

The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Huntsville, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisement in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. VIII; NO. 32

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 9, 1959

ARGMA Is Assigned New Radar Research Project

Efficiency Is Sought For Warhead Detection

The Department of Defense has announced an experimental program to determine the efficiency of radar in the detection and identification of ballistic missile warheads.

The project is known as the Pacific Range Electromagnetic Signature Study Facility, or Project PRESS.

The Advanced Research Projects Agency of the Defense Department has assigned to Army Rocket and Guided Missile Agency, U. S. Army Ordnance Missile Command, the responsibility to carry out experiments to detect and identify incoming missile warheads by radar.

The experiments are part of Project Defender, sponsored by ARPA, and will be conducted in the Pacific Ocean area. They are designed to determine how early in their trajectories the positive identification of missile warheads can be achieved.

A special radar installation is planned at Roi Namur Island in the Marshalls, 45 miles from the Army's new Nike Zeus installation on Kwajalein Atoll where the Zeus anti-missile missile system will be tested.

Experiments will be conducted with unarmed target missile including IRBM and mock ICBM missiles launched by the Army from Johnston Island which is 1,420 miles away from Roi Namur in the Zeus evaluation program.

The project will employ two radar systems. One is an improved version of the radar developed by the Radio Corporation of America and utilized in the Ballistic Missile Early Warning System. It is produced by RCA under contract with the Army Rocket and Guided Missile Agency. (See ARGMA Assigned, Page 2)

AOMC Scientists Will Be on WAFG Dec. 16

"Reach for the Sun", a 17-minute program featuring a panel of scientists from the Army Ordnance Missile Command, will be presented over the Huntsville television station WAFG at 8 p. m. on Dec. 16.

The main feature will be a panel of scientists including Dr. Ralph C. Swann of ARGMA, panel chairman, and Dr. W. W. Wharton of ARGMA, W. A. Riehl of ABMA, and Dr. M. J. Hall of ARGMA, all of whom hold responsible positions in the propellant and chemistry areas.

The program will be general and will hold specific interest for high school juniors and seniors who plan to study for science careers, and are now making their plans for college.

The panel will answer questions of students of the studio audience. Mrs. Louise Amos, Career Guidance Counsellor at Huntsville High School, will be coordinator for students who wish to be a part of the audience.

The program is being sponsored by the Huntsville Public Library.

Military Contracts Will Be Studied At University Center

A special non-credit course in Government Military Contracting will be offered by the University of Alabama, Huntsville Center, in the Winter Quarter beginning in January.

This course is designed to provide knowledge in regard to the regulations, methods and procedures to anyone either concerned with procurement inside the government, or contracting activities. (See MILITARY on Page 2)

SPACE COMMITTEE MEMBER VISITS AOMC THIS WEEK

Sen. John Stennis of Mississippi, a member of the Senate Committee on Aeronautical and Space Sciences, and members of the committee staff, are at the Army Ordnance Missile Command today for a general orientation and tour of the installation.

Another congressional visitor to the post this week was Rep. Richard Bolling of Missouri, who addressed the annual Chamber of Commerce meeting in Huntsville Monday evening. Rep. Bolling was greeted by Brig. Gen. J. A. Barclay, ABMA commander, Monday afternoon. He toured ABMA facilities.

Sen. Stennis arrived late yesterday and is scheduled to depart early Thursday. In addition to Huntsville, his week-long field trip includes visits to NASA facilities at Wallops Island and Langley AFB, Va., a contractor plant at West Palm Beach, Fla., and the Arnold Engineering Center at Tullahoma, Tenn.

The senator is accompanied by Kenneth E. Belieu, committee staff director; Max Lehrer, assistant staff director; Everad H. Smith, Jr., committee counsel; Gordon Nease, member of the staff of the Senate Committee on Armed Services; and James Gleason, NASA legislative liaison representative.

At Redstone the group was to be briefed on the organization and missions of the Missile Command, by Maj. Gen. J. B. Medaris, commanding general; Dr. Werner von Braun, director of ABMA Development Operations, and others.

In addition to his position on the Space Committee, Sen. Stennis is chairman of the Subcommittee on NASA Authorization, chairman of the Military Construction Subcommittee of the Armed Services Committee, member of the Department of Defense Subcommittee on Appropriations, and chairman of the Defense Military Construction Subcommittee on Appropriations.

General Medaris Predicts Growth of the Community

He Gives Report On Activities As Army Director

Maj. Gen. J. B. Medaris, making a stewardship report on his tenure as executive director of the Army's missile and space programs, today recounted the recent progress of Redstone Arsenal and the community and predicted even greater growth.

With the planned assignment of a portion of the Arsenal's activity to the National Aeronautics and Space Administration, the Army will continue all of its present operations here. The result should be a net increase in investment and employment, he stated.

Gen. Medaris, summarizing the growth since the Army's accelerated program began with his arrival four years ago, pointed out that:

The Arsenal budget has grown from \$471,700,000 in 1956 to more than \$2,000,000,000.

Employment has increased from 9,048 to 21,936.

This year's payroll will be \$137,000,000 compared to \$39,860,144 in 1956.

The government's investment in land and facilities, excluding equipment, has grown from \$70,441,000 to \$133,355,000, with another \$27,000,000 in construction now under way.

"We have established a national asset that has no counterpart in the Free World. We have brought together men and women, military and civilian, whose experience and capabilities in advanced rocketry are unequalled — and I do not exclude from that comparison their competition behind the Iron Curtain," the general declared.

Gen. Medaris will retire next month as head of the Army Ordnance Missile Command. He spoke today to the combined civic group. (See LADY on Page 3)



DR. CARTER

DR. CARTER IS NAMED AOMC'S CHIEF SCIENTIST

Dr. William Walton Carter has recently been named chief scientist of the Army Ordnance Missile Command at Redstone Arsenal. Maj. Gen. J. B. Medaris, Commanding General, announces.

Dr. Carter came to the AOMC post from the Los Alamos (Nev.) Scientific Laboratories of the Atomic Energy Commission, where he was director of the Experimental Physics Group, Weapons Division. He had been employed at Los Alamos for the past 10 years.

Born in Pensacola, Fla., he attended grammar and high school at Ft. Worth, Texas.

He is the son of Mrs. N. L. Carter, 2818 Lowden St., Ft. Worth. His father is deceased.

Dr. Carter received his B. S. degree in physics in 1943 from Carnegie Institute of Technology, his M.S. in physics in 1948 from California Institute of Technology and his Ph.D. in physics in 1949 also from Cal Tech.

During his study for his doctorate, he also worked at Mt. Wilson. (See DR. CARTER on Page 2)

Scouts Will Have Permanent Camp

The Scouts will have a permanent camp site on the peak of Weeden Mountain which will be used by all elements of the Redstone Arsenal Scout organization.

The camp will consist of four Adirondack huts, fireplace and a council fire area.

The present plan calls for construction of the first hut by the Explorer Scouts and their fathers. The first working party will leave Bldg. 3524 at 9 a.m. on Saturday, Dec. 12.

Necessary tools and material have been assembled for this project. Transportation will be available from Bldg. 3524.

The Adirondack huts will accommodate eight boys and their gear. The hut will be 14 feet by sixteen feet, of logs and mud construction with three walls and a roof and an open front.

Future plans call for construction of the remaining three huts by various Boy Scout Troops and their fathers.

Col. Harry McClain, Institutional Representative for Redstone Arsenal, has stated that this combined Scout project will have a lasting impact on the future Scouts of Redstone Arsenal. He is urging the Scouts and their fathers to all lend a hand to complete the project as soon as possible.

Woman Instructor Is Ready to Teach Jupiter Maintenance

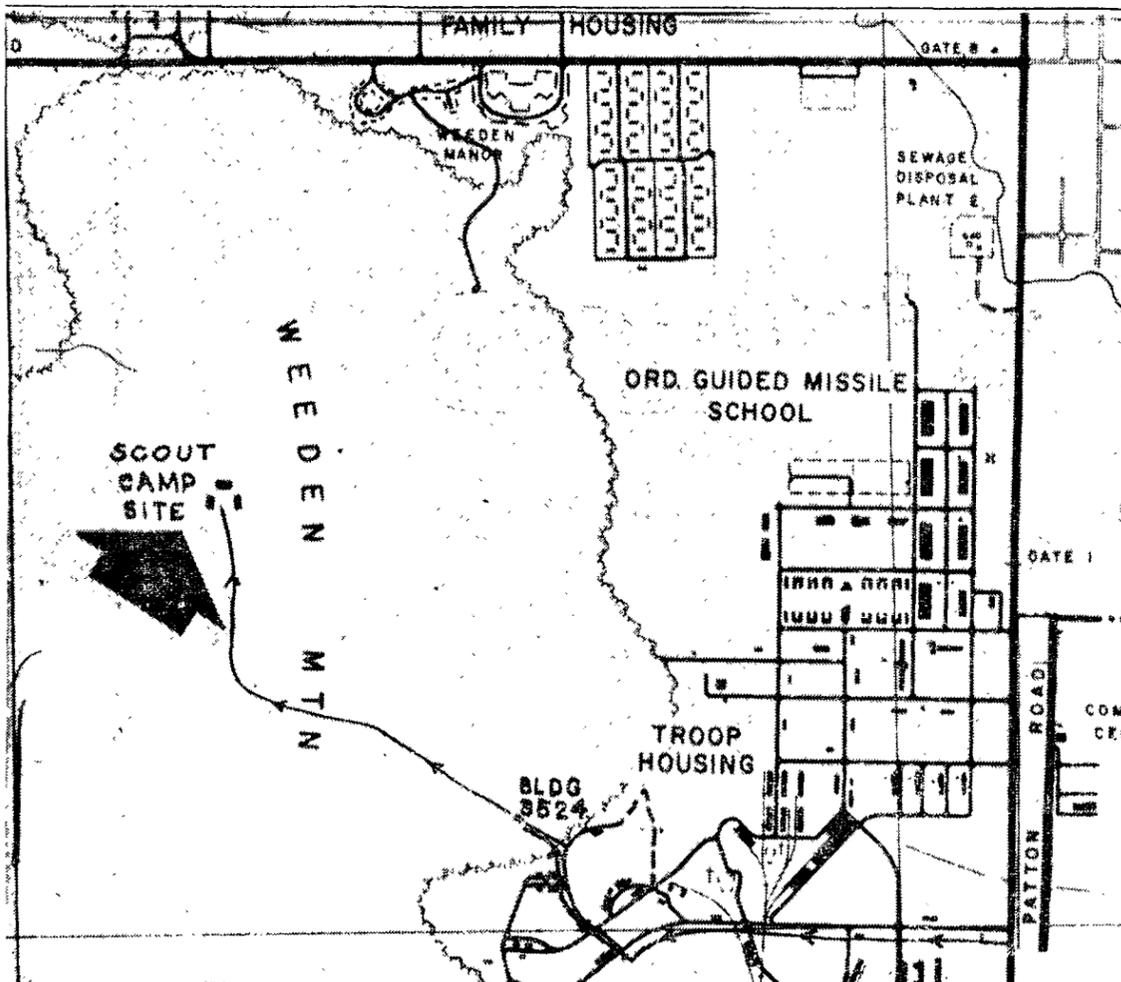
The first woman to be trained in the maintenance of the Jupiter intermediate range ballistic missile was graduated Monday from the Army Ordnance Guided Missile School here.

She received her diploma from Senator John J. Sparkman along with 87 officers and airmen of the Italian and U. S. Air Forces in an international ceremony in the Redstone Arsenal Post Theater at 10 a.m., Monday.

The group is the largest to complete training since the Army Missile School last year began teaching the U. S. and Italian airmen to maintain the huge weapon developed at Redstone and now being deployed overseas to strengthen NATO defenses.

The first Jupiter "co-ed" is Miss Wanda Williams, a veteran civilian instructor for the Air Training Command at Sheppard Air Force Base, Wichita Falls, Texas, where she instructs male students in the repair of guided missiles. She completed a course here in analysis of the Jupiter's guidance system.

Sen. John Sparkman, speaking as a ranking member of the Senate Foreign Relations Committee, was welcomed to the Missile School with full military honors. He was introduced by Col. Ernest W. Ewbank, assistant to Col. C. W. Eifler, OGMS commandant, who was out of the city on official duties.



BOY SCOUT CAMP SITE—The arrows on the map above point the way to the peak of Weeden Mountain where a permanent Scout camp is to be constructed by the Scouts and their fathers. All the materials for the first of the Adirondack huts are already at the camp site. The first working party of Explorer Scouts and fathers will leave Bldg. 3524 at 9 a.m. on Saturday (Dec. 12). The huts will be three-walled, covering an area 14 feet by 16 feet with the front side open, and are intended to accommodate eight boys as a shelter from bad weather.

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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ARGMA Assigned

(Continued From Page 1)

ed Missile Agency.

The other is an advanced type radar produced by the Raytheon Corporation for the Air Research and Development Command, and procured through the Air Development Center, Rome, N. Y.

A rapid data processing device may be added at a later date. Ballistic missile characteristics will be measured from the point at which radar picks up the missile until reentry into the atmosphere. The radars will operate on different frequencies.

ARGMA is the agent of the Advanced Research Projects Agency for technical management and coordination of site preparation at Roi Namur, for construction development and operation of the facilities.

The Army Missile Agency had previously awarded a contract for \$8,375,000 for radar research and development.

Design and supervision of construction of the test site facilities will be accomplished by the Army Corps of Engineers. The Mobile, Ala., District Engineer is accomplishing the master plan for the facility and design of technical installations which will include four major structures. The Honolulu District Engineer is responsible for the design of support facilities and supervision of all construction.

The Corps of Engineers has awarded contracts to Aetron Division of Aerojet General, Los Angeles, Calif., for \$108,000 for master site planning; and Michael-Baker Co., Jackson, Miss., for \$23,698, for topographical studies.

The U. S. Navy Bureau of As-

Dr. Carter

(Continued From Page 1)

son Observatory, Pasadena, Calif., and the experimental portion of his thesis — on the astrophysics of solar and stellar atmospheres — was done there.

He is married to the former Elizabeth Dedick of Mt. Carmel, Pa. They have four children.

Military

(Continued From Page 1)

ty for a commercial contractor.

Dr. Douglas L. King is to be the instructor for this course. Dr. King is General Counsel for the Army Ballistic Missile Agency and is well qualified in the field through extensive experience and a Doctor of Jurisprudence degree from Stanford University.

The days and hours for this course will be announced at a later date.

tronautics, Navy Supply Pacific Theater, is providing logistic support for Project Press including a utility landing craft to provide temporary housing.

Project Defender is a research, experimentation and systems feasibility demonstration of technologically advanced defenses against extra-atmospheric offensive vehicles. It is intended to explore fundamental phenomena, to develop new concepts, and apply new techniques.

The project at ARGMA is being carried out by the Research and Development Division, headed by Col. M. R. Collins. Norman Buchholz is in charge of the project.



GUARD OF MONTH—Civilian Guard James E. Cowan (right), receives congratulations from Lt. Col. Dean H. Jones, Redstone Arsenal Provost Marshal. Cowan, was chosen Guard of the Month for superior performance of his assigned duties, appearance and display of confidence.

CHRISTMAS PARTY COMMITTEE HAS PLANS COMPLETED

The Special Projects committee of the Joint Activities Council met at the Service Club on Tuesday, Dec. 1 to make further preparations for the 1959 Childrens Christmas Party to be held on the Arsenal Dec. 21.

Committees reported on their different areas of responsibility asking for recommendations from the body on various problems.

It was decided that a movie be shown, with crackerjacks for refreshments, on the day following the traditional Christmas Party for the 10-12 age group. The movie and refreshments are scheduled for 1300 hours, Dec. 22 at the Post Theater.

Members present at the meeting were; Lt. Col. Paul Lamoure,

Chairman, Maj. Claude Anderson, M/Sgt. Oliver D. Coker, SFC, Leonard Belcher, Mrs. C. A. Heath, Mrs. T. A. Sims, Mrs. M. Collins, Mrs. H. J. Bullard.

E. Hufnagel, Capt. D. L. Voorhee, Lt. E. O. Buckbee and M/Sgt. Allen C. Helson.

The next meeting is scheduled for 1300 hours Tuesday, Dec. 1 at the Service Club.

Guests present were: Maj. O.

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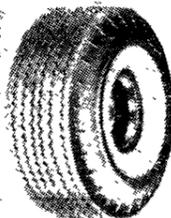


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Lady

(Continued from Page 1) and service clubs of Huntsville, sponsored by the Rotary club.

Commenting on a contemplated major change at the Arsenal — a portion of the Army Ballistic Missile Agency being transferred to NASA — Gen Medaris reported that he had recommended and Department of the Army had approved the continuance of the Army Ballistic Missile Agency as an integral part of the Command.

"While ABMA may lose a substantial number of its people to NASA, it will retain much of its competence in national procurement, military training and systems management. Some of the personnel losses must be replaced, in order to have a continuing research and development element, perhaps to be housed in existing facilities until new facilities can be provided."

Certain additional weapons systems will be transferred to ABMA, giving the Agency even broader responsibilities than it has had in the area of weapons systems, he said.

"It is highly probably that the total personnel on the Arsenal, including the NASA organization, will be greater than at present."

Gen. Medaris praised the superior leadership of the local governments in coping with the growth of the area caused by the increase in Arsenal employment. The Huntsville population has doubled in four years. Some 7,000 family housing units have been constructed.

"I have never ceased to be grateful for the intelligence, the frankness and the cooperation that have dictated the approach of

Army News From Atlantic Range

Maj. Oswald M. Remer, ARGMA project officer at the Atlantic Missile Range Army Field Office, has been promoted to lieutenant colonel in the U. S. Army Reserve. His certificate was presented last week by Col. James D. Sams, chief of the office.

Recent visitors to the ABMA Missile Firing Laboratory, Cape Canaveral, include:

Sen. George Smathers (D-Fla.), who was there on a general orientation visit, accompanied by his administrative assistant, George Peek.

Robert G. McGregor, the American Consul General at Kingston, Jamaica, accompanied by William J. McIntyre, a consulate staff member. They were escorted on a tour by Capt. James Ross, of the Atlantic Missile Range Army Field Office.

The chief of the Department of the Army R&D liaison office, William R. Parr, was promoted to colonel last week. His eagles were pinned on by Brig. Gen. William Rogers, vice commander of the Air Force Missile Test Center.

Jewel T. Campbell, general foreman of the Missile Firing

WHAT THEY'RE SAYING

"We must remember that the threat of Soviet communism is many-pronged. It is economic, political and ideological. It is active in all parts of the world, and it seeks to control the minds of men. We cannot meet it with military power alone. To meet its challenge we must be strong economically, strong in determination to preserve justice under law, and strong in our faith in the American way."—James H. Douglas, Secretary of the Air Force.

your community to the solution of these problems. I think it has been outstanding in the history of the nation in terms of the military-community relationship," he said.



SERGEANT GRIMES IS E-9—Army M/Sgt. Clifton L. Grimes, (center) operations sergeant at the Redstone Arsenal, Ala., Provost Marshal Office, is promoted to the supergrade E-9 during a ceremony in which Lt. Col. Dean Jones, (left) Redstone Provost Marshal, and Col. Owen T. McCloskey, commander of the Arsenal, attach new stripes on the sergeant. M/Sgt. Grimes was a first sergeant in a military police company at Ft. Dix, N. J., prior to his assignment at Redstone Arsenal in January, 1956. M/Sgt. Grimes has been in the Army more than 24 years and is a veteran of combat in the Pacific. His first assignment overseas was at Schofield Barracks from 1939-'41. During World War II, he was in the Philippines and during the Korean conflict, he was in Japan and Korea from 1950 to 1952. Among his decorations are the Combat Infantry Badge, and the Good Conduct Medal with six clasps. He is the son of William Grimes, 822 Holbert St., Ashland, Ky.

Lab firing section, was recently presented a citation for sustained superior performance, with a monetary award, by Albert Zeiler, chief of the Mechanical Engineering and Ground Handling Branch.



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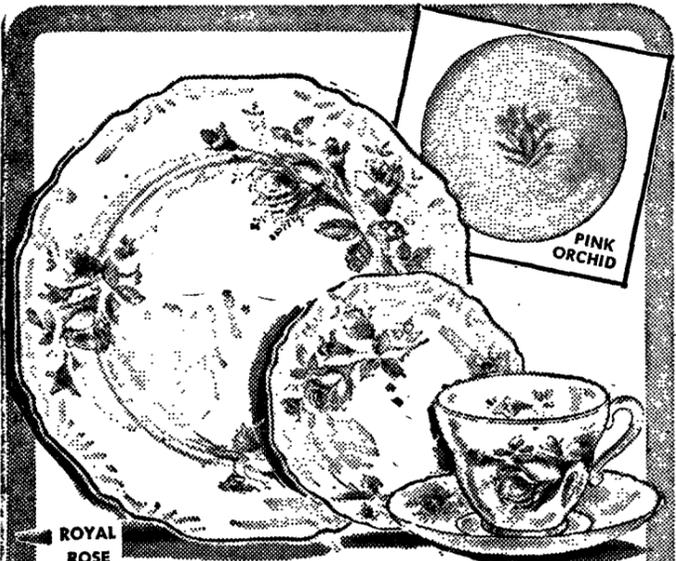
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Social News

Installation Held By Toastmistresses

Mrs. Miles Hardenburgh unveiled a new lectern at the Huntsville Toastmistress Club meeting at the Country Club Wednesday night. The lectern which bears a large Toastmistress seal was constructed and given to the club by Mr. Hardenburgh, a member of the Redstone Toastmasters Club.

New officers elected for the coming six months are: Miss Corrie Knight, president; Mrs. James Spencer, vice president; Mrs. Carol Bjork, secretary and Mrs. Donald Ackerman, treasurer. Officers will be installed at the next meeting.

Announcement was made that Mrs. L. K. Wood has been requested by the March of Dimes organization to provide speakers in behalf of the drive and that Mrs. Carol Bjork has been placed in charge of the open house by Christmas Charities. Arrangements were made for other Toastmistress Club members to participate in these community activities. Eight members plan to attend the luncheon for Maj. Gen. J. B. Medaris Commanding General, AOMC, next Tuesday.

Table decorations featured the Christmas theme. A group discussion of the history of women's fashions was conducted by Mrs. Ackerman. The award for best speaker of the evening was won by Mrs. George Warren for her illustrated talk on dress design. Other program speakers included: Mrs. C. D. Leatherman, Mrs. Jo Wilson and Mrs. Bjork. Mrs. P. K. Gibbs conducted a forum evaluation of the program and Mrs. E. C. Ewbank served as general evaluator.

Guests included: Mrs. Shelby P. Taylor, Mrs. Lula Bice, Mrs. Stephen Heim, Mrs. E. R. Palmer, Dr. C. D. Leatherman, Mrs. D. A. Klein, Mrs. Sam Shulman, Mrs. G. M. Robinson and Mrs. L. P. Garner.

Mrs. Neunlist Takes Party Bridge Honors

The party bridge group of the Redstone Arsenal Officers' Wives Club met Thursday, Dec. 3, at the Officers Club with three tables in play.

Mrs. R. E. Neunlist took top

Monday Night Bridge Winners Are Named

Four tables of Couples Bridge were in play Monday night, November 30, at the Officers Club with the following result.

Women: Capt. Jo Walls, high; Mrs. James O'Neal, second.

Men: Capt. Homer Finch, high; Fred Ellis, second.

Reservations to participate in Monday night Couple Bridge should be made not later than Saturday noon with Mrs. John Severeid, ext. 5-7841.

Sojourners Install Officers for 1960

At the annual installation banquet held at the Officers Club at Redstone Arsenal on Dec. 4, the officers for 1960 of Redstone Chapter No. 353, National Sojourners, were installed. Col. R. H. Schulz, Infantry, director of instruction at the Army Aviation School, Ft. Rucker, Ala., was the installing officer.

Maj. (Chaplain) Richard Gear of the Army Aviation Center, Ft. Rucker, was the installing chaplain. Lt. Col. Glen B. Keith and Maj. O. L. Putman of the Army Ordnance Missile Command served as installing marshal and installing secretary, respectively.

The following officers were installed: president, Lt. Col. Morton S. Jaffee; first vice president, Col. Charles J. Payne, second vice president, Capt. Kenneth W. Gryder, U. S. Marine Corps; third vice president, Maj. Reuben L. Anderson; secretary, Lt. Comdr. John H. Graham; treasurer, Lt. Col. Paschal R. Redding, Jr.; historian, Lt. Col. James N. Jean; chaplain, Maj. James Goewey; marshal, Maj. William S. Makowsky; deputy marshal, Lt. Col. Robert L. Crossman; color bearers, Lt. Col. Charles C. Rollins, Capt. James G. Goodwin, Capt. Joseph A. Meyers.

W. H. Klieber and William Makowsky were installed as commander and chief of staff, respectively, of Monte Sano Camp, Heroes of '76.

Maj. Lincoln H. Townsend, outgoing president, and Lt. Col. Abraham Jacobson, (Ret.), on the occasion of his departure from Redstone Arsenal, were presented scrolls of appreciation.

honor; Mrs. R. S. Kinch placed second, and Mr. R. K. Wensley scored low.

Tomorrow the group will meet for the last time until after New Year's. Newcomers interested in participating in the activities of the party bridge group are urged to attend and refreshments will be served. Play begins at 10 a.m. Reservations should be made not later than noon today with Mrs. A. Y. Harper Jr., JE 9-2606.



ARRANGEMENT EXCHANGE—Left to right, Mrs. H. D. Mitman, Mrs. William S. Bice, and Mrs. D. H. Steininger of the Redstone Arsenal Officers Wives Garden Club discuss some of the Christmas arrangements brought by members of the group to the garden club luncheon held Wednesday at the Officers Club. At the end of festivities, arrangements were exchanged among those attending. Mrs. Bice was luncheon chairman and Mrs. Mitman was in charge of decorations. Mrs. D. H. Steininger is garden club president.

HIGHLIGHTS OF CHRISTMAS LUNCHEON ARE TABLE ARRANGEMENTS, HATS

Decor of the Yuletide season highlighted the Christmas luncheon held Wednesday (Dec. 2) by the Redstone Arsenal Officers Wives Garden Club in the Redstone Room at the Officers Club.

Luncheon tables were adorned with pine greens, Christmas balls, and red and white candies. In addition, the luncheon featured a Christmas arrangement exchange with members bringing table arrangements which were exchanged at the close of the festivities. The arrangements included such items as Christmas greens, pine cones, holly, miniature choristers and snowmen, candles, tiny reindeer, and Christmas balls.

In keeping with the holiday theme, Mrs. H. J. Finch sang two selections, "O Holy Night" and "The Silent Stars," accompanied of their own design. Mrs. R. A. Rutledge's creation of cedar branches and Nandina berries was judged the best and she received the centerpiece from the main luncheon table.

Mrs. William S. Bice was lunch-

eon chairman. She was assisted

on the piano by Mrs. R. R. Boyd. Attendees wore Christmas hats by Mrs. H. D. Mitman and Mrs. R. H. Lee. Forty-eight ladies attended the event.

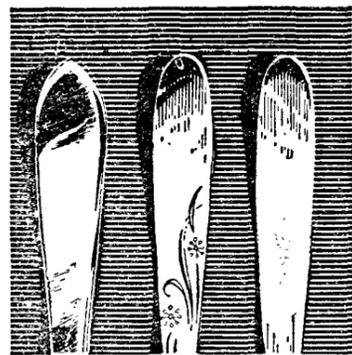
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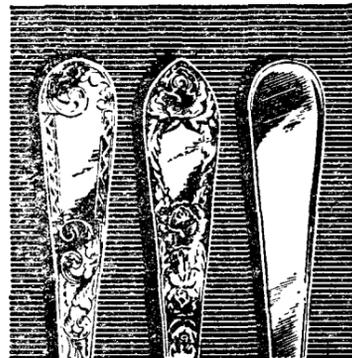


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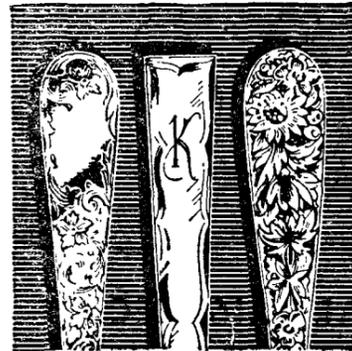
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Community Chorus Will Present Christmas Music

A concert of Christmas Music will be presented on Thursday, Dec. 17, 8:15 p.m. at the First Methodist Church by the Huntsville Community Chorus. This second public concert of the 1959-60 concert season by the Community Chorus will include works by early, traditional and modern composers.

"I o, I Bring Tidings", a Christmas concerto from Part I of the "Sacred Concert" by Johann Vierdanck will be sung by the male chorus and accompanied by recorders and organ. This work was published during the first half of the seventeenth century and is characteristic of the early baroque period of music.

A group of three chorales from the "Christmas Oratorio" by the well known composer of the baroque period, Johann Sebastian Bach, will be sung by the chorus. The audience will join in singing traditional carols.

A cantata "When the Christ Child Came" by the modern composer, Joseph W. Clokey, will conclude the program. Soloists for the cantata will be Mrs. Charles Goodrich, soprano; Mrs. Carl Winkler, alto; Hansel Cornutt, tenor; and Charles Tedford, baritone.

The Chorus is under the direction of Kenneth V. Turvey and will be accompanied by Mrs. Pat Hamm, pianist and Mr. William Dennison, organist. A free-will offering will be collected to cover expenses of the Community Chorus, but there will be no admission charge.

Golf Group Holds Christmas Luncheon

The golf group of the Redstone Arsenal Officers Wives Club will hold its Christmas luncheon at 12:30 p.m. on Wednesday, Dec. 16, at the Officers Club.

All members of the group are invited to attend.

Art Exhibit Is Held In Times Building

An exhibit of art is currently being shown in Huntsville. The show, which opened on Monday, contains the work of four local artists.

A wide selection of paintings in both contemporary and traditional styles high-light the exhibit. Graphis prints in nearly every medium can also be viewed.

Among the paintings on display is work by Charles Long. In addition to being an architectural illustrator in Huntsville, Long is also the instructor of a class in art held at Squirrel Hill Club. Mr. Long's wife, Connie, is participating in the exhibition, too.

Dorothy Neblett has also contributed to the display of Huntsville talent. Miss Neblett is the art instructor at the University of Alabama Extension.

Completing the list of artists is Donald Durland. Along with a number of paintings, Durland also exhibits several prints. Durland is currently serving as an instructor at the Ordnance Guided Missile School.

The exhibition is being held on the 12th floor of the Huntsville Times Building. The public is invited to attend from 12 noon to 8 p.m. daily. Saturday, Dec. 12, is the final day of the show.

At the Service Club

WHAT'S MY LINE: A TV show "What's My Line" was enjoyed Sunday night Dec. 6 at the Service Club. The panel consisted of Miss Frances (Dorothy Worley), Miss Kilgallin (Mary Todd), Mr. Surf (Jack Adams) and Mr. Hunter (Danie Cardlie); and the world famous John Charles Daley (Dave Van Housen). The panel was blindfolded and a bus guard; post illustrator; EM Service Club assistant; and photographer participated on the program. The program was a tremendous amount of fun and was enjoyed by a grand audience.

TOURNAMENTS: The bridge tournament is scheduled for Dec. 10 at 1800 hours. Make plans to participate in the tournament now. We are contemplating four to six tables in this month's tournament.

Dec. 13 is the scheduled date of the monthly pinocle tournament. Bring a partner and enjoy

Mrs. Krembs Is Canasta Winner

The canasta group of the Redstone Arsenal Officers Wives Club met Thursday evening at the Officers Club with three tables in play.

Mrs. Eugene Krembs placed high and Mrs. D. D. Bluhm was low.

The canasta group will play tomorrow for the last time until after the holidays. Reservations to participate should be made not later than noon today with Mrs. Donald Voorhees, JE 9-2452.

Butler PTA Will Meet Next Monday Night

The Butler High School PTA meeting on Monday, Dec. 14 at 7:30 p.m. will have a program of music in addition to the business meeting, it was announced by Lt. Col. L. H. LeVine.

The School's combined choir groups, under the direction of Charles Tedford, will present a candlelight processional and a musical program.

Following the meeting, refreshments will be served. Parents will have the opportunity to meet the teachers.

SAM TO MEET

The North Alabama Chapter of the Society for the Advancement of Management will hold a dinner meeting at the Mountain View Restaurant on Memorial Parkway, S. W., tomorrow night at 7 p.m.

Al Nash, Detroit Office, Wolverine Tube Corp., will speak on work sampling.

Reservations may be procured from Henry Rupp, Arsenal ext. 3-3817.

the fun of the tournament. If you do not have a partner come anyway and we will get a partner for you.

The pool tournament is scheduled for Dec. 16 at 1800 hours. We are sure that there are many enthusiasts who have not made themselves known in our tournaments. We would like to have an entry from each unit on the post.

SPECIAL: Dec. 14 is the date for the decorating of the Club for the holiday season. Join the decorating committee for the fun of decorating and lighting the Christmas Trees.

DRAMATICS: Dec. 16 is the final casting of the play "Holiday for Lovers" at 1930 hours in the "Little Lounge". Rehearsals will begin soon after the first of the year. The play will be presented the latter part of February. King Harrison, of the Post TV Branch, will direct the play. We are fortunate to get King for this play because he has just directed the same play in his home town.

EM COUNCIL: The first meeting of the newly organized council will be Dec. 14 at 1330 hours in the Service Club. This council will provide opportunities for leadership and self-expression for enlisted men through participation in planning and conduct of the Service Club programs and increase utilization of Service Club through application by Service Club personnel of practical ideas and knowledge gained from exchange of materials submitted. Each representative will bring new ideas and suggestions to the meeting and these suggestions will be correlated and put to good use.

SLIDE NIGHT: Bring your favorite slides to the Club on Dec. 15 and let others enjoy them too.

Many of our friends have just returned from Europe and we will be able to take a wheelchair tour too. The time is 1800 hours.

CHRISTMAS DANCE: As time marches on, the seventeenth of December grows more lustrous on the calendar. The hostesses have all pulled out their holiday clothes and swirling skirts will lead the promenade at the Christmas Ball. The Junior Hostesses will be all aglow that night because the Junior Hostess Of The year will be announced during the evening.

It will be a gala affair so join us for the festivities. Of all the seasons of the year, the Christmas season is the gayest, merriest, and the happiest, and this year will be no exception. You can set your feet dancing promptly at 2000 hours when Glean Slayton and Orchestra will strike up the band for an outstanding event. The Birmingham and Huntsville Hostesses will be guests for the dance.

SUPPER: A spaghetti supper is scheduled for Dec. 12 at 1800 hours. Reservations will be accepted until noon December 10 in the Service Club Office. Don't miss this delightful supper. The chef will be ready to serve you promptly at 1800 hours.

MUSIC: The Male Glee Club meets every Thursday night at 1930 hours in the music room at the Service Club. New members are welcomed each Thursday night.

BINGO: Join in the fun of Bingo every Monday night at 2015 hours. The prizes are exquisite and the grand prize is fabulous. The games are very interesting and you can meet the gang at Bingo every Monday night.

Frances

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REHEARSE FOR 'ALLADIN'—(Left to right) Wayne Lacy as Sultan, Carol Livingston as Princess Adora, and Laurie Crawford as The African Magician, rehearse for the presentation of Alladin, a Little Theatre production scheduled as a Christmas gift to the children of Huntsville. On Dec. 12, the group will present the play at 10 a.m. and again at 7 p.m. at Huntsville High School. On Dec. 13, the play will be given at 2 p.m. On Dec. 14, the group will present the play at the Cavalry Hill School at 7 p.m. Proceeds from the box office will go to the Harris Home for Children. All of the characters pictured are associated with Redstone.

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Carrozza Is Chosen Safe Supervisor

Raymond D. Carrozza, senior instructor, Corporal Branch, Computer Section, SSM Division, OGMMS, has been selected as this week's safe supervisor.

Carrozza was born in Monessen, Penna. He graduated from Monessen High School in 1947 and attended Waynesburg College, Penna., majored in mathematics and received his B.S. degree in 1952.

During the period July 1953 to September 1954 he was an OGMMS GI student and military instructor at Redstone Arsenal. In 1955 Carrozza attended Kent State University, Ohio, where he took graduate work in mathematics.

In previous employment, Carrozza taught school in the Willoughby-Eastlake Public School, Ohio. His present assignment at Redstone began in March 1957.

Information furnished by Carrozza's sponsor, for this recognition, reflects outstanding work performance in all respects. His attitude, consideration and interest in the safety of others is highly commendable.

Carrozza is married, has two children, a boy and girl. Mrs. Carrozza was formerly Phyllis Champ of New Castle, Penna. She is a registered nurse and works part time at the Huntsville



R. D. CARROZZA

* * *

Hospital. The Carrozza's live at 2116 Gilbreath Road, Huntsville, and Raymond devotes much of his off-duty time to teaching his children in the art of tumbling and acrobatics.

YAC-1 IS ADDED

TOWNSVIEW, Ont., (ANS) — The 32-passenger YAC-1 Caribou transport aircraft capable of carrying an Infantry platoon from the rear to improvised front-line airstrips, was accepted for the Army here by Lt. Gen. Arthur G. Trudeau, Army Chief of Research and Development, recently.

The Canadian-built plane will fill a vital need of the Army for an air vehicle capable of rapid movement of small but effective combat units.

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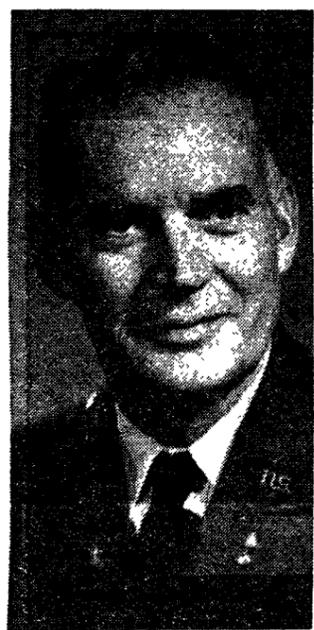
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COL. BURKETT

Col. Burkett Is Named ARGMA Deputy Chief of R&D

Col. Raymond W. Burkett has been named deputy chief of the research and development division at the Army Rocket and Guided Missile Agency by Brig. Gen. J. G. Shinkle, Agency Commander.

Col. Burkett was formerly assigned with the Eighth Army in Korea as commanding officer of the 83rd Ordnance Battalion. In recognition of his service in Korea

rea he was presented the Army Commendation Ribbon in a ceremony performed by General Shinkle shortly after his arrival at Redstone Arsenal. He is an electrical engineering graduate of the Georgia Institute of Technology and entered the Army in 1941.

Maj. Luther W. Roy is serving as assistant S-1 (assistant for personnel administration) officer at Redstone Arsenal. He was formerly assigned to range recovery at White Sands Missile Range, N. M.

Maj. Charles F. Owens has been assigned to the Field Service Division at the Army Rocket and Guided Missile Agency. He was formerly a battalion executive officer in Germany.

Major Ronald C. Johnson is assistant Continental Army Command Liaison Officer at Army Ordnance Missile Command headquarters. He was formerly a student at Ft. Bliss, Tex. He received both his BS and Master's degrees in education from the University of Maine.

Capt. Edward N. Tucker, a former company commanding officer in Korea is now a staff officer with the engineer office at Command headquarters. He holds a BS degree in chemical engineering from Pennsylvania Military College. Shortly after his arrival at Redstone Arsenal he received the Army commendation in recognition of his service in Korea.

Capt. Francisco Canales-Roman, who received his DDS degree from Georgetown University, in Washington, D. C., is serving as a dental officer at Redstone Arsenal. He was formerly a student at Ft. Sam Houston, Tex.

Capt. Clifford J. Asby, formerly chief of the plans and operations branch of the staff signal division with Headquarters Fifth Logistical Command "C" at Poitiers, France is now a project officer with the Signal Office at Command headquarters.

Capt. Francis R. Williams is serving as a TV officer with the Command Signal Office. He was formerly commanding officer of Cherbourg Cablehead, Cherbourg, France.

1st Lieutenant Dominick J. Di-Frisco, A DDS graduate of Georgetown Dental School, Washington, D. C., is a dental officer at Redstone Arsenal.

1st Lt. Myron P. Hollister has been assigned as a project officer with the Control Office at the Army Ballistic Missile Agency. He holds a BS and MS degrees in mechanical engineering from Stanford University, Palo Alto, Calif.

1st Lt. Thomas W. Littlejohn and John P. Gullen Jr., have been assigned to the Industrial Division at the Army Rocket and Guided Missile Agency. Lt. Littlejohn is an agricultural engineering graduate of Clemson, S. C., College, while Lt. Gullen received his bachelor's degree in industrial administration from the University of Connecticut.

1st Lts. Safron S. Canja and William C. Wheeler, Jr., and 2nd Lt. James A. Mullin are serving in the Control Office at the Army Rocket and Guided Missile Agency. Lt. Canja received a BS degree in education from Ohio State Uni-

versity; Lt. Wheeler received a BS degree in education from the University of Missouri, and Lt. Mullin received his BS degree in mechanical engineering from Purdue University, Lafayette, Ind.

2nd Lt. Donald J. Pundt, a chemical engineering graduate of the University of Texas, is a project officer in the Training Division at the Army Ballistic Missile Agency.

CWO-2 Eugene M. Krembs is serving as assistant to the system manager for Nike-Zeus in the Maintenance Branch of the Field Service Division at the Army Rocket and Guided Missile Agency.

CWO-2 Fred M. Kester is a communications officer with the Post Signal Division at Redstone Arsenal.

CWO-3 Dewitt H. Mytinger is commanding officer of the 55th

Rhymes of the Times

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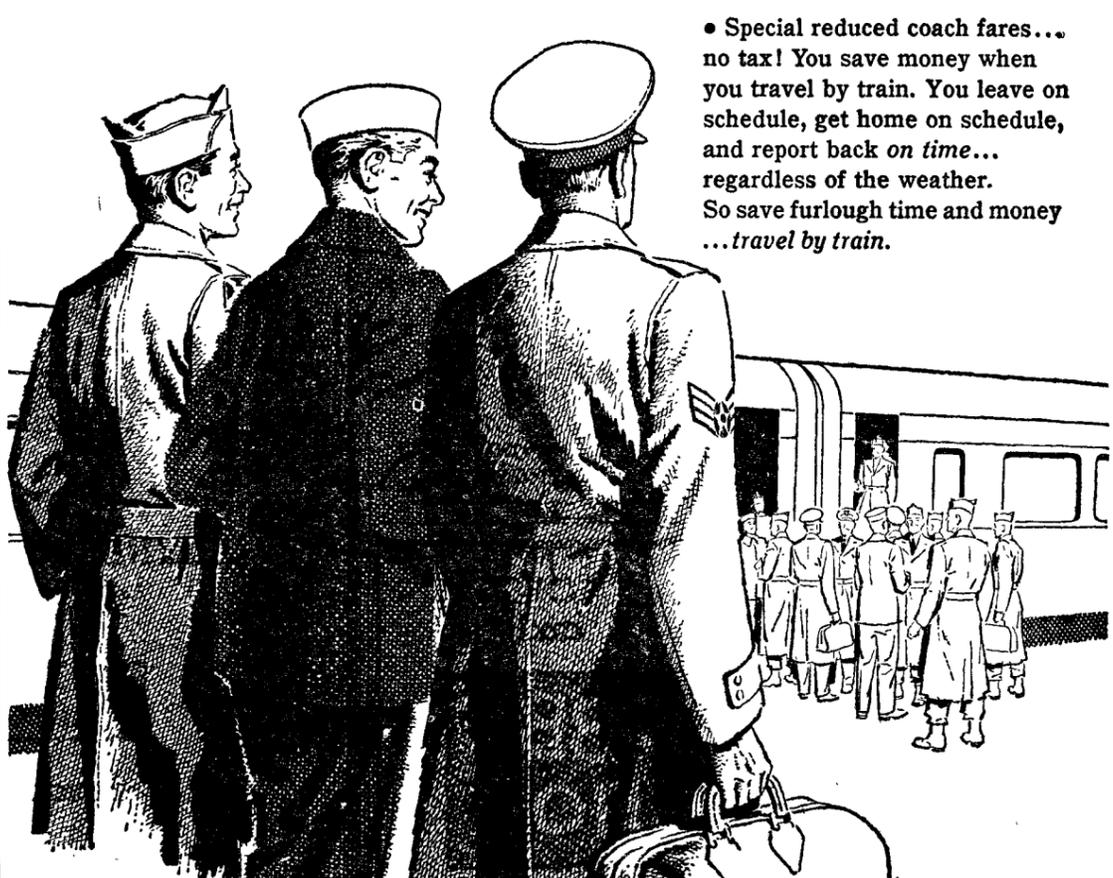
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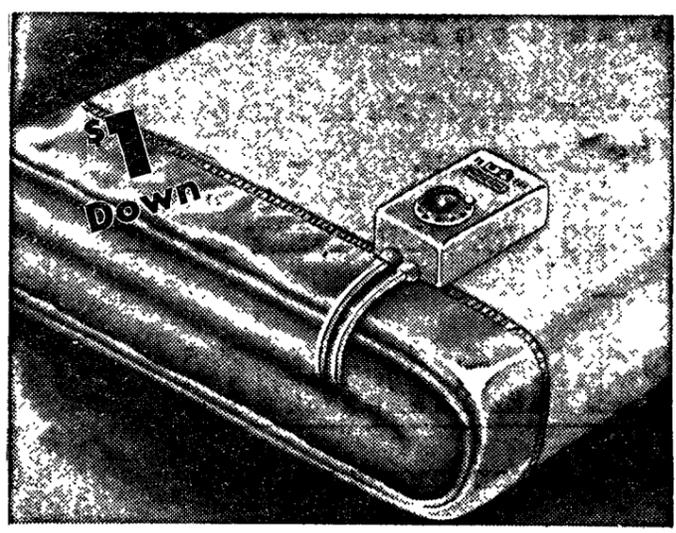
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SPORTS

Greek and Italian Soccer Teams Fight To Standstill, 1-1

Greece and Italy fought to a one-to-one tie here Saturday in the second annual "NATO Bowl" soccer game played for American Christmas charity by students at the U. S. Army Ordnance Guided Missile School.

A crowd of about 1,000 people sat in the rain to watch teams of the Greek and Italian Air Forces stage the unusual match under auspices of the Veterans of Foreign Wars.

Greece scored in the first half when M-Sgt. Alex Korconikitas skillfully bounced a kick off the body of the Italian goal keeper that went into the net.

The Italians evened the score midway of the second half with a kick by Lt. Antonio Cantarella that had been bounced to him off the forehead of a team mate.

Senior officers of 12 Allied nations whose students have attended the Missile School were guests of Col. Charles W. Eifler, Missile School Commandant.

Mayor R. B. Searcy of Huntsville and VFW Commander C. O. Mullins presented the Missile School with a trophy to be engraved with the results of the NATO games in the series which will continue for several years.

SPORTS SECTION WILL SPONSOR BOXING TEAM

The Sports Section of Redstone Arsenal's Special Services Division, interested in sponsoring an Arsenal boxing team, has started a boxing program for military personnel.

Tentatively, the program calls for two or more on-post matches, the results of which will determine the team that will represent the Arsenal in outside competition and in the Third Army's annual tournament.

Six participants are currently working out at the Post gymnasium, where Special Services has provided the necessary facilities equipment and instruction.

RSA BASKETBALL SCHEDULE December 1959

December 9:
3rd ETD vs Officer — 1800
UTC vs. 2nd ETD — 1951
Hq USAG No. 1 vs. Medical Det. — 2030

December 10:
"B" Det ABMA vs "B" Det OGMS — 1800
1st ETD vs. "A" Det OGMS — 2030.

December 11:
291st MPC vs. 2nd ETD — 1800
864th Air Force vs Officers — 1915
3rd ETD vs UTC — 2030

December 14:
"B" Det OGMS vs Hq USAG No. 1 — 1800
Medical Det vs Hq USAG No. 2 — 1915
"B" Det ABMA vs "A" Det OGMS — 2030

December 15:
1st ETD vs 2ND ETD — 1915
864th Air Force vs UTC — 2030

December 16:
291st MPC vs 3rd ETD — 1800
Hq USAG No. 1 vs Hq USAG No. 2 — 1915
"B" Det OGMS vs "A" Det OGMS — 2030

December 17:
"B" Det ABMA vs 2nd ETD — 1800
Medical Det vs Officers—2030.

BASKETBALL SCOREBOARD

"B" Det ABMA 51 — 1st ETD 35.

864th Air Force 49 — Medical Det. 25.

291st MPC 42 — "B" Det OGMS 34.

3rd ETD 35 — Hq. Det USAG No. 2 29.

"A" Det OGMS 47 — UTC 30.

Hq USAG No. 1 46 — "B" Det ABMA 43.

The game between the 2nd ETD and the Officers was postponed to a later date. The games between "A" Det ARGMA and Hq USAG No. 1 and "A" Det ARGMA and the Medical Det. were declared no-contest as ARGMA dropped from the league.

The success or failure of this program will be determined by the amount of interest shown at the beginning.

All interested persons are encouraged to contact either Lt. Edward O. Buckbee, Tel. 3-2501, or Jim Funkhouser, Tel. 3-1500, or report to Sgt. Thomas Williams at the gymnasium.

Capable and experienced instructors will be available for those who have never boxed before but are sincere in wanting to learn.

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Pups Point Because They're Ham Actors

Lawrence D. Maples; pointer puppies are precocious. Maples, a carpenter with the Redstone Arsenal Post Engineer, breeds these bird dogs and is well-known as a successful hunter from New Hope, Ala.

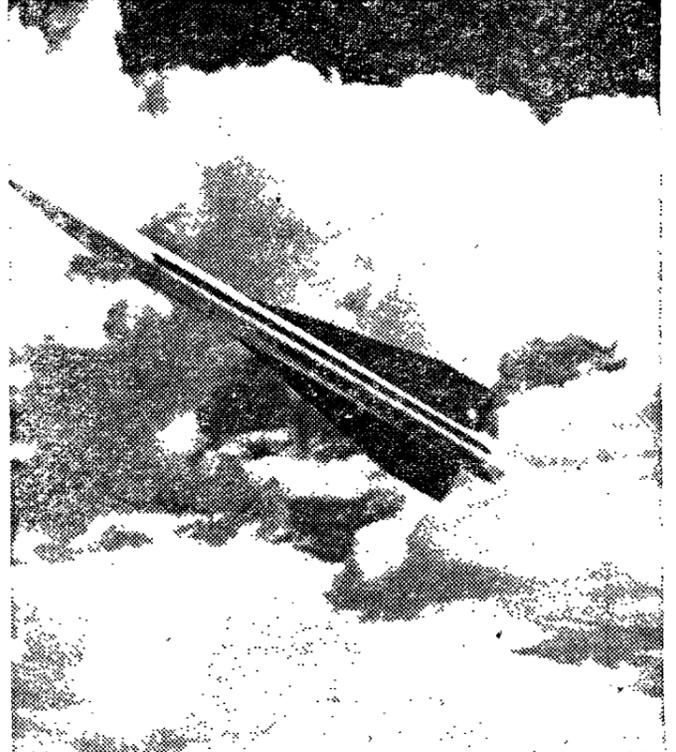
In one litter of puppies, he was recording their actions on film. One little ham actor froze in a point with his five-week-old brother backing him. Maples has the picture to prove it.

Maples is one the Arsenal's original employees. He has worked

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SWOOP OF THE HAWK — Boldly outlined against New Mexico clouds, the modern Army's HAWK (Homing-All-the-way-Killer) blasts off on a missile mission at White Sands. HAWK is designed to intercept invading aircraft flying as low as 50 feet off the ground, an area once considered virtually defenseless because of "ground clutter" that interfered with radar operation.

The lazy lioness opened her eyes one day and saw her little offspring chasing a hunter around a tree. "Junior," she said sharply here since the original construction of Huntsville Arsenal in 1941. "stop playing with your dinner

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Introduction of Guests Mr. J. H. Richards

Remarks Mr. John Flore, Mobile, Alabama

DEDICATION ADDRESS:

Mr. Al Thompson, Inter-Racial Officer, F.H.A., Atlanta Office.

Benediction Rev. H. P. Snodgrass

National Anthem

3:30 p.m.—Hank Aaron—in person—at Edmonton Heights near A&M College



GOLF TROPHIES—Winners in golf tournaments at Redstone Arsenal recently received their trophies from Col. Owen T. McCloskey, Redstone Arsenal Post commander, during a ceremony at the Redstone Golf Course. Above, front row, left to right are: M-Sgt. James E. McClure, golf pro; Capt. Charles Maureri, PFC. Robert L. Remer, Capt. Richard C. O'Brien, Capt. Walter Kasper, Capt. Warren Yost, Col. McCloskey, Capt. George Koebbe, Maj. Rex Javins, and PFC. Bob Soha. In the back row

(left to right) are: PFC Harry Doukakakis, Lt. William Rolston, Lt. William Reynolds, Capt. Russell Simpson, SFC. William Stephens, Maj. Carroll Thompson and M-Sgt. Grady Kennedy. Others receiving trophies who were unable to attend the presentation of awards were: Maj. John Emig, PFC. Bill Foote, Lt. Roy B. McCrorey, Maj. O. D. Street, Lt. H. W. Weiss, Elden Richey, Capt. Clifford Tyler, SP5 Duncan Kinchen, and Col. T. T. Paul.



BETTER THAN EVER as a means of savings are the 3 3/4 percent Series E Savings Bonds. Maj. Gen. Paul A. Mayo, Army Chief of Finance, explained this week that though the face value and the purchase price remain the same, the new interest rate is the result of reducing the maturity period to 7 years 9 months. All outstanding Series E bonds will earn increased interest from 1 June 1959.

COOPS! - A TRANSFER

WASHINGTON, (ANS) — Secretaries please reply — an agent may just want to get the thermo-fax, Mam! Army security agents have warned that thermo-fax copies of classified documents will, under certain conditions, transfer to other type paper upon contact. Circular 380-5 dated 23 Sept., 1959, tells how to avoid contact points.

Births at Post Hospital

Janet Elaine Wilson, 7 lbs., 5 1/2 ozs., Nov. 19, daughter of SP-4



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and Mrs. Ernest P. Wilson.
Joseph J. Berger IV, 6 lbs. 10 ozs., Nov. 19, son of SP-4 and Mrs. Joseph J. Berger III.
Paula Jean Degener, 6 lbs. 9 1/2 ozs., Nov. 20, daughter of 2nd Lt. and Mrs. Richard L. Degener.
James Lloyd Greene, Jr., 7 lbs., 12 1/2 ozs., Nov. 20, son of 2nd Lt. and Mrs. James L. Greene.
Charles Stanley Ward, 8 lbs., 8 1/2 ozs., Nov. 20, son of PFC. and Mrs. Charlie B. Ward, Jr.
Timothy Lee Smith, 6 lbs., 11 3/4 ozs., Nov. 21, son of PFC. and Mrs. Gary L. Smith.
Diana Lynn Brown, 7 lbs., 3/4 ozs., Nov. 23, daughter of A1-C and Mrs. Archie L. Brown, Jr.
Linda Marie Sullivan, 6 lbs., 10 1/2 ozs., Nov. 23, daughter of Ret'd SP-3 and Mrs. Roy B. Sullivan.
Kyle David Burkett, 7 lbs., 3 1/4 ozs., Nov. 26, son of PFC. and Mrs. James A. Burkett.
Michael Gene Williams, 5 lbs., 14 1/4 ozs., Nov. 27, son of SFC. and Mrs. William E. Williams.
Freddie Lee Oary, Jr., 7 lbs., 4 1/2 ozs., Nov. 27, son of Pvt. and

Movie Schedule

Wednesday, Dec. 9, "Vice Raid" starring Mamie Van Doren and Richard Coogan. Time 1815 and 2015.
Thursday and Friday, Dec. 10 and 11, "Operation Petticoat" starring Gary Grant and Tony Curtis. Time 1815 and 2015.
Saturday, Dec. 12, **SPECIAL MATINEE**, "Ghost of the China Sea" starring David Brian and Lynn Bernay. Time 1000.
Saturday, Dec. 12, "Gunfighters of Abilene" starring Buster Crabbe and Barton MacLane. Time 1815 and 2015.
Sunday, Dec. 13, "Four Fast Guns" starring James Graig and Martha Vickers. Time 1400, 1815 and 2015.
Monday, Dec. 14, "Reach for the Sky" starring Kenneth More and Muriel Pavlow. Time 1815 and 2015.
Tuesday, Dec. 15, "Yellowstone Kelly" starring Clint Walker and Andra Martin. Time 1815 and 2015.
Mrs. Freddie L. Oary.
Janice Marie Olsen, 3 lbs., 13 ozs., Nov. 29, daughter of SP-5 and Mrs. Roy S. Olsen.
Trevia Ann Evans, 6 lbs., 10 1/2 ozs., Nov. 29, daughter of Pvt. and Mrs. Harville R. Evans.
Pamela Diane Zacny, 5 lbs., 12 ozs., Nov. 30, daughter of PFC. and Mrs. Robert J. Zacny.
Veronica Ann Martell, 8 lbs., 12 ozs., Dec. 1, daughter of Sgt. and Mrs. Norman R. Martell.
Cheryl Lynn Newsom, 6 lbs., 5 1/2 ozs., Dec. 2, daughter of SP-4 and Mrs. Franklin E. Newson.

Sea" starring David Brian and Lynn Bernay. Time 1000.
Saturday, Dec. 12, "Gunfighters of Abilene" starring Buster Crabbe and Barton MacLane. Time 1815 and 2015.
Sunday, Dec. 13, "Four Fast Guns" starring James Graig and Martha Vickers. Time 1400, 1815 and 2015.
Monday, Dec. 14, "Reach for the Sky" starring Kenneth More and Muriel Pavlow. Time 1815 and 2015.
Tuesday, Dec. 15, "Yellowstone Kelly" starring Clint Walker and Andra Martin. Time 1815 and 2015.

WHITESBURG DRIVE-IN

THURSDAY & FRIDAY

SUSAN HAYWARD *Woman Obsessed*
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MICKEY ROONEY *A Nice Little Bank That Should Be Robbed*
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JOCK MAHONEY GILBERT ROLAND
CINEMASCOPE EASTMAN COLOR

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HERCULES
In EASTMAN COLOR
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THE FIVE PENNIES
Technicolor
MANY GREAT SONGS!
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SATURDAY

STERLING HAYDEN *Shotgun*
YVONNE DE CARLO
ZACHARY SCOTT

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"THE BIG HEAT"
starring **GLENN FORD**
GLORIA GRAHAME
JOCELYN BRANDO

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Ship To Space Devices Follow Missiles' Return

The U. S. Army ship, American Mariner, a converted and refitted Liberty cargo vessel of World War II vintage, is an ocean-going scientific station that provides a wealth of information on the flight characteristics of medium and long-range missiles. It sails South Atlantic waters.

The ship carries a complement of scientists and technicians, and an array of precision equipment for taking optical and electronic measurements of the terminal phases of a missile's flight.

The Mariner is not equipped for transporting missiles and is not intended for missile firing operations. The measurements it obtains are part of the advanced research in ballistic missile defense being managed by the Advanced Research Projects Agency of the Department of Defense.

Contractor Relationships

The Mariner commenced her scientific investigations for ARPA in February 1959, sailing from Baltimore, Maryland for the South Atlantic. On board were more than 100 men including the ship's officers and crew, and members of the technical staffs of American firms who complete the vessel's complement.

The Radio Corporation of America Defense Electronics Products Division, supplied 50 men under the direction of Ralph Lampman, Rear Admiral, U. S. N. (Ret).

A short, jolly and pleasant man, Admiral Lampman is a graduate engineer who is charged with the mission of operating the ship's radar. It is said to be the most sensitive instrument of its kind

afloat.

Consisting of two massive saucer-shaped antennas, the radar can track objects of small size traveling at high velocities.

When the ship is engaged in a mission, the RCA technicians switch on the electrical current supplying the radar, point the device to a point in the sky and follow the trajectory of a moving object. It may be the nose cone, or a piece of the booster or main stage of a missile. They track its movement until it splashes into the ocean and disappears.

Meanwhile recorders permanently chart the behavior of the object. This information is later dispatched to a data reduction facility operated by RCA at Moorestown, N. J. Computation experts convert the data into more readily understandable figures. These help scientists to design more effective devices by which to explore the upper atmosphere and outer space.

Between missions weather measurements are taken. Weather balloons are sent aloft and tracked with radiosondes that report temperatures at high altitudes. They also chart wind direction. This information is relayed to shore weather installations to round out the picture of weather conditions at sea and aloft.

Another group of 50 men aboard the Mariner are employed by Mathieson Tankers Industries of Philadelphia, Pa. They provide the marine service required to operate the ship.

Both the RCA and Mathieson efforts are funded by the Advanced Research Projects Agency

through the Army Rocket and Guided Missile Agency, an element of the Army Ordnance Missile Command and located at Redstone Arsenal, Ala.

Lt. Col. Harry W. Stulting is the Army's representative on the ship. He oversees the operations to insure that contract objectives are satisfied. He maintains close liaison with the Army Rocket and Guided Missile Agency and reports the results of test monitoring.

Fritz Habecker, Rear Admiral, U. S.N. (Ret), heads the technical contingent of six scientists provided by the Barnes Engineering Co., of Stamford, Conn.

This team takes optical and photographic measurements of the missiles, or nose cones, from the time they can be sighted until they impact in the ocean. These measurements supplement the radar scrutiny of the RCA team and are correlated with to verify the radar readings. They also take measurements in different frequencies.

The measurements take cogni-

zance not only of the azimuth or course of the missile but also of its characteristics in flight. Data thus obtained is sent to Barnes Computation Laboratory in Stamford where they are converted into useful forms.

Swift Efficiency

The ship is a scene of well-ordered and swift efficiency when preparing for and executing its missions. Optical and electronic instruments are carefully checked to insure calibration. A device which compensates for the rolling motion of the ship is placed in operation. Radio communication is maintained with shore stations to alert the ship as to the probable point of impact for the nose cone.

As the vigil continues, the radio suddenly crackles and word is rushed to test directors. The object to be tracked is approaching. The radar scanning the heavens finds it, locks on to it and begins to feed data to the recording instruments.

Then a lookout sights the tiny, glowing dot approaching in the sky. Observers see the point of

luminescence grow rapidly in size. The glow becomes a brilliant radiance which bathes the ship in light. It is bright enough to read the smallest print on a newspaper page.

Then, having returned into Earth's atmosphere from outer space after a long flight from Cape Canaveral, Fla., the spent nose cone plunges into the sea. A column of thin steam arises as the water closes over the object, friction heated to hundreds of degrees Fahrenheit.

The scientific findings thus generated include seemingly esoteric but valuable information such as the effects of invasion by missile of upper altitudes, causing displacement of charged electrical fields, and a resultant ionization effect.

Also on board the Mariner is a team of scientists from the University of Michigan, at Ann Arbor, Mich., headed by Dr. Vivian Weston, an expert in light ray propagation. With him are Samuel Harmon, who conducts measurement taking work; Alan D.

(Continued on Page 11)

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Dividend Announcement

% % COMING SOON % %

From Your Board of Directors

Recent revision of the Federal Credit Union Act and our By-laws requires that the annual declaration of a dividend rate be made by your Board of Directors.

To Be Declared in December

The dividend rate will be declared and announced in December.

Dividend earnings will be posted to members' accounts in December in order that members' earnings will be reflected on their fourth quarter statements.

Fourth quarter statements will be rendered as of the close of business December 31, 1959 and mailed shortly thereafter.

REDSTONE FEDERAL CREDIT UNION

Building 3649

Redstone Arsenal, Alabama

Ship to Space

(Continued From Page 10)

Nichols, research engineer, and Robert B. Huxtable, a technician.

In the intervals between missile firings recreational opportunities are provided to the staff and crew. They have television, high fidelity stereophonic equipment, an athletic area, motion pictures, sandwiches and soft drinks. Skin diving equipment and fishing gear are available.

More than half the staff and crew are married. They visit their families whenever the ship returns to U. S. ports for re-provisioning.

Discussing the ship's mission and operations, the Commanding General of the U. S. Army Ordnance Missile Command, Maj. Gen. J. B. Medaris, said: "The Mariner operates with due regard for the safety of other vessels on the high seas. It does this by taking up a position far removed from normal shipping lanes. Normal ship-to-ship and ship-to-shore radio communications insure timely warning to any vessel which might accidentally stray into the zone of operations.

"The Mariner is exclusively assigned to a scientific mission.

EARLY OUTS

WASHINGTON, (ANS) — "Early outs" for eligible officers and enlisted men will see them home for Christmas according to a Department of the Army announcement made recently.

Those due for discharge between Dec. 18 and Jan. 14 will be given their release prior to December 18. Excluded from the policy are six-month RFAs and aliens seeking to qualify for citizenship by completing three years of active military service.

It has no armament. It does not carry missiles. The most dangerous equipment it carries is a trident spear employed by the crew when fishing."

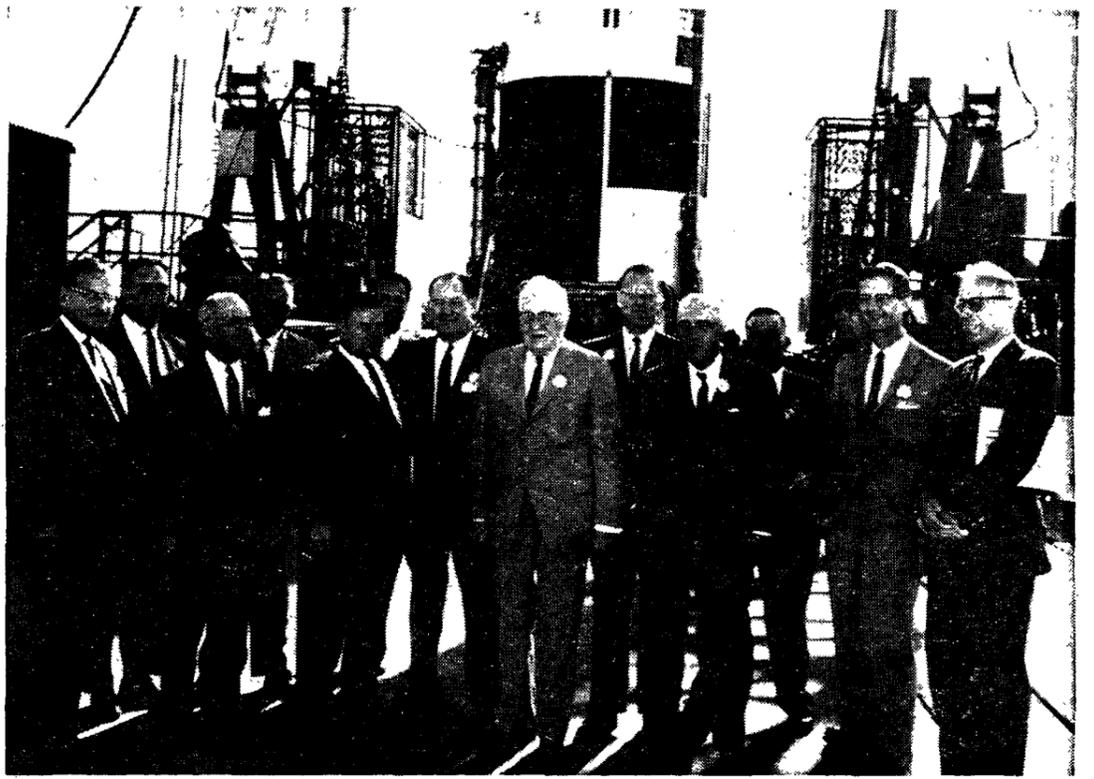
The ship has frequently visited Trinidad, British West Indies and San Juan, Puerto Rico.

At Recife Adm. A. L. Fernandes, Commanding Officer, Third Brazilian Naval District, and Port Commander of Recife, and his staff have extended every courtesy to the Mariner.

The President of Brazil has established a joint military commission which represents his country in all activities involving U. S. operations in the military field. The commission consists of the commander, Fourth Brazilian Army, Gen. Honorato Pradel; Adm. Fernandes and the Commander of the Second Brazilian Air Force, Maj. Brigadeiro Jose DeSoust Prata.

Serving as liaison officer to the commission on behalf of the Atlantic Missile Range of the U. S. Defense Department, Maj. Richard Weir, U. S. Air Force, coordinates the logistical support of the American Mariner and other Missile Range requirements. Cape Canaveral is Station No. 1 of the Range.

The Mariner operates in as-



CONGRESSIONAL, NASA OFFICIALS VISIT CAPE—Members and staff of the House Space and Appropriations committees, accompanied by NASA officials, recently visited the Army Missile Firing Laboratory at Cape Canaveral. The group, shown before a Jupiter, includes, left to right, first row: Rep. William K. Van Pelt (Wis.), Space Committee; Rep. R. Walter Riehlman (N.Y.), Space; Rep. Olin E. Teague (Tex.), Space; Dr. T. Keith Glennan, NASA Administrator; Rep. John Tabor, (N.Y.), Appropriations; Rep. Harold C. Ostertag (N.Y.), Appropriations; Rep. J. Edward Roush (Nnd.), Space; and Rep. Ken Hechler (W. Va.), Space. Back row, left to right: Howard D. Grubb, NASA legislative assistant; John W. Rosenberry, NASA Atlantic Missile Range Office; Robert G. Nunn Jr., NASA assistant general counsel; Melvin N. Gough, director, NASA AMR Office; and Capt. James A. Ross Jr., escort officer, AMR Army Field Office.

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- ★ HOLLY WITH RED BERRIES
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Religious Services

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 Sunday: 1000 and 1115 hours—Morning Worship, general Protestant services.
 Church School — 1000 hours—1st session 4th grade thru Adult Class.
 1115 hours — 2nd session 3 yrs. of age thru 3rd grade.
 Nursery for babies and small children is open during these two services.
 1830 hours — Christian Youth Fellowship, Jr. Hi and Senior Hi. Buses will pick up those attending.
 Tuesday: 1830 hours — Enlisted

Men's Christian Union.
 Wednesday: 1845 hours—Chancel Choir Rehearsal.
REDSTONE PARK COMMUNITY HALL
 Sunday: 0945 hours — Sunday School Classes.
 11 hours — Morning Worship Service.
 Wednesday: 1900 hours—Family Night Service.

JEWISH
 Temple B'Nai Shalom (Corner of East Clinton and Lincoln).
 Friday — 2000 hours—Regular Service. O'Neg Shabbot (Sabbath Social) at Temple Annex.
CATHOLIC
 Sunday: Masses — 0745, 0845 and 1230 hours (Nursery available during Masses)
 Baptisms — 1330 hours (By appointment).
 Teenage Religion Class — 1830 hours.
 Monday: Inquiry Class — 2000 hours.
 Tuesday: Altar Boys' Class — 1830 hours.
 Novena in Honor of Miraculous Medal—1930 hours.
 Choir Rehearsal—2000 hours.
 Wednesday: Mass—1700 hours.
 Saturday: Catechism Classes—0930-1130 hours.
 Confession—1800-1900 hours.
 Daily Mass: 1130 hours (except Wed.)
CHAPEL NO. 2 (A. F. Area)

Safety Scoreboard

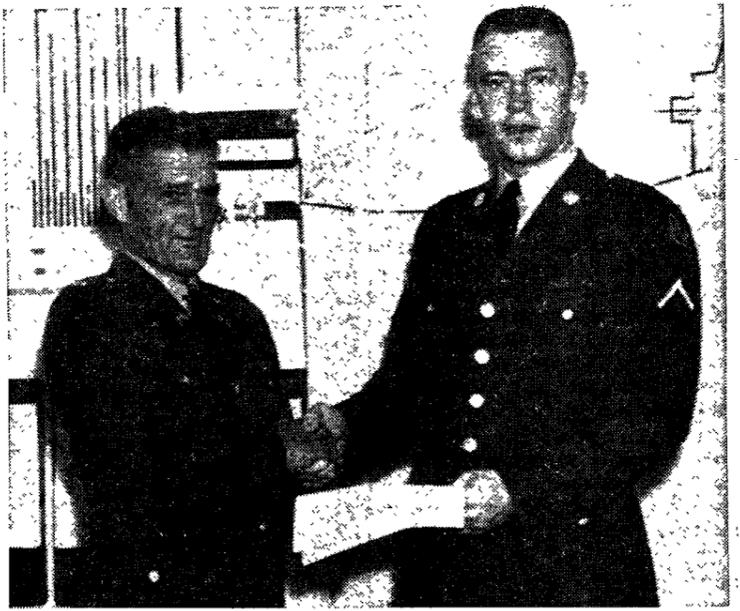
(As of 7 Dec.)
 Days since last civilian disabling injury 14
 Our goal 30
 Days since last military disabling injury 3
 Our goal 30
 Days since last contractor personnel disabling injury .. 44
 Our goal 50
 Days since last government motor vehicle accident 6
 Our goal 30

DRIVING RECORD (Government Vehicles)

(As of 7 Dec.)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	17	43
Post Engineer Div. (RSA)	20	23
Provost Marshall Div. (RSA)	23	16
Depot Operations (RSA)	15	74
All Other RSA	10	6
Thiokol (ARGMA)	17	6
All Other ARGMA	7	98
OGMS	11	132
ABMA	9	18
Sunday: Mass (Italian)	1100	hours.

CHRISTIAN SCIENCE SERVICES
 Sunday — 1100 hours—Held in Huntsville at White St. and Wells Avenue.
 Wednesday meeting—1930 hours



MILITARY POLICEMAN OF THE MONTH—PFC. Thomas J. Minor (right), shakes hands with Lt. Col. Dean H. Jones, Redstone Arsenal Provost Marshal, and holds a letter of commendation awarded him as the Post's Military Policeman of the Month. Alertness, appearance, and soldierly conduct are some of the factors that helped the MP attain this coveted position.

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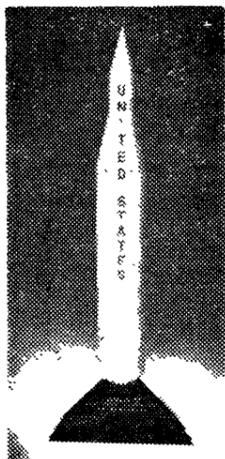
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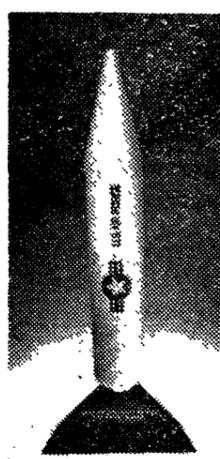
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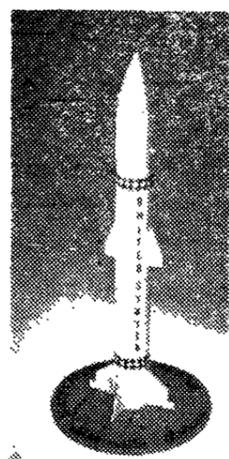
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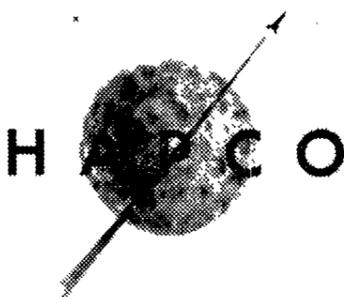
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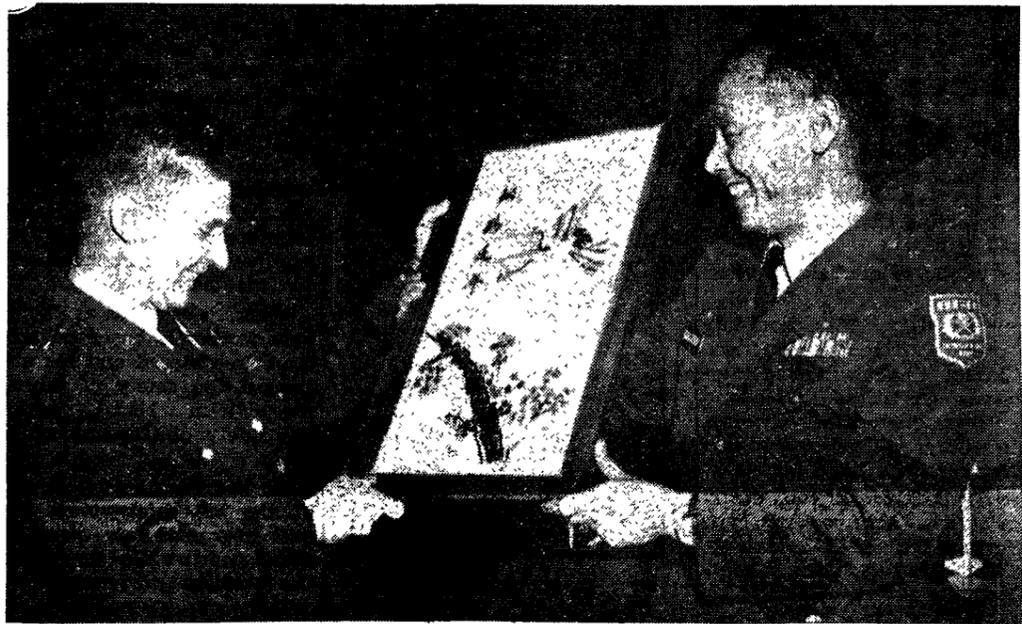
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ANCIENT CHINESE SYMBOLS OF LONGEVITY, embroidered in colors on white silk, were an unexpected gift last week as Col. Charles W. Eifler left, commandant of the Army Ordnance Guided Missile School, observed his 45th birthday. Lt. Col. Tien-Lin Wu, senior officer of the First Missile Battalion of the Republic of China, presented the framed embroidered length of silk at a surprise ceremony at OGMS headquarters. Pine trees and a crane, symbols of long life and prosperity derived from the philosophy and folk lore of ancient China, are embroidered in appropriate colors on the white silk.

Love: The only game in the world which players like to remain on the bench. It is also the only game which is never called off on account of darkness.

ARS Names Directors, Committees For 1960

Directors and committee chairmen of the Alabama Section, American Rocket Society, have initiated plans for the new program year.

The Section's directors are: Milton Anderson, Brown Engineering Co.; Rodney Stewart, of Thiokol; David Newby, NASA; Jo-

seph Boehm, Glenn Deuel, Karl Heimburg and Gordon Artley, Army Ballistic Missile Agency; Cliff Fitton and Niles White, Army Rocket and Guided Missile Agency.

Konrad K. Dannenberg of ABMA, newly installed president, has appointed these committee chairmen: Rogers McCauley, Thiokol, program; Fred Stewart, Chrysler, arrangements; Rodney Stewart, awards; Charles M. Mit-

STRAC GETS SERGEANT

WASHINGTON, (ANS) — The SERGEANT missile now strengthens the backbone of STRAC — it's gone airborne and can be air-

transported anywhere in the world to give the Corps added fire support.

In the same disclosure recently, the Army announced that it has, literally, put brakes on the SERGEANT in order to guide it with pinpoint accuracy to its target on a modern battlefield. This has been done by use of a set of drag brakes — fins or vanes which extend and retract from the body of the missile.

chell, ABMA, newsletter; Milton Anderson, membership; C. L. Harris, AOMC, publicity.

James W. Lee of Thiokol is secretary and Gerald Guinn, also of Thiokol, is treasurer.



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- (F) 752R7280 Three-Suiter—26x19x8½" Now \$72.80

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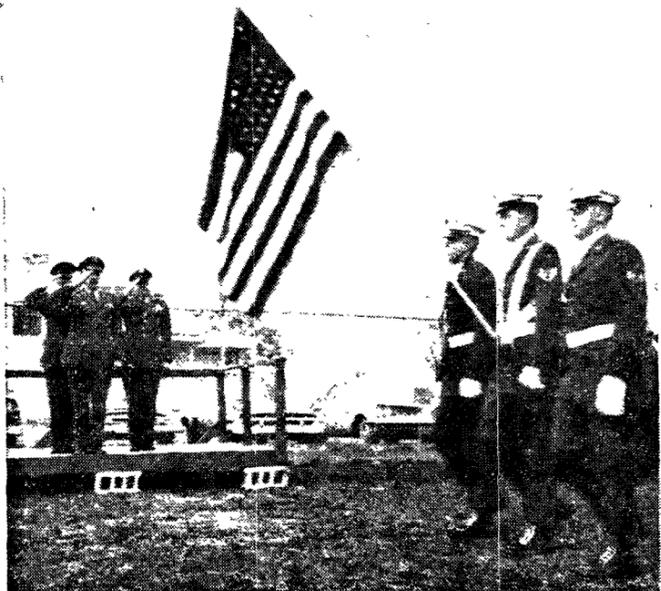
phone: JEFFERSON 6-8591 before noon to arrange for money the same day!

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\$360.00	\$314.28	\$20.00	\$45.72
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504.00	442.39	28.00	61.61
684.00	607.52	38.00	76.48
900.00	805.69	50.00	94.31
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COL. ERLENBUSCH HOLDS FAREWELL REVIEW, PARADE

With 2 color Salute the Colors Col. William C. Erlenbusch, commander of the Air Force 864th Technical Training Squadron, recently conducted a farewell review and inspection of the 864th prior to departing Redstone Arsenal for an overseas assignment.

The 864th was the first Air Force unit formed to deploy intermediate range ballistic missiles. It was trained at the Ordnance Guided Missile School here in cooperation with the Army Ballistic missiles. It was trained at the Army Ballistic Missile Agency, the organization that developed the Jupiter IRBM.

Col. Erlenbusch has been the only commander of the 864th. He organized the unit here in January, 1958.

Prior to his re-assignment, the colonel was presented the Legion of Merit by the Commander of the 1st Missile Division, Vandenberg, AFB, Calif., for his outstanding work in organizing and training the squadron.

Special Services Activities

POST SERVICE CLUB OPERATING HOURS

Monday thru Saturday 1000-2200

Sunday and Holidays 0900-2200

POST LIBRARY OPERATING HOURS

Monday thru Friday 0900-2200

Saturday and Holidays 1000-2200

Sunday - 1200-2200

CRAFTS SHOP OPERATING HOURS

Monday thru Friday 1000-2200

Saturday and Holidays 0800-1630

Sunday - Closed

RSA BOWLING LANES OPERATING HOURS

Monday thru Saturday 1200-2200

Sunday and Holidays — 1300-2100.

POST GYMNASIUM:

Monday thru Friday 1300-2100.

Saturday 0900-1630.

Sunday and Holidays 1300-1630.

GOLF COURSE OPERATING HOURS

Saturday, Sunday and Holidays 0730 until dark.

All other days — 0800 until

Chapel Choir, Junior Choir Will Present Christmas Program

The Redstone Arsenal Chapel Chancel Choir and Junior Choir will present a program of Christmas music on Sunday evening, Dec. 13, at the Chapel, beginning at 7:30 p.m.

The public is cordially invited to attend.

Approximately 75 choristers will participate in the program. The Junior Choir will sing miscellaneous Christmas selections while the augmented Chancel (Senior) Choir will present selected choruses from "The Messiah."

Mrs. D. D. Maynard will direct the program. Accompanists will be Warrant Officer D.H. Mytinger on the organ and Mrs. Russell Boyd on the piano.

Mrs. John Keeling, Lt. Richard Benito, Mrs. DeWitt Mytinger, and Pvt. Richard W. Krussieg will be featured soloists during the program.

Ohio State Offers Award for Book On U. S. Security

Columbus, Ohio (AFPS)—Members of the military and their dependents are eligible to compete for a \$2,500 award from the Ohio State University's Mershon Committee on Education in National Security for the best book-length manuscript on a topic dealing with national security.

The winning manuscript will be printed by the OSU Press and royalties will be paid to the author. A deadline of April 1, 1960, has been set for the submission of manuscripts.

The committee's announcement

TENNESSEE RIVER PICNIC AREA

Weekdays — 1300-2100. Saturday, Sunday and Holidays — 0900-2100.

For reservations of more than two tables, contact the Sports Section, ext. 2943.



C. C. WALKER

Cecil Walker Named Safe Worker of Week

Cecil C. Walker, employed in the DOD Structures and Mechanics Lab, Propulsion & Mechanical Branch, Experimental Mechanics Section, ABMA, has been selected as safe worker of the week by the Redstone Safety Division.

Walker was born at Hugo, Oklahoma and settled in Alabama at

said.

"In offering this award, OSU is seeking to create an awareness of the problems of our national security and to stimulate ideas which will contribute to their solution."

It said further that manuscripts need not be limited to a discussion of "the military threat," but can cover other aspects of the problem — economical, political, ideological, scientific or diplomatic.

Additional information on the award may be obtained from Prof. Robert J. Nordstrom, Chairman, Mershon Committee on Education in National State University, 1659 N. High St., Columbus 10, Ohio.

an early age. He is a graduate of the Rison High School, Huntsville. He came to Redstone in September of 1950 and worked as a maintenance mechanic, Post Engineer Section and was assigned to his present duty station in 1954.

In his present duties Walker is engaged in the building of test stands for testing of mechanical missile components and systems, and participates in the conduct of various tests.

Walker's selection as this week's safe worker is based on an accident free record and his attitude toward the safety of other personnel with whom he works and the safety of Government equipment.

He has been an active member of the lab safety team for the past year and has contributed many worthwhile suggestions to the accident prevention effort.

Walker is married to the former Miss Gracie Robertson of Huntsville. The family is well rounded out with nine children and one grandchild. He makes his home at 611 McKinley Ave, in Huntsville. His main hobby is hunting and fishing.

FOR SALE

RISON AVENUE

3 room furnished house, work shop in rear. \$5,500

EQUITY SALE

Marks Drive — 5-room house on 75x167' lot, payments \$52.19 per month.

TRIANA BLVD.

3 bedroom house, 100'x150' lot. \$9,500

COLORED PROPERTY

Weatherly Road — near Green Mt., 4-2/10 acres land with 6 room house. Small down payment, balance \$50.00 monthly.

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Drive north on Parkway—to Medaris Road—turn left to model homes—Call JE 6-2301.

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WANT AD RATES — \$1.50 minimum, per weekly insertion, covering first 25 words. 4 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. Mail copy with payment to Mrs. Zillah Newsome, P. O. Box 346, Huntsville. Deadline is Monday, 9 a. m. for the week's edition.

EQUITY SALE — Three (3) bedrooms, two (2) bath, Carport, Utility Room, Brick Construction, near Parkway Shopping Center, Kirkwood Subdivision, 109 Wingate Ave., Jefferson 6-4736. 12-23p

FOR RENT — 5 room house with bath, carport and storm pit. 1 mile east of Cotaco High School. \$50 per mo. Harold McAnally. 12-30p

FOR RENT — Furnished 3 room efficiency apartment, private bath, including TV, phone, electricity. \$85 per month, Monte Sano Blvd., phone JE 4-6139. 1tc

3 ROOM nicely furnished brick apartment with utilities and private bath. Electric heat and air-condition. Ideal for working couple. 2303 Andrew Jackson N. E. Phone JE 4-0945. Mrs. Pell. 1tc

COCKER PUPPIES — AKC registered. Ideal Christmas gifts. \$25.00 and \$35.00. Call Bill Steele, Thiokol, ext. 6-6641 or JE 4-6849. 1tc

APARTMENT FOR RENT — Four nicely furnished rooms, bath with shower, electric heat, air condition, off street parking, utilities included, Southeast Huntsville, near Gate 3, available immediately, shown by appointment only, ideal for couple or 2 or 3 men. Phone JE 6-3339. 1tc

FOR SALE — Chihuahua puppies, male and female, phone Redstone ext. 3-7383 duty hrs., Athens 1352-J nights, Mitchell. 1tc

FOR SALE — Pump organ (approximately 1860), Electronic pool table; sectional mahogany bookcase, 6 antique caned chairs. Phone JE 4-6139. 1tc

ADLER (German) portable typewriter with case, can be used for either English or German. \$35.00. Girls Schwinn 24 inch bicycle \$15.00. Phone JE 6-6134. 1tp

HOUSE FOR RENT — Completely furnished, gas heat, lights, water, telephone, maid service, exclusive S. E. Huntsville. Convenient to everything, suitable for 3 or 4 officers or gentlemen. Phone JE 2-5704. 1tc

COSMETIC WISE, "Laina Greer presents" is a service for M' lady's personal grooming. Vergie Robinson, trained consultant is available for home appointments. A U.S.P. Standard hypo-allergic product. Phone Mrs. Robinson, JE 2-3339. 1tc

WHY PAY RENT? Live in a modern duplex home while your neighbor pays all expenses. Call NOW . . . JE 2-2652. 1tc

JOHNSON MOTORS; Glasspar, Crosby and Lone Star Boats; Trailers—Trade and Terms. Automotive Parts and Marine Co., 813-17 Meridian St., phone JE 6-7882. 1tc

ABS SECRETARIAL SERVICE— Personal, business and legal typing. Mailing service (Christmas cards, club news, convention announcements, etc.) Mimeographing (post cards, office forms, Church bulletins, etc.) Tel. answering service. Office 528 Madison St., So. Phone JE 4-6451, Home phone JE 4-6433. 1tp

APARTMENT FOR RENT — 410 Holmes Ave., new brick, attractively furnished, electric heat, air conditioned, off street parking, 2½ blocks from town, couple or men. Call JE 6-3786. 1tc

FOR RENT — Two room furnished apartments, lights, hot & cold water furnished. Use of phone included. Miss Arvie Pierce, 601 Holmes Ave., N. E. Phone JE 2-5763. 12-10p

FOR RENT — Nicely furnished 2 BR Trailer, convenient to arsenal and Shopping Cent-r. \$20. per week. JE 6-9717. 1tp

FOR SALE — 1949 PLYMOUTH Tudor. Fairly good condition. \$150. Call Colonel Devine, Redstone Ext. 5-8345. 1tp

HOUSE TRAILER FOR RENT — Extra clean, 1 bedroom, air condition trailer. Located in White-way Trailer Park. \$75.00 per mo. with utilities furnished. For further information call ED DAUGHERTY, Ext. 3-5101 or JE 6-5747. 1tp

NEW BRICK, unfurnished, 2 bedroom, duplex, hardwood floors, ceramic tile bath, private driveway, close to bus and schools in southeast Huntsville. JE 4-0467 or JE 4-1927. 12-23p

FOR SALE — 1953 Plymouth, 6 cylinder 2 tone 4-dr. sedan, radio and heater, very clean and in good mechanical condition. Must be sold. Best offer. Triana Mobile Home Court, Lot 75, next to Gate 5. 1tp

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. 1tc

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 Masseur in charge. Phone JE 2-2444. 1tc

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Drive out and see our display of quality home furnishings at wholesale prices. Our low overhead permits us to give you extra discount savings. Ask about our easy pay plan. Furniture Outlet Store, Meridianville, Ala., phone JE 6-6857
Go Out-a-way — Less-to-pay 1tc

HOUSE FOR SALE — 2909 Mal-lory Ave., Country Club Estates. 3 bedrooms, dining room, 1½ baths, carport, pay reasonable equity, assume FHA mortgage, owner being transferred Dec. 1. Phone JE 6-7318. 1tc

ROCKET CITY UPHOLSTERY & REFINISHING CO. — Specializing in furniture upholstery refinishing only. Free estimates in the home, pick up and delivery. All work guaranteed. Easy terms. The jack of all trades is master of none. Call the man who knows furniture. Phone JE 4-9696 days or JE 6-7220 nights Ask for James Dulin, 2500 Oakwood Ave. 1tc

SAINT BERNARD PUPPIES — A.K.C. Registered. Day phone Thiokol Ext. 6-6351, home phone 368M. Herman H. Floyd, Rt. 4, Box 88, Athens, Ala. 1tp

WANTED. One passenger to share drive and expense to Jacksonville, Fla., December 24. Will return to Huntsville January 2 or 3. Call JE-64856 After 5 p.m. 1tp

HOUSE FOR SALE — MONTDALE, brick ranch home, 3-bedroom, 1 bath, dining room, large kitchen, 1409 Glenwood Drive, JE 6-7180. 1tp

HOUSE FOR RENT — Near Somerville. \$65. Newly built. Three bedrooms, one bath, large paneled living room, cedar closets, electric heat, large kitchen, 2-car carport. JE 9-5643. 1tp

FOR SALE — Viking Tape Deck 85 Esq., has heads for half tract stereo, erase and record plus quarter tract stereo playback, used 1 year. Price \$135.00. Pho. JE 6-7781. 1tc

MUST SELL — Transferred overseas 1957 2 bedroom (Hicks) trailer, like new; Colored appliances, automatic washer, air conditioner and extras. Ogles Trailer Court Lot 57 JE 9-4777. 1tp

FOR SALE — Volkswagon 1958 Deluxe Sedan can be seen any day at building 4610 \$1295. 1tp

FOR SALE — Maytag gas stove, dutch oven, stereo-amplifier and pre-amp. Call Redstone extension 3-2818. 1tc

FOR SALE — 1958 Volkswagon, excellent condition, radio, heater, whitewall tires. Phone Redstone ext. 3-5868 or 3-5869. 1tc

FOR SALE — Westinghouse Laundromat. Good condition. \$50. Phone JE 6-1687. 1tp

LARGE HOME — Seven rooms, air conditioned, built-in kitchen, mahogany den with patio, two baths, garage, carpeting and hardwood floors. Large equity. 1714 Clubview Dr. N. W., JE 6-5205. 1tc

WILL PAY for privilege of hunting—dove, quail, ducks. Call Ext. 3-1500. 12-16nc

FOR RENT — 5-room unfurnished apartment at 1122 Wellman Ave., near schools, \$75.00 per mo. Phone JE 4-9311 or JE 2-5697. 1tc

HOUSE FOR RENT — Available now, 4-bedroom 2-story brick home, desirable corner location in Decatur, spacious lot, double carport, patio. Partially furnished, including drapes, wall-to-wall carpeting, central gas forced air heat, completely air conditioned. Excellent condition. Owners will be abroad two years. Shown by appointment. Phone EL 3-0729, or Arsenal Ext 3-1505 and ask for James C. Lynch. 1tp

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DECORATE FOR CHRISTMAS
The Redstone Arsenal Officers Wives Garden Club will present the Garden Club plaque to the most outstanding outdoor Christmas decoration.

Judging and award of the plaque will be on Monday, Dec. 21.

FOR SALE — Hallicrafter S-40A short wave radio, good condition, phone Tony, JE 6-5581, extension 436 1tc

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Real Estate Transactions

In any real estate transaction an exact description of the property is very important. Instances do occur occasionally where a person has purchased a lot, built a home on it and lived there, only to find that his deed covers a different location. More frequently, the faulty description results in the purchaser's tardy discovery that he has acquired less property than he thought he was buying. It is usually advisable to obtain a survey.

Of course, the contract should state clearly the amount of the purchase price and how it is to be paid. Care should be taken in connection with an existing mortgage (one already on the property) and a purchase money mortgage (one which the purchaser gives to the seller in place of cash) to state the terms in detail.

The time and place of the delivery of the deed, commonly called the closing of the title, should also be stated in the contract and provisions must be made for the apportionment or adjustment, as of the closing date, of rents, interest on mortgages, insurance premiums, taxes, and utility charges. Sometimes the contract will contain a provision making the purchase of the property conditional on the ability of the buyer to obtain a certain mortgage.

Form of Deed

The contract should also specify the form of deed to be delivered at the closing—it may be what is known as a warranty deed, a bargain and sale deed, or a bargain and sale deed with covenant against grantor's acts. This is a technical matter and the parties will rely on the advice of their attorneys as to what form of deed the seller should be expected to deliver, and what form the buyer may safely agree to accept, under the circumstances of the particular case.

After the contract has been signed, the purchaser must undertake the examination of the title he has agreed to buy. This requires a search of the public records of instruments that may affect the title and requires such experience that it can safely be done only by one especially skilled in real estate law.

The best evidence of title is an original grant from sovereign authority followed by a succession of conveyances in a regular chain from the original owner to the last possessor. Frequently, there is a lapse in the chain of title due to the death of the record owner and it then becomes necessary to examine probate proceeding or identify the heirs of the deceased owner to ascertain if there are any outstanding interests. Or there may be a break in the chain due to foreclosure of a mortgage or of a tax or other lien, and this requires reference to the particular legal proceeding in order to trace the title.

Complete Chain of Title

Even after the chain of title has been completed there may be other things which adversely affect the title, such as liens or encumbrances. The title examiner must search for these.

Some of the common liens are mortgages, taxes and assessments, mechanic's liens, judgments de-

cedent's debts, estate tax, and corporation franchise tax. Possible encumbrances include easements, covenants and restrictions, zoning restrictions, and governmental regulations as to use and occupancy. Specialized legal training is required for the determination and interpretation of the

legal effect of these various matters.

In every community there are lawyers who have the necessary skill and technical training to perform the service of examination efficiently.

Abstract of Title

The title examiner prepares a transcript of the chain of title containing a list of the prior transfers of the property by deed or other conveyance, a statement of all mortgages placed against the property with the disposition which has been made of them, and any other circumstances which may affect the record owner's rights in the property. This tran-

script is referred to as an "abstract of title." The abstract requires careful analysis, and sometimes further investigation, to make sure that the title is clear.

If the examination of the title discloses any liens and encumbrances not contemplated by the contract of sale, they are brought to the attention of the seller's attorney so that they may be removed or adjusted before the closing date.

Closing the Title

The closing itself must follow exactly the provisions of the contract of sale. The attorneys for the parties will together compute the usual adjustments in accord-

ance with the provisions of the contract and will prepare a closing statement showing the amount owing by the purchaser to the seller, as adjusted.

The deed and purchase money mortgage, if any, will be examined to see that the terms of the contract have been followed, and that they are properly drawn and executed. Usually other technical considerations will arise which require discussion and, occasionally, argument. Often the proceeding of closing a title is a long and tedious one.

The foregoing demonstrates generally the many problems faced in any transfer of real estate.

Smokey Says:



Forest fires ruin good fishing—take care!



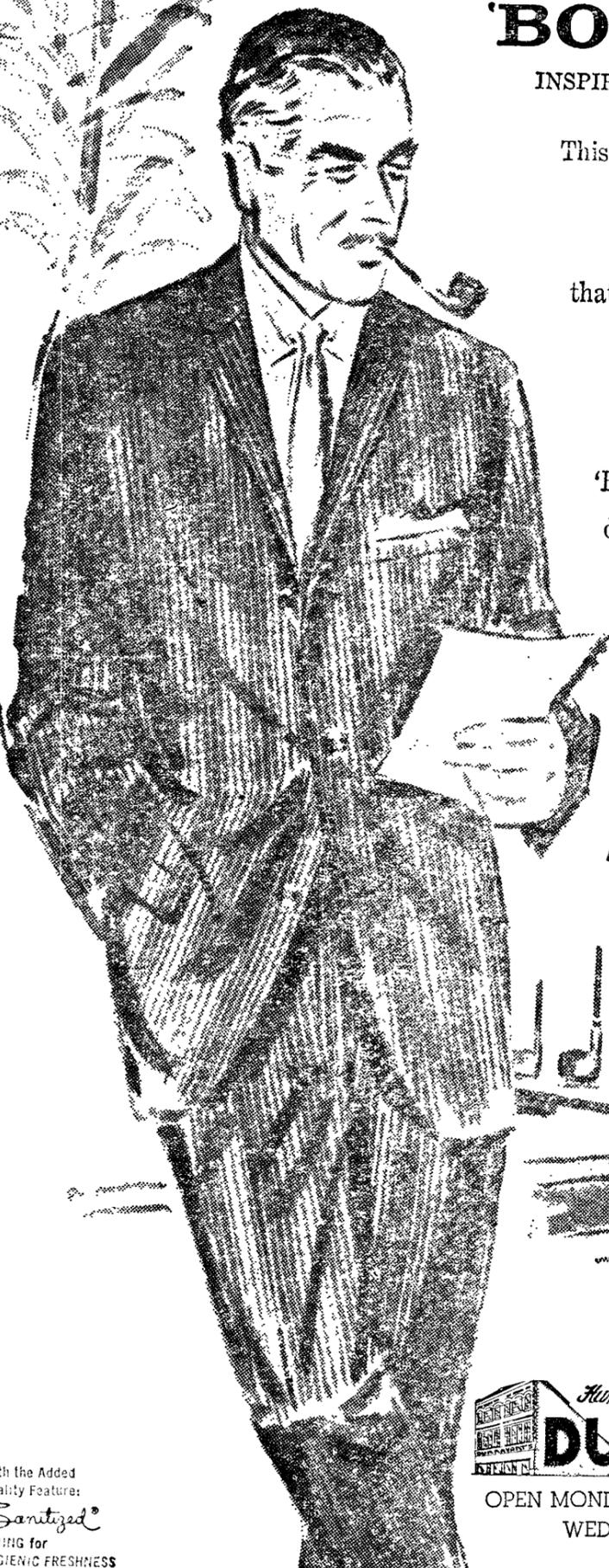
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BRIAR BROWN

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This Fall a deep, rich color bows into the world of men's fashions—
BRIAR BROWN. It's a subtle color that accents the male look... a look that is never conspicuous, but always noticed. And, as you'd expect, BRIAR BROWN 'BOTANY' 500 suits are superbly designed and tailored by Daroff.

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