 square feet floor space, garage attached. Two ceramic tile baths. Forced air heat. Rock fire place and flower planter. Automatic dish washer and electric stove. Call for appointment, 534-7016. 1tp

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GOLFVIEW PARK — Brick home on golf course. Three bedrooms, living room, dining room, den, 2 baths, patio, garage, modern electric kitchen with dishwasher and breakfast space. Owner transferred. Assume FHA loan with monthly payments about \$120. Equity \$1,995. Part of equity can be financed. Phone 539-7804. 1tc

FOR RENT — 3 bedroom home on large fenced lot, stove and refrigerator furnished, \$110.00 per month plus utilities. Call 877-4040 after 5 p.m. 1tp

FOR SALE—2 lots, 6 room house, \$5500, equity of \$2000, payments \$32.09 per mo. City water, gas, heat. Located at New Hope. Call 723-2791. 11-8p

FOR SALE — One McCulloch Supercharger, excellent condition. 2 aircraft type bucket seats. New w. s. divers twin tank Scuba outfit, complete. Phone 772-6632. 1tc

FOR SALE — Coldspot refrigerator, 11 cu. ft., excellent condition. \$60.00. Call 539-6423. 1tp

FOR RENT to one gentleman — private bedroom, cedar lined closet with refrigerator, private entrance, private bath, garage, everything furnished. 422 Eustis Ave., Phone 534-3217. 1tc

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Assorted colored brick homes near Arsenal work, city playground and schools.

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ARGMA FSO Contractors	100
ABMA Contractors	97
Thiokol	89
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OGMS	99.74
ARGMA	99.67
ABMA	96
AOMSA	94
AOMC	93
Air Force	92
Troop Command	60
Thiokol	96
ARGMA FSO	96
Rohm and Haas	89
ABMA	81

Maj. Garcia Is Chief of ARGMA's Procurement Div.

Maj. Orlando Garcia has been appointed as the Chief of the Procurement Division of the Army Rocket and Guided Missile Agency's Industrial Operations, Brigadier Gen. John G. Zierdt, Agency Commander, announced this week. Maj. Garcia comes to his new job after a tour of duty on the Industrial Operations Projects Staff. Contracts under his responsibility amount to nearly \$300 million of the Army's procurement funds.

The veteran officer came to Redstone Arsenal in June of 1959, after graduation from the Command and General Staff College at Fort Leavenworth, Kansas. He came on active duty at Fort George G. Meade, Md., in 1942 and has been on active duty since. His assignments have included

tours of duty in Fort Lewis, Wash.; Fort Knox, Ky.; Aberdeen Proving Ground, Md.; Pomona Ordnance Depot, California and Jefferson City, Mo.

Overseas tours by Maj. Garcia include participation in the European Theater of Operations during World War II and service in



MAJ. ORLANDO GARCIA

Korea from 1950 to 1952. For his part in the Korean War he received the Bronze Star Medal. He also served on the Staff of the Ordnance School in Germany from 1955 to 1958.

His civilian schooling includes graduation from Antonito (Colo.)

High School and three years at the University of Maryland.

Married and the father of a son, Richard, 17, the Garcias live on Redstone Arsenal.

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Potential Students Urged to Prepare Now for Enrollment

Employees desiring to enroll at the University of Alabama Huntsville Center for the first time, beginning with the winter quarter, were urged today by John S. Hinkle, AOMC Career Management & Training Officer, to apply now for admission.

New students should apply well in advance of the registration period beginning Jan. 2, 1962. High school and college transcripts must be filed with the Center Registrar and approval obtained from the Tuscaloosa campus before applicants may register or attend classes. This applies to undergraduate and graduate students.

The present academic quarter has the highest enrollment in the history of the Center. Delays in obtaining admission approval may be encountered next quarter due to Christmas holidays and heavy enrollment. Late applicants may experience difficulty in entering.

Supervisors were reminded by Mr. Hinkle to process requests and justifications promptly to Agency Civilian Personnel Offices in cases where subordinates will be assigned to the Huntsville Center for training at Government expense. Regulations require prior approval for training in non-government facilities. Therefore supervisors need to arrange for training now.

Employees and supervisors may obtain additional information and assistance from Civilian Personnel Office Representatives and Employee Development Officers in ABMA, ARGMA, and AOMSA.



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