

# The Redstone Rocket

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VOL. XI; NO. 8

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JULY 4, 1962

## Missile Command Gets A New General Officer

Brig. Gen. Howard P. Persons Jr., a combat artilleryman and qualified parachutist, will report for duty at the Army Ordnance Missile Command in September.

Gen. Persons has commanded the 32nd Artillery Brigade (Air Defense) in Germany since last November.

He will be the third general officer at AOMC Headquarters. Maj. Gen. Francis J. McMorrow commands the organization.

Brigadier General Richard M. Hurst is Deputy Commanding General, Ballistic Missiles. The third position for a general officer, Deputy Commanding General, Guided Missiles, has been vacant since Brig. Gen. John G. Zierdt moved to a new assignment in Washington earlier this month.

Gen. Persons, 49, is a native of Monticello, Ga., and graduated from the U. S. Military Academy in 1936. He is married, has a son and a daughter.

His World War II Service included participation in six campaigns in England, North Africa, Sicily, Italy and France with the 34th Artillery Brigade. Other overseas tours have included service in Korea in 1954-55 with the Eighth Army as Executive Officer, Second Infantry Division Artillery; Executive Officer IX Corps (Group Artillery) and as advisor to the Chief of Artillery, Republic of Korea Army.

He completed the airborne course at the Infantry School, Ft. Benning, Ga., and qualified as a parachutist in September, 1949. The General is a graduate of the Air War College, Maxwell Air Force Base, Ala.; the Armed Forces Staff College, Norfolk, Va.; and the Command and General Staff, College, Ft. Leavenworth, Kan., where he also served a tour as an instructor.

Gen. Persons has been overseas on his present tour with the 7th Army since July, 1959. His assignments have included: Assistant Chief of Staff for Intelligence; Deputy Chief of Staff, and Artillery Commander, 3rd Infantry Division Artillery.

(See Missile Command on Page 2)

## Group Life Plan Closes July 31

Applications for Group Life Insurance sponsored by the Redstone Arsenal Civilian Welfare Council will be accepted until July 31.

After that date, individuals desiring the insurance will have to apply through normal insurance channels and undergo a physical examination at personal expense to qualify.

Orientation briefings for the insurance program will be rescheduled on July 9 according to Leonard Brockman, program coordinator, in order to assure reaching everyone interested in the program which is comparable to the one at the Marshall Space Flight Center and which was requested by employees at the Army Ordnance Missile Command.

The company was investigated thoroughly by the Welfare Council before a final decision of acceptance was made. The insurance has been carried by the National Aeronautics and Space Administration personnel for the past 10 years.

Complete information on the company can be obtained at the orientation briefings. Brockman said that any division chief may contact the Civilian Personnel Office to reschedule a briefing in his area for 10 or more employees. The telephone number is 877-4124.

## To Rocket Contributors:

Everyone submitting pictures to the Redstone Rocket should forward glossy photos in multiples of two inches width (up to six inches for pics with three or more people). The Rocket's printer is not equipped to reduce 8x10s to column sizes. Portraits should be two inches.

Thanks.

—THE EDITOR

## Army Proposes 3 Units For Union Recognition

Army officials at Redstone Arsenal have proposed establishment of three units among Army employees to accord recognition to labor unions.

Local union presidents have been informed that the Army proposes to establish the following units at Redstone in accord with Executive Order 10988 and Civilian Personnel Regulation E6:

- Unit 1—All organizational elements of AOMC except AOMSA.
- Unit 2—All organizational elements comprising AOMSA.
- Unit 3—All organizational elements of OGMS.

A letter to union officials advised them that the Army was ready to receive requests for appropriate union recognition based on the standards set forth in the executive order or to discuss their views on the establishment of the units.

Establishment of the units which were based on areas of common employe interest was concurred in by Brig. Gen. Richard M. Hurst, Acting Commanding General of AOMC; Col. Thomas W. Cooke, AOMC Commander; and Col. Wm. J. MacPherson, Commandant of OGMS.

There are three organized groups among Army employes at Redstone Arsenal: the American Federation of Government Employees, Lodge 1358, the International Assn. of Machinists, Lodge 336; and the International Brotherhood of Electrical Workers, Lodge 558.

The executive order specifies three categories of recognition to be afforded organized employe groups, informal, formal and exclusive, depending upon the percentage of employes in a given unit who are union members and a community of interest.

There is no membership requirement for informal recognition. It gives the union the right to express its views to management. Management has no binding requirement to consult with a union in informal status under the executive order.

Formal recognition of a union requires that at least 10 percent of the personnel of a given unit be union members. It gives the union the right to be consulted in the formulation and implementation of policies affecting the work force, however a union in a "formal" recognition category speaks only for its membership.

Exclusive recognition gives the union the right to speak for all employes in the unit, to be consulted and negotiate on matters such as training, employe-management. (See Army Proposes on Page 2)



**ACHIEVEMENT RECOGNIZED**—James Anthony Thorne, 9th grade student from Stevenson Junior high school, receives a certificate from Col. F. F. Furphy, Chief of Staff, Army Ordnance Missile Command, in recognition of the originality and enterprise exhibited by Thorne to win the Armed Forces Day high school science display competition. Thorne's display dealt with chemical elements. Judges were scientific and professional personnel employed at the Missile Command.

## Missile Contracts Total \$44 Million

The Army awarded 14 Army missile contracts totaling \$44,127,048 in the week ending Saturday.

The awards cover work on the Nike Hercules, Hawk, Pershing, and Sergeant missile systems, and the RP-76 Target Missile all under the management of the Army Ordnance Missile Command.

Contractors receiving the awards include the Western Electric Company, the Raytheon Company, the Martin Company, Sperry Rand Corporation, Bendix Corporation, Douglas Aircraft Company, PRD Electronics, Inc., Hayes International Corporation, and Northrop Corporation.

Sperry Rand Corporation, Sperry Utah Company at Salt Lake City, Utah, received \$15,860,568 in three awards for work on the Sergeant missile system.

One award for \$9,829,245 funds production of Sergeant equipment.

Another for \$4,197,524 covers production of repair parts.

The third, \$1,833,799 is for work on Sergeant test equipment. Work authorized under all three contracts will be done at the Sperry Utah plant in Salt Lake City.

Work contracted for the Hawk guided missile system totaled \$11,722,294 in four awards to the Raytheon Company. Largest single award was for field maintenance and ground equipment in the amount of \$4,721,115. The work will be done in company plants in Andover, Waltham, and North Dighton, Mass.; Oxnard, Calif. and (See Missile Contracts on page 2)

## Model Nose Cones Will Simulate Fiery Re-entry

Model ballistic missile nose cones will soon make fiery re-entries from space here—hurtle into the earth's atmosphere at 14,000 miles an hour, glow in searing heat of 18,000 degrees Fahrenheit—yet never leave the ground.

Massive pieces of an 8,000 kilowatt plasma jet facility are being fitted together here in preparation for the first "live" test in the re-entry chamber in a few months.

A plasma jet would be roughly described as a space age wind tunnel.

Giving Army scientists a "peep-hole" in space, the chamber is used to stimulate the re-entry of a ballistic missile nose cone from space back into the earth's atmosphere.

Knowing more about how missile nose cones behave as they plunge to their targets is of vital interest to Army missilemen heavily engaged in programs—such as the Nike Zeus anti-missile missile system—designed to stop attacking ballistic missiles.

Using the plasma jet, Dr. Thomas A. Barr and his staff will be able to see and closely study for the first time the effects caused by the super blast furnace conditions of what missilemen call re-entry.

The jet assembly sprawls more than 150 ft. along the Research Laboratory's work bay at the Army Ordnance Missile Command. The main test section is 60 ft. long, a vacuum tank stretches an-

other 80 ft. and there are more than 10 ft. of connecting sections and valves.

The three quarter million dollar facility was built for AOMC by the Chicago Bridge and Iron Work Co. at its Birmingham, Ala., plant. A 6 ft. man can stand in the test chamber. The vacuum tank measures 12½ ft. in diameter.

(See Nose Cone on Page 2)



**MISSILE MODEL**—Jennie Carpenter is subbing for a missile nose cone in the new 8,000 kilowatt plasma jet under construction at the Army Ordnance Missile Command's Research Laboratory. The plasma jet facility will be used to simulate the re-entry conditions of a nose cone as it plunges back into the atmosphere.

# 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 Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

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## Missile Contracts

(Continued From Page 1)

Bristol, Tenn. Second largest of the Hawk contracts, \$4,400,000, was for items to support the NATO-Hawk program. The work will be performed in Raytheon plants in Andover, Waltham and North Dighton, Mass.

Another Raytheon award for NATO-Hawk items, \$1,427,479 covers work to be done at Andover, North Dighton, and Waltham, Mass., Oxnard, Calif., and Bristol, Tenn. The fourth award to Raytheon for \$1,173,700 funds manufacture of maintenance equipment at company plants in Andover, Mass. and Oxnard, Calif.

The Western Electric Company received the largest of three awards for work on the Nike Hercules air defense guided missile, \$6,002,537, to cover production of improved radar. A portion of the work will be done at the WECO plant in Burlington, N. C., the remainder subcontracted to General Electric at Syracuse, N. Y.

A \$1,594,500 award to PRD Electronics, Inc. Brooklyn, N. Y. is for test equipment to be used in connection with the Nike Hercules system. The work will be performed in Brooklyn.

The third award, \$1,077,299 funds production of missile structures for the Nike Hercules and went to the Douglas Aircraft Co., the work to be done in the Charlotte Ordnance Missile Plant, Charlotte, N. C.

Three contracts for work on the Pershing ballistic missile system went to the Martin Company, Hayes International Corporation and the Bendix Corporation. The Martin award, \$1,841,673, is to cov-

## Nose Cone

(Continued From Page 1)

Models of nose cones tested in the facility will be six inches in diameter, placed in the center of a one foot wide stream of plasma gas. The super-heated gas flowing by the model nose cone will closely approximate the conditions of actual re-entry.

The whole test chamber assembly is mounted on rails to slide it open easily or to add sections to the facility in the future.

The test chamber comes in 16 ft. sections and all parts may not be used in the first test. The facility is scheduled for full power operation before the end of the year.

To cool the arc heaters and nozzle on the plasma facility, demineralized water will be circulated around the parts at a rate of 2000 gallons a minute at a pressure of 300 pounds per square inch.

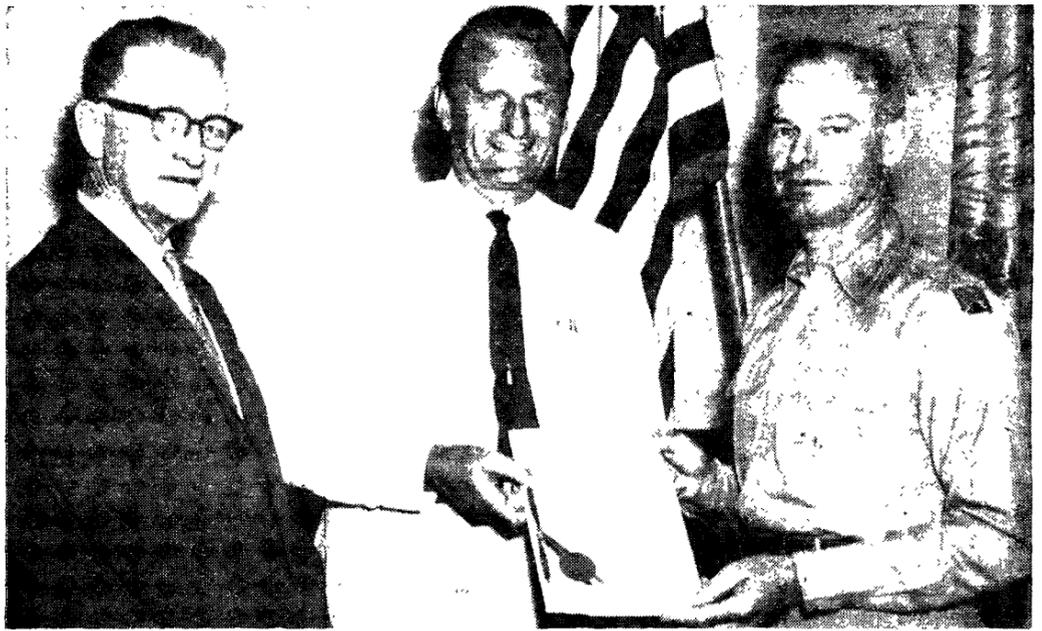
The AOMC plasma jet will use air to more closely simulate actual re-entry conditions. Argon and helium are the gasses normally favored by scientists because of the simplicity of their make-up.

The heated gas will blow past model ballistic missile nose cones at speeds in excess of 14,000 miles an hour and at temperatures up to 18,000 degrees Fahrenheit.

A series of 15 ports in the test chamber and two reinforced viewing windows will enable Dr. Barr and other Army Scientists to photograph and observe the effects on the nose cone as the jet stream buffets it.

er production of repair parts at their Orlando, Fla., plant. The Hayes International contract for \$1,542,500, funds work on repair parts of the Pershing missile trainer. The work will be performed in Birmingham, Ala. A \$1,059,296 award to Bendix is for manufacture of repair parts for Pershing in Teterboro, N. J.

A single contract went to the Ventura Division of Northrop Corporation in the amount of \$3,426,480. It is for flight services on the RP-76 target missile to be done at Ft. Bliss, Texas, repair and rebuilding of the target missile at El Paso, Texas.



**PATENT AWARDED**—Curt P. Herold (center) receives a patent award for a device to connect a missile erected on a launching pad to the source of fluid supply and to external testing instruments for final servicing before launch. Herold, a former ABMA employe, is now with the Marshall Space Flight Center. At left is William P. Murphy, Chief of the Army Ordnance Missile Support Agency's Missile Patent Office. Col. Henry Katz, Deputy Commander of AOMSA, made the award. The patent was applied for while Herold was with ABMA.

## Missile Command

(Continued From Page 1)

His duty tours in the United States since World War II have included tours at Ft. Bragg, N. C., as Commander, 80th Artillery Battalion, 82nd Airborne Division; and service in the Pentagon on the Army General staff most recently as Chief of Technical Intelligence Division, Office, Assistant Chief of Staff for Intelligence from July, 1956, until he reported for duty with the Seventh Army in Europe in 1959.

His awards and decorations include the Legion of Merit; Army Commendation Medal; the French Croix de Guerre Order of the Brigade and Order of the Corps; and the Republic of Korea Distinguished Military Service Medal.

## Army Proposes

(Continued From Page 1)

ment cooperation, services leave, pay regulations and reduction in force procedures.

Achieving exclusive representation requires that a union have in its membership, 10 percent of the employes of a given unit and obtain consent by signature of at least an additional 40 percent of the employes to act as their agent.

An election among eligible employes would be required if two or more unions aspire to exclusive status in the same employe unit.

During World War II the Army's Ordnance Corps provided the U.S. Army and 43 allied nations 57 billion rounds of small arms ammunition, 11 million tons of artillery ammunition, 12 million rifles and carbines, 3 1/2 million military vehicles and hundreds of other items.

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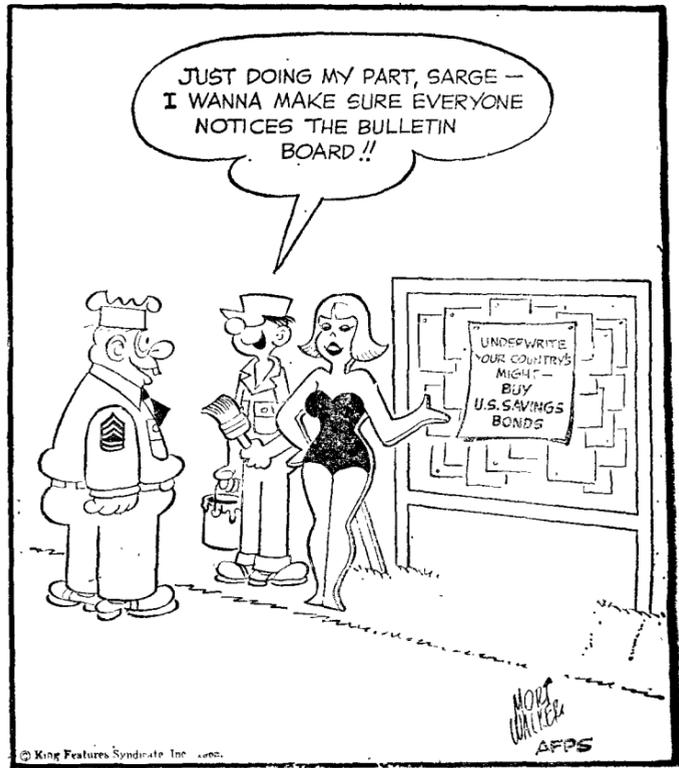


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LT. COL. R. A. NEWMAN

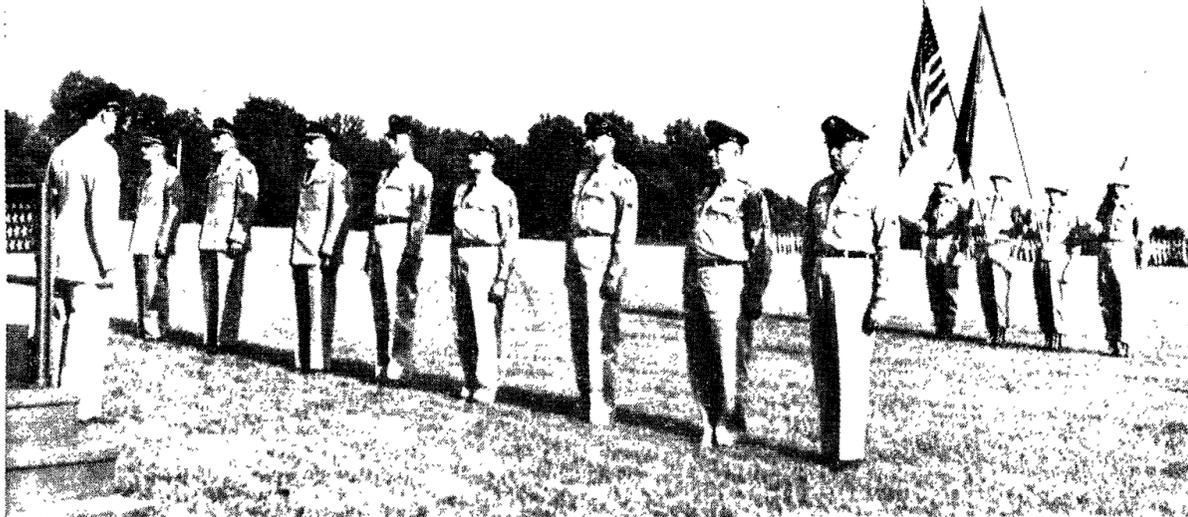
### LT. COL. NEWMAN HEADS AIR FORCE LOCAL OFFICE

Lt. Col. Ralph A. Newman has been named Commander of the Air Force Space Systems Division Huntsville Office at Redstone Arsenal.

In this capacity Col. Newman will represent both the Air Force Systems Command and the Air Force Space Systems Division of Los Angeles.

Col. Newman was born at Marion, Va., and received his bachelor of science degree at Virginia Polytechnic Institute in 1941. He took graduate work at George Washington University.

Among his previous assignments, Col. Newman commanded the Air Materiel Squadron during the latter part of World War II. He also served in Alaska and as a professor at Lehigh University.



**HONORED AT RETREAT PARADE AND REVIEW**—Eight retiring Army men stand at attention during the last review in which they will participate as active Army personnel. At left is the reviewing officer, Brig. Gen. Richard M. Hurst, Deputy Commanding General for Ballistic Missiles at AOMC. Behind the men about to receive their release from the Army is the color guard. Retiring (left to right) are: Maj. Clarence W. Sholar, Capt. Preston R. Jett,

Jr., CWO Howard J. Savington, M/Sgt. James D. Reynolds, First Sgt. John S. Sudano, SFC Alton Witten, SFC Bernice Belcher and SFC Samuel H. Passero. In the background are the Arsenal troops and the 55th Army Band. The ceremony was held Friday afternoon at the Arsenal parade field. The eight men retired on June 30.

### Examinations Open For Mathematicians, Telephone Operators

The U. S. Civil Service Board of Examiners has announced openings for mathematics technicians in grades GS-5 through GS-9 on Announcement No. AT-35-10 (62). On Announcement No. AT-35-9 (62), positions are open for telephone operators at GS-3 ratings.

Amendment No. 1 to Announcement No. 5-35-9 (60) for tabulation project planner and tabulation project planner supervisor closes the examinations, which carry ratings of GS-9 and GS-11, at the close of business July 10.

Penn. Before assignment with the Air Force in Los Angeles, he was assigned in Washington, D. C.

Col. Newman is married to the former Beatrice Brown of Marion, Va.

### Librarians Visit Tech Information Agency in Arlington

One of the free world's largest single collection of technical information was shown to 31 employees of the Research and Development Directorate last week on a visit to the Armed Services Technical Information Agency (ASTIA) in Arlington, Va.

ASTIA keeps a central storehouse of information for use by military and civilian agencies involved in national defense work. Copies of all technical information produced by military installations or under defense contracts are sent to ASTIA to be made available to other Agencies or contractors working on related projects.

A branch office of ASTIA will be established at Redstone Arsenal later this year. The entire collection of information will be available at the branch office, much on microfilm. This includes over half a million titles.

Most of the Research and Development Directorate employees were librarians who use ASTIA services to furnish technical information to Redstone scientists.

A group of technical editors from the Publication and Information Services Branch, was interested in learning what ASTIA requirements were for submitted material. The branch sends ASTIA a copy of all suitable technical material published in the Research and Development Directorate.

Miss Angel Logel, librarian for the Rohm and Haas Co. at Redstone, also made the visit.

Employees of the Technical Library who made the tour were Edith Cribbs, Jane Crowe, Mary Johnson, Mary Allen, Elizabeth Jackson, Mary Mazza, Rixie Schmidt, Betty Pitts, Clara Rogers, Joyce Kelly;

Dorothy Ward, Ethel Ethridge, Marcile Bagley, Frances Dickey, Jim Clark, Lena Black, Dorothy

Webb, Nancy Stilson, Mattie Cramer, Bernice Black, and Sarah Whitaker.

Visitors from the Publication and Information Services Branch were: G. P. Helms, Sally Vann, Ruth Taylor, Ethel Maddox, Fayth Tidwell, Clyde Ward, and Anita

Daly.

Other visitors were: Bertha Jenkins, Launch and Ancillary Equipment Laboratory; Julian S. Kobbler, Structures and Mechanics Laboratory; and George F. Hall, Jr., Guidance, Control and Aeroballistics Laboratory.

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# 8 Men Honored at Review

## 10 Army Personnel Retire on June 30

Eight men retiring from the Army were honored at a Parade and Review at the Redstone Arsenal parade field today.

Brig. Gen. Richard M. Hurst, Deputy Commanding General, Ballistic Missiles, Army Ordnance Missile Command, was the reviewing officer.

Sharing the Reviewing stand with Gen. Hurst were: Capt. Preston R. Jett, Jr.; CWO Howard J. Savington, M/Sgt. James B. Reynolds, First Sgt. John S. Sudano, SFC Alton Witten, SFC Bernice Belcher, SFC Samuel H. Passero and Maj. Clarence W. Sholar.

Two officers who also retire on June 30 but who were not present for the parade are Maj. Elizabeth Artz, anaesthetist at the U. S. Army Hospital; and Lt. Col. William W. Witten, Jr., Logistics Officer at the Army Ordnance Missile Support Agency.

Capt. Jett has been assigned as project officer in the Supply Division of the Department of Administration and Services at

OGMS: SFC. Witten was a senior radar repair instructor in the acquisition computer section for Nike; SFC. Belcher was a technical NCO in the Technical Inspection Branch, Training Research and Development, OGMS;

CWO Savington was assigned in the Nike System, Engineering Branch of the AOMC Maintenance Division.

M. Sgt. Reynolds was the Motor Sergeant at the AOMSA Main Motor Pool.

First Sgt. Sudano was with the AOMSA Medical Detachment; SFC Passero was assigned to the Headquarters and Headquarters Company of AOMC with duty station at Eglin Air Force Base, Fla.

Maj. Scholar was a project officer in the Industrial Operations, AOMC.

Commander of troops for the parade was Lt. Col. K. V. Washbourne, Research and Development Directorate. The parade was led by the 55th Army Band under the direction of CWO DeWitt Mytinger.

Representing OGMS on the reviewing stand was Lt. Col. Robert Leech, Assistant Commandant; AOMSA, Col. Thomas W. Cooke, Commander; and AOMC, Col. R. W. Burkett, Director of the Research and Development Directorate.

Capt. Frank Goodman of AOMC was the parade adjutant.



**SILVER EAGLE PINNED**—Theodore Antonelli has the silver eagle of a full colonel pinned on his collar by Brig. Gen. Richard M. Hurst, Deputy Commanding General for Ballistic Missiles, during a promotion ceremony last Thursday in which the Army Ordnance Missile Command's Transportation Officer was promoted. At right is Mrs. Antonelli.

## Transportation Officer Gets Promotion

### Col. Antonelli Receives Eagle

Theodore Antonelli, Transportation Officer for the Army Ordnance Missile Command has been promoted to the rank of colonel.

He was presented with the silver eagles of his rank by Brig. Gen. Richard M. Hurst, Deputy Commanding General, Ballistic missiles, AOMC, in a ceremony here Thursday.

As head transportation man for the Command, Col. Antonelli supervises the movement of missile material to the testing and manufacturing sites of Army missiles throughout the world.

At Redstone Arsenal since 1960, Col. Antonelli came to the Army missile test center from Korea where he was commanding officer of the 23rd Transportation Bn., 1st

Cavalry Division.

He is scheduled to attend the Army Industrial College soon.

Col. Antonelli entered the Army in July, 1941, and has served with the Infantry in North Africa, Headquarters VI Corps, in both Africa and Italy, at Stuttgart, Germany, and in Tunisia.

A native of New Haven, Conn., he received a bachelor of arts degree from the University of Connecticut in 1941. He is also a graduate of the U. S. Army Command and General Staff College and the U. S. Army War College.

He has been stationed at Ft. Devens, Mass.; Ft. Eustis, Va.; and in Washington, D. C., as a member of the Army General Staff in the Office of the Deputy Chief of Staff, Logistics.

Among his decorations and awards is the Silver Star Medal

with Oak Leaf Cluster. He also has the Bronze Star Medal; Commendation Ribbon with Oak Leaf Cluster, the Purple Heart and the Combat Infantry Badge, in addition to his theater ribbons.

Col. and Mrs. Antonelli have a teenage son, William. The family resides at Redstone Arsenal.

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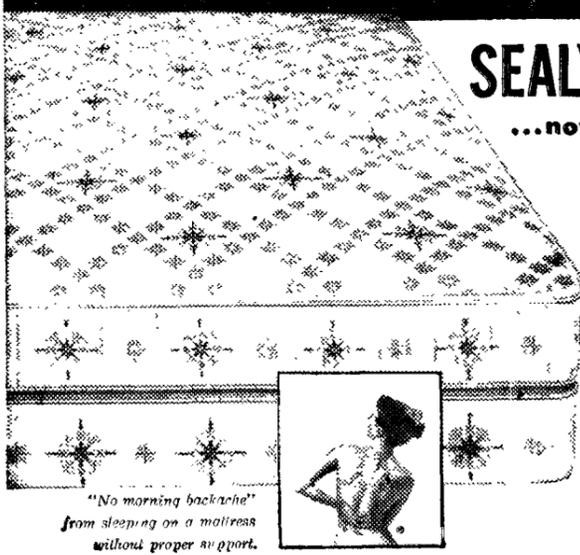
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1000	\$40.05	48.76	92.30
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2000	78.96	96.13	181.96

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## New Chaplain Joins Staff

Chaplain (Lt. Col.) Wilmer R. Bottoms is scheduled to become Redstone Arsenal Post Chaplain, replacing Chaplain (Lt. Col.) John Batterson, soon to retire from the Army.

Chaplain Bottoms arrived on post last week with his family. He has just completed a two-year tour on Okinawa while his family remained at Columbus, Ga.

The newly-assigned Chaplain is from Graceville, Fla. He entered

the Army in 1943 and during World War II served with the 17th Airborne Division on his first assignment. He went overseas with a hospital unit and served in France and Germany with it.

Before he began his 19 years in the Army, he was chaplain at the Florida State Hospital at Chattahoochee. He is married to the former Miss Marie Brandon of Fort Scott, Kansas.

His oldest daughter, Betty, is a third year student in the Medical School at the University of Florida. Joyce, a second daughter, is a

chemist in cancer research for the Public Health Service at New Orleans where her husband, Jerrell Matheson, is studying medicine at Tulane.

Wilmer Jr., is a student at Huntington College and 17-year-old Charles is getting ready to enter the Army for a six months active duty tour before enrolling at Huntington. Sidney, the youngest son will live at home and attend high school in Huntsville.

The four older children are planning missionary careers.



**TENNESSEE RIVER CANNON BALL.** Forrest D. Bricker, chief of the Surveillance Branch of the Army Ordnance Missile Support Agency's Explosives and Services Division holds a 10 lb. Civil War cannon ball found in the Tennessee River near Pittsburg Landing. Bricker disarmed the 100-year-old cannon ball for its owner Harold Damsgard. In his left hand Bricker holds the piece of cypress knee that was attached to the ball and probably served as a container for the projectile.

## Army Missilemen Disarm Civil War Cannon Ball

Although missiles are the main product here, Army Ordnance Missile Command personnel took time recently to disarm and examine a Civil War cannon projectile for a Sheffield, Ala., man.

Harold T. Damsgard, vice president of the Arrow Transportation Co. of Sheffield owns the 10 lb. cannon ball that was scooped up from the bed of the Tennessee River by a Tennessee Valley Sand and Gravel Co. dredge.

Estus Marlar, company superintendent, brought up the ball as he was working the dredge equipment 20 ft. below the river bed off the south point of Diamond Island. The cannon ball bounced up the dredge conveyor belt and across several sorting screens before it was retrieved. Marlar gave the cannon ball to Damsgard, a Civil War buff.

Although experts estimated the round had been in the river more than 100 years, it was still loaded and Damsgard called on the missilemen at AOMC for help.

Forrest D. Bricker, chief of the

Surveillance Branch, Explosives and Service Division of the Army Ordnance Missile Support Agency picked up the round and brought it to Redstone for analysis. The Surveillance Branch controls all movement of Army missile motors on Redstone Arsenal.

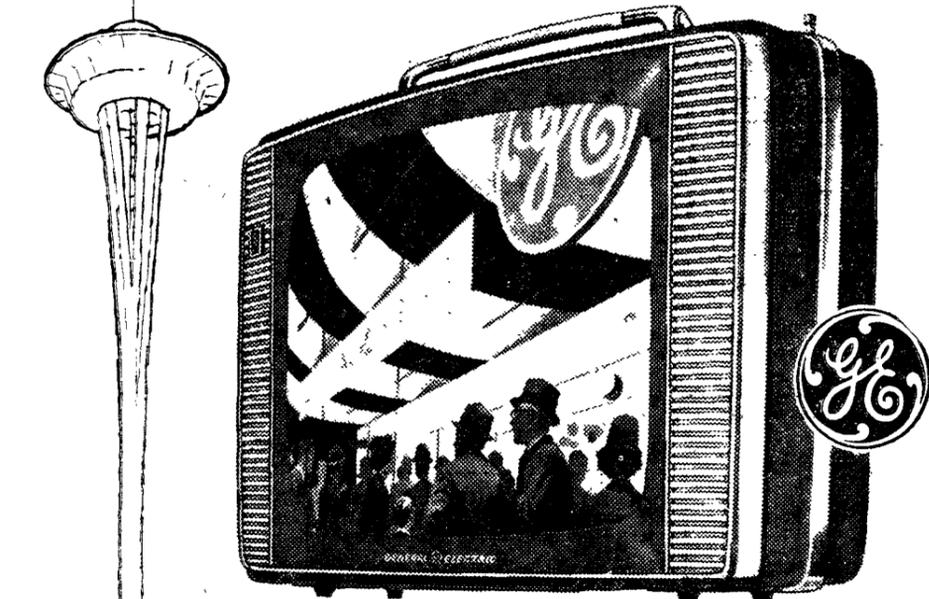
A number of tests were performed on the old artillery shell. It was heated and Bricker tried to disarm it. Then using an X-ray machine, he discovered that the inside of the cannon ball was stuffed with small lead balls known as "grapeshot." The X-ray also revealed that the 10-pounder was probably inert after its long dunking.

Carefully Bricker removed the outer fuze, then the igniter. He drilled out the filling plug and found that the cannon ball actually was inert. But packed around the lead balls inside was a substance that was obviously the remnants of the black powder bursting charge.

Personnel of AOMC's Propulsion Laboratory examined the powder and found its make-up included charcoal, saltpeter, sulphur, and resin. It would not burn—just melted and gave off smoke. Theories on the origin of the cannon ball point to the Confederate gunboat "Alabamian" reportedly sunk by Federal cannon fire across from Pittsburg Landing at the Battle of Shiloh in 1862.

Attached to the cannon ball when it was recovered was a piece of cypress knee that probably was used as a container for the projectile as it lay in the hold of the gunboat.

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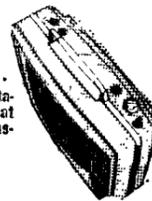
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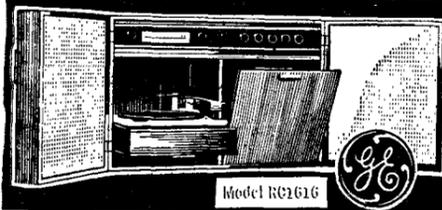
A recent independent survey reported: of 5050 television sets purchased in 1960 and under service contract in New York City, General Electric TV proved more reliable than other leading brands against manufacturing defects in the first 90 days of use.

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# Sports by Handy

## Softball Standings

TEAM	W	L
HQ AOMSA	14	0
AOMC No. 2	12	2
SIGNAL DET	10	4
CO A OGMS	8	5
MED DET	8	6
291st M.P. CO.	7	8
OFFICERS	7	8
CO B OGMS	6	7
AOMC No. 1	5	9
HQ UTC	3	10
3rd ETC	1	13
HQ OGMS	0	11

## Baseball Standings

TEAM	W	L
OFFICERS	5	0
HQ OGMS	4	1
CO A OGMS	3	2
CO B OGMS	2	4
291st M.P. CO.	1	3
HQ AOMC	0	5

The Redstone Arsenal Post Baseball Team began practice on 3 July. Sfc Lyles, Manager, said that players are needed.

Anyone interested can contact SFC Lyles, or report for practice 6 July at 1530 hours at Linton

Field. Personnel interested will have to be playing on a unit team to try out for the team. They are asked to bring their own equipment, shoes and gloves. Redstone Arsenal will be the host team for the 3rd U.S. Army Baseball Tournament 27-31 August. Practices will be three times a week at approximately 1500-1530 hours.

## Bowling Results

Anna Wysocki of AOMC won first place in the Women's Singles of the Ordnance Corps Military-Civilian Bowling (ten pin) Competition, conducted during the month of March at various posts throughout the Command.

More than 900 individuals representing 20 installations and the Office, Chief of Ordnance, submitted scores.

A total of 78 men's and 37 women's teams participated in their respective division. Three hundred and thirty-two individuals participated in the men's and women's singles division.

The awards will be presented at a later date.

Anna Wysocki's score for her three games were:

First game, 186; second game, 181; third game, 235; TOTAL, 602.

## Sports Car Buffs

By Ray Mosling

With the warmer weather prevailing the past few weeks, activities in the local sports car clubs have taken a similar upward swing. By the time you read this column, the Divisional Races of the Sports Car Club of America, conducted by the Alabama Region at Courtland, will be history.

The next event scheduled for this area is the third in the current series of the SCAA Championship Autocross events. This event will take place at Parkway City on Sunday, July 8. Starting time will be noon. Chairman of the meeting Dick Heckman (Thokol) promises a very interesting event for both contestants and



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## Club House to Be Built for Golfers

Ground breaking ceremonies at the Redstone Arsenal Golf Course today foreshadowed an adequate clubhouse in approximately 60 days.

Col. Thomas W. Cooke, Commander of the Army Ordnance Missile Support Agency, spaced the first shovelful of dirt.

The clubhouse will replace the two abandoned construction project space inadequate for storage and administrative details which are presently serving the assigned personnel and the golfers at the Arsenal.

The new clubhouse will have approximately 2,020 square feet with a 435 square foot porch on the South and West. The building will be 48 feet long by 36 feet wide and will have a concrete floor and wood siding. M. S. Snyder of Birmingham is contractor on the project which will cost \$25,000.

Among the participants in the ground breaking ceremony were Snyder, Mrs. William F. Kaiser, president of the Golf Group sponsored by the Redstone Arsenal Officers Wives Club; Col. R. P. Davidson, Post Engineer; Lt. Col. D. R. Capstick, a member of the Arsenal Golf Committee; and Capt. P. W. Boyer, Special Services Officer.

spectators.

The Twickenham Auto Club will present the Treasure Hunt and Pizza Party Rallye on July 14th and a second rally is planned for July 22. Times and places for these events will be announced when they become available.

The first July meeting of the Twickenham Auto Club will take place Thursday, July 5, at 7:30 p.m. at Clark Steadman's Restaurant. Come down and join the fun.

When at the Seattle World's Fair with the former writer of this column, Pat Patterson, we were gratified to see an exhibit devoted to promoting the public acceptance of automotive seat belts. Brochures describing different types of belts and installations were available at this exhibit.

Factual accounts were presented of innumerable incidents where seat belts were credited with saving many lives that would otherwise have been lost because of serious auto accidents. At least ten states now have laws or legislation in process to require seat belts in all new automobiles sold in these states. In addition, one federal agency and many state agencies now require seat belts in all their vehicles.



**OUTSTANDING CO-OP**—Ronnie Evans of Birmingham is congratulated by Col. Paul B. Schuppener, deputy director of the Research and Development Directorate, U. S. Army Ordnance Missile Command, after learning he had won a \$500 scholarship for the 1962-63 school year at Auburn University. Evans, a mechanical engineer trainee with the R&D Advanced Systems Laboratory is a junior at Auburn. Evans left Redstone Arsenal last Friday (June 28) to resume studies at Auburn. His home town is Birmingham.

## Band Plays Park Concert

A concert by the 55th U. S. Army Band was a highlight in the Independence Day celebration at Huntsville's Big Spring Park Tuesday.

Included on the program was a short address by Colonel Robert M. Allgeier, Assistant for Intelligence and Security, the Army Ordnance Missile Support Agency.

The program of musical medleys was scheduled at 7 p.m. under the direction of M/Sgt. George H. Ryan, assistant bandleader.

Among the selections were Morton Gould's "Fourth of July" and "Bugler's Lament," featuring solo-

ist PFC Gilbert Morales. A trombone trio, featuring Sp/5 Clyde Seiler, Sp 4 Ray Mancinelli and PFC Robert Birkmire, presented "Slippery Gentlemen."

The concert also featured a number of novelty tunes.

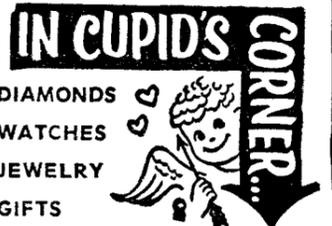
## Three Attend Albertville Invitational Tournament

Three members of the Redstone Arsenal Officers Wives Golf Group participated in the Albertville Country Club's invitational tournament on June 26.

Mrs. H. H. Wishart brought home a prize for being closest to the pin on one hole and Mrs. Charles Payne won the first flight. Mrs. "O. B." O'Brien was the third member of the triumvirate.

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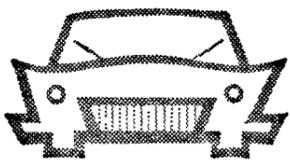
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**SAFETY CONTEST WINNERS** from Thiokol receive congratulations from Jack Godsey (right) manager of the Quality Department. Subject of this month's jingle-slogan contest was lawn mowers as hazards. Paul Kelly (second from right) was the winner. Runners-up from left are: Charles W. Mills, Project Management and Richard G. Hudson, Process Development and Engineering Department.

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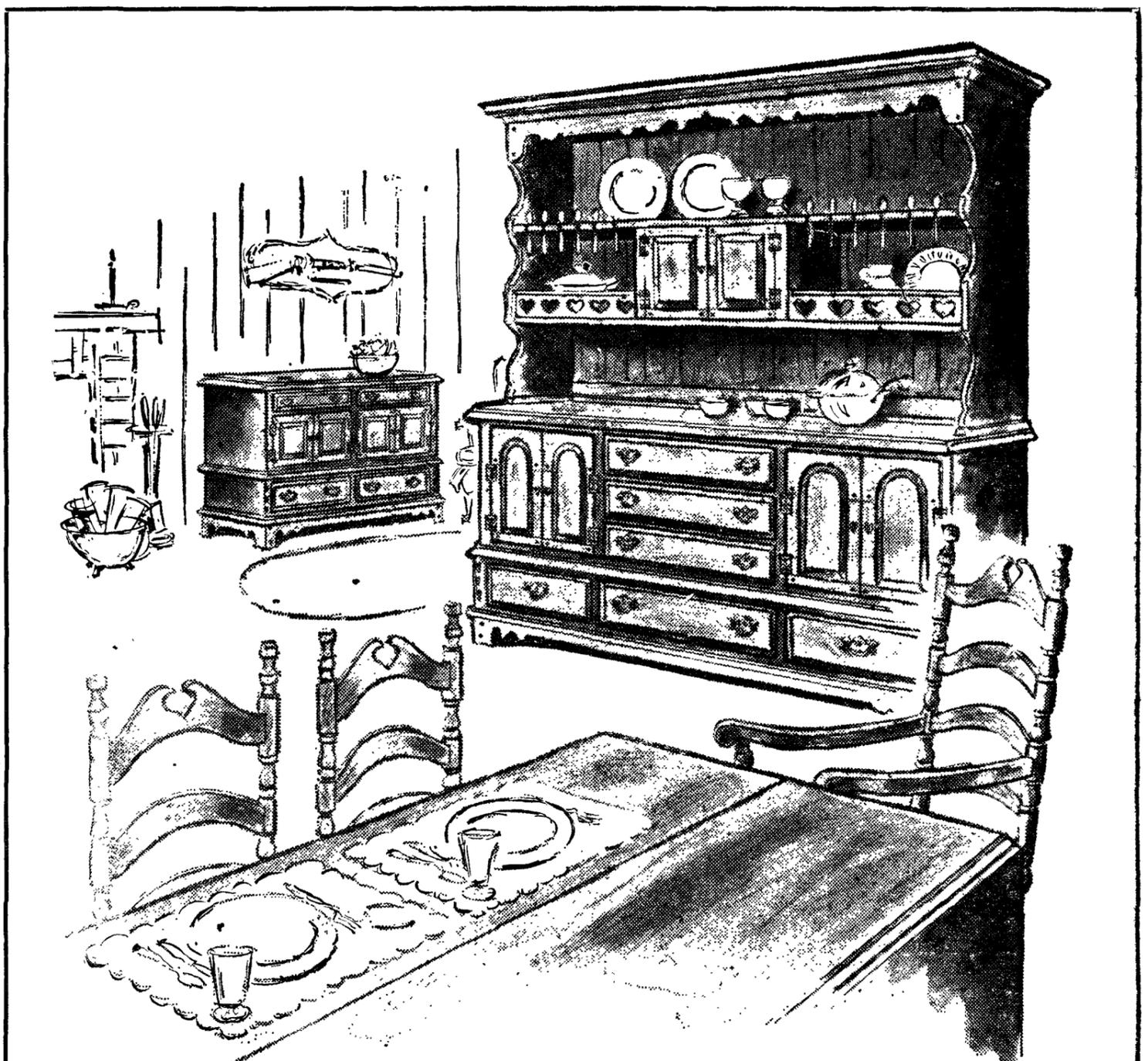
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**Representative From  
European Research  
Office Visits AOMC**

A representative of the Army European Research Office visited the Army Ordnance Missile Command's Research and Development Directorate last week to determine how the office could help the Directorate achieve its mission.

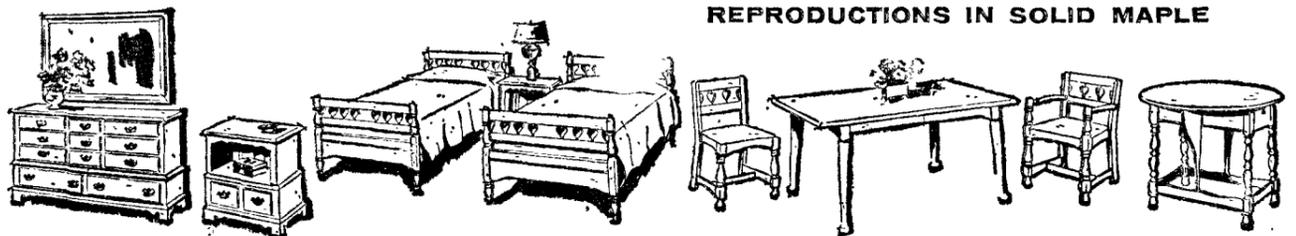
Charles Ravitsky, now assigned to the Diamond Ordnance Fuze Laboratory in Washington, D. C., will be assigned to the Research Office after returning to Washington this week.

He visited key personnel from the Research and Development Directorate, including John P. Hallows, Jr., director of the Research Laboratory, and William Lundberg and Charles Wesson from the Future Missile Systems Division. He also talked with Dr. W. W. Carter, chief scientist of AOMC.



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

## Mrs. R. Washburn, John Berry Win At Party Bridge

The Monday night Party Bridge Group had seven tables in play at the Squirrel Hill Officers Club June 25.

High scores for the men were made by John Berry, houseguest of Mr. and Mrs. Winford Patton, and Donald French.

High scorers for the women were Mrs. Reynolds Washburn and Mrs. Robert Scott.

## Sojourners Induct Two New Members

At a business meeting held last Friday night at the Redstone Arsenal Officers Club, Redstone Chapter No. 353 of the National Sojourners received Army Warrant Officers Spencer F. Ball and Charles R. Dickson as new members.

Lt. Col. Grady Pepper, President of the Chapter, presented a brief report of the national convention which was held in Baltimore, Md. in June.

At 11 o'clock, July 4th, the Sojourners and their ladies met at the Officers Club for the annual patriotic ceremony which was conducted by Cmdr. John H. Graham.

## Industrial Engineers To Hear Jack Waite

The American Institute of Industrial Engineers will hear Jack M. Waite, General Motors, speak on "AC's Fair Day's Work Policy" at the July 9 meeting at the Town House Motor Hotel.

Waite is director of work standards for AC Spark Plug Division at Flint, Mich.

Bob Mullins is handling reservations for the meeting which begins with a social hour at 6 p.m.

## Sodality Schedules Meeting on Friday

The Redstone Catholic Women's Sodality will meet in the Social Room at the Chapel immediately following the 9 a.m. Mass Friday, July 6.

Breakfast will be served before the meeting.

Blessing of mothers before child birth will be given in honor of the feast of the Visitation.

The Rocket nursery will be available to those who make reservations on Thursday.

## Births at Post Hospital

Ruth Hannelore Drawdy, 4 lbs., 9 1/2 ozs., June 21, daughter of Sgt. and Mrs. Eugene D. Drawdy.

Calvin Lorder, 6 lbs., 1 1/2 ozs., June 21, son of Capt. and Mrs. James L. Lorder.

Richard Vincent Ottman II, 6 lbs., 13 3/4 ozs., June 22, son of Sp5 and Mrs. Richard V. Ottman.

Debra Marie Rollins, 6 lbs., 1 oz., June 23, daughter of Sp5 and Mrs. James H. Rollins.

Donna Vee Hayes, 6 lbs., 4 1/4 ozs., June 23, daughter of Sgt. and Mrs. Donald F. Hayes.

Mark Anthony Rollins, 7 lbs., 14 ozs., June 23, son of Sp-5 and Mrs. Austin D. Rollins.

Joel Tracy Fichtner, 6 lbs., 12 1/2 ozs., June 24, son of Sp-4 and Mrs. Ray W. Fichtner.

Kelly Jo McInnis, 6 lbs., 5 3/4 ozs., June 25, daughter of Pfc. and Mrs. David R. McInnis.

Kirsten Carr, 7 lbs., 14 1/4 ozs., June 25, daughter of 1st Lt. and Mrs. Paul H. Carr.

Donna Lynne Jones, 8 lbs., 4 ozs., June 26, daughter of WO and Mrs. Frank T. Jones.

Victor Marion Haibach III, 6 lbs., 11 1/4 ozs., June 27, son of 2nd Lt. and Mrs. Victor M. Haibach Jr.

Scott Taylor Middleton, 6 lbs., 8 1/2 ozs., June 27, son of 2nd Lt. and Mrs. Weldon M. Middleton.



**FEDERAL WOMAN'S AWARD**—Recognition by the Army Ordnance Missile Command was accorded the six women nominated from elements of the Command for the Federal Woman's award. Brig. Gen. Richard M. Hurst (center), Deputy Commanding General for Ballistic Missiles, Friday presented plaques to the women. Left to right are: Mrs. Charlotte Shenk, Mrs. Edith Gibbs, Mrs. Sylvia McConaha, Mrs. Leta Haskins, Mrs. Mary Huth and Mrs. Cleo Cason.

## Missile Command Honors Six Outstanding Women

The Army Ordnance Missile Command Friday awarded plaques of recognition to six of its outstanding women—Mrs. Edith M. Gibbs, Mrs. Leta Haskins, Mrs. Cleo Cason, Mrs. Sylvia K. McConaha, Mrs. Charlotte F. Shenk and Mrs. Mary G. Huth.

The six were nominees for the Federal Woman's Award designed to recognize Federal Career Women for outstanding achievements in an executive, professional, scientific or technical position.

Brig. Gen. Richard M. Hurst, Deputy Commanding General for Ballistic Missiles, presented the plaques in a ceremony at Missile Command headquarters.

Recognition for the 1961 nominees were delayed at this level until after the national selections were announced. None of the AOMC nominations received national recognition, but Mrs. Shenk was one of three women who represented the Ordnance Corps. Mrs. Gibbs was an Ordnance nominee in 1960.

Mrs. Shenk's recognition was as chief of the Technical Library for the Army Ballistic Missile Agency. At present she is detailed to a special project for a group of scientists for literature research in the field of meteoroids. A native of Maury County, Tenn., she has been employed at the Arsenal since Oct. 1, 1956. She has a bachelor of science degree in English and history from the Middle Tennessee State College and a bachelor's degree in library science from Emory University.

Mrs. Shenk is married to Donald L. Shenk. They have two sons, William and Howard.

Mrs. Gibbs is chief of the Data Processing Office in the Field Service Directorate. Her nomination was made while the Office was designated the Missile and Rocket Inventory Control Center, Army Ordnance Missile Support Agency.

She came to the Arsenal in 1956 from the Lordstown Ordnance Depot in Ohio where she was chief

of the stock control division.

Mrs. Gibbs studied accounting at Youngstown University and at Bliss College in Columbus, Ohio. She has been with the Government since 1942, including a tour at the Yokohama, Japan, Ordnance Depot in 1951-52. She was selected Ordnance Corps woman of the year in 1961.

Mrs. Haskins is the Administrative Officer in the Missile Command Legal Office. She is a charter member and charter president of the local chapter of the Legal Secretaries Association. She transferred to Redstone Arsenal from Ft. Bliss, Texas, with the missile project, arriving here in July, 1950.

During World War II, Mrs. Haskins was in the WAVES. She is married to James S. Haskins of Huntsville, and is the mother of a teenage son, Gerald M. Thompson.

Mrs. McConaha received her nomination as chief of the Administrative Branch, Industrial Operations, ABMA. She is now a program specialist in Ballistic Missile Operations for the Industrial Directorate, AOMC.

In 1957 and in 1962 she was awarded Sustained Superior Performance Awards by ABMA and AOMC respectively.

A native of Oatman, Ariz., Mrs. McConaha studied political science at Brigham Young University, Utah, and the University of Utah. She also earned a secretarial and accounting certificate at Henegar Business College in Salt Lake City.

Mrs. McConaha is married to Jack N. McConaha, chief of AOMC Civilian Personnel.

The couple has an 11-year-old daughter, Jacqueline.

Mrs. Huth's nomination came as a procurement analyst in Industrial Operations, ABMA. She holds a similar position in the AOMC Industrial Directorate.

Mrs. Huth is a native Alabamian who studied at Wheeler Business College in Birmingham. Her hus-

band is Chauncey W. Huth, employed at the Marshall Space Flight Center. They have two daughters, Virginia, a student at Vanderbilt University and Betty, a student at Auburn University.

Mrs. Huth was awarded a sustained superior performance award in 1959 and was a nominee for the first annual Federal Woman's Award in 1960.

Mrs. Cason is presently chief of the Technical Library, Redstone Scientific Information Center, and held a similar position with the Army Rocket and Guided Missile Agency when she received the nomination for the Federal Woman's Award.

She is a former president of the Alabama Chapter of the Special Libraries Association and a member of a number of Library groups. She is also active in the American Rocket Society and the Association of the U. S. Army.

Mrs. Cason is a native of Georgia. She has a degree from the American Extension School of Law, and has studied at North Georgia College; the University of Alabama Huntsville Center; the University of Chicago, and Florence State College.

Mrs. Cason's husband is Charles S. Cason of Huntsville. They have a son, Charles M. Cason III.

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Looking for a cool place to go when the thermometer is reaching 100! The Service Club is the answer to your problem during these hot summer days. While you are in the Service Club, you will enjoy using the facilities as well as participating in the planned activities.

On Thursday 5 July and Monday 9 July the Theatre Workshop Group will meet, at 1930 hours. If any of you are interested in the Workshop, I suggest that you attend the meetings on Thursday and Monday nights.

Since Wednesday is a holiday, Sgt. Frank Guerrez will teach the dance classes on Thursday night, the beginners at 1800 hours and the advanced at 2000 hours. If any single girls are interested in attending the classes, contact the Service Club, 876-4531.

Friday and Saturday nights are contest nights with a chess contest 6 July, at 2000 hours and a shuffleboard contest 7 July, at 2000 hours. You don't have to be an expert to enter these contests, so why not participate this week? The more men that enter, the bigger the prize.

Coffee and donuts will be served on Sunday 8 July, at 0930 hours from the Service Club kitchen.

The Disc Jockeys will spin your

favorite dance tunes on 8 July, at 2000 hours.

An evening of games will begin at 2015 hours on Monday 9 July.

Card night has been changed to Tuesday nights this month since many of the big activities will be held on Thursday nights in July. Card Capers will start at 1930 hours on Tuesday 10 July. If enough men play card games, prizes will be given to the winners.

\*\*\*

#### Miscellaneous

A blast was had by those who attended the Swinging Serenade the last Sunday evening in June. Seen in the crowd dancing to the music of Charlie Lyle and his Orchestra were Marell Kelly, Pfc Dave Devenny, Mary Kay Neil, Pfc Joe Arata, Kathy Sherwood, and Pfc Walter Macielag.

An evening of Question (?), the Hawaiian Dance, a Post-Wide Pool Tournament, and a Jam Session are several of the big events planned for July.

Come to the Service Club for fun, relaxation, and comfort from the July heat.

— Betty

### Movie Schedule

WEDNESDAY, July 4

"Tammy Tell Me True" (F)

THURSDAY-SUNDAY, July 5-8

"Spartacus" (M-YP)

Because of the length of the movie, one performance will be shown each evening at 6:30 p.m. INCREASED ADMISSION RATE: Adults 50c and Children 25c.

MONDAY, July 9

"Twist All Night" (F)

TUESDAY, July 10

"The Colossus of Rhodes" (M-YP)

Two shows nightly at 6 and 8:30 p.m.. Saturday matinee at 11:15 p.m. and Sunday matinee at 2 p.m.

### Entertainment Section

BY ART KALIN

The Theater Workshop has been moving along "great guns." Response and comment have been very good, and attendance has been growing at every meeting; but, there is always room for more people who are interested.

If you are a little puzzled as to what goes on in the Workshop, perhaps a little explanation is in order.

Currently we are working on the techniques of acting, improvisations, pantomime, and exercises in imagination and concentration. After this foundation is laid, we will begin working on scenes for critique and also full length plays and musicals.

Lab classes in speech, stage movement, body control and stage craft will also be studied.

There is a lot more to playing a part in a play than learning the lines and going through the motions. In the Workshop you can get an idea of just what is involved. If you are interested, come to the small lounge at the Post Service Club on Monday and Thursday, 7-30 p.m. and see, Pvt. Art Kalin, or call 876-4531.

As an added note, some people are a little inhibited about taking part right away. If you are in this category you are welcome to come as an observer.

The Entertainment Section of the Service Club is also interested in auditioning singers and dancers for a future (very near) musical comedy production. We are especially interested in, and need females in this category. If you sing or dance, please contact me at 876-4531 and arrange for an audition. See you at the Workshop.

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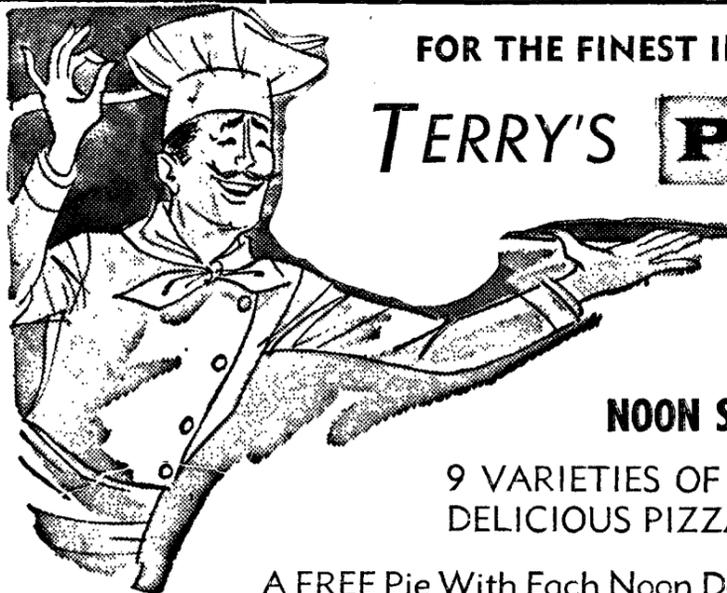


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**LIKE FATHER**—Robert Biss (left), follows in the footsteps of his father, C. Andrew Biss, up to a point. Both are procurement specialists in the missile business. Robert works in the Pershing project of the Industrial Directorate. C. Andrew is a special contract analyst for procurement in the Research and Development Directorate.

**FATHER-SON TEAM SPECIALIZES IN PROCUREMENT PROBLEMS**

A father-son team works in procurement at the Army Ordnance Missile Command.

Robert Biss works in the Industrial Directorate.

His father, C. Andrew Biss, works in the Research and Development Directorate.

During World War II, Robert was attending the elementary school at Farley while his father worked at Redstone Arsenal. At the end of the war, the family transferred to St. Louis and Tex-

arkana. Andrew Biss was employed by the Field Director of Ammunition Plants, which in 1945 was renamed the Ordnance Ammunition Command and was moved into a Government-owned plant at Joliet, Ill.

Meantime, Robert went through high school in St. Louis and was married. In Joliet, he went to work in the supply management section for special weapons where he remained six and one-half

**Supervisors to Be Paid Annual Rate**

The Army-Air Force Wage Board recently announced the pay method for wage board supervisors will be changed from an hourly to an annual rate.

The change will be reflected on checks dated on or after July 1, and will not change the amount. It merely expresses payment in annual instead of hourly terms.

"The change is made to bring pay methods of wage board supervisors at this installation into line with those found in private industry," Jesse W. Stutts, Jr., of the AOMC Civilian Personnel Office

said.

Then, Robert transferred to the Army Ordnance Missile Command as procurement specialist, taking along his wife and two children.

C. Andrew Biss and his wife wanted to be practicing grandparents—not strangers seen once in awhile so they too moved to Huntsville.

The father and son don't claim the same hobbies. Andrew likes fishing, Robert likes to hike.

Robert had a tour with the Air Force, stationed at Scott Field where he was a career guidance specialist.

He is now a Procurement Analyst in the Pershing Procurement Contract Processing Section of Industrial.

His father is a contract specialist in the Special Procurement Division of the Research and Development Directorate.

The following chart shows the schedule through step 3:

WAGE BOARD SUPERVISORY STEP RATES			
GRADE	1	2	3
1	\$ 4,388.00	\$ 5,137.60	\$ 5,387.20
2	5,241.60	5,512.00	5,782.40
3	5,574.40	5,865.60	6,156.80
4	5,928.00	6,240.00	6,552.00
5	6,281.60	6,614.40	6,947.20
6	6,635.20	6,988.80	7,342.40
7	6,968.00	7,342.40	7,716.80
8	7,321.60	7,716.80	8,112.00
9	7,716.80	8,132.80	8,548.80
10	8,195.20	8,632.00	9,068.80
11	8,652.80	9,110.40	9,568.00
12	9,131.20	9,609.60	10,088.00
13	9,588.80	10,088.00	10,587.20
14	9,900.80	10,420.80	10,940.80
15	10,233.60	10,774.40	11,315.20
16	10,649.60	11,211.20	11,772.80
17	11,044.80	11,627.20	12,209.60

Shift Differentials:  
2d Shift \$104.00  
3d Shift \$208.00  
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# Mobile Labs May Be Used For Missile Calibration

## AOMC Study Underway For Pre-Fabs or Vans At Industrial Plants

The Army Ordnance Missile Command is studying the possible use of mobile laboratories to roam throughout the country wherever Army missiles are being built by industry.

The laboratories—both prefabricated buildings and mobile truck vans—would house secondary measurements standards for use by contractors who build Army missile components. Use of the standards, calibrated by the AOMC Calibration Center, would insure that all contractors producing Army missile components use the same "yardstick" to fix the accuracy of their test and manufacturing equipment.

The mobile laboratories would make it unnecessary to erect permanent facilities at government expense to do the same job at each

contractor plant. Mobile laboratories can be taken down and moved to a new assignment whenever a particular job is completed at a contractor plant. An estimated \$50,000 saving would result each time a transportable laboratory moves to a new contractor location.

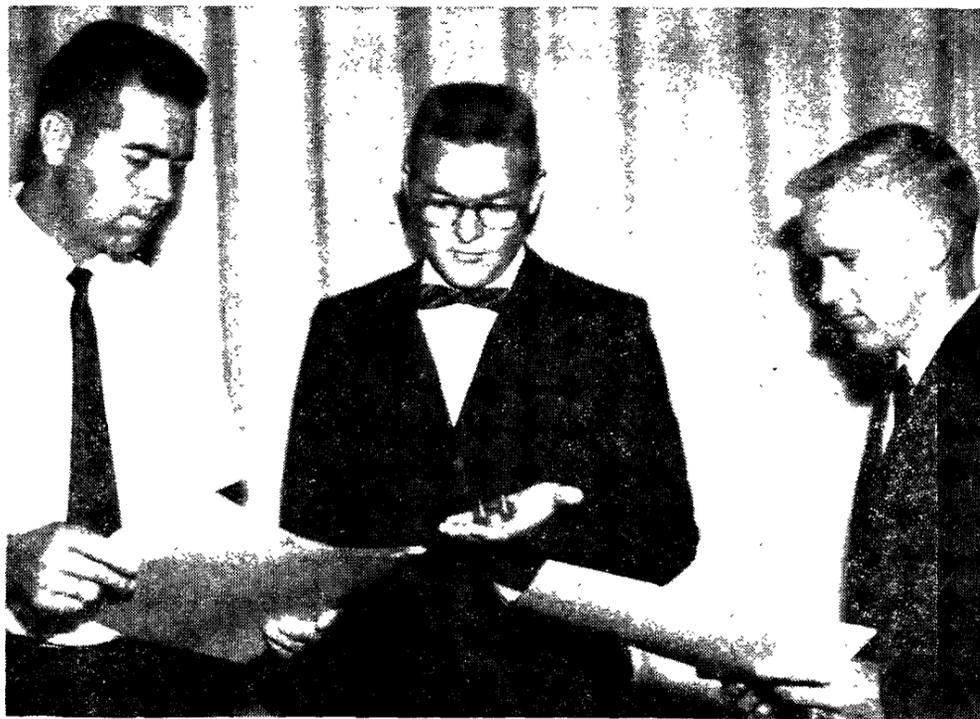
Edward Michael of AOMC's Industrial Directorate and Donald I. Hervig of the Calibration Center developed the mobile laboratory concept.

Personnel of the Army Ordnance Missile Support Agency and the Industrial Directorate are planning to stock 13 mobile van laboratories and two or more portable pre-fabricated laboratories to take care of the Army's contractual requirements.

The first mobile van, already in use at a contractor facility, is a seven-ton standards truck that had been used on the Arsenal. It was delivered to the contractor six weeks after the proposal was made.

The van required no modification. It was unfolded into a 14x17 foot laboratory with four working positions upon arrival at the contractor's plant. Two AOMC employees delivered the van, instructed contractor personnel in its use and then turned it over to the contractor for operation.

According to Hervig, acting di-



**DISCUSS SUGGESTIONS** — (Left to right): Three Army missile employees, Wille H. (Bill) Martin, Charles E. Spangler and Billie W. Burton discuss the suggestions which saved the government over \$10,000 in intangible benefits and netted the three men cash awards. Martin, a supply cataloguer, suggested sketches to identify an item of supply which is non-standard to the reference drawing and drew \$365 for himself. Spangler, a missile equipment specialist, had two suggestions which earned him \$475. One was a special wrench now standard equipment and the second suggestion was a wire rope sling to simplify handling heavy equipment. Burton, a supply management officer, suggested a revision to a form. The men work in FSD.

rector of the Calibration Center, the AOMC organization which controls the vans, "It's a matter of pulling the van up to a site at the plant, plugging it in and you're in business."

"We feel the pre-fabricated laboratories, which we have design-

ed here, will be equally easy to use. Two workers can put the laboratory together with 40 bolts in less than three hours."

The first pre-fab laboratories will have between 600 and 700 feet of floor space, but they can be expanded to meet growing

needs.

"These laboratories on wheels will give us a new flexibility in establishing standards of measurement for missile components and they serve a definite purpose in the rapidly moving missile industry," Hervig said.

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The loan plan whereby the Credit Union pays \$25.00 of the insurance cost on new automobile financing terminated on March 31.



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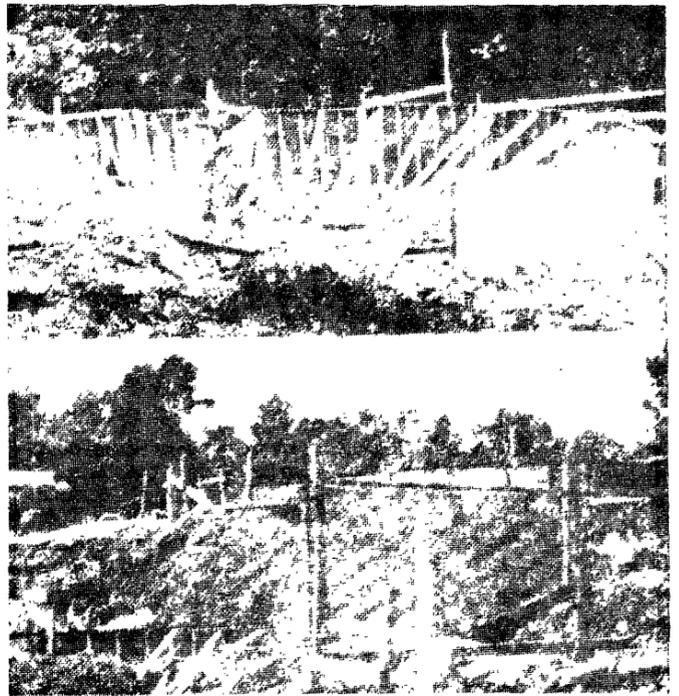
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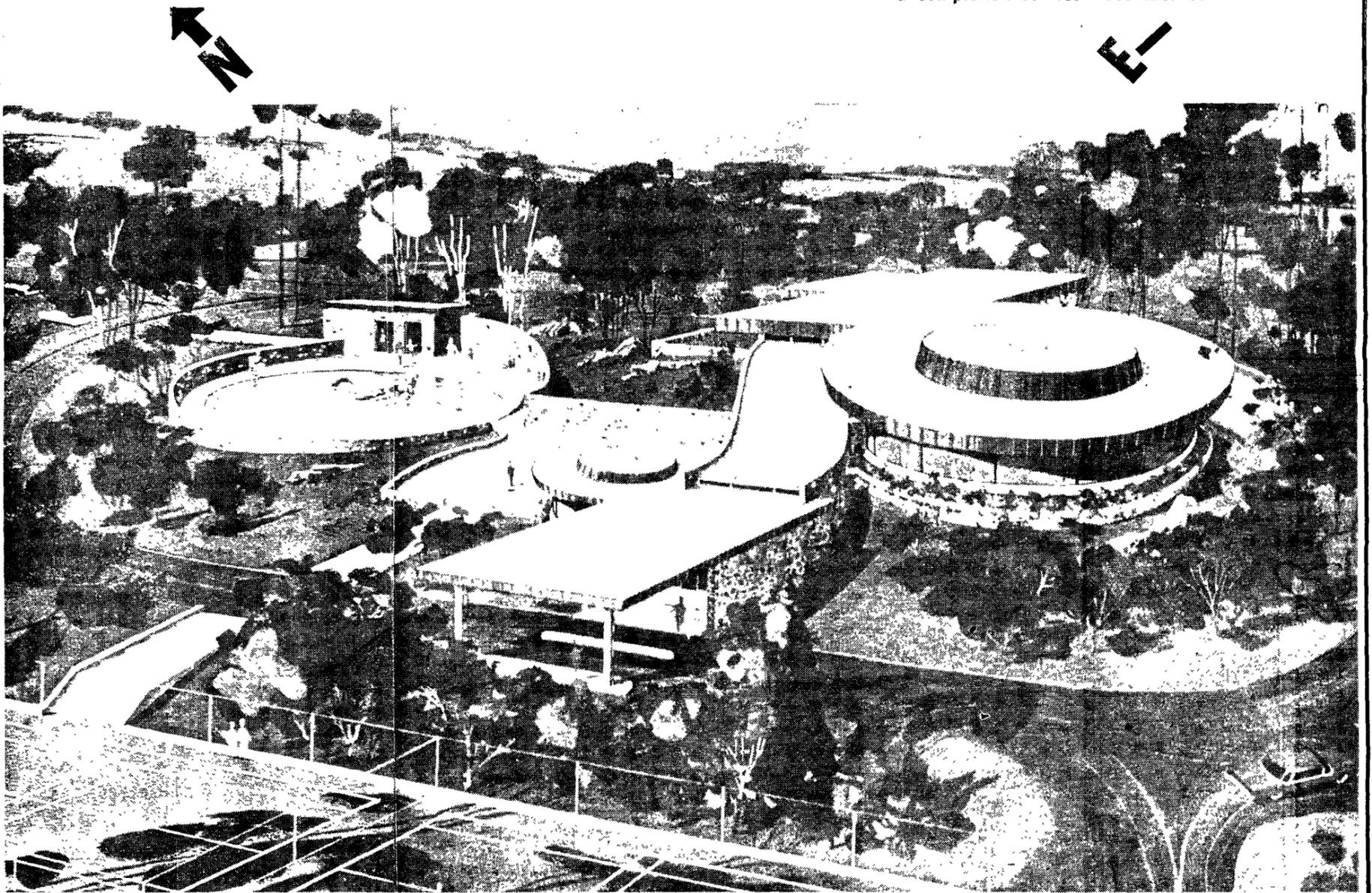
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The Swimming Pool, also circular with a diving well at the center adjoining bath and dressing rooms. Other outdoor facilities will include a large picnic and barbecue area, paved drive and parking lot. Two tennis courts, adjoining terraces and walks, patios, and an all-weather drive-in entrance to the main reception area.

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HUNTSVILLE, ALA.



**FINDING IS THE FIRST JOB**—Mary Ellen Mazza, interlibrary loans librarian at the R&DD Technical Library, checks through a book list that tells at what major libraries certain books are available. When Redstone Arsenal patrons need material that's not available at the Technical Library, Miss Mazza "checks the book out" from another library.

library borrows information from all over the world through its inter-library loans service. This information may be in any language or form, ranging from rare out-of-print books to a specific article from a technical magazine.

A person needing a particular book or article may call in information on the needed material, which can usually be obtained within a week or two.

Mary Ellen Mazza, interlibrary loans librarian, has seen requests for the loan service at Redstone increase from 5 or 6 per month to the present level of 800 to 1,000 per month.

In addition to serving all Army elements at Redstone Arsenal, the Scientific Information Center serves also the NASA Marshall Space Flight Center.

Monthly charge accounts and depository accounts are maintained with several libraries to make sure the request information can always be obtained.

Expenses of the interlibrary loans service are on an actual cost basis. When material is borrowed, the borrowing library pays postage and insurance both ways. When photo copies are ordered, the borrower pays reproduction expenses and postage.

Material on loan from another library is used only by the person who requested it, since general circulation would mean additional wear and more likelihood of damage. Photo copies do not have to be returned, and may be circulated when no longer needed by the requestor.

Requests for foreign language materials are no great problem.

Persons requesting material written in a foreign language are usually proficient in that language. In addition, a \$500 monthly depository account is maintained with the Special Library Translation Center in Chicago for needed translations.

Requests for German language material have always been heavy. Russian information has lately been much in demand, with Japanese also drawing many requests.

Loan requests are normally sent by air mail, but may be placed



**CHECK AND DOUBLE CHECK**—When the AOMC Research and Development Directorate's Technical Library receives a request for a book not on hand, book lists are double checked to make sure the book is not locally available before a loan request is made to another library. Library assistants Wanda Hardin (left) and Evelyn Fuqua search through a list of materials on hand.

by telephone in an emergency. Miss Mazza said books, articles, dissertations and other materials are available—the only require-

**Librarian Reports—**

**Language Is No Barrier To Scientists, Technicians**

Information in all languages from all over the world is as close as the telephone for the scientists and technicians who make missile and space programs go at Redstone Arsenal.

The Army Ordnance Missile Command's Scientific Information

Center operated by the Research and Development Directorate makes sure that no missile program lacks information. This is handled largely through the Center's Technical Library.

Besides the thousands of volumes and periodicals on hand, the

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**Center Employs New Engineer Professor**

Joe C. Dowdle will join the faculty of the University of Alabama at the Huntsville Center at the beginning of the fall term.

He will be the first full time faculty member in electrical engineering to be located at the Huntsville Center. Dowdle, who will receive his Ph.D. in electrical engineering at North Carolina State College in August, has been appointed associate professor of engineering at Auburn University where he also served on the faculty.

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**FOR SALE** — Three bedroom house, brick veneer, full basement fireplace and boathouse, located on a large lot at Warrenton Shores. See WORD REAL ESTATE Phone 532-4197 or 532-5887, Guntersville, Alabama 7-18c

**FOR SALE** — Chevrolet Wagon, 1949, radio, heater, \$275; Ford Sedan 1959, air conditioned, V8, automatic trans, radio, heater, one owner, \$1445. Grundig radio-record player, console, \$195 Phone 534-7019. ttc

**ATTENTION** — Missile Industry Reps. Office for rent, furnished 2-desk office or desk space. Secretarial and phone answering service available. A.B.S. SECRETARIAL SERVICE. Phone 534-6451 for appointment. ttc

**FOR SALE** — Wooded lot in Anderson Creek Estates, near Elk River across road from Water-front community lot with pier and concrete boat ramp, price, \$600.00. Call E Bombara, 876-4583. ttc

**FOR SALE** — Chocely located house for sale 897 Dunlap Avenue, Guntersville, Alabama, two blocks from lake, 3 bedrooms, two baths, living room, dining room and kitchen. Heated by stoker fed hot air furnace. Price \$8,000, Pay \$74.00 per month. Amortized @ 6% to pay out in 13 years. Call 878-4616. Albertville, Alabama. 7-26c

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 PHONE 534-7411 Days  
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**TRAVEL THIS SUMMER** in shoes you will be proud to wear. Quality footwear, plus expert fitting make a wonderful twosome that you will always find at **BUS-ANNS**. Huntsville family shoe center (Downtown). ttc

**OVERSEAS and STATESIDE INSURANCE**  
**INTERNATIONAL SERVICE INSURANCE CO.**  
 Fort Worth, Texas  
 V. F. CARTER  
 2905 Bayless Dr., Huntsville  
 Phone 539-2356

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

**NEW, SENSATIONAL** — Combination Milling Machine, jig borer, lathe drill press. Guaranteed tool room accuracy at a low price, ideal for laboratory or work shop, phone 539-2022. ttc

**ATTENTION BOAT OWNERS'** — Now is the time to repair or recover your boat cushions, tops and covers at the Auto Center. 2208 Clinton Ave. Phone 539-0382. ttc

**ON THE LAKE, LESS THAN 20 MILES FROM ARSENAL GATE**  
 — Boat storage for rent. Rooms with bath for rent. Contact W&W Land Co., 106 N. Lincoln, Phone 534-1451 or 536-3113. ttc

**FOR SALE BY OWNER**  
 3 bedroom brick home approximately 2300 sq. ft. Den and separate dining room, built-in kitchen, 2 baths, central air condition, 90x200' lot on Chapman Mtn. with beautiful view of city. Near 3 schools. Equity sale.  
**PHONE 539-5970**

**SWEDISH MASSAGE** for ladies only. By appointment. No Wednesdays or Saturdays. Mrs. Mary Fromm, trained in Denmark and Sweden. Call 536-0242 (mornings best). ttc

**VOLVO Magnusson Motors**  
 Athens, Alabama  
 Your Huntsville Sales Representative  
**Phone 877-5972**

**FOR SALE** — 20 acres overlooking Guntersville Lake, large barn, small 5-room house, all conveniences. \$4,500.00 with 50% down. T. M. Dorman, 876-3297 or 586-4247, Arab, Ala.

**FOR RENT** — Tanglewood Acres vacation cottages, new, 2-bedrooms, furnished, 10 mi. N. E. Guntersville. Hgw. 79 (Guntersville Lake). For further information write P. O. Box 451 Scottsboro or call Scottsboro 574-2462 or Guntersville 582-4760. 7-11p

**BUTLER'S NEW and USED FURNITURE — ANTIQUES —**  
 1006 W. Market St. — Athens, Alabama  
**DIAL ATHENS 232-3940**  
 One of North Alabama's Largest Furniture Stores  
 New Loads Arriving Weekly — We Deliver

**FOR SALE** — FHA Equity, 4 1/2% Two Bedroom, one mile from Gates 5 & 8. \$55 per month or refinance. 3404 Marks Dr., S.W. Phone 536-6679. 7-11p

**PORSCHE**  
 Authorized Sales & Service  
**UNIVERSAL MOTORS, INC.**  
 "Your Volkswagen Dealer"  
**2305 No. Parkway**  
**PHONE 539-7456** ttc

**FOR SALE** — 1959, 2 bedroom, Fleetwood house trailer with automatic washer. Small equity, assume monthly payments or refinance. Phone 539-5250 after 5 p.m. ttc

  
**Reconditioned and Guaranteed Used Volkswagen Sedans, Station Wagons, Panels and Pickups. Also we will buy your used foreign car.**  
 — TRY US FIRST —  
**UNIVERSAL MOTORS, INC.**  
 2305 No. Parkway  
**PHONE 539-7456** ttc

See **ACTION** for fast job placement of any type for men and women. **ACTION EMPLOYMENT AGENCY**, 201 Uptown Bldg. Phone 534-6233. ttc

(Continued on Page 15)

## WEEK-END OF THE

# JULY FOURTH CELEBRATION

AT ROBINSON AUTO SALES — — — — — 810 MADISON STREET

  
**1959 Volkswagen**  
 Station Wagon. Nice in excellent condition.  
**\$1195.00**

  
**1959 Chevy**  
 Impala Convertible. Solid white. As nice as you will find.  
**\$1495.00**

**1961 Rambler**  
 American Custom 4-door, radio, heater, stick shift, overhead valve engine. Clean.  
**\$1495.00**

**1958 Plymouth**  
 Station Wagon, 6 cyl., 4 dr., radio, heater, automatic.  
**\$895.00**

**1957 Chevy**  
 Station Wagon, 4 dr., V8, radio, heater, auto., tu-tone paint.  
**\$895.00**

**1957 Dodge**  
 4 dr. Coronet, radio, heater, auto., clean.  
**\$795.00**

**1957 Ford**  
 Custom "300", 4 dr. 2 to choose from.  
**\$795.00**

**1956 Rambler**  
 Cross Country Station Wagon. Radio, heater, auto., nice.  
**\$695.00**

**1955 Chevy**  
 4 dr. 6 cyl.  
**\$550.00**

**1954 Ford**  
 4 dr., radio, heater, auto., clean.  
**\$395.00**

**1957 Chevy**  
 V8, radio, heater, stick shift.  
**\$795.00**

**1955 Ford**  
 4 dr., V8. 2 to choose from.  
**\$495.00**

**1955 Dodge**  
 2 dr. Coronet, 6 cyl., auto., radio, heater.  
**\$475.00**

**1953 Plymouth**  
 2 dr., radio, heater. Clean.  
**\$375.00**

**1953 Rambler**  
 American 2 dr. Hardtop. SPECIAL!  
**\$295.00**

  
**1959 Chevy**  
 Impala Sport Cpe. A rare one. 6 cyl. auto. Solid green. A real nice car.  
**\$1495.00**

**1956 Plymouth**  
 2 dr. Hardtop, V8, radio, heater, auto.  
**\$550.00**

# ROBINSON AUTO SALES

PHONE 539-8551

810 MADISON STREET

# Wantads

(Continued From Page 14)

**ALBERTVILLE:** Brand new, being finished this week. Nice 3-bedroom brick and frame house. Hardwood floors, electric heat. Insulated. Extra nice built-in cabinets in large kitchen. Lot 100x150. Total price \$7,200. Pay only \$500.00 down with payments less than rent. **FRED TAYLOR REAL ESTATE**, Ph. 878-3061, Albertville, Ala. 7-18c

**If You Are Not Satisfied With The Haircuts You Are Getting Try . . .**

**AL'S BARBER SHOP**  
3805 GOVERNORS DRIVE

**REGULAR HAIRCUTS . . . \$1.00**

● We Appreciate Your Patronage

**2013 ANDREW JACKSON WAY—** This is a nice 2 bedroom home with separate dining room, forced air heat, fenced back yard, spacious basement workshop. Nice neighborhood in very convenient location in walking distance of schools and churches. **BAKER-HILL REALTY CO.** Ph. 539-3773. tfe

**"NEED 4 BEDROOMS?"**

in a beautiful neighborhood of rolling hills and trees. This custom 4 bedroom brick home with 2 full ceramic baths and cheerful entrance foyer to greet your guests royally. Also has electric heat, massive fireplace, exposed beams, and a kitchen that is a joy for any woman. Your judgment in selecting this fine home will be your constant complement. Priced in low \$20's for immediate sale. **BAKER & HILL REALTY** Phone 539-3773 tfe

**CHOICELY LOCATED HOUSE** for sale. 897 Dunlap Ave., Guntersville. Two blocks from lake, 3 bedrooms, 2 baths, living room, dining room, kitchen. Heated by stoker fed hot air furnace. \$8,000—1/4 down, balance easy terms. Call 878-4616, Albertville, Ala. 7-4c

**FOR SALE — \$800 under cost.** better than new, new car guarantee, 1961 MGA-1600 Coupe, light blue, ideal for air conditioning, phone 536-2913. 1tc

**Guntersville Lake**

Mirror Lake — four-room cottage. Waterfront lot. Best location. \$6750.00

Three waterfront cottages in the Pine Island Section. Excellent condition \$15,000.00 each

Ten waterfront lots — Easy driving distance from Arsenal. \$2000.00-\$2500.00 each

**ED NEELY, REAL ESTATE BROKER**  
Guntersville 582-3914 or 582-3230

**AT ABSOLUTE AUCTION**

**Sat., July 14 — 2 P.M. on Premises**

80 BEAUTIFUL ACRES  
Choice Level Land, Selling Regardless of Price.

COMFORTABLE COUNTRY HOME  
23 Small Tracts from 2 to 5 Acres . . .  
26 Home Sites.

**EASY TERMS — PRE-SALE INSPECTION INVITED**  
Located on U. S. Hwy. 72. (Florence Road) 3 1/2 Miles West of Athens, Alabama

**Johnson & Welden**

SALES AGENTS AND AUCTIONEERS  
310 S. Marion Street — Phone 232-2760  
ATHENS, ALABAMA

**"FOR SALE BELOW FHA VALUATION —** Very small down payment. Three bedroom, 2 bath brick house in Mountainbrook, S. E. Living room, dining room, kitchen and breakfast nook. One car garage, level lot. Blossomwood School. Swimming Pool-Tennis membership available. Tel. 539-5968." tfe

**HEADQUARTERS for Foreign Cars, Convertible Tops and Complete interior upholstery at The Auto Center, 2208 Clinton Ave., W., Huntsville, Ala. Phone 539 0382.** tfe

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

**ROOMS FOR RENT —** Single and double for men with good habits, completely and newly decorated, economically priced. Central Y. M. C. A. Dial JE 4-6452 tfe

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

**FOR SALE OR RENT —** Cabin at Elk River Shores, waterfront lot, 3 bedrooms, sleeps 10, furnished. Phone 536-8505 days or Athens 232-2998 anytime. Rents for \$75.00 per week. 7-4c

**GUNTERSVILLE LAKE-WILLOW BEACH:** Beautiful lakeside home on wooded waterfront lot 100 x375. In city limits. 2 large bedrooms, large living room with picture window. Small guest cottage. 200 ft. pier with 30x30 boathouse. House only 4 years old. Price only \$17,000. **FRED TAYLOR REAL ESTATE.** Ph. 878-3061, Albertville, Ala. 7-18c

**SEAT COVERS \$13.50.** Convertible Tops, Headliners, Carpets, and complete interior upholstery is now available at The Auto Center, 2208 Clinton Ave., W. Telephone 539-0382. tfe

**FOR SALE —** New nice 3 bedroom house, 1 1/2 ceramic tile baths, completely air conditioned, access lot to lake. Minimum FHA down payments, in one of Guntersville's nicest sections. Price \$16,250.00. Will build homes in Arab and Guntersville and finance up to 97% FHA and 100% G.I. Cornelius Real Estate & Insurance Co. Marshall County's leading mortgage broker. 521 N. Broad Street, Guntersville, Ala. Phone JU 2-3027. tfe

**FOR SALE —** Beautiful brick home on wooded lot, Warrenton Shores, Guntersville. Elementary school within walking distance. Forty minutes from Arsenal. Phone Guntersville 582-4657. 5-tp

**GUNTERSVILLE LAKE WATERFRONT LOTS FOR SALE —** Lakefront business property for lease. W&W Land Co., 106 N Lincoln, phone 534-1451 or 536 3113. tfe

**FOR SALE — (Brand New)** Wilson Sam Sneed Signature Golf Clubs, 3 woods, 8 irons. SACRIFICE \$180.00. Original cost \$239.40. 2021 Hansel Avenue, S. W. (Parkway Estates). 1tp

## OFFICER RETIRES

Lt. Col. Kenneth B. Waugh, stationed at U. S. Army Air Defense Command Headquarters, retired from the Army Saturday.

He served as the Army Ordnance Missile Command headquarters liaison officer to ARADCOM from June, 1959, until his retirement. He was formerly stationed at the Arsenal in the Army Rocket and Guided Missile Agency.



**FOR SALE —** 1957 Ford Convertible, automatic transmission, power steering, radio, heater, new w.w. tires, real clean, lot 123, Paradise Trailer Park, phone 539-5864. 1tc

## AUTO

**POST LIABILITY INSURANCE**  
\$5/10 Bodily Injury  
\$5000 Property Damage

**\$10.00 year**

**C. J. WAITE**  
INSURANCE AGENCY  
518 Madison St.  
PHONE 536-9641

**ARAB —** 3 bedroom house—S/S Cullman Ave. 6 rooms, 2 screened porches, large front and back yards. \$65 per month. Phone 539-4157. 1tp

## ATTENTION

### WE NEED SPORT CARS!

MG — TR3 — AUSTIN HEALY, etc. If you have a sports car for sale we pay top dollars!!!

**TEXAS AUTO SALES**  
PHONE 536-6121

**RETIRES —** John S. Smith was presented a certificate of achievement upon his retirement recently. Smith, 67, was employed at the Army Ordnance Missile Support Agency Inspection Division, Surveillance Branch as an inspector. He began working at the Arsenal in 1950 and now plans to take it easy and teach an occasional music class. He had two religious hymns published in 1926.

## David McMinemon

Formerly of Luker's Barber Shop . . . Is new owner of

**WEST HUNTSVILLE BARBER SHOP**  
2402 Triana Blvd.  
(Across from Rebel Inn)

- OUR SERVICE IS A-1
- SHINE ON SATURDAY
- FREE PARKING

Reg. Haircut . . . . . \$1.00  
Flat Top . . . . . \$1.50

Open: Mon., Tues., Thurs., Fri., and Saturday to 6:30 p.m.  
Open Wed. 'til Noon  
— FLAT TOP SPECIALIZING —

539-4272

## RAY

"It Pays to Shop Ray's"

## BEDS FOR RENT!

**HOSPITAL — ROLL-A-WAY — BABY BEDS**

By Day, Week or Month

4850 Governors Drive  
Huntsville, Alabama

## REPRESENTING NEW YORK LIFE



**G. W. (George) EILERS**  
M/Sgt., Ret.



**W. H. (Bill) CLISSON**  
Lt. Col., Ret.

Res. 534-6220 — Bus. 536-6301 — Res. 539-3256  
250 Governors Drive, SE — Huntsville, Ala.



AND . . . They need lots of it during strenuous summer activities.

**Get Plenty Of Milk Daily**

**Meadow Gold Dairies**

## IN THIS AD YOU'LL FIND YOUR

### ★ PRICE RANGE

—And—

### ★ LOCATION

—In—

## Yarbrough Estates

- Split-Foyer ●
  - Over 2,000 Sq. Ft. Plus Garage
  - 2 1/2 Baths ● Corner Lot
- ONLY \$18,200**

Drive North on the Parkway to Highway 72 E. and turn right . . . Look for our "Open House" Signs on Left.

—Or—

## LILY FLAGG

10015 STRONG DR.

Four bedrooms, den, 2 1/2 ceramic baths, central air conditioning, separate dining room, built-in GE kitchen, and double garage.

ONLY \$23,250.  
GI—\$300 DOWN  
PLUS CLOSING

402 WEATHERLY DR.

Beautiful full brick, three bedroom home with den, separate dining room, built-in GE kitchen, central air conditioning, & fenced rear yard.

ONLY \$20,200

GI—Nothing Down  
FHA Minimum Down

See Our Split-Level Model on Strong Drive. Just Off Weatherly Road. This Big House Is Selling For Only \$16,750. GI — NOTHING DOWN!

—Or—

## PINECREST

Drive Out Today to Beautiful Pinecrest. Just two blocks off Patton Road on Ridgecrest Ave. "Located in The Beautiful Pine Trees"

### SPLIT-LEVEL MODEL

ONLY \$15,300  
GI Nothing Down

### 3 Bedroom Colonial Model

- Den ● 2 Full Baths
- ONLY \$15,050  
GI—Nothing Down

### 3 Bedroom Ranch Model

- Full Brick ● 2 Baths
  - Large Living Room
- ONLY \$14,250  
GI—Nothing Down

## ENSOR & DUNN

REAL ESTATE CO.  
Phone 539-8491

# INCENTIVE AWARDS

The following awards have been announced by the Incentive Awards Committee:

**Outstanding Performance and Sustained Superior Performance:**

Clinton M. Williams, Jr., Digital Computer Programmer, Field Service; Edward Foxworthy, Procurement Officer, Edward W. Cannon, Missile Engineer and Gene S. Gilbertson, Missile Engineer, Industrial; Charlotte M. Hayle, Clerk, Dorothy D. Cagle, Secretary, and Elizabeth H. Reynolds, Secretary, OGMS.

**Outstanding Performance**

H. Hoyt Harris, Missile Development Control Engineer, Charles J. Rinker, Administrative Officer, William V. Gudaitis, Aeronautical Research Administrator, R & D Directorate; Rampy B. Collinsworth, Administrative Supply and Control Officer, Post Engineer; Frederick M. Sittason, Jr., Supv. Gen. Engineer, Control Office.

**Sustained Superior Performance**

Joseph T. Radzinski, Engineering Technician, R & D Directorate; Sidney R. Montgomery, Secretary, R & D Directorate; Emmett J. Boylan, Management Analyst, Industrial; Sylvia K. McConaha, Administrative Officer, Industrial; Tiffie M. Ebevins, Secretary, Industrial; and Margie D. Hardeman, Budget Analyst, Comptroller.

**SUGGESTION AWARDS**

John Dudley Reese, Jr., Industrial Directorate, \$100—this suggestion resulted in the installation of a warning light on the new NASA building which is near the Redstone Arsenal Airport. This building is a safety hazard to low flying aircraft.

Carl Estep, Calibration Center, \$15—this suggestion resulted in a sign reading "DANGER, HIGH VOLTAGE" being installed on the outside of all Power Supply Cabinet Doors in the Test Equipment Electronic Shops 1 and 2, the Battery Control Vans, Radar Control Vans, and the Launcher Control Power Supply Cabinets.

Harrison B. Mullendore, Civilian Personnel Office, \$15—this suggestion resulted in a letter of commendation being sent to personnel obtaining their career status.

Charles W. Jackson and SFC Fred P. Fischer, Department of Training Research and Development, OGMS, \$100—this suggestion resulted in the existing handling racks for the CORPORAL missile being used in the SERGEANT Missile System. The estimated savings is \$2,000.

Adrian O. Marine, Air Defense Missile Division, OGMS, \$25—this suggestion resulted in the launcher support jack dollies being made available for use by personnel involved in moving Hawk launchers from one place to another.

Donald R. Young, Air Defense Missile Division, OGMS, \$25—this suggestion resulted in the installation of a safety guard over the equipment blower belt and pulley assembly located in the main power supply cabinet of the AN-MPQ-36 Simulator.

Edith R. Deavers, Maintenance Division, AOMSA, \$40—this suggestion resulted in the fabrication of a special tool for disassembly and assembly of the Mitchell Model 16 MM Motion Picture Camera. The estimated savings is \$300.

Jerry E. Winnette, Post Engineer Division, AOMSA, \$15—this suggestion resulted in the installation of a floating type gauge on the ammonia tank which supplies ammonia for the Ozalid Machine in the Reproduction Section.

Robert E. Pateur, Jr., Consolidated Supply Division, AOMSA, \$40—this suggestion resulted in the publication of a form so the Warehousing Section can request corrective action be taken on discrepancies found in the warehouse.

James W. Hodges, Industrial Directorate, \$50—this suggestion resulted in the mechanization of the preparation of Military Supply Standards and Supply Supplements. Although the suggestion was not adopted verbatim, it has proven to be extremely helpful in developing a procedure for preparing Military Supply Supplements.

James A. Flynt, Research and Development Directorate, \$20—

this suggestion resulted in the fabrication of rollers for jet-vane fixtures for the Pershing Rocket.

James A. Flynt, Research and Development Directorate, \$20—this suggestion resulted in the fabrication of a device to hold six bottles of CO-2 in a stationary position. This device is used to extinguish the after-burning fires in rocket engines.

Enoch S. Bingham, Research and Development Directorate, \$15—this suggestion resulted in the elimination of a safety hazard concerning the passageway at Building 8972.

**1500 HOUR SICK LEAVE CLUB**

**Civilian Personnel Office**  
John G. Mikitish  
**Missile Systems Safety Office**  
Henry C. Dyer  
**Industrial Directorate**  
Thomas W. Cornell, Edgar C. Roberts, Walter D. Gillespie, Roland L. Guard, John R. Winkler,

## The Post Library

ANNA LEE FARRAR, Librarian

The Post Library has added many interesting and stimulating books in recent months. One of the most outstanding volumes in the field of American history is "A Treasury of American Heri-

Mary B. Wilkerson, Arthur A. Ming, Cloyd V. Smith, Herman L. Martin, B. Calvin Droke, Joseph P. Hunn, John R. Godman.

**Field Service Directorate**  
Alfred J. Penchosky, William D. Brodeur, Ed R. Harris, Harold Baum, Thomas O. Byrd, Harold O. Jackson, Chester H. Ashford, Ralph Beales, J. Paul Hancock, William E. Fleming, Morris E. Johnson, Leo L. Kirk, William A. Hawse.

**Research & Development Directorate**  
Robert W. Eklis, Byron M. Brumback, Sol Cohen, John B. Clark, Ralph L. Simerson, Walter E. Blackledge, Monroe W. Cramer, Frances Davidson, Delman E. Rowe.

itage." Biography is represented. The years since World War II have been perhaps the most fruitful 15 years in archaeological history. Numerous books and magazine articles describing significant archaeological finds and exploration can be obtained at the Post Library.

Monroe Ames, "Sectional Properties of the Circular Fractions."

Royal de Roan Barondes, "China: lore, legend, and lyrics."

Robert Manson Bunker, "The First Look At Strangers."

Ben Lucien Burman, "It's a Big Continent."

James Mallahan Cain, "Mignon."

Charles Ira Coombs, "B-70, Monarch of the Skies."

Alfred Edgar Coppard, "It's Me, O Lord!"

Pietro Di Donato, "The Penitent."

James Lindsay Dyson, "The World of Ice."

Louis Engel, "How to Buy Stocks."

Andrew Turnbull, "Scott Fitzgerald."

World Affairs-Foreign, "Careers in World Affairs."

Romain Gray, "Promise At Dawn."

Harold T. Glenn, "Glenn's New

Auto Repair Manual." Jacob Hoke, "The Great Invasion."

Clarence Pearson Hornung, "Wheels Across America."

Matthew Josephson, "Life Among the Surrealists, a Memoir."

Theodore Key, "The Biggest Day in the World."

Simon O. Lesser, "Fiction and the Unconscious."

Constantine Manos, "Portrait of a Symphony."

James Monohan, "Before I Sleep The Last Days of Dr. Tom Dooley."

Alan Edward Nourse, "So You Want to be an Engineer."

Herbert Victor Prochnow, "A Dictionary of Wit, Wisdom & Satire."

Milton Allan Rugoff, "The Great Travelers."

Harry Allen Smith, "To Hell In a Handbasket."

John Charles Pollock, "Hudson Taylor and Maris: Pioneers In China."

John Updike, "Pigeon Feathers and Other Stories."

James Abbott Whistler, "The Gentle Art of Making Enemies."

Rudolph M. Wittenberg, "Common Sense About Psychoanalysis."



this is one way!

... but most days it's necessary to appear cool and collected in your business suit. The cool weightless men's clothes from our men's store help you to achieve this. Your favorite brands are here, as always!

**Dunnivant's**  
downtown