

The Redstone Rocket

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VOL. X; NO. 2

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MAY 24, 1961

Arsenal Host To 40,000 Visitors Sat.

Armed Forces Day Open House Draws From Far Places

The largest crowd ever to assemble at Redstone Arsenal—an estimated 40,000 persons—poured through the gates Saturday afternoon for a first hand look at the Army missile spawning grounds. The U. S. Army Ordnance Missile Command played host at the Armed Forces Day activities to spectators from all over the Southeastern United States.

A 20 acre parking lot was nearly filled with automobiles and others parked along the road shoulders and in spaces around the Army Rocket and Guided Missile Agency headquarters.

Center of attraction was three huge tents with contractor displays bordered by displays of missiles developed by the Army and produced by private industry. The missiles ranged from a hip pocket sized weapon to the 69 foot long Redstone.

In addition, the visitors were able to tour ARGMA headquarters, the Army Ballistic Missile Agency headquarters and the U.S. Army Ordnance Missile Command.

They also peeked inside the U. S. Army Ordnance Guided Missile School and Redstone Arsenal headquarters.

Heavily loaded buses carried thousands to Test Area One where the M-72 was fired, the SS-10 wired guided missile, a multiple rocket launcher, a missile engine static fired and a firing of high speed test sled on a sloping track.

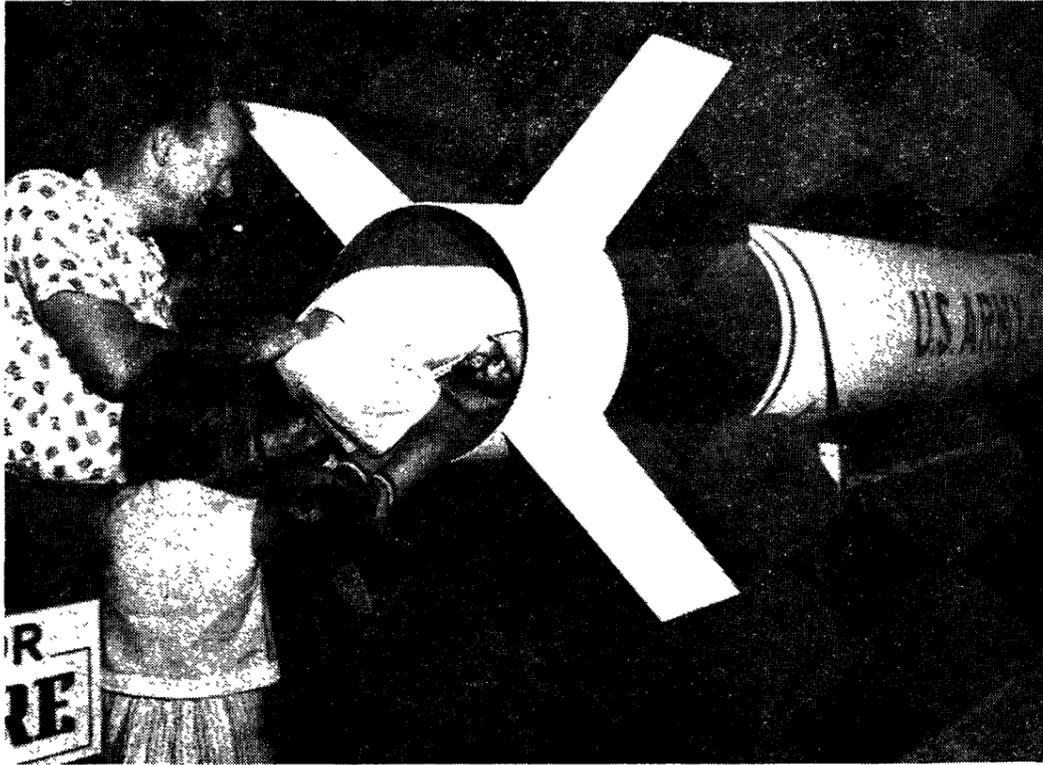
These firings took place every 45 minutes throughout the afternoon — each time to a packed crowd.

Col. Thomas W. Cooke, commander of Redstone Arsenal, said "I am happy that so many people are so interested in what we are doing here as is evident by the most gratifying turnout."

Other key officers who played host to the visitors were Maj. Gen. August Schomburg, who commands the Army Ordnance Missile Command. His assistant, Maj. Gen. John A. Barclay; Brig. Gen. Richard M. Hurst, commander of ABMA and Brig. Gen. John G. Zierdt, commander of ARGMA.

Two hundred military policemen were on duty to help direct the crowd.

Included among the spectators were scores of school children who came aboard buses, other (See ARMED FORCES, Page 2)



MISSILE "HOBO"—A father and daughter locate a third member of the family in a secret hiding place during the Armed Forces Day Open House activities at Redstone Arsenal. An Army photographer caught them extracting the lad from the tail section of a Nike Ajax. The recovery was successful.

LATEST REDSTONE FIRING IS 200 MILES DOWNRANGE

Test Is Successful Liftoff of 30-Ton 69-Foot Missile

A U. S. Army Redstone missile traveled almost 200 miles down the Atlantic Missile Range in a successful firing test May 17 from Cape Canaveral, Fla.

Liftoff of the 30-ton, 69 foot ballistic missile and operation of its liquid fueled propulsion system were normal. Separation of the warhead unit was accomplished and preliminary data indicated it impacted in the pre-selected target area.

The firing was one of a series to evaluate production Redstones manufactured by the Chrysler Corporation of Detroit, Mich., prime contractor.

The Army said the missile satisfied its test objectives.

The missile tested was similar to the Redstones now on duty with Army units in Europe. Instrumentation necessary for range safety, tracking and data collection was added to the tactical-type missile.

Redstone was designed and developed by the Army Ballistic Missile Agency, an element of the Army Ordnance Missile Command at Redstone Arsenal, Ala.

The firing was conducted by a (See REDSTONE on Page 2)

Pool Opens Memorial Day With Ceremonies

Memorial Day, May 30, marks the opening of the newly constructed Special Services Swimming Pool off Vincent Road near the new troop barracks.

The pool opening will be highlighted with ceremonies with Maj. Oscar E. Hufnagel, Special Services Officer acting as master of ceremonies.

The 55th Army Band will furnish music. Chaplain John E. Batterson will present the invocation followed by introduction of dignitaries and lifeguards.

Col. Thomas W. Cooke, Redstone Arsenal Commander, is slated to cut the ribbon to officially open the pool.

Following the ribbon cutting will be a game of water polo, a diving exhibition with clowns, and a style show of beach apparel.

The program will be climaxed with a water safety demonstration of lifesaving and respiration techniques.

The new pool is constructed according to official AAU short course dimensions with eight racing lanes measuring 60 feet wide (See POOL on Page 2)

Three Nation Committee Studies Surface-to-Air Low Altitude Systems

A three-nation committee, studying low altitude surface-to-air missile systems for the field Army, concluded a week-long meeting at Redstone Arsenal Friday.

The Tripartite Standing Working Group, including representatives of the United States, the United Kingdom, and Canada, met at the Army Rocket and Guided Missile Agency.

Chairman of the delegation from the United Kingdom was John D. Clare, Director Guided Weapons Air, Ministry of Aviation. Maj. Dan Janigan, Canadian Directorate of Artillery, was chairman of the Canadian delegation. Col. James K. Taylor of the Office, Chief of Research and Development, headed the U. S. Group and served as chairman of the meeting.

James W. Gould represented AOMC, and Major Henry Mitman was the delegate from ARGMA.

Also represented were the U. S. Continental Army Command, the Chief of Ordnance, Deputy Chief of Staff for Operations at Department of the Army, and the U. S. Army Standardization Group.

Maj. Gen. August Schomburg, Commanding General of AOMC, and his deputy, Maj. Gen. John A. Barclay, greeted the group on their arrival. Brig. Gen. John G.

Computation Laboratory Bids Invited

Building Will Be Located on South Side of Martin

The U. S. Army invited contractors to bid on construction of a new Computations Center building at Redstone Arsenal, home of the U. S. Army Ordnance Missile Command.

The building will be erected along the south side of Martin Road, Redstone's main street, generally opposite the Army Rocket and Guided Missile Agency headquarters building.

The facility will be for joint use by all five major Army agencies located at Redstone Arsenal, the Army Ordnance Missile Command; its elements, the Army Ballistic Missile Agency, the Army Rocket and Guided Missile Agency, and Redstone Arsenal, and Army Ordnance Guided Missile School.

Specifications call for the construction of a two-story building containing approximately 25,000 square feet of floor area with concrete slab, frame and roof deck, hollow masonry walls and brick facing, all necessary utility systems including storm drains, paved access drives, parking areas and sidewalks.

Bids for the job will be accepted from small business only. They will be opened at 11 a.m. CST, June 14, in the office of the U. S. Army Corps of Engineers, Mobile District, 2301 Airport Boulevard; Mobile, Alabama.

Small business in the construction industry is defined as one that is independently owned and operated not dominate in its field of operation. Annual average receipts of the concern and its affiliates for the preceding three years must not have exceeded \$5,000,000. If the concern qualifies as a labor surplus area concern, that figure must not have exceeded \$6,250,000.

Zierdt, ARGMA Commander, hosted the group during the meeting.

Maj. Gordon Wood, Canadian Liaison Officer at Redstone, and L. G. K. Crawford, British Ministry of Aviation Liaison Officer, honored the visitors at receptions early in the week.

GEN. SCHOMBURG'S THANK YOU

To each person, civilian and military, who had a part in helping to make Armed Forces Day Open House at Redstone such a tremendous success, I want to say:

Congratulations and thank you for a job well done!

So many persons did so much to assure that the "Power for Peace" theme would be suitably presented to the American public that I cannot single out all who deserve praise. Everyone concerned worked most diligently to achieve a very effective presentation, and public participation was highly gratifying.

Again, thank you very much for helping to reach so many people, so well, with our message, "Power for Peace."

AUGUST SCHOMBURG
Major General, U.S.A.
Commanding



MORE THAN 40,000 viewed the missile displays and exhibits at Redstone Arsenal on Armed Forces Day Saturday when the Arsenal held Open House for the first time since the missile program was established here in 1950. Other open house events

have included Army Ballistic Missile Agency birthday parties and the dedication of the Army Rocket and Guided Missile Agency headquarters building.

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.

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Commercial Fisherman May Soon Use Rockets

Experiments Now Being Conducted By Wildlife Service

Most fishermen use worms, but the U. S. Army will dangle a rocket near the nose of the big 'uns soon if a joint project goes off as planned.

Experts at Redstone Arsenal, home of the Army's missile program, are joining with the U. S. Fish & Wildlife Service in experiments on the possible applications of rockets in commercial fishing.

Harvey R. Bullis Jr., director of the Gulf and South Atlantic Exploration and Ocean Research Base at Pascagoula, Miss., proposed the use of rockets to propel large nets over schools of feeding tuna fish.

His request for assistance drew an enthusiastic response from William P. Lloyd, director of the Test and Evaluation Laboratory of the Army Rocket and Guided Missile Agency at Redstone.

Lloyd and his test personnel, expert in the use of rocket propulsion in a variety of Army missiles, feel that Bullis' idea has real promise. Small rockets already at Redstone are being considered for adoption in the rocket net scheme.

Bullis envisions a gill net 240 feet wide at the front end and 360 feet long. The net would be folded on the deck of the fishing boat. Rockets would be used to whip the net into the air and spread it out over a school of tuna up to 500 feet away from the boat.

Lloyd plans initial tests with the rocket net at Redstone Arsenal. One of the Army rocket firing ranges has a lake on it. The water isn't stocked with fish, but it is wide enough to accommodate the fish net.

If these tests prove the rockets feasible for net firings, actual fish hauls using the system will be attempted in the Gulf of Mexico off Mobile and the Mississippi Delta, Bullis said.

His net will have weighted edges with large mesh. The mesh size of the gill net should catch nothing but fish of the usual school tuna size.

Bullis describes the rocket net as a part of a Department of Interior program aimed at devising more efficient commercial fishing techniques.

"The commercial fishing situation is getting serious," Bullis said. "Production costs are high, labor is high and the overall cost is more per man."

"We think the rockets firing nets offer a better technique than those currently used in the industry. If it works, it will have a very broad application."

Bullis hopes a four or five man crew could operate the rocket net instead of the dozen now required on the usual tuna boat.

According to his theory, the tuna will be schooled in a feeding area near the surface. The boat will be maneuvered into position and the net will be fired to spread out and land over the tuna school. "Tuna go wild they they are feeding," Bullis said. "When the net lands on top of the school they should become entangled in it as



LUTHER F. ADAMS—received an Outstanding Performance as Deputy Civilian Personnel Officer at Redstone Arsenal from Col. Thomas W. Cooke, Commander, who presented Adams a Department of the Army Outstanding Performance Certificate and a Citation "for his extraordinary knowledge of the Civilian Personnel functions and his ability to intergrate and coordinate programs to the highest degree of perfection." Adams has been employed at Redstone since February, 1961. He is a graduate of the University of Alabama and received his Bachelor of Science Degree in 1951.

The Adams' family lives on Alabama Street in South Huntsville.

MELLO ADDRESSES ENGR. COUNCIL

The director of civilian personnel of the Army's missile headquarters spoke May 19 to the Engineers Joint Council here.

Robert F. Mello, Chief Civilian Personnel Officer of the Army Ordnance Missile Command at Redstone Arsenal, Ala., delivered an address on "Coordinated Effort in the Missile Program."

Citing the part played by the engineer in missilery, Mello observed that "the limited range of performance required of an engineer of two decades past has been expanded to the point where management and engineering are almost synonymous."

"A. B. S. in engineering of 30 years ago is really of little use today as a technical degree," Mello said.

Remarking that the U. S. is no longer in an age of mass production, but rather one of "massive engineering," Mello said that in the missile business, costs of applied development and research knowledge dominate the cost picture. Direct costs continue to decrease as a percentage of production costs.

"In many industries," he said. "It is increasingly difficult to determine where engineering stops

and production begins."

Mello concluded his talk with the comment that, "Great has been the progress achieved in technology in the past quarter century. Tomorrow promises to surpass anything that has gone before. In the realization of that opportunity, we in the Army Ordnance Missile Command know that the engineer will be the dominant influence."

ARMED FORCES

(Continued From Page 1)

chartered buses carrying organized clubs, at least 250 members of the Birmingham Chapter of the American Ordnance Association, scout groups, reservists from all branches of service and many families and friends of Arsenal employees.

Military policemen stationed at various critical intersections and wearing radio helmets kept the thousands of automobiles and buses flowing freely.

A survey by the Public Information Office of the automobiles parked in the nearly packed 20 acre lot showed cars came from as far away as Florida and West Virginia. Some tags showed visitors from North Carolina, hundreds from Tennessee, Georgia, virtually every Alabama county and points in Mississippi, Arkansas and Kentucky.

REDSTONE

crew of personnel from the ABMA Test Evaluation and Firing Laboratory and the Launch Operations Directorate of the George C. Marshall Space Flight Center

This was the first firing of a Redstone since a modified version was used to boost the first American astronaut on a sub-orbital space flight, May 5. Tonight's firing had no direct connection with the man-in-space program.

(Continued From Page 1)

POOL

(Continued From Page 1)

and 75 feet long. A diving well 35 feet square has two boards of one meter and three meters.

Three lifeguards will be on duty during the hours the pool is open on a seven day schedule from noon to 9 p.m. Mornings will be devoted to Joint Activities Council sponsored instruction with three classes of 50 minutes each beginning at 8:30 a.m., 9:30 a.m. and 10:30 a.m.

Parents have been issued questionnaires so that all dependents of military personnel stationed here will have an opportunity to enter classes. Forty-five pupils can be handled during each 50 minute session. Registration will be in person at the pool office.

Altogether there are nine men ready for lifeguard and water safety instruction. Three of them: SP4 Richard A. Budd, PFC. Barry A. Beal, and SP5 John A. Cammack, NCOIC, will work as instructors.

The other guards include Pvt. Keith C. Urback, PFC Douglas C. Phimister, SP4 Robert C. Adams, PFC. James B. Denning, PFC. Earl R. Goldman and PFC. James N. Ryan.

Shifts will be rotated so that there will always be three men on duty at all times.

Mrs. Budd will manage the dressing room and the check room.

The Army National Guard numbered 409,986 officers and men at the beginning of 1961. There are 36,321 officers and 373,665 enlisted personnel in the Guard.

By Jan. 31, 1961, the Army had obligated 69 percent of the FY 1961 procurement program amounting to \$976,200,000. The funds buy weapons and equipment.

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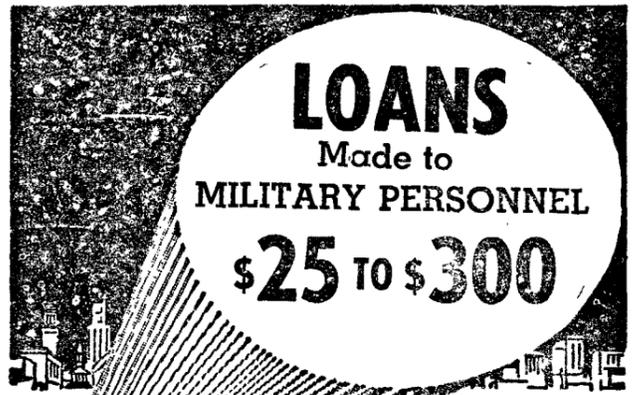
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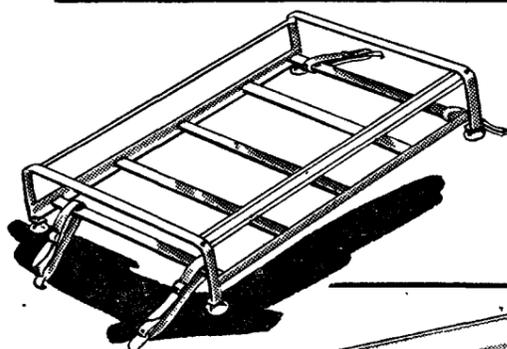
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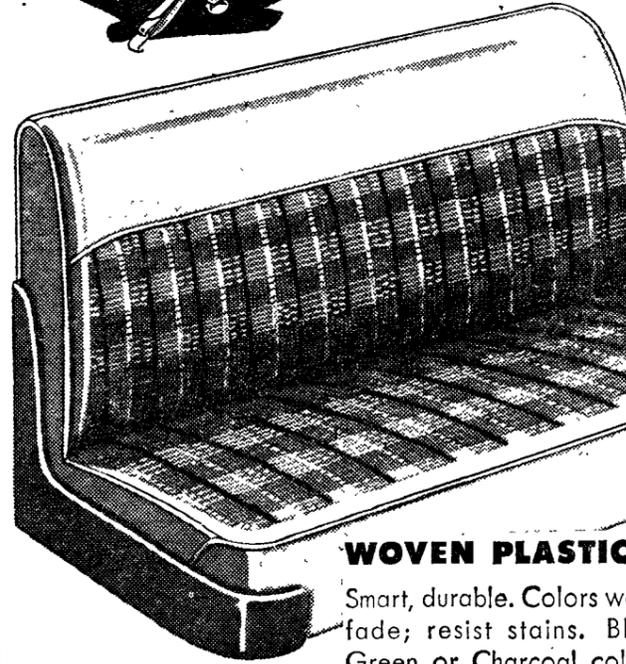
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Social News

Accountants Install 1961-62 Officers At Dinner Meeting

The Federal Government Accountants Association held its annual "Electoral Dinner" at the Russel Erskine Hotel Tuesday Evening, at which time the officers elect were announced: Abner C. McNaron, president; George W. Noel, first vice president; Mark G. Hunter, second vice president; John W. Cooley, treasurer; and Doyle J. Bailey, secretary. A special social aspect marked this climatical business session, with the members' introduction of their wives, husbands, and special guests.

The dinner meeting was held in the dining room preceded by a social hour. Included in the business agenda was a brief resume' of past year activities, presented by the outgoing officers and committee directors. These presentations were designed to acquaint the honored guests with the goals and accomplishments of the local Chapter, and serve as an annual report to the membership.

Mr. Jack L. Edgar, president of the Chapter, also outlined his plans for attending the 10th Annual National Symposium of the FGAA, scheduled last week at the Shoreham Hotel in Washington, D. C.

The symposium theme was "Changing Dimensions of Financial Management in the Federal Government." Mr. Edgar attended the Executive Meeting of the National Association on Thursday afternoon, at which time programs and policies were established for future activities at National level of the association. The program

Engineers to Hear Paul J. Erdle Tomorrow Night

The Huntsville Chapter of the Institute of Radio Engineers will meet May 25 at the Holiday Inn at 6 p.m. with dinner at 7 p.m. and a technical discussion at 8 p.m.

Guest speaker scheduled is Paul J. Erdle of Sylvania whose topic is "State of Art—Receiving Tubes."

Mr. Erdle is a graduate from Cornell University in electrical Engineering and has been with his company since 1946.

He served in the U. S. Marine Corps in communications.

of the symposium included several Technical Sessions at which distinguished and well known executives discussed financial matters of interest and information to the representative Government Accountants. Mr. Milton V. Boone, the Host Chapter President, opened the session at 10:00 P.M. on the 18th, in the Blue Room of the Shoreham. Raymond Einhorn, National President of FGAA, was the opening speaker. The symposium ended with the annual banquet in the Terrace Room on Saturday night. Dr. Thomas H. Carroll, President of George Washington University, was the guest speaker. Entertainment was provided by the Jack Norton Productions, concluding the program.

Mr. George Noel, Chief Auditor of the Marshall Space Flight Center, also attended the symposium, serving on a special subcommittee.



HERE'S HOW—Brig. Gen. John G. Zierdt, Commander of the Army Rocket and Guided Missile Agency, sights with a Redeye missile to demonstrate its use to Maj. Gen. Horace F. Bigelow, Deputy Chief of Ordnance, who was the principal speaker at the Armed Forces Day Banquet at the Huntsville Country Club Friday night.

Mrs. Fite Wins On 'Party Day'

Mrs. W. S. Fite was high at the end of play of the Party Bridge Group sponsored by the Redstone Arsenal Officers Wives Club on Party Day Thursday at the Squirrel Hill Officers Club.

She also received a slam prize as did Mrs. Orlando Garcia.

Honors went to Mrs. C. E. Apostolakis; the red deuce prize to Mrs. C. W. Hartman.

Twelve tables were in play. The group lunched at the club.

A special guest on "Party Day" was Mrs. Paul G. Hollister, mother of Lt. Marion P. Hollister, and wife of Brig. Gen. Hollister returned recently from Turkey where he was Allied Commander for NATO. The lieutenant is assigned at ABMA.

Reservations to play with the group may be made by Wednesday noon with Mrs. E. S. Shorsten, 877-5254 or Mrs. J. H. Davitt, 877-5970.

Capt. Homer Finch, Mrs. Hollister Win At Party Bridge

Capt. Homer Finch and Mrs. Myron Hollister, playing party bridge at the Squirrel Hill Officers Club on Monday night, May 15, made a score of 4,030 in one progression.

Results at the end of the evening were: Capt. Finch high for the men and Mrs. Hollister second for the women.

Second for the men was CWO.

George Weiser. High for the women was Mrs. Winford Patton.

The bridge group meets Monday evenings at the Squirrel Hill Officers Club. Reservations to play with the group may be made with Mrs. John Severeid, 877-4841.

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VFW Poppy Sale Will Be May 27

The annual Buddy Poppy sale will be conducted in Huntsville Saturday, May 27, by the Veterans of Foreign Wars Post 2702 and the Ladies' Auxiliary.

"While we well realize that people today are literally swamped with requests to contribute to many fund raising drives, we feel that the Buddy Poppy Campaign is one that cannot be ignored," says Mack Jennings of ABMA, District Commander of the VFW.

"If you give 25 cents for a Buddy Poppy," Mr. Jennings says, "most of your contribution stays right here in the community where the local post uses the money to help needy veterans and their families."

One and one-half cents goes to the State VFW welfare program; one cent to the National VFW rehabilitation service; one cent to the National VFW home for widows and orphaned children of deceased Veterans of Foreign Wars, and the remainder to cost materials and to pay the hospitalized veterans who assemble the Buddy Poppies.

All veterans organizations of Madison County and Huntsville will conduct a memorial service at the Maple Hill Cemetery at 11 a.m. Tuesday, May 30, Memorial Day.

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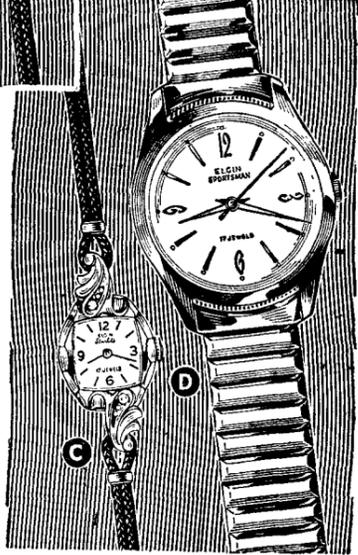


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MISS SUSAN JEAN

Susan Jean Receives Scholarship

Miss Susan Jean, daughter of Col. and Mrs. J. N. Jean, 37 Ripley Drive, Redstone Arsenal, won a scholarship to Rice University at Houston, Texas through the National Merit Scholarship Qualifying Test.

This test is given to all juniors in high schools. There were eight finalists in the City of Huntsville, four from Butler where Miss Jean is completing her high school work and four at Huntsville high school. Miss Jean is the only one who received a scholarship.

The students are given a choice of universities and colleges. Miss Jean intends to study medicine and mathematics.

She has been a member of the National Honor Society for two years, an "A" student who studied a college preparatory course. For five years, Miss Jean has been a member of the Stars and Bars staff of the Butler high school newspaper. She is ending this

Contracts Awarded 7 Alabama Firms

Seven Alabama firms were awarded contracts for goods and services by elements of the Army Ordnance Missile Command in April, totaling \$152,570 during April.

Four contracts went to Huntsville firms. Two contracts were received by one Arab company, and two by a Montgomery concern. One Birmingham business was awarded a contract.

The Huntsville awards: Ashburn & Gray, Inc., sealing and resurfacing of Redstone Arsenal roads, \$24,300; Flint Refrigeration Co., Inc., air conditioning of a building, \$12,648; Southerland Blue Print Co., paper, \$9,544; Throneberry Contractors, construction of new traffic lanes and access road, \$10,283.

The Isom Sheet Metal Works of Arab, Ala., received two contracts; one for construction of an equipment shed and installation of air conditioning, \$27,408; and, for air conditioning of a building, \$10,315.

H. A. Butler of Montgomery also received two contracts: one for an attitude test pad, \$26,968; and one for interior modifications to a building, \$8,124.

M. F. Snyder & Co., of Birmingham, contracted for a new prefabricated steel hangar, at \$22,980.

There are contracts with companies in two bordering states, Georgia and Tennessee. ITT Kellogg of Atlanta will provide telephones and dial intercom circuits, \$4,213; Scientific-Atlanta, Inc., has two contracts: one for three systems, involving 75 items, \$19,600; and a contract for seven items of special purpose equipment, at \$23,246.

Gray Hodges Corp of Knoxville has contracted to supply pipe and fittings, at \$5,322. It will also supply pipes and valves for \$5,074. Volasco Products Co., of Knoxville, will perform reroofing services for \$34,020.

The non-Alabama contracts for other than missile research or production totaled \$359,550.00.

The Jean family includes 12-year-old Kip and 19-year-old Ellen.

Cub Scouts to End Season With Picnic

Redstone Cub Scout Pack No. 308 will end the 1961 season with two events.

The first will be a picnic for the cub scouts and parents at the Normandy Farm Area at 1730 hours Wednesday, May 24. A campfire and Indian War Dance will highlight the activity.

On Saturday morning, June 3, a track and field meet will be held at the junction of Skinner and Goss Roads beginning at 9 a.m. M/Sgt. William Hull, OGMS, is Cubmaster for Pack No. 308.

Den mothers are Mrs. K. M. Coffeen, Mrs. H. E. Stewart, Mrs. W. S. Bice, Mrs. G. L. Barnhill, Mrs. G. W. Gustafson, and Mrs. J. C. Singer.

RESERVE OFFICERS TRAIN

CDR. H. M. Tatum, USNR-R of Field Support Operations ABMA, CDR. J. D. Beal Jr., USNR-R of Industrial Operations ABMA and LCDR A. C. Pautler, USNR-R of Research and Development Operations ARGMA have returned from a 3 day training duty seminar held at Aiken, South Carolina.

Included in the seminar was a visit to and a tour of the Atomic Energy Plant at Savannah River.

CDR. H. M. Tatum is a former Commanding Officer of NRRCo 6-17 Huntsville. CDR. Beal is Executive Officer of Naval Reserve Research Company 6-17 and former Commanding Officer of Naval Reserve Ordnance Company 1-1 of Boston, Mass.

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The non-Alabama contracts for other than missile research or production totaled \$359,550.00.



DISPLAY OF OLD AND NEW—Gen. August Schomburg and Lt. Col. Theodore Antonelli are shown examining a model of the Chinook Helicopter, part of an exhibit displayed in the AOMC Headquarters Building during National Transportation Week. In the background is a model of the Kitty Hawk assembled by Maj. John P. Ross, Chief of Transportation Division, and a picture of the aircraft, autographed by Orville Wright, personal property of Charles Goodrich, Douglas Aircraft Corp.

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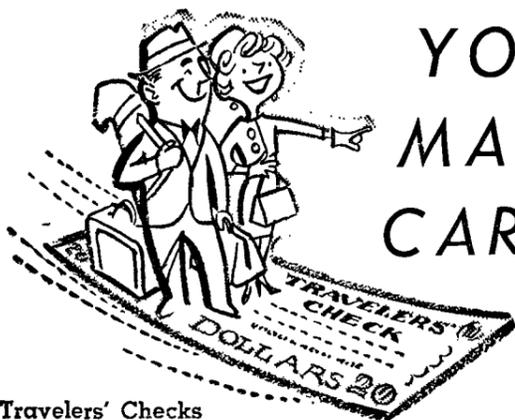
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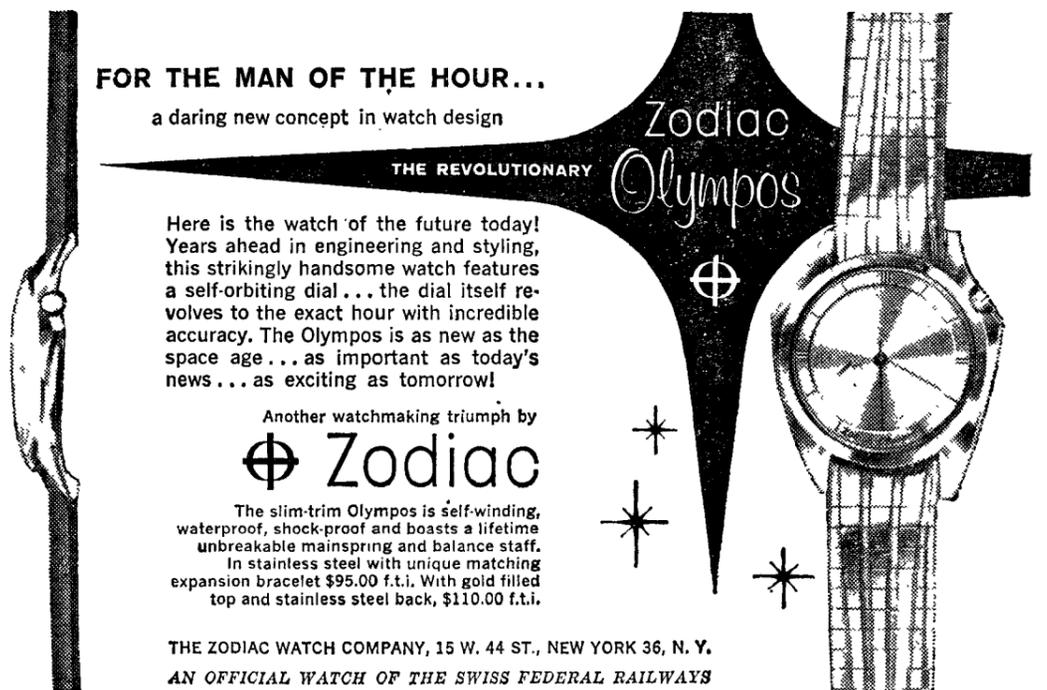
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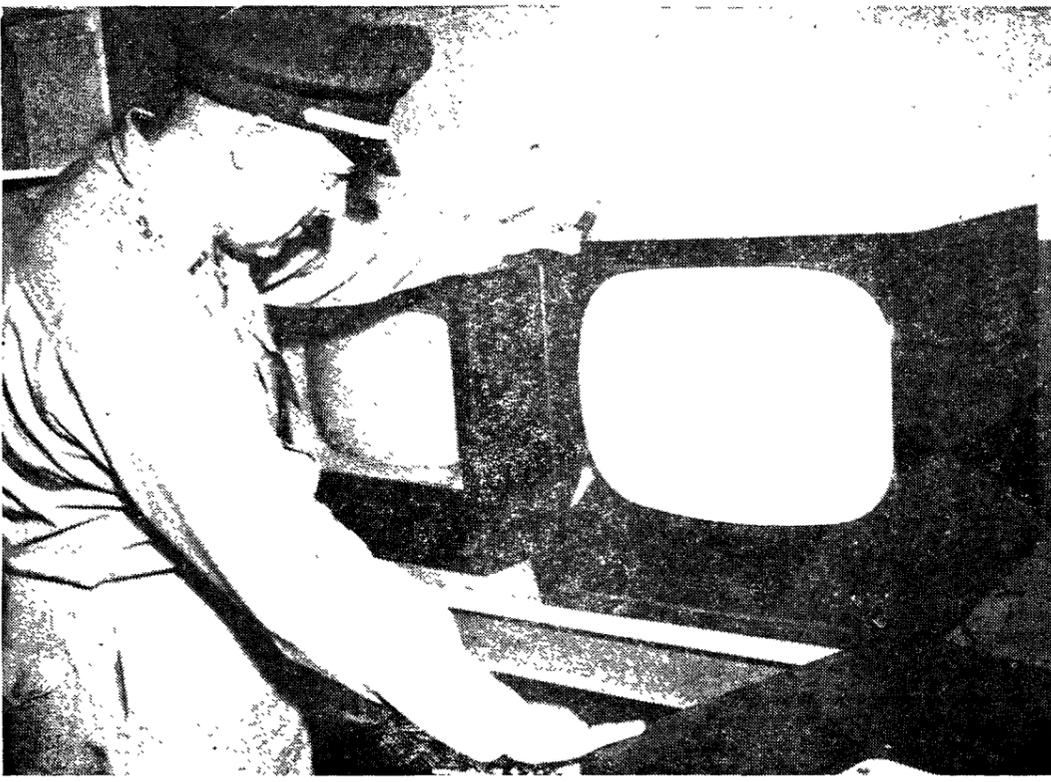


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LOOKING AT A POSSIBLE for a second TV set at home is CWO Perry Mayo of the Signal Electronics Detachment at the Ordnance Guided Missile School. The TV is in the Post Thrift Shop in Bldg. 3656 behind the Post Library.

Thrift Shop Is Thriving Business

Clothes, Furniture, Children's Things Are Sold in Shop

"The place to buy or sell outgrown clothes, furniture, hobby equipment and childrens play equipment is through the Arsenal Thrift Shop, the manager, Mrs. Henry L. Gotzian said. Her husband is Chief of the Redstone

Control Office.

People at Redstone Arsenal can solve almost any problem of this nature by visiting the Thrift Shop which supports in part the Joint Activities Council and the Post Nursery.

On the other end of the stick, people needing such items and many more may be able to find the exact item at the Thrift Shop.

The mainstays as store operators are volunteers from wives of military personnel on post. Both enlisted and officers wives help operate the Thrift Shop.

Their only compensation is

(Continued on Page 7)

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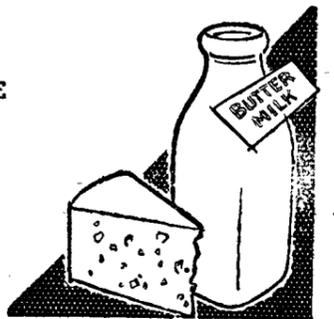


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NEW YORK (Special) — It is reported that a major "break-through" in hearing aid development has been made by The Otarion Research Laboratories in Ossining, New York, who are introducing an entirely new listening concept called "direct reception hearing."

Incorporating an amazingly sensitive secret "ear," the device enables the person using it to pinpoint hearing with amazing clarity and accuracy. Distracting background noises are "tuned out," permitting comfortable concentration on what is said.

Conversation is received more clearly and easily because the words of the person speaking flow directly to the center of the hearing aid. Because it does not have the usual cords or ear buttons it does not resemble a hearing aid.

Leland Rosemond, president, explained that among its many exclusive benefits is the fact that the user enjoys new peace of mind by knowing his voice is just right.

—Adv.

Your best friends may never know!

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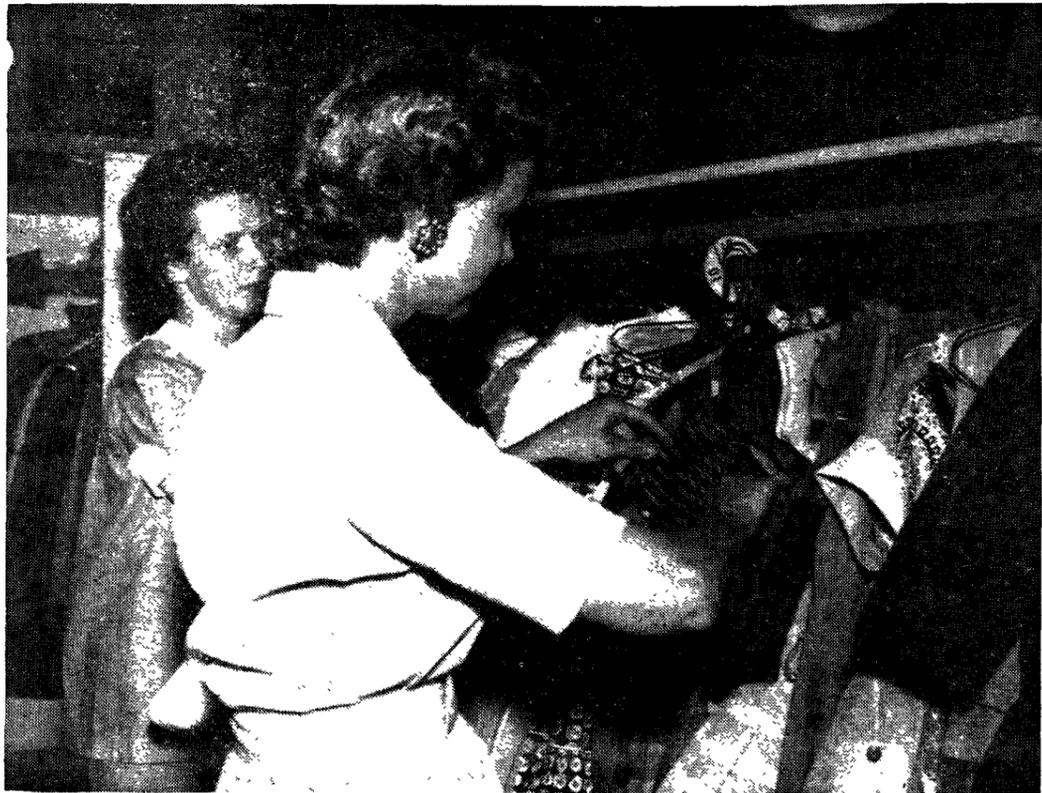
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REPRESENTATIVE VOLUNTEERS — (Left to right) Mrs. C. J. Maurer, Mrs. John A. Hooks, Mrs. R. H. Lee, Mrs. Henry L. Gotzian, Thrift Shop manager, and Mrs. William Mattis are representative of the volunteers who operate the Post Thrift Shop where military and civilian customers may sell or buy items they have "outgrown" or need. Indoor and outdoor furniture are especially popular items in this trading mart in Bldg. 3656.



THRIFT SHOP CUSTOMERS—Mrs. J. M. Thomas and Mrs. W. B. Fann of the Ordnance Guided Missile School check the clothing rack containing children's items to see whether or not any of the items on sale are suitable for playtime.

Thrift Shop

(Continued From Page 6)
lunch and free nursery service if needed.

household items," Mrs. Gotzian says. "The Thrift Shop is open on Wednesday nights from 7 to 9 p.m. Operating hours during the day are on Mondays, Wednesdays and Fridays between 10 a.m. and 2 p.m."

The volunteers are always in need of relief during the Summer. Vacations take many of them from their voluntary jobs temporarily.

The Thrift Shop is air conditioned. The customers wants run often to bicycles, chests of draws, bookcases, musical instruments, electrical appliances and other such items.

The Thrift Shop receives a percentage of the selling price. The owner names his price. After 30 days the item is marked down. If an owner decides not to sell, a nominal fee is charged when the items are redeemed.

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In Denver Gen. Barclay Opens Propellant Meeting

A joint annual meeting of a military and civilian solid propellant group was opened this week in Denver, Colo., with an address by Maj. Gen. John A. Barclay, Deputy Commanding General of the Army Ordnance Missile Command.

Gen. Barclay was introduced by Col. Albert H. Rock, formerly stationed at Redstone Arsenal, now Deputy Commanding Officer, Rocky Mountain Arsenal.

Purpose of the three-day meeting is the promotion of free and direct exchange of scientific and technical information among working-level personnel of organizations engaged in solid propellant and rocket motor research and development.

Sponsoring host is the Office of the Chief of Ordnance, for the Army. Other sponsors include the Air Force, the Navy, Advanced Research Projects Agency and the National Aeronautics and Space Administration.

Scheduled to preside at technical sessions were Dr. Gene V. Mock, Advanced Research Projects Agency; Dr. Marvin V. Hall, Army Rocket and Guided Missile Agency; Mr. Geoffrey Robillard, Jet Propulsion Laboratory; Dr. Henry Shuey, Rohm and Haas Company; Mr. Norman L. Reed, Ordnance Materials Research Office; Mr. Douglas D. Ordahl, Un-

ited Technology Corporation; Mr. Joseph Masi, Air Force Office of Scientific Research; and Mr. Harold A. Perry, Naval Ordnance Laboratory.

Other officials include: Program Chairman, Dr. David C. Sayles, Army Ordnance Missile Command; Coordinator, Martin B. Williams, Army Rocket and Guided Missile Agency; and Director of Security, Mr. Raymond C. Duncan, Army Rocket and Guided Missile Agency.

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SPORTS

Capt., Mrs. Albee Win Scotch 4-Some In Mixed Match

Mixed Scotch four-somes were played on the Special Services Golf Course Sunday, May 21, with 38 couples competing in handicap play.

Winners were Capt. and Mrs. Stephen Albee, Jr. Second was Mrs. J. M. Ivy, IV and Ray Vogel, third Lt. Col. and Mrs. W. W. Cobb; fourth Col. and Mrs. C. J. Payne.

The competition was sponsored by the Golf Group of the Redstone Arsenal Officers Wives Club.

MRS. IVY CAPTAINS WINNING TEAM IN 'DOGFIGHT' PLAY

"Dogfight" competition was played by 38 members of the Golf Group Sponsored by the Redstone Arsenal Officers Wives Club last Wednesday on the Special Services Course at the Arsenal.

Captain of the winning team was Mrs. J. M. Ivy. Playing with her were Mrs. H. H. Wishart, Mrs. H. L. Rutledge, Mrs. H. M. Murray, Mrs. B. S. Register, and Mrs. C. H. Fuller.

Second place team was captained by Mrs. R. O. Lehtonen with Mrs. V. J. Laver, Mrs. W. J. Nelson, Mrs. George L. Grace, Mrs. A. C. Johnson and Mrs. E. M. Riddlehoover on the team.

The Group meets every Wednesday morning at the Arsenal Golf Course for group competition.

Mrs. Levaas Wins Chrysler Cup in Woman's Tourney

Mrs. J. B. Levaas received the Chrysler Cup last weekend as winner of the three week tournament held at the Redstone Arsenal Golf course.

The Golf Group, sponsored by the Redstone Arsenal Officers Wives Club, met in the Ratskellar at the Squirrel Hill Officers Club to award the tournament trophies.

Highlight of the afternoon was a talk by Mrs. R. L. Spragins who outlined the growth of the Golf Group from the original ten members to its present group of approximately 50 in competition each Wednesday.

Mrs. H. H. Wishart, chairman of the Group, welcomed the members. Trophies were presented by the tournament chairman, Mrs. E. W. Powell to runner-up, Mrs. W. J. Fries; first flight runner-up, Mrs. Stephen Albee, Jr., second flight runner-up, Mrs. George Grace; consolation winner, Mrs. Adonis Creel; and the consolation runner-up, Mrs. J. N. Jean.

Mr. Pat Young of Chrysler made the presentation of the Chrysler Cup to Mrs. Levaas.

Four Golfers Here Attend Invitational At Anniston Club

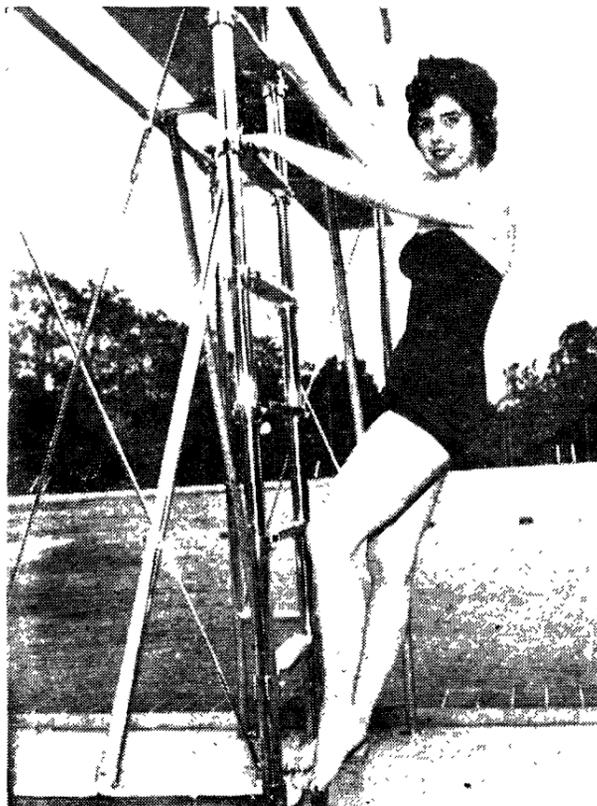
Four members of the Golf Group of the Redstone Arsenal Officers Club competed in an invitational match at the Anniston Country Club last week.

Mrs. Stephen Albee, Jr., was second in the second flight.

Mrs. E. W. Powell qualified for the third flight and came home with the third trophy.

Mrs. Glenn Crane qualified for the championship flight and Mrs. H. H. Wishart qualified in the second flight.

Wednesday morning at the Arsenal Golf Course for group competition.



READY FOR A DIP—Miss Rosanna Black of the ABMA Industrial Operations climbs to the three-meter board at the Special Services Swimming Pool which is officially to open on May 30. Miss Black, a secretary, is at home in Athens, Ala., and commutes to her job in ABMA. She is a former drum majorette and classes swimming as one of her most important forms of relaxation. She was in the water near home while the wind still had a chill.

Hardin Aces 17th At Athens Course

Leroy A. Hardin of the Direct Support Systems (Guided) Division, Industrial Operations, ARGMA, scored his first hole-in-one in some 33 years of golf when he ached the 17th hole at Athens Country Club Saturday, May 13.

Hardin used a 6 iron for his ace on the 180 yard over-the-lake hole.

Included in the forsome with Hardin were John Duhl, Direct Support Systems (Guided) Division, ARGMA, John Newby, OGM-S, and Cliff Harman, American Red Cross, RSA.

Could it be that the "Guided" Division personnel are now incorporating the missile guidance systems into their golf games?

Hardin's home address is 1008 Hereford Drive, Athens, Ala.

Moring Named Chief ARGMA Target Of.

P. L. Moring has been appointed Chief of the Target Missile Systems Division of Industrial Operations of the Army Rocket and Guided Missile Agency, it was announced this week.

A veteran of service with the Army in the Pacific during World War II, Moring advanced to his new position after serving as Chief of the Secondary Items Branch of the Procurement Division in Industrial Operations.

He has been with ARGMA since its inception in April 1950 and came to Redstone Arsenal in October of 1954.

Prior to coming here he served as supervisory purchasing agent at Augusta Arsenal where he started his Civil Service career in 1946.

Moring and his wife, the former Inez Whiting of Atlanta, Ga., reside at 3504 Memorial Parkway, N., Huntsville.

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Purchasing Agents Honor Redstone Men
Mr. J. B. "Butch" Elliott of Redstone Arsenal Purchasing and Contracting was elected president of the North Alabama Association of Purchasing Agents at their annual meeting in Decatur, May 15.
Alton H. Belcher of Rohn and Haas Company, former president was elevated to the post of tonal director.
Mr. James T. Goyer of Thiokol Chemical Corporation, was elected secretary and Mr. Leo C. Wright of Redstone Arsenal Purchasing and Contracting was elected as a director of the association.
Other officers elected were: first vice president, Basil Horsfield, Jr., Reynolds Metals Company, Sheffield. Second vice president, Farrell G. Tucker, The Chemstrand Corporation, Decatur. Treasurer, W. J. Johnson, Ford Motor Company, Sheffield, director at-large, John C. Fisher, The Chemstrand Corporation, and A. H. Carroll, Reynolds Metals Company and Charles E. Bradford, Wolverine Tube Company directors.
The North Alabama Association is affiliated with the National Association of Purchasing Agents whose aim is to educate and elevate the Purchasing Agents.

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FOUR TYPES OF ROLLING BALLS are shown here by Bob Chase, left, to T Sgt. Mitchell W. Kolowajtis of Richards-Gebaur Air Force Base, Grandview, Mo. Tape on balls indicates direction of rotation. At left is semi-roller. Thumb would be in about 1 o'clock position when looking down at it, compared with forward rotation of ball. Next is the full roller favored by Chase. Thumb position is at about 11 o'clock as ball is gripped at start of approach. Third from left is semi-spinned, with lateral motion imparted by wrist action, and at right is full spinner, delivered with definite wrist snap and great degree of spin in plane at right angles to direction of travel of the ball. Chase advises against spinners, especially for beginners, since they are harder to control and do not have striking power of roller and semi-roller.

Four Basic Ball Deliveries Discussed by Bob Chase

Fourth in a series of articles on bowling By Bob Chase (Bowling representative for the Jos. Schlitz Brewing Company, former Far East Armed Forces bowling champion and 1960 runner-up in the Bowling Proprietors Association of America match game championships).

So far in our discussions of proper bowling techniques, we have concerned ourselves with the basic considerations which are common to all shots in bowling, regardless of the type of ball delivered or the effect desired.

Now it is time to discuss the types of ball deliveries, or the types of rolling balls, as we shall call them.

There are four basic variations in rolling balls. They are the full roller, the semi-roller, the spinner and the semi-spinner. The terms are descriptive of the action of the ball in each case.

The manner of delivery, the rollers and the spinners fall into two categories. The rollers are delivered with a full arm motion, the wrist being firmly locked. All motion is imparted with the arm as a unit. The spinners are given their lateral spinning motion with a varying degree of wrist twist.

Regardless of what you may have thought, all of us on the Schlitz Wholesalers team, and almost all professional bowlers, use the roller or semi-roller. The spinning balls are used infrequently. The spinning balls are much more difficult to deliver and control. In addition, spinning balls are not as strong as the rollers and are much more easily deflected from the desired course once contact with the pins has been made.

The spinner and semi-spinner are delivered with the same motions. The difference is in the degree of wrist snap. The spinner is delivered with maximum snap, the semi-spinner with a lesser amount. Since bowling is a game of repetition, the ability to deliver the ball in the same fashion every time is as important here as is a grooved swing in golf. For this reason the spinners are seldom used by my Schlitz teammates and I. The rolling balls are much easier to deliver and to duplicate.

I use the full roller to achieve maximum striking force. Some of the Schlitz Wholesaler bowlers prefer the semi-roller.

In delivering the full roller, the ball at the start of the approach is held with the hand supporting the ball underneath and, looking

down at the ball, with the thumb at a position corresponding to about 11 o'clock on the face of a clock. The arm and hand continue coming straight up after the ball is released, imparting lift to the ball. The hand must come up as though you were lifting it over your head.

More revolutions can be given the ball by adding turn to the lift. This is applied by turning the hand and arm as a unit in a counter-clockwise direction as the follow through takes place. Do not pull the arm across the body. This will cause you to pull the ball to the left.

The semi-roller is delivered in the same basic fashion except that the hand is turned more under the ball at the start. The thumb would occupy a position corresponding to between 12 and 1 o'clock as you look down at it. At the point of delivery of the ball, the hand is rotated quickly to the top of the ball in a counter-clockwise direction, with the thumb under the ball at the point of release. Let me emphasize that there is no wrist action here, it is a coordinated, smooth motion of the entire arm, with the wrist locked. Over-turn-

ing is caused by wrist action and by not following through.

Although I favor the full roller, others on the Schlitz team favor the semi-roller. I feel they are equally effective. The full roller's advantage is that it can be started rolling sooner. If you are now using a semi-roller, stay with it and perfect it along with the rest of your game.



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40 Will Graduate From Value Engineer Seminar on May 26

Thirty-nine Army personnel and one contractor representative will complete a 40-hour course of instruction in the techniques and applications of Value Engineering at Redstone Arsenal, May 26.

This is the first formal course to be held by the Army Ordnance Missile Command on Value Analysis-Engineering.

The students represent AOMC, the Army Ballistic Missile Agency, the Army Rocket and Guided Missile Agency and the Thiokol Chemical Corporation.

The course began May 15, with the students meeting four hours each day for ten days.

During the course, the students were assigned projects to complete prior to May 26. Items which the Army felt might be produced at less cost if re-evaluated were given to the students for study. The recommendations of the students will be studied to determine if they are applicable.

Arthur E. Harvey, chief of ABMA's Value Analysis Office, said, "the projects actually accomplished two purposes. First, the projects selected represented areas in which we need to conduct value analysis studies. Second, the projects gave our students an opportunity to work with the type of problems with which they will be confronted in their jobs."

"We expect that the solutions offered by these students will result in some money-saving refinement," he said.

The students were operations

managers, technicians and engineers. Classes were conducted in Rocket Auditorium and at the Ordnance Guided Missile School, also located on the Arsenal.

Instructors for the classes were: H. I. Knight, Chance-Vought Aircraft Inc.; C. W. Bytheway, Sperry Utah Company; B. W. Eades, Dresser Industries; C. W. Doyle, Convair; Roland Rogers, Martin-Orlando; R. J. Spenard, Watervliet Arsenal; R. J. Gillespie, Sylvania Electronics Systems Division; J. G. Gray, Sperry Gyroscope; A. R. Tocco, Hughes Aircraft Company.

Also conducting classes were Maj. Paul Pencola of ABMA's Industrial Operations; J. L. Schertz and Mark Yoakum of ABMA's Value Analysis Office; Horace Lowers, Deputy Director of ABMA's Industrial Operations and Walter Wiesman, Communications Advisor at AOMC.

Project consultants were W. J. Williams, C. G. Estler and B. T. Honeycutt of ABMA.

Formal ceremonies marking the completion of the course will be held in Rocket Auditorium at 9 a.m., May 26. Col. H. N. Brownson, Deputy Commander of ABMA, will present certificates to the students.

An insurance claim agent was teaching his wife to drive when the brakes failed on a steep grade.

"I can't stop," she screamed.

"What should I do?"

"Brace yourself," advised her husband, "and try to hit something cheap."

* * *

He: "I hear you neck."

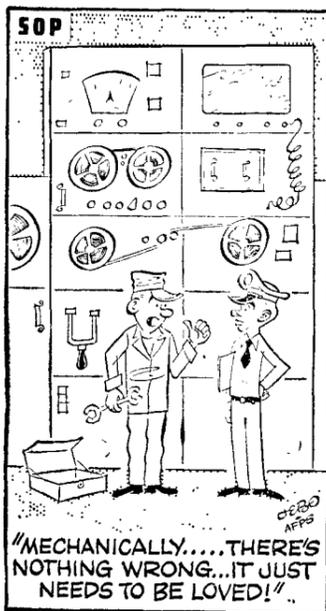
She: "Pardon me. 'I'll be more quiet next time."

SECOND SERGEANT CLASS GRADUATES AT SPERRY UTAH

The second class of Army Ordnance personnel and the first class of Army Artillery personnel have graduated from the Sperry Utah New Equipment Training School.

Outstanding student in the Ordnance Class was SP5 John Edwards from the Ordnance Guided Missile School. CWO Roy Weatherers from the Artillery and Missile School, Ft. Sill, Okla., was selected as the outstanding student in the Artillery class.

Both men received awards in ceremonies conducted by Maj. R. W. Brunson, Senior ABMA Representative at SUCO. The Training Office at ABMA is responsible for new equipment training in the Sergeant system.



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Letter for Outstanding Performance Is Awarded

SP5 Dominic P. Klekar, a member of the Garrison Headquarters Detachment, received a letter of appreciation for outstanding performance for his work at Redstone Arsenal from Col. Thomas W. Cooke, Commander.

SP5 Klekar was assigned as a member of the staff of the custodian for the Central Post Fund.

He came to the Arsenal in August, 1949 from Ft. Richardson, Alaska, where he was in an administrative job at the NCO Academy.

He and his family will now go to France where he will be assigned at Headquarters in Verdun.

SP5 and Mrs. Klekar have a three-year-old son, William.

SP5 Klekar's family of six brothers and four sisters live in or near East Bernard, Tex. where he was born. He entered the Army

Martin Joins ABMA Engineering Division

James R. Martin has joined the Missile Support Equipment staff of the Missile Engineering Division at the Army Ballistic Missile Agency.

Formerly with Allis Chalmers Martin commutes from Gadsden, Ala., and is considering moving his family to Huntsville soon.

He is a 1949 graduate from the University of Alabama with a degree in industrial engineering.

Mr. Martin has served three years in the Navy, is a golfer and likes bridge.

While at the University he was active in the Phi Kappa Sigma fraternity and president of the senior class.

He is also active in Boy Scout work.

seven years ago at Ft. Bliss, Tex., and has studied the advanced course in Supply Procedure at Ft. Lee, Va.



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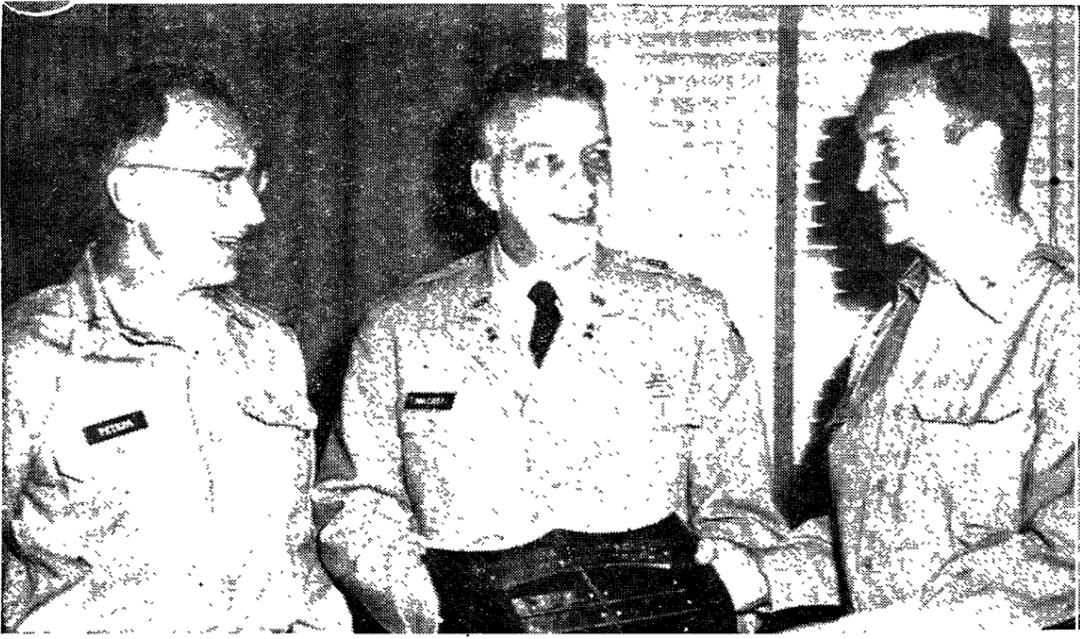
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MILITARY SAFETY TROPHY WON: The Redstone Military Safety Trophy awarded to military organizations, Ordnance Guided Missile School and Troop Command, Redstone Arsenal, for maintaining the lowest accident cost per capita went to OGMS for the first quarter of calendar year 1961. Also, the school received a Certificate of Merit For Safety in recognition of a no-disabling injury record involving Department of the Army and contractor personnel during the period 1 January 57 - 1 May 61. At the left is Brig. Gen. Robert E. Peters, Commanding General, Ordnance Training Command, looking on as Lt. Col. Donald Maliskey, Acting Commandant, OGMS, accepts the trophy from Col. Thomas W. Cooke, Commander, Redstone Arsenal.



TOP MISSILEMAN—Sfc. James L. Murdock (right) accepts congratulations from guest speaker, Col. S. A. Hall, assistant chief of staff for support operations at the Army Ordnance Missile Command during graduation ceremonies held recently at the U. S. Army Ordnance Guided Missile School. Murdock was top man in the Nike Acquisition Radar and Computer Repair Course at the Missile School. Assigned as an electronics maintenance sergeant, Murdock entered the Army in December of 1948. He served a tour of duty at Ft. Bliss, Texas, before being assigned to the Missile School.

AUSA Plans Annual Meet

The annual meeting of the Tennessee Valley Chapter of the Association of the U. S. Army will be held at the Huntsville Community Center, June 9, according to A. A. Demetriou, chapter president.

Lt. Gen. Paul D. Adams, Commanding General of the Third U. S. Army, will be the guest speaker.

Officers for the coming year will be nominated and elected at the meeting.

Demetriou also announced that the chapter would make a \$500 grant to the University of Alabama Center for "furthering of educational opportunities in the

Development Group Organized to Aid Federal Employees

A council to assist in the coordination of training and development activities for federal civilian employees in the Huntsville area was organized at a meeting this week at the Redstone Arsenal Officers Club.

Officers elected were John S. Hinkle, chairman; John S. Harrison, vice chairman and Russell H. Cooper, secretary. Hinkle, who organized the council under the auspices of the Fifth U. S. Civil Service Regional Office in Atlanta, is the civilian personnel ca-

Huntsville area."

Details of the meeting schedule will be announced later.

Navy Officers Slate Classes Next Fall

Two Naval Reserve Officer School Classes will be conducted in Huntsville this next school year, starting in September.

One class in Guided Missiles is already filled and the response has been so enthusiastic that it was decided to offer a second class, either in Guided Missiles

reer management and training officer at the Army Ordnance Missile Command.

Harrison is chief of the local Federal Aviation Agency station and Tower. Cooper is an employe development officer with the Army Ballistic Missile Agency.

Membership in the council is open to any Federal official or officer with a staff, line, or operating responsibility for training or employe development at a Federal agency, department office or activity.

In addition to the officers elected, the following were named as charter members of the organization:

William M. Boulton, Social Security Administration; James F. Dowdy, Marshall Space Flight Center; William W. Clark, and George W. Wilde, Army Rocket and Guided Missile Agency; John E. Gunn Jr., Post Office Dept., and W. H. Merchant of Redstone Arsenal.

or Atomic Warfare Defense.

By attending the NROS classes, reserve officers can fulfill all requirements for a satisfactory year of service.

Officers already participating in a Naval Reserve Unit are eligible to enroll.

As applications will be forwarded to BuPers immediately, they will be received tonight at the Naval Reserve Training Center.

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Operation Searchlight Awards Granted Three

Col. Thomas W. Cooke, Commander of Redstone Arsenal, presented Certificates of Achievement to Messrs. Billy J. Hicks, J. L. Miller, and Harold W. Isom for submitting outstanding suggestions during the Operation Searchlight Campaign.

The suggestion submitted by Mr. J. L. Miller, Administrative Management Specialist, Purchasing and Contracting Division, was considered the most significant suggestion and was forwarded to higher headquarters for consideration in an Army-wide Searchlight contest. Miller's suggestion concerns the consolidation of delivery orders and will save the Government \$9,940 a year. This Searchlight idea resulted in a \$275 cash award.

The suggestion with the second highest savings was submitted by Mr. Billy J. Hicks, Electronic Fire Control Systems Installer and Repairer, Field Maintenance Division. Hicks' idea relates to a variable voltage test panel. A \$9,860 savings has been realized and a \$275 cash award has been made.

The suggestion with the third highest savings was submitted by Mr. Harold W. Isom, Electronic Fire Control Systems Installer and Repairer Lead Foreman, Field Maintenance Division. Isom recommended the fabrication of a

Births at Post Hospital

Mindy Sur Diamant, 6 lbs., 1 oz., May 4, daughter of Pvt-2 and Mrs. Alvin J. Diamant.

Bernard - Alain - Lucien - Claude - Joseph - Douxfils, 7 lbs., 3½ ozs., May 4, son of 1st Lt. and Mrs. Emile Douxfils.

Sharon Rose Oliveto, 6 lbs., 12¾ ozs., May 5, daughter of 1st Lt. and Mrs. Philip J. Oliveto.

Deborah Dianne Newman, 4 lbs. 15 ozs., May 5, daughter of SP4 and Mrs. Hillie E. Newman.

Richard David Horton Jr., 8 lbs., 5 ozs., May 6, son of Pfc and Mrs. Richard D. Horton Sr.

James Michael Bradley, 8 lbs., 4 ozs., May 9, son of 1st Lt. and Mrs. Robert E. Bradley.

Kenneth Jeffrey Jeantet, 7 lbs., 3½ ozs., May 10, son of SP6 and Mrs. Joe F. Jeantet.

Joyce Ann Rioux, 6 lbs., 5½ ozs., May 11, daughter of SPC and Mrs. Charles J. Rioux.

Lauri Maureen Howard, 7 lbs., 9 ozs., May 11, daughter of Sgt. and Mrs. Horace H. Howard.

Janet Marie Brown, 6 lbs., 12 ozs., May 11, daughter of SP4 and Mrs. Jesse A. Brown.

Sandra Arlene Foster, 7 lbs., 10¼ ozs., May 12, daughter of SP5 and Mrs. Richard W. Foster.

Dwayn LaShar Baxter, 7 lbs., 6 ozs., May 13, son of CWO-2 and Mrs. Oliver H. Baxter.

Milton Leonard Ferris Jr., 6 lbs., 4½ ozs., May 15, son of SFC and Mrs. Milton L. Ferris.

Stephen Roy Curtis, 7 lbs., 10½ ozs., May 17, son of SP4 and Mrs. Leon C. Curtis Jr.

cutting die to make rubber insulators for the Jones-Type plugs. This improvement has saved \$6,437. Mr. Isom received a \$190 award.



HOW TO LEAD A PACK—A Cub Scout mother demonstrated an experienced knack for banding together a pack of cubs during the Armed Forces Day Open House ceremonies at Redstone Arsenal. She didn't lose a single scout, despite rubbing elbows with some 40,000 other guests. Reason: She lashed them together with a rope and blazed a trail through the crowd.



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THIOLKOL FILM WINS NATIONAL AWARD—These are some of the people having to do with the writing, producing, editing, and directing of our award winning movie "Propellant Plus Heat." Reading from left to right: Mr. John H. Goodloe, Director, Operations, Mr. Roland L. Cantrell, Mr. Tommy Gooch, Mr. Eugene Burroughs, Mrs. Rosemary Brubaker, Mr. Buel Case, Mr. J. W. Wiggins, General Manager, Mr. Matthew Weber, Mr. Joe Davis, Mr. W. D. Fiser, Mr. J. F. Harbarger, and Dr. W. F. Arendale, Assistant to the General Manager, Technical Director. Mr. Charles Allen and Mr. A. G. LaPier are not shown in the picture, but deserve recognition. The National Safety Council Safety Film Committee, which represents 23 National organizations, annually recognizes outstanding new films on occupational, traffic and transportation, general and home safety by conferring Bronze Plaques and Awards of Merit.

9th Annual Secretarial Convention Held Here

Typewriters were silent this weekend while their "engineers" gathered at the Russel Erskine Hotel to carry out the business and pleasure of the 9th Annual Alabama Division Convention of the National Secretaries Association (Int.). "Walk Worthy of Your Profession" was the theme for this year.

Huntsville's Satellite Chapter was hostess to NSA representatives from the Anniston, Birmingham, Decatur, Gadsden, Mobile, Montgomery and Tuscaloosa Chapters.

Following registration Friday, Milton K. Cummings was host to a "Trip to the Moon" Open House at the hotel.

Saturday morning was devoted to a business session and election of Division Officers for 1961-62. Miss Ethel Poole, Gadsden Chapter, was elected President; Mrs. Ted Bailey, Birmingham Chapter, Vice-Pres.; Mrs. J. Haines, Tuscaloosa Chapter, Secretary, and Miss Mary Lou Swable, Mobile Chapter, Treasurer.

After the Satellite Luncheon, the attendees departed, by chartered busses, for a tour of Redstone Arsenal. The "mat" was out—and they were given a royal welcome at the Armed Forces Day observance.

Bart J. Slattery, Public Information Office, Marshall Space Flight Center was guest speaker at the "World of Tomorrow" banquet Saturday evening.

The dinner tables were appropriately decorated with rocket ships and space men. Other decorations were a floor model Redstone Rocket, courtesy of Community Relations Office, Redstone Arsenal; table model Nike-Zeus Anti-Missile Missile and photographs, courtesy of Plans Branch, AMM Division of ARGMA—and, arrangements of Army boosters, courtesy of Hapco, Inc., Huntsville.

Judges for the "Miss Alabama Division" contest, held at the Banquet, were: Mrs. D. Wambeke, Executive Secretary to Brig. Gen. J. G. Zierdt; A. D. Elliott, President, Huntsville Industrial Associates, Inc., and J. E. Fisher, Deputy Chief, Training Branch, Civilian Personnel, Redstone Arsenal.

The winner of this contest, Mrs. Irene Wilbanks, Gadsden Chapter, will compete for the "Secretary of The Year" title at the International Convention of NSA in Los Angeles, California.

At the Breakfast meeting Sunday morning, Chapter reports were read, installation ceremonies were held for the Division Officers and plans of Division activities for the coming year were discussed.

The 10th Annual Division meeting will be held in Birmingham—at the invitation of the Birmingham Chapter.

Chattanooga Sees OGMS Missiles

More than 100,000 residents of the Chattanooga area witnessed Armed Forces Week displays sent to the Tennessee city by the Army Ordnance Guided Missile School last Friday and Saturday.

Missile students from China, Turkey, France, Norway, and The Netherlands were special guests for the two-day period of the Chattanooga posts of the American Legion and participated in a round of formal and informal social events, culminating in a colorful Military Charity Ball in the Chattanooga National Guard Armory where some 2,000 persons honored the Missile School visitors during a grand march.

Lt. Col. Ko-chum Ho of the

Chinese Air Force; Lt. Andre Tofte of the Norwegian Air Force; Lt. Andre Laboirie of the French Air Force; Lt. Asim Ari of the Turkish Air Force and Lt. Jan Pool of the Netherlands Air Force reviewed the mammoth parade through downtown Chattanooga on Friday afternoon.

Nike-Hercules and Hawk displays were paraded by the 32nd Ordnance Detachment of the OGMS Unit Training Command, with Lt. Floyd Johnson in charge.

The foreign officers were escorted to Chattanooga by Lt. Hilliard Good of the Unit Training Command.

The foreign visitors participated in six television and radio programs during their stay in Tennessee.

The OGMS television branch sent its "global classroom" — a mobile video tape van — to Chattanooga for display to educators.

An hour-long video tape was made during the huge parade and was replayed on Saturday evening over Station WRGP-TV. It was the first such video tape production ever made in Chattanooga, and station managers estimated that the rerun of the tape was viewed by Chattanooga's largest television audience to date.

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Art 7a, b, 8a, b, Design and Orientation (Monday only 6:00-10:00)

Biology 2, General Biology (Animal) (Lab. Friday 6:00-10:00)

1Chemistry 21, Qualitative Analysis

(Lab. hrs. & days to be announced)

2Drawing 12, Descriptive Geometry

Economics 11, Principles of Econ. Part I

English 03, Fundamentals of English

3English 1, English Composition

English 3, Advanced English Composition

English 5, English Literature

4English 41, English Composition for Engineers

History 2, History of Western Civilization

Mathematics 02, Plane Geometry

Mathematics 15, Trigonometry

Mathematics 49a, Calculus & Analytical Geometry

Mathematics 49b, Calculus & Analytical Geometry

Mathematics 73, Theory of Equations

MH 56, Dynamics

MH 80, Fluid Mechanics

Music 5, Fundamentals of Music

Physics 5c, Technical Physics (Mechanics)

(Lab. Thursday 5:00-8:00)

Psychology 7, Psychology of Adjustment

MONDAY-WEDNESDAY 7:55-10:00

Accounting 1, Principles of Accounting

(Lab Friday 6:00-8:00)

Accounting 53, Intermediate Accounting

Biology 1, General Biology (Plant)

(Lab. Thurs. 6:00-10:00)

Chemistry 1, Gen Chemistry

(Lab. Fri. 5:30-10:00)

English 2, English Composition

English 66, Shakespeare

History 73, Foreign Relations of the U. S. to 1914

Mathematics 01, High School Algebra

3Mathematics 9, College Algebra

3Mathematics 11, Introductory College Mathematics

Mathematics 25, Analytic Geometry & Calculus

Mathematics 98, Introduction to the Theory of Differential Equations

Physics 6c, Technical Physics (Heat, Light, Sound) (Lab. Tues. 5:00-8:00)

Physics 73, Introduction to Nuclear Physics

Political Science 1, Prin. of American Gov't.

Sociology 8, Urban Sociology

TUESDAY-THURSDAY 5:50-7:55

Accounting 104, Introduction to Auditing

Digital Computer Techniques

2Drawing 5, Fundamentals of Mechanical Drawing

3English 1, English Composition

English 2, English Composition

English 6, English Literature

French 3, Intermediate French

German 1, Elementary German

History 1, History of Western Civilization

Marketing 6, Business Correspondence

3Mathematics 9, College Algebra

Mathematics 20, Elem. Mathematical Statistics

Mathematics 51, Calculus

Physics 7c, Technical Physics (Elec. & Magnetism) (Lab. Wed. 5:00-8:00)

Physics 85, Intermediate Electricity & Magnetism

Sociology 9, Population and Society

TUESDAY-THURSDAY 7:55-10:00

Classics 22, Greek and Roman Mythology

Economics 12, Principles of Econ., Part II

EE 52, Fundamentals of Elec. Engineering II (Problem session Friday 6:00-9:00)

3English 1, English Composition

English 9, American Literature

5English 45, English Classics

German 4, Intermediate German

History 22, The United States since 1865

Mathematics 15, Trigonometry

Mathematics 25, Analytic Geometry & Calculus

Mathematics 49a, Calculus & Analytic Geometry

Mathematics 49b, Calculus & Analytic Geometry

Mathematics 91, Introduction to Real Analysis

MH 55, Statics

Psychology 1, Introduction to Psychology

GRADUATE OFFERINGS

MONDAY-WEDNESDAY 4:30-6:30

EE 178, Advanced Communications I

EE 204, Industrial Electronics

PH 150, Atomic and Molecular Physics

TUESDAY-THURSDAY 4:30-6:30

EE 201, Transients in Linear Systems

MA 123, Series and Special Functions

MA 254, Real Analysis

ME 203, Advanced Heat Transfer

MH 393, Selected Topics in Mechanics (Theory of Viscoelasticity)

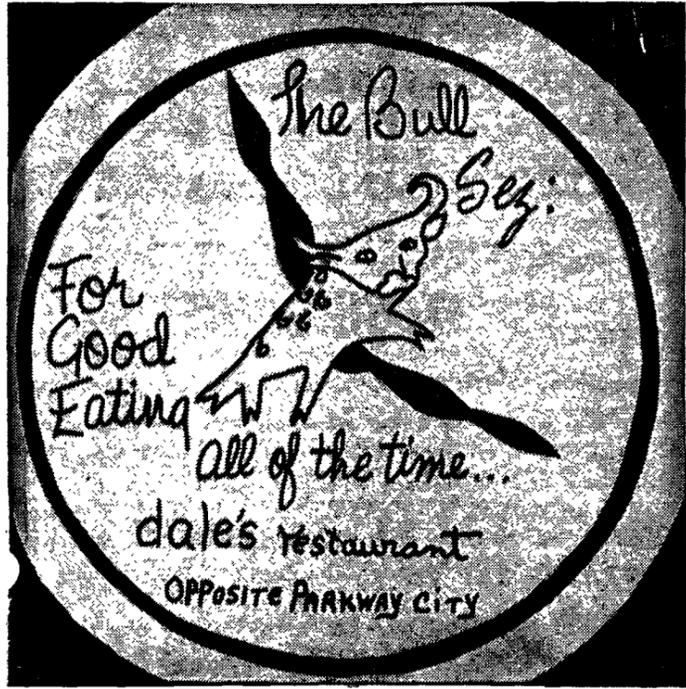
1Registration for this course will be conducted at the Center on May 20 from 9:00-12:00 a.m. If enrollment is not sufficient at that date class will be postponed until the fall.

2Students may select the additional four hours of lab from one of the following: Monday-Wednesday 8:00-10:00 or Friday 6:00-10:00.

3All students beginning college English and Mathematics must take a placement test.

4English 41 is open to all students who make a sufficiently high score on the placement test and to engineering students who have passed 41.

5English 45 is for Engineering and Commerce students.



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CAPE CANAVERAL AREA — 1 mile south P.A.F.B., 3 bedroom, 2 bath house. Fla. room, 2 car garage, built-ins, central heat. Will sell or trade 4½% G. I. equity. Phone 534-7836. 1tp

FOR SALE — Blonde bookcase headboard, double bed size with innerspring mattress and box springs. In very good condition. \$55.00. Phone 534-3197. 1tp

HOUSE FOR SALE BY OWNER — 3 bedroom brick, 1½ bath, carport, city sewerage, 3 minutes from arsenal, nice lawn & patio. Purchase equity and assume 4½% GI loan. Payments \$88.63 includes insurance and property tax. Call 539-1900 anytime. 1tc

WHY PAY RENT? Live in a modern duplex home while your neighbor pays all expenses. Call **NOW . . . 534-2652.** tfe

FOR SALE — One pair white ladies shoe skates, size 6, Cleveland Silver Medalist Citation, with case and wincches. Worn approximately 10 times. 876-3459. Marilyn Bentley. 1tp

FOR SALE — 1 large waterfront lot on Pine Island Point. Phone 534-5697 or 534-9311. tfe

WANT TO RENT — Three (3) or four (4) bedroom house in Huntsville High district. Will take good care of your house. Phone 876-0963 or 539-6426. 1tp

BOAT FOR SALE — 14' aluminum runabout, 30 h.p. motor, trailer, electric start, top condition, ski equipment, \$500.00 Phone 877-5346. 1tc

PICK UP PAYMENTS on a 1959 Mercury 4-door, tinted glass, multi-drive transmission, big engine, 14,000 miles, new Good-year W.W. tires. Like new, one owner. Phone 536-4865. 5-31c

FURNISHED 2-BR APARTMENT for rent. \$100.00 per mo. June to 1 September. Air conditioned, 121A Longwood Court, 534-4467. 1tp

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

WATER WELL DRILLED, pump Sales & Service can be financed at bank rates with up to 36 months to pay. Crunk Drilling Co. **JE** 6-2027. 5-31p

ABS SECRETARIAL SERVICE— 408 Clinton Ave., W., Huntsville, Ala. Telephone Answering, Mimeographing and Notary Public. tfe

FOR RENT — You will fall in love with this new concept in deluxe apartment living—stove, refrigerator, air conditioner, wall to wall carpet, drapes, pre-wired for phone, pre-wired for TV cable outlet. Drive by and see this beautiful 6-unit apartment located at N.W. corner Jordan Lane and University Dr. (72 W.) or call 534-2652. 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

GUNTERVILLE LAKE — New complete, water front cabin Pine Island Area. Wooded Pier \$12,500. Will finance Phone Gunterville 2-3914 or write Box 224 ED NEELY, BROKER. 5-31c

CALL HUNTSVILLE WINDOW CLEANING SERVICE for free estimates on commercial and residential cleaning. We scrape paint, wash windows, wash walls, and woodwork, clean & wax floors. Phone 534-3795. tfe

4½% GI EQUITY SALE — 3-bedroom brick home. Located at 3804 Price Road, balance \$10,700, monthly payments of \$78.20 includes taxes and insurance. Phone **JE** 6-6301 'til 5 p.m. — after 5 phone **JE** 9-1666. tfe

FOR SALE — Beautiful new 8-room split level home on large lot in Albertville. Two levels hand cut brick, one level wood with over 2,000 sq. ft. floor space. Built-in dishwasher, two full ceramic tile baths, wood panelled garage, separate storage room and many more extras. Pay equity and take up FHA payments. No closing cost to pay. Truly a modern luxury home. Call Albertville 595. 5-25p

FOR SALE — Victor House Trailer, 46'x8', 2 bedroom, air condition. full price. \$1995.00. Call **JE** 9-0446 or 534-2761. tfe

FOR SALE — Beautiful new 8-room split level home on large lot in Albertville. Two levels hand cut brick, one level wood with over 2,000 sq. ft. floor space. Built-in dishwasher, two full ceramic tile baths, wood panelled garage, separate storage room and many more extras. Pay equity and take up FHA payments. No closing cost to pay. Truly a modern luxury home. Call Albertville 595. 5-25p

FOR SALE — Victor House Trailer, 46'x8', 2 bedroom, air condition. full price. \$1995.00. Call **JE** 9-0446 or 534-2761. tfe

HOME for SALE
 3332 WILDWOOD DRIVE
 MONTE SANO
 KINGSBERRY'S "Rosalind" Model. Modern design, 3 bedroom brick home, 2 baths, central air conditioning, all built-in's. Double carport. Price \$21,000 with \$2700 down FHA.
 DONALD JONES AGENCY
 Builder-Dealer for
KINGSBERRY HOMES
 900 Bob Wallace - **JE** 9-4471

STEREO SYSTEM — Grado Stereo Custom cartridge, Grado arm, Rek-O-Kut L-34 turntable, Dynakit PAS-2 Stereo preamplifier, Dynakit Stereo 70 amplifier, and 2 AR2a speakers. For further information call Francis Thiessen, ext. 876-0445 from 7 a.m. to 3:30 p.m. Other hours **JE** 4-4698. 6-7p

BARGAIN SHOE CENTER at Standard Service Station, Joppa, Ala., Highway 69, 4 miles west of Arab. First quality famous brands, low price, open Sundays. Mrs. Eurilla Woods Owner. 6-7p

LOTS FOR SALE — In Cherokee Pines, located on Gunterville Lake. Ideal for either a permanent home or weekend cabin. Contact Bob Rice, Gunterville Phone **JU** 2-3991. 5-31p

Underwater Recovery Service
 Inspection — Salvage
SCUBA SALES
HULL REPAIRS
 Hugh Vandergrift
 H'ville **JE** 9-2802 or **JE** 6-6935

HOUSE TRAILER—10'x50' Marlette, 2 BR, like new. \$3995.00 Financing available. Low down payment and low monthly payment. Phone 539-0446. tfe

BACHELORS — BACHELOR-ETTES — **YOUNG MARRIEDS!** — Why pay and lose your rent? Invest in my Westwood Mobile home 36'x8', save dealer cost. Like putting money in the bank! Call 536-9810. 5-24p

FOR SALE — 109 Crestline St., 3 BR brick home, air conditioned, electric heat, ceramic bath with tub enclosure, built-in hood over stove, fenced back yard, one block from scho Street to be paved soon. All assessments paid. \$350.00 includes down payment and closing cost. Total price \$11,200. Phone **SPruce** 3-8322. 5-25p

AUTO TIRES TRUCK
 Up To 65% Off Mfgs. List
NORTH ALA. PRODUCTS
 2203 Meridian St.
 4 to 8 p.m. — **JE** 4-0439

HOUSE FOR SALE — Garth Rd. in Jones Valley. 3 BR, 2 bath with LR, DR, Kitchen, laundry, central air conditioning. 1850 sq. ft. on acre lot. FHA appraisal \$22,500, requires \$2300 cash plus closing cost or w. reduce price \$750 on equity sale assuming \$16,700 loan. Available June 1st. Phone 876-2627. tfe

(Continued On Next Page)

You Can Own A Beautiful Lot In
Elk River Estates
 For As Low As \$395
 \$10 DOWN — \$10 A MONTH
 Register for **FREE** Lot to be Given July 4



You do not have to be present to win — Just register free on the premisses any Saturday or Sunday.

★ **LOCATION** ★

We suggest as your Best Route from Athens, Ala.

From Athens Travel The Buck Island Road, Alabama No. 99, to Elk River Mills Road, turn left, cross Elk River Mills Bridge and turn left. Continue until you enter development. Follow Signs!

ALL 100% VA NEW BRICK HOMES

POSSESSION WITHIN ONE WEEK!
 Minimum Down FHA
 3604 ADAIR STREET

Country-like surroundings can be yours in this new three bedroom brick home with separate living and dining room, 1½ ceramic baths, carport and 12 inch cream colored brick. Price \$16,450. Phone to see now.

SHARRON STREET
 Across from Country Club. Large three bedroom brick home with 30 ft. family room, kitchen combination, three bedrooms, 1½ ceramic baths, built in range and oven, large living room, carport, and storage room. Price \$17,365. Compare with any.

604 AUSTIN DRIVE, SW
 Very attractive brick in this three bedroom home. Has such features as select hardwood flooring, central forced air heating, ceramic bath, built in range and oven, carport, separate living and dining room, 8x10 ft. storage room, and adjoining playground near schools and Arsenal. Price \$15,025.

3168 PATRICK STREET
 Have a look at this beautiful new brick home situated on 100x150 ft. lot. Has L-shaped living and dining room, three bedrooms, large garage, select hardwood flooring, and forced air heat. Price \$14,000.

HOME PHONES: Joe Mathis - 534-8987 — Noble Fowler - 536-1867 — Clarence Thrasher - 534-2326

HUNTER & MITCHELL REALTORS
 Phone 539-1759

BUY TODAY ENJOY TOMORROW
 3 & 4 BEDROOM BRICKS
100% GI LOANS
 Small Down Payment on FHA — "All Homes on City Sewerage"
 PHONE DAYS **JE** 6-1554 — NIGHTS **JE** 6-1659
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LAKWOOD REALTY CO.
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BEST HOME BUYS!
 BEST TERMS IMAGINABLE
 — For Example: —
NO CLOSING COST

ONE BRICK HOUSE: Three bedrooms, living room, dining room, 1 ceramic bath, kitchen, den with fireplace and Anderson patio wall for indoor, outdoor living, and carport. PRICE: \$11,500.00 — \$1,000.00 down.

THREE HOUSES financed with conventional loan. No closing cost.

ONE BRICK HOUSE: Three bedroom, living room, dining room, 1 bath & carport. PRICE \$9,000.00 — \$500.00 down.

WE ALSO HAVE: One lovely remodeled large home—
 One Commercial lot.
 A number of beautiful lots.

We are located 5½ miles from Fayetteville, Tenn., and 24 miles from Huntsville on Ardmore Highway.

— CONTACT —
Billy Joe Tunstill
 —AT—
V. L. Henderson
 BUILDERS SUPPLY
 FAYETTEVILLE, TENN. PHONE HE 3-3430

Wantads

(Continued From Page 14)

WANTED — By leading FM station in Huntsville. First phone engineer. No maintenance, just ticket plus board work. Call 534-2433. 5-31-c

FOR SALE IN ALBERTVILLE— Completely new, 3 BR frame house, hardwood floors, electric wall heaters, insulated, large closets, on extra large lot. Total price only \$7,000. Pay only \$500.00 and move in. Payments like rent. **FRED TAYLOR REAL ESTATE.** Phone 133, Albertville, Ala. 5-24c

Auto Insurance

● **SOLD ON TERMS** ●
We sell all military.
SR 22 FILE
POST INSURANCE \$10 YR.
527 MADISON STREET
Open 'til 8:00 p.m.
JE 4-0146

FURNITURE REPAIRING AND REFINISHING — We specialize in antique and custom made to order furniture. Call or see George Weller, at Ray's Furniture Exchange, 4850 Governors Drive. Phone JE 9-4272. tfc

FURNITURE & APPLIANCE BARGAINS

Drive out and see our display of quality home furnishings at wholesale prices. Our low overhead permits us to give you extra discount savings. Easy budget terms available. Furniture Outlet Store, Meridianville, Ala., phone JE 6-6857. Go Out-a-Way—Less-to-Pay. tfc

LAWN MOWERS — Electric appliance repair. Nothing too small to fix. H'ville Elec. App. Repair Center. Pick up and delivery. Gallatin and Williams Sts., 534-6222, 2 blocks south of telephone company. 5-31c

CRESTWOOD SUBDIVISION—3 bedroom brick, 1 and ½ tile baths, large living room and dining area, close to schools, arsenal and shopping facilities. Must sell at sacrifice. Payments \$97.00, 4¼% GI loan, \$1200 equity. Phone 556-5930. 1tc

EQUITY SACRIFICE FOR \$1250 —3 bedroom brick, hardwood floors, tile bath, Youngstown kitchen, located Redstone subdivision, few minutes from arsenal, shopping center, schools, etc., 209x108' corner lot, city utilities in and paid, payments \$82.10 includes taxes and insurance, 3801 Gesman Place, Phone 536-5314. 1tc

**Best Home Buys
Best Location
Best Terms In Town
For Example:**

BRICK HOMES

3 & 4 bedrooms. Town & Country living at its very best.

SAVE \$400

closing costs on either GI FHA terms. Phone JE 9-8481.

Sherwood Park

Directions: Drive WEST on Bob Wallace (Madison Pk.) or Governors Dr. Follow signs to Model Homes.

FOR SALE — Antique spool leg Walnut table, \$100; marble top walnut washstand; Duncan Phyfe table; 2 drawers; open shelf book and display case; large triple mirror, commercial quality; 39" bed, mattress and springs; roll away bed; Youngstown corner cabinet; a 27" cabinet; 8' knotty pine room divider. Phone 536-5227. 1tc

FOR SALE at 3606 Grote St., S. W. — 3 bedroom house, fenced yard, near Gate 1 in Ridgecrest, \$11,500, only \$1000 down, Phone 536-8638. 1tc

WANTED — A witness to accident which occurred May 1st, on Whitesburg Drive and Surrey Road between a 1956 and a 1954 Chevrolet. Please call 536-3762 or 876-2923. 1tp

ABOVE THE GROUND swimming pools 16x16, 16x33, 4, 6, or 8 feet deep. Easily installed, can be moved if you move. Phone 539-8693. 1tp

1961 VOLKSWAGEN — Radio, 3500 miles, beautiful blue color, wheel disc. Must sell. Phone 534-3339. 1nc

BICYCLES — Lawn mower repair, saws and knives sharpened. **REBUILT BICYCLES for SALE H & L BIKE SHOP,** 302 Dallas St. (near old Armory). Phone 534-9461. 5-31c

KINDERGARTEN — Blossomwood: Enroll now for Sept. classes. Small classes provides individual attention. For specific information call Mrs. James E. Collins, 1103 Tunlaw Road, SE. Phone 534-2525. 1tp

FOR SALE IN ARAB — 3 bedroom frame house, 1½ bath, storage and carport. Large rms. On paved street. 309 5th St., N.E. JUniper 6-6503. 1tp

FOR SALE — 1 Bedroom suite consisting of 1 double bed with interspring mattress, chest, dresser, bench, and night stand. Call 536-2381. 1tp

FOR SALE — New Delux Dehumidifier with Humidistat, In perfect condition. Never used. Price \$70.00. Call 536-5673 or 876-0125. 1tp

SAM — Bring back the children's piggy banks, we can have soft water without borrowing from them, because with Culligan soft water service you don't have to buy it to try it, and service rates are as low as \$3.50 per mo. Call the Culligan Man, 539-3941 for details. Joanne. 1tc

FOR SALE in Shady Lane Acres —3 bedroom all brick home, good size lot, nice, quiet neighborhood, hardwood floors, well landscaped. Phone 534-7874. 1tc

HOUSE FOR SALE — 506 Hoffman St., Athens. \$10,500; 3 bedrooms, living room, dining rm., 1 bath, large playroom, 1325 sq. ft., pay equity, take up payments of \$56.05 per mo., or can be refinanced. Call 232-0710 Athens or 876-9606 Huntsville. 1tc

FOR RENT — 2 bedroom house: nice location, near school, blinds and TV antenna, stove and refrigerator furnished, 1024 Crestline Road. Phone 539-3924. 1tc

1957 VOLKSWAGEN — Radio, sunroof, pretty color, above average condition. Phone 539-8693. 1tp

FOR RENT — Spartan house-trailer, air conditioned, with awning, swimming pool privileges, located on private lot near Gate 3. Gentlemen or couple, \$65.00 per mo. Phone 536-0590. 1tc

FOR SALE — Boxer, male, 18 months old, AKC registered, fawn and black, rabies and permanent vaccinations, obedient, house broken, beautiful dog. Call 534-2328. 1tp

FOR SALE—\$20,500—3 bedroom, brick, carpets, drapes, 1½ bath (combination), air conditioner, large kitchen family room, carport, patio, level landscaped lot, Mountain Brook. Phone 534-2991. 1tp

FOR SALE — 1958 12 ft. feather craft aluminum runabout with 35 HP electric starting Evinrude Lark and Custom built trailer. Fast and safe; excellent condition: \$725. Call Mickey Gibbons, 876-5071 or 534-4678 at night. 1tp

FOR SALE — 4103 Arlington Rd. By owner — 3 bedrooms, ceramic bath, easy to buy. No red tape. Phone 536-9566 after 5 p. m. 1tp

The 381,000 civilians employed by the U. S. Army perform myraid tasks that free military personnel for combat and combat supporting assignments.

Edgar Is on Active Reserve Training At Ft. Eustis, Va.

John L. Edgar, Deputy Finance and Accounting Officer, Redstone Arsenal, active reservist in the U. S. Army Reserve program, is attending annual training with the First Transportation Railway Command at Ft. Eustis, Va., May 21-June 4.

The First Transportation Railway Command is a unique Reserve Unit in that its members are drawn from all parts of the United States. Lt. Col. Edgar was with the Union Pacific Railroad for five years prior to entry into the Army, as a Civil Service employe in 1934.

Mr. Edgar is assigned to the Transportation Railway Command with Headquarters in Washington, D. C. as Assistant General Manager for Personnel and Administration.

He was commissioned second lieutenant in the Finance Corps and was called to active duty in the Alaskan Command in July 1942, where he served with the Corps of Engineers.

In 1954 he transferred to the Transportation Corps.

Lt. Col. Edgar is active in the Army Reserve Program in Huntsville where he is attached to the 3367th Logistical Command which meets weekly at the Meridian Army Reserve Center.

Mr. Edgar is also President of the Huntsville Chapter of the Federal Government Accountants Association.

HOLIDAY SHORES

WOODED WATERFRONT LOTS



- BEST WATER ON LAKE
- CRUISER DEPTH
- NO CAUSEWAYS OR BRIDGES
- 25 MILES FROM HUNTSVILLE
- ATTRACTIVE TERMS
- GUNTERVILLE - HONEYCOMB LAKE
- OFF HIGHWAY 431, ADJACENT TO SNUG HARBOR.

PHONE: HUNTSVILLE 536-6767
GUNTERVILLE Justice 2-3258

Salesman on Property (Lot 13)
Saturday and Sunday

LAST CHANCE

To Purchase A Beautiful Home In . . .

EDMONTON HEIGHTS

"Huntsville's First Negro Subdivision"

Where a Veteran can move in for no money down and no closing costs. Average monthly payments \$62.10, including taxes and insurance.

Select Yours Now

You Get More House For Your Money!

PHONE 534-5643

Open 'til 8 For Appointment

AUCTION

HUNTSVILLE, ALA.

Sat. May 27

— 1:00 P.M.

SALE TO BE HELD ON PREMISES
PROPERTY OF WILLIS L. KENNAMER

Located in the City Limits of Huntsville, 1 - 50 Acre Tract, 1 - 10 Acre Tract just off Big Cove Road adjacent to Mountain Brook Subdivision one of Huntsville's finest surrounded by beautiful new Homes. City Water available. This Property is ideal for Homesites, Recreation Center or an Estate, having two fine ever lasting Springs, with beautiful Waterfall. Immediately after this Sale we will sell 2 beautiful Lots, with all improvements, located on Shade Crest Road in Kennamer Subdivision. Be sure and inspect this Property before sale day and attend sale, as we have been instructed to sell it for the high Dollar. For further information call Willis L. Kennamer, JE-4-0794 or write or call our Office. Sale begins on the Acreage Tracts just off Big Cove Road. Signs on Property.

Free beautiful TV Set. Everyone attending sale gets a free chance.

Terms ½ Cash. Balance 6 Months.

LUMMUS AUCTION COMPANY

809 Forsythe Building

Atlanta, Georgia

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WE SELL FARMS—BUSINESS PROPERTY—SUBDIVISIONS
Over 40 Years Selling Experience At Auctions. Let Us Sell Your Property.
LICENSED AND BONDED

"If It Can Be Sold, Lummus Can Sell It"

'Flashbulb' Used to Test Zeus Can Be Seen 40 Miles

New Device Will Save Money on System Tests

A high-power "flashbulb" that can be seen more than 40 miles away has been successfully tested at White Sands Missile Range, N. M., for use in the U. S. Army's Nike Zeus anti-missile missile system development program.

The bright light device is a spotting charge that will save money and time in the perfection of the only anti-ICBM weapon system under development in the Free World.

Forthcoming Zeus tests over the Pacific against specially developed target rockets, then against actual intercontinental ballistic missiles, will employ the spotting charge.

It will serve as a miss distance indicator and as a visual indicator that the Zeus warhead has currently received the command to explode within killing distance of its target.

Activated at the instant ground elements of the Zeus system command the Zeus missile warhead to burst, the brilliant flash will be recorded on instrumentation cameras positioned far away.

Comparison of film records will tell exactly how far from the target the Zeus warhead detonated. So potent is the warhead that direct contact of missile against missile is not necessary to destroy the target.

The flash will also show that the burst command was received by the Zeus missile.

Research and development on the spotting charge was conducted by Picatinny Arsenal, Dover, N. J., under authorization of the Army Rocket and Guided Missile Agency at Redstone Arsenal, the Army's technical supervisor of Nike Zeus development. Specifications for the device were provided by Bell Telephone Laboratories, responsible for system design and development.

Surprisingly small for the burst of light it puts out - models tested at White Sands ranged in size from a two-inch diameter cylinder four inches high with a four inch

cap to a five inch straight sided cylinder - the spotting device is filled with a flash powder composition over a standard detonator. Activation of the charge will not damage the missile or affect its trajectory.

Seventy-one tests were conducted at White Sands. In the first phase, 36 devices, each differing in weight or composition of the flash charge, were detonated at night from a mountaintop site in the middle of the 100 mile long range.

The second test series involved 35 charges set off in daylight against a clear blue sky. Cameras far down range recorded the intensity and size of the bursts just as they will when flight tests are conducted later at White Sands and intercept test firings are begun at Kwajalein Island, the test installation in mid-Pacific where



A BATTERY OF PHOTOGRAPHERS furnished on the spot pictures to sightseers during the Open House celebration at Redstone Arsenal, home of the Army Ordnance Missile Command, on Armed Forces Day May 20.

Atlas-ICBMs will be used as targets for the Nike Zeus system. All 71 tests were successful and

all objectives were achieved. Data gathered will determine the final design and the device will be in testing.



Chief of Staff	Suggestion Month	Box Score
since drive opened May 1		
RSA	187
ABMA	239
ARGMA	179
OGMS	121
AOMC	28



SUN BATHER—Lovely Nancy Brown relaxes on the sand at Miami Beach, Fla. She's enjoying the sun and staying far away from Old Man Winter.

Huntsville's Quality Store—
The Place to Go
For the Brands You Know
In Summertime Fun Clothes!
—for the Entire Family!

Dunnavant's

Downtown — Since 1914