

The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Hartselle, 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.

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

NOVEMBER 2, 1960

COL. ZIERDT SAYS

Development of Zeus Can Mean Difference Between Winning and Losing War

His Article Appears In Current Issue Of The Army Digest

The man supervising development of the Army's Nike Zeus anti-missile missile system says it could mean the difference between winning and losing a nuclear war.

Col. John G. Zierdt said in an article on the Nike Zeus in the issue of "The Army Information Digest" out today:

"An operational Nike Zeus defense of the United States means that the aggressor will not be able to salvo his missiles with confidence that his first punch will be a straight right to our chin.

"Nike Zeus could save millions of American lives, many industrial complexes and cities and provide the difference between who 'wins' and who 'loses' a nuclear war—a war in which only the winner survives."

Col. Zierdt commands the Army Rocket and Guided Missile Agency at Redstone Arsenal. ARGMA is the Army Ordnance Corps' technical supervisor for the Nike Zeus program. This anti-missile system is the only one in an advanced stage of development designed to defend the United States against the threat posed by intercontinental ballistic missiles carrying hydrogen bombs.

Reporting on system progress to date, Zierdt said the Army believes that Nike Zeus is now ready to be ordered into production.

The Army-Industry team engaged in its development has found "that while technological advances are mandatory, nothing required for the Nike Zeus system is beyond the state of the art." He said the development program has moved ahead "rapidly and on schedule."

"Equipment has been developed, fabricated, installed and made ready for testing. There have been significant technical breakthroughs." (See DEVELOPMENT on Page 3)

UGF DONATIONS ARE UP \$2.50 OVER LAST YEAR

As the fourth week of the UGF drive closed, reports revealed that individual contributions averaged more than 2½ dollars above those at the same point in last year's drive.

The percentage of Fair Share dollars collected climbed to 63%. Fair Share at the Arsenal is only 80% of a day's pay compared to many surrounding communities whose goals are far more than a day's pay.

Somewhat dimming the contribution picture is the fact that 12 percent less persons, based on the total working population, are supporting UGF than at this point last year.

Collection of pledges at the fourth week report stood at 83%.

The first agency to break above the 100 percent mark in Fair Share cash collections was Rohm & Haas whose percentage stood at 104. Close behind was the Air Force with 100 percent collection. The second largest group in the UGF organization, ARGMA, has attained 90 percent of its Fair Share dollars. The rest of the agencies and their percentage of collections include Thiokol, 88; AOMC, 81; ABMA, 80; RSA, 66; Troop Command, 56; OGMS, 46; Area Engineers, 32, and other contractors, 29.



COL. J. G. ZIERDT
ARGMA Commander



AUSA Meeting Scheduled In Huntsville Thursday

One of the nation's youngest corporation executives will address the first open meeting of the Tennessee Valley Chapter of the Association of the U. S. Army on Nov. 10.

Thomas V. Jones, 40-year-old president of the Northrop Corp. will speak at the meeting to be held in the auditorium of the Huntsville Utilities building, beginning at 7 p.m.

Free tickets will be available



THOMAS V. JONES

at various points on Redstone Arsenal and in downtown Huntsville. Should the demand for tickets indicate too large a crowd for the auditorium, the meeting will be held in the Community Center.

According to A. A. "Tony" Demetriou, chapter president, meetings of this type will be held approximately every two months in the future. He pointed out that the chapter, now entering its second year, is one of the largest in the national association and should begin to take a more active part in support of Army programs, particularly those which affect the Huntsville area.

Louis Grabensteder, vice president, reported to the chapter's board of directors in a recent meeting that the annual membership drive had boosted membership to approximately 3000. (See AUSA on Page 2)

REPRESENTATIVES OF TEN COUNTRIES VISIT AT ARSENAL

Ordnance officers from ten foreign countries visited Redstone Arsenal, Tuesday, as part of a nation-wide tour of U. S. Army Ordnance installations.

The group arrived in Athens by train from Birmingham and was met and escorted to Redstone by officials of the Army Ordnance Missile Command and the Ordnance Guided Missile School.

The eighteen officers represent: Chile, Taiwan, Thailand, Japan, Jordan, Italy, Spain, Honduras, Peru and France.

Since beginning their tour Oct. 16, the officers have visited the Pentagon; Aberdeen Proving ground, Md; the Detroit Ordnance District, which included a tour of the Ordnance Tank-Automotive Command in Detroit; Joliet Arsenal, Joliet, Ill.; Rock Island Arsenal, Ill.; and the Anniston Ordnance Depot.

From Redstone Arsenal, they will go to White Sands Missile Range, New Mexico, for one day before returning to their homes.

The tour is part of the Army's Military Assistance Program which provides for orientation of allied personnel in programs of mutual interest.

Ranking officer with the group is Major General Ch' i-t'ang Chou, Acting Director of the Ordnance Research Institute, Taiwan.

During their stay, the visitors heard briefings on the missions and functions of AOMC and OGMS. In addition, they viewed the training facilities of OGMS and took a guided tour of the Arsenal.

Raytheon Receives \$2 Million Contract

The Department of the Army Monday announced the award of a \$2,973,976 contract to the Raytheon Corporation of Waltham, Massachusetts.

The contract provides for additional engineering services on the HAWK missile system. Work will be done at Raytheon's Andover, Massachusetts, Missile Systems Division. The contract extends the present agreement through December 31.

Hawk was developed under the supervision of the Army Rocket and Guided Missile Agency. The supersonic Hawk is designed for use against low-flying enemy aircraft. It is presently deployed in Panama Canal Zone and will soon be replaced around Washington, D. C., and New York City.

Eight Receive Honors During Retreat, Review

Chrysler Receives More Funds For Jupiter Work

The Department of the Army Oct. 28 announced the award of a \$1,554,012 contract to the Chrysler Corporation.

The contract provides additional funds to an existing contract for engineering services on the Jupiter Intermediate Range Ballistic Missile system. Work will be performed at the Michigan Ordnance Missile Plant, Stirling Township, Mich.

The contract is administered by the Detroit Ordnance District.

Advisory Committee Tours Southwestern Army Installations

The Huntsville Army Advisory Committee departed from the Municipal Airport early yesterday morning for a six-day visit to military installations in the Southwest.

This visit, arranged by the Army Ordnance Missile Command, is the second in recent months. In June, the group toured the Army's facilities at Cape Canaveral, Florida.

Today, the group is visiting the Army Air Defense School at Fort Bliss, Texas. Thursday will be spent at the White Sands Missile Range. There the committee will hear briefings on the missile range's activities and responsibilities, tour the installation and see some of the operations connected with missile and rocket testing.

Friday, they will visit Holloman Air Force Base, New Mexico, where a high-speed sled used in testing man's reaction to rapid acceleration and de-celeration will be demonstrated.

Included in the group are Mayor R. B. "Speck" Searcy; M. B. Spragins, committee chairman; and Jack M. Langhorne, publisher of the Huntsville Times. Escorts from the Arsenal are Colonel Lester H. LeVine, Deputy Commander of Redstone; Stephen B. O'Dea, Deputy Information Officer of the Army Ordnance Missile Command; and Ralph Perrill, Redstone Community Relations Officer.

The group of 27 will return to Huntsville Sunday evening.

GEN. SCHOMBURG REVIEWING OFFICER

Parade Is Last One Scheduled This Year

Eight retiring military men received honors during the "Retreat Parade and Review" held Friday night at the Arsenal Parade Field.

Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command, was the reviewing officer.

The eight retiring are: Maj. Jesse A. Garner, Troop Commander for the Garrison and his executive officer, Maj. Thomas F. Gannon; Capt. Samuel M. Callaway, Chief, Pictorial Branch, Post Signal Division; Maj. Fred E. O'Brien, Chief, Office of Operations, OGMS; Capt. Melvin L. Flowers, Air Force; CWO Clifford A. Van Pelt, Chief, Nike Engineering Branch, Field Service Operations and CWO Louis A. Daubenspeck, maintenance supervisor on surface to air missile systems, both in ARGMA; and First Sergeant Frederick A. Harris, Det. B, ABMA.

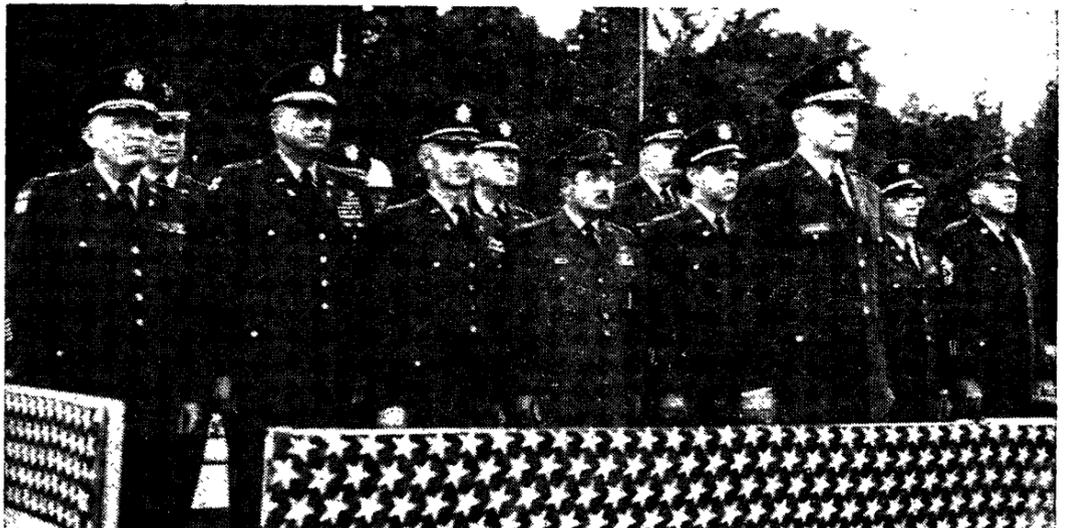
The 55th Army Band played for the ceremony which included recognition of each of the eight men who had completed more than 20 years of military service, Gen. Schomburg trooping the line in a jeep, and the troops at the Arsenal passing in review during the final scheduled parade of the year.

Troop commander for the parade was Lt. Col. Arnold R. Thomas, Chief, Weapons Support, AOMC Engineer Office. The Parade adjutant was Capt. Earnest M. Deadwyler, Research and Development, AOMC; and the orders of the day were read by Maj. David L. Reichert, AOMC Adjutant General.

Maj. Garner enlisted in the Army in November, 1940. Prior to that he was a member of the Mississippi National Guard.

He worked himself up through the ranks to master sergeant before he attended the Officer Recreation School at Ft. Monmouth to receive a commission in 1949. During World War II he served with the Infantry in the Pacific. After the war he served in Europe.

Maj. Garner completed the of- (See EIGHT on Page 2)



RETIRING—Eight military men each with more than 20 years of active service, stand at attention as the Redstone Arsenal troops pass in review during a "Retreat Parade and Review" Friday afternoon. This was the last parade scheduled this year for the Arsenal troops. Maj. Gen. August Schomburg, (foreground) Commanding General of AOMC, was the reviewing officer. The eight men honored during the ceremony are (left to right): Maj. F. E. O'Brien, Maj. J. A. Garner, Maj. T. F. Gannon, Capt. M. L. Flowers, Air Force; Capt. S. M. Callaway, CWO C. A. Van Pelt (hidden) CWO L. A. Daubenspeck, and First Sgt. F. A. Harris.

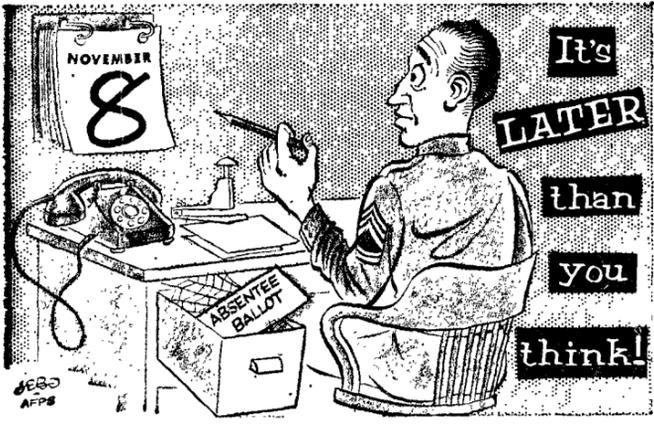
The Redstone Rocket

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AUSA

(Continued From Page 1)

Jones was elected president of Northrop in May 1959. He has been associated with the Corporation since 1953 when he became an assistant to the Chief Engineer. He has also served Northrop as

Director of Development Planning and corporate vice president for Development Planning.

Following his graduation from Stanford University in 1942 with a degree in engineering, he was associated with the El Segundo Division of Douglas Aircraft Company as an engineer.

From 1947 to 1951 he was technical advisor to the Brazilian Air Ministry, and also held the position of Professor and Department Head in the Brazilian Institute of Technology. From 1951 to 1953, he served as a member of the Rand Corporation's staff, specializing in consultant activities with the U. S. Air Force.

Jones is a first vice president and member of the board of directors of the Los Angeles Post of the American Ordnance Association. He is also chairman of the board of Page Communications Engineers, Inc., and chairman of the board of Acme Metal Molding Company. In addition, he serves as a trustee of the California Institute of Technology.



REDSTONE FEDERAL CREDIT UNION

EIGHT

(Continued From Page 1)

Officers course at the Ordnance School at Aberdeen Proving Ground in 1955 and was assigned to Thailand as a member of the Joint United States Military Advisory Group, Far East.

At Redstone Arsenal he has served twice as Troop Commander, with a break in assignment in 1957 when he served as Assistant Inspector General.

His decorations include the Bronze Star Medal, the Army Commendation Medal with Oak Leaf Cluster, the Purple Heart, Good Conduct Medal, the Combat Infantry Badge and others.

Maj. Gannon entered the Army in October, 1940, in California and served initially at Ft. Lewis, Washington. He participated in the invasion of North Africa, and the campaigns that led the American Forces into Southern Europe. He has also served at Taiwan and in Alaska.

His decorations include the Army Commendation Medal with Oak Leaf Cluster, and Good Conduct Medal, among many others.

Maj. O'Brien entered the military service in Kentucky in December, 1936 and as an enlisted man worked up to master sergeant before accepting appointment as a warrant officer in 1943.

During World War II he served in the China-Burma-India Theater. He has also served in the Canal Zone and as a member of the Military Army Advisory Group in Pakistan.

His medals include the Army Commendation Medal with Oak Leaf Cluster and the Good Conduct Medal.

Capt. Callaway also entered the Army in 1940 at Louisville, Ky. His first assignment after training was as an aircraft mechanic in the Canal Zone. When hostilities began in December, 1941, he was transferred to Salinas, Ecuador as a squadron member with an Army Air Force Bomb Group. Later he served in Africa.

After further training in the United States, he participated in the Bikini Atomic Bomb Tests as a member of a Bomb Group Photo Unit.

Capt. Callaway has also served in Japan and Korea. His medals include the Good Conduct Medal and the Korean Presidential Unit Citation.

CWO Van Pelt enlisted in the

MRS. DAVITT TO ENGLAND

Mrs. James H. Davitt, on Post Chairman of Volunteers for Red Cross, will leave on Nov. 8, for a six weeks visit to her native England. Mrs. Davitt is the wife of Lt. Col. James H. Davitt. They reside at 457 Simpson Drive, Redstone Arsenal. Mrs. Davitt has not been in London, her former home, since 1945.

The Davitts have four children. Mrs. Davitt became interested in Red Cross work as a result of seeing the excellent work performed by the Red Cross during World War II, in London. She has been active in Red Cross Volunteer work for the past four years.



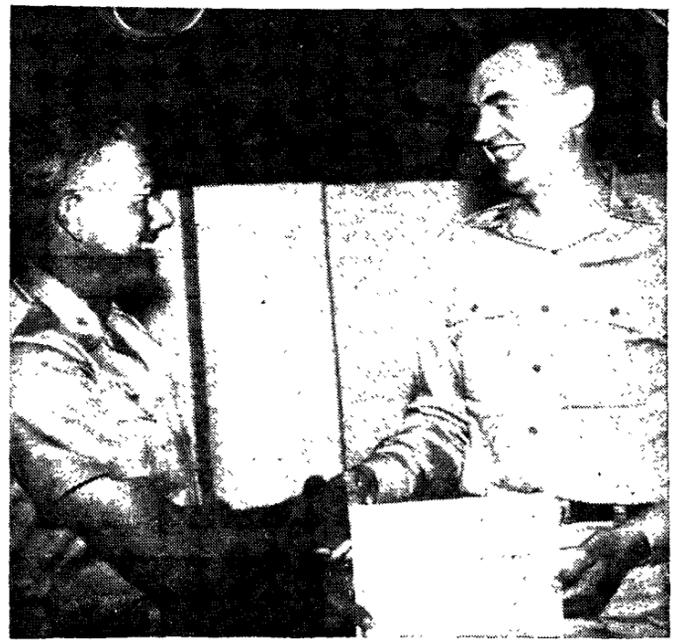
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AWARD FOR SAFE DRIVING — Capt. Donald C. Becker (right) receives a Safe Driver Badge and a Certificate of Achievement from Maj. Jesse A. Garner, Commander, RSA Troop Command for the safe operation of army motor vehicles during the period September 1959-August 31 1960. Capt. Becker drove in excess of 8000 consecutive miles during both day and night operations, without an accident.

National Guard in September, 1938 and was ordered to active service in September, 1940.

He attended the Coast Artillery School, the Tank Destroyer School, The Infantry School and the Ordnance Guided Missile School.

During his career he has served in the Far East and in Europe as well as at Redstone Arsenal.

CWO Daubenspeck enlisted in the Oklahoma National Guard in April, 1940 and began his career as part of the 45th Infantry Division. He transferred to the Air Corps and studied radio operation and repair. In 1942 he transferred to the Pacific Theater and remained there until 1948, the same year he left the Air Force to join the Army.

CWO Van Pelt and CWO Daubenspeck both have the Good Conduct Medals among their decorations.

First Sgt. Harris enlisted at Ft.

Benning, Ga., in 1939 and was assigned to the Infantry. He served in the Philippines with the 25th Infantry Division. He also has served in Japan and Korea.

Among his decorations First Sgt. Harris is authorized to wear the Bronze Star Medal, Purple Heart and Army Commendation Medal, the Combat Infantry Badge and others.

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DEVELOPMENT

(Continued From Page 1)

throughs in all major elements of the system, radars, computers and missiles," Zierdt added.

The Zeus system will use radars of extreme range and accuracy to find and follow ICBM warheads approaching the defended area and electronic computers to analyze data collected by the radars, generate intercepting solutions and control the defending Zeus missile to intercept the attacking warheads and render them ineffective high above the earth.

Zierdt said the entire system is designed for fully automatic operations from initial detection to intercept.

"Human intervention will be possible, but not encouraged," the Army officer said. The nature of the threat, ICBM warheads traveling from 15,000 to 20,000 miles an hour, "with lethality that defies description have made it mandatory for fully automatic response."

Testing of the immense searchlight-beam type acquisition radar assigned the job of finding approaching ICBM warheads far out in space has begun and has proven "highly satisfactory to date," Zierdt said.

Employing the same command guidance principles as its proven forerunners, the Army's Nike Ajax and Nike Hercules air defense missiles, the Nike Zeus, he pointed out, has all its detection and control equipment on the ground where it is not limited by weight or size and has the additional advantage of being used again and again.

To sweep millions of cubic miles of space, the acquisition radar uses separate antennas to transmit and receive, Zierdt said. The transmitter "is about the size of the Yankee Stadium infield," with a power output great enough, if generated on the correct frequency, to "boil an egg in a flash, broil a steak in seconds or char a roast of beef in a few more." Its receiving antenna stands eight stories high.

Zierdt said 42 box car loads of material used to form a Luneberg Lens — a kind of monster magnifying glass focusing radar pulses returning to the receiver from the incoming warhead hundreds of miles away—are needed for each receiver.

Touching on the lightning-fast computers that will process data gathered by the radars and actually control the intercepting Zeus' missile, Zierdt said those for the Zeus system have been specially designed for their anti-ICBM role and can be built more rapidly than conventional computers.

"The electronic brains that perform so many business functions today have an add and subtract time of five to 10 millionths of a second," the ARGMA Commander pointed out. "Zeus computers can handle their problem and be well on the way through the next one in the same time span."

Describing the Nike Zeus missile as "the bullet fired by the system," Zierdt reported rapid and significant progress in development of the three stage, solid fuel missile. A firing test program has been underway for more than a year.

"A means of guiding the mis-

French Officers Visit AOMC, OGMS and NASA

A group of 28 French Army officers, led by Maj. Gen. Jean M. Sorlet, on Oct. 27, completed a three-day orientation of elements of the Army Ordnance Missile Command.

Gen. Sorlet is Chief of the French National Institute of High Studies of Armament at Paris. Most of the officers with him are advanced students at the Institute.

They have been briefed on the mission of AOMC and the missile systems being developed by elements of AOMC.

Other activities have included tours of the missile exhibition unit, Redstone Post facilities, contractor areas, and the Army Ordnance Guided Missile School.

The French officers were also to tour facilities of the National Aeronautics and Space Agency before leaving today.

The Huntsville stopover was part of a three-weeks tour of the United States.

From here the group goes to Winston-Salem, N. C., where it will tour facilities of Western Electric Company, Aberdeen Proving Grounds, Aberdeen, Md., will be the next stop and then Washington, D. C.

Before leaving for Paris from New York City, the French officers will tour facilities of Sperry Corporation at Philadelphia.

Prior to coming to Redstone Arsenal the group toured industrial plants in the Detroit area.

sile's third and final stage outside the earth's atmosphere has been worked out and will be tested shortly to demonstrate that it will give absolute control of the Zeus from launch to intercept whether that be inside or outside the earth's atmosphere," he revealed.

Zierdt said the Army is confident that forthcoming tests using Atlas ICBMs as targets for a Nike Zeus system now being readied on Kwajalein Island in the South Pacific "will demonstrate that the Nike Zeus will do the job for which it is so urgently needed."

"The urgency is repeatedly stressed by the ever increasing space activities of the Soviets, which most aptly demonstrate their capability to build, launch and accurately guide large rockets," Zierdt said.

"Possession of a mutual capability to inflict mass destruction is of course a main and necessary element of deterrence, however, imagine the great advantage this nation would have if it possessed both the ICBM for retaliation and a defense weapon that could knock down ICBMs fired at us by an aggressor.

"The achievement of such a defense capability is uniquely important for the United States.

"We have never struck with military power until the enemy struck first. That is why the Army feels we need an active defense against ICBMs.

"The Nike Zeus development program is directed toward providing that important segment in our over-all defense posture."



TAKES TOP AWARD—James H. Draughon, a long time Civil Service employe received the highest award the Army Ballistic Missile Agency bestows in recent ceremonies at ABMA. Making the presentation is Col. H. N. Brownson, deputy commander. The senior executive award will be presented annually to an outstanding employe. Draughon is senior civilian assistant to the Chief of the ABMA Control Office. Mr. and Mrs. Draughon have four children, Beverly, Rosalyn, Eva Jane and Kathleen. They live in Huntsville.

American pilots who joined the 1916 were the first Americans to Lafayette Escadrille on Mar. 21, see combat in WWI.

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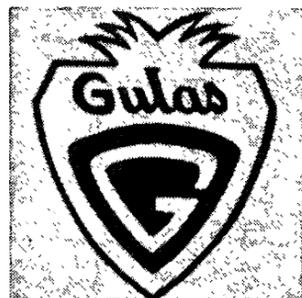
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Social News

Warrant Officers Receive Charter For Association

Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command, presented a charter Tuesday afternoon to a newly organized group of Warrant Officers at Squirrel Hill Officer's Club.

The group is Redstone Chapter No. 53 of the Warrant Officers Association of America. It was organized last May with 31 members and has already grown to a membership of 56, having the distinction of being the fastest growing chapter in the country and the third largest.

Receiving the charter was CWO Robert C. Colson, vice president of the local chapter. CWO Philip H. Stessel, who is president, is in Germany on temporary duty.

Other officers are CWO John C. Dodd, secretary, and CWO Henry D. Arrot, treasurer.

The Warrant Officers Association of America is relatively young, having been organized overseas in the Spring of 1957. Headquarters were moved to Washington, D. C. in August of 1959 and since then growth has been rapid.

Mrs. R. S. Macey, Mrs. Garrabrant Win at Party Bridge

Winners at party bridge on Thursday among the Party Bridge Group of the Redstone Arsenal Officers Wives Club were Mrs. R. S. Macey, high; and Mrs. A. V. Garrabrant, second.

The Group plans another "Party Day" on November 17 beginning at 10 a.m. and playing until 2 p.m. The Group meets at the Squirrel Hill Officers Club.

Reservations, which close at noon on Wednesdays, may be made

Chemists Schedule Meeting on Nov. 4

The Alabama Chapter of the American Institute of Chemists will meet for luncheon at the Thomas Jefferson Hotel, Birmingham at 12:15 p.m. on Friday, Nov. 4.

Three speakers are scheduled at the meeting: Dr. Jack P. Montgomery, Honorary AIC, Professor Emeritus, University of Alabama who will discuss "Chemistry and Chemists—Past"; Dr. Emmett B. Carmichael, FAIC, Assistant Dean, Medical College and School of Dentistry, University of Alabama Medical Center, Birmingham, "Chemistry and Chemists—present;" and Martin B. Williams National AIC Council representative from the Alabama Chapter, ARGMA, Redstone Arsenal, "Chemistry and Chemists—Future."

Cdr. Buist Named Commander of Navy Reserve Company

Cdr. C. A. Buist, Jr., US Naval Reserve, recently assumed command of the Naval Reserve Research Company 6-17 based in Huntsville.

The membership of the company includes engineers and scientists from Redstone Arsenal and local industry. Cdr. H. M. Tatum, USNR, former Commanding Officer, remains as a member of the unit. Cdr. John Hartlein, Jr., assumed the posts of Executive Officer and Training Officer.

Cdr. Buist is presently employed at Missile Research and Development Engineer in the Air Defense Systems Section of ARGMA. This section's primary responsibility is the Field Army Ballistic

with Mrs. Paul W. Simpson, Arsenal ext. 877-5059.

MAXINE AYCOCK EXHIBITS ART AT POST LIBRARY

Original paintings, drawings and enamel-on-copper mosaics, the work of painter Maxine Aycock, are on exhibit now at the Post Library. The showing will continue through November.

A graduate of the Cooper Union Art School in New York City, Mrs. Aycock also studies at the Art Student's League in New York, The Art Center, the University of Louisville and the University of Alabama.

Her paintings and drawing have won many awards in over 100 museum and gallery shows throughout the East and South.

One painting, awarded the Loveman Purchase Prize, is in the permanent collection of the Birmingham Museum. Other work by this artist has been exhibited at the Delgado Museum in New Orleans, the Boston Museum of Fine Arts, the Montgomery Museum of Art, the Speed Museum of Louisville, Ky., the Brooks Museum in Memphis and others.

Examples of her painting and ceramics are in private collections here and in Europe. She has had 15 one-man shows and plans to more early in 1961 at Pfeiffer College in North Carolina and at Ball State Teacher's College, Muncie, Indiana.

In addition to her own paintings the artist has given lectures and demonstrations of various painting techniques and has served on juries of regional and national art shows.

Visit the Library and see this fine art display.

Religious Education Workshops Are Held At Post Chapel

Monday through Friday workshops on Christian Education are being conducted at the Post Chapel at 7 p.m. by a team of five outstanding religious education counselors meeting with military religious leaders in elements of the Army Ordnance Missile Command.

The team is here under the auspices of the Department of the Army.

The group is led by Dr. David Jewell, Associate Professor of Religious Education, Bangor Theological Seminary, Bangor, Me.

Accompanying him are Miss Minnette M. Dummer, First United Presbyterian Church, Evanston, Ill., vice chairman; Miss Elizabeth McCort, Children's Department, National Council of Churches, New York City; Rev. Milton Viviere, Board of Education, Presbyterian Church, Little Rock, Ark., and Mrs. Ralph Krieger, Seville, Ohio.

First training sessions began at the Post Chapel at 3 p.m. Sunday, according to Post Chaplain (Lt. Col.) John E. Batterson.

Missile System.

Cdr. Hartlein is presently employed as Security Specialist with the Intelligence and Security Division, Redstone Arsenal

Barbershop Singers Elect ARGMA Man President for 1961

At the annual election, held on Tuesday, Oct. 25, George M. Gambrell, Chief Projects Branch, Facilities and Resources Office, ABMA, was elected president of the Rocket City Chapter of the Society for Preservation and Encouragement of Barbershop Quartet Singing in America, Inc., for 1961.

Other elected officers are John D. (Jack) Haley, Chrysler Corporation, vice president in charge of membership; John (Jack) Fohner, Jr., AOMC, vice president in charge of programs; Jerry Kessler, Brown Engineering Company, Inc., secretary; and Paul Jones, Southern Assoc. Engineer, Inc., treasurer; Lee O. Ramsey, NASA, is chorus director.

The Huntsville unit of this international singing society, a non-profit, community services organization, meets at 8 p.m. every Tuesday evening, above the Central Cafe, 102 Clinton Avenue, E.

Meetings are open and the public is cordially invited to attend.

BREMER TO SPEAK AT LINCOLN PTA

Dale Bremmer, representing the Oakridge Traveling Science Demonstration Lecture Program is scheduled to speak to the Lincoln School P-TA during a meeting on Tuesday, Nov. 8.

Also on the program is the final round of competition in the Lincoln School Spelling Bee, and a short talk on how to help your child do better in school by Louis Ullman, the P-TA president and a former instructor at the University of Illinois.

Bremmer will demonstrate simple scientific equipment. This talk will be similar to material featured in the Life Magazine article, "Science Wows the Pupil." It fits the aim of National Education Week. Parents are invited to visit the rooms of their children.

Mrs. R. K. Wensley Lt. Col. Sevareid Win at Party Bridge

Mrs. R. K. Wensley and Lt. Col. J. W. Sevareid were winners at party bridge at the Squirrel Hill Officers Club on Monday, Oct. 24.

Second high were Mrs. W. S. Bice and Capt. David F. Montgomery.

Six tables were in play. Host and hostess for the evening were CWO. and Mrs. E. M. Krembs.

Duplicate Bridge Group Plans Tourney

The Duplicate Bridge Group of the Redstone Arsenal Officers Wives Club is sponsoring an 8-game tournament beginning at 9:45 a.m. tomorrow morning.

Each participant is scheduled to play with the same partner four times during the series.

Extra master points and cash awards will be given to the first five winners of the tournament.

Further information may be obtained from Mrs. E. B. Detchemdy, Ext. 876-5761.

BAZAAR SCHEDULED

The Holmes Street Methodist Church is sponsoring a bazaar, slated to become an annual event, on Nov. 9.

Needlework, novelties, baby clothes and Christmas decorations will comprise the exhibits which will be sold.

A dinner is scheduled from 4-8 p.m. with a holiday menu of turkey and trimmings. The bazaar booths will open at 10 a.m.

OUR PRESIDENTS SPEAK

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Seven Million Miles on Wheels Are Logged by Army at Redstone Arsenal

It has been said that an Army travels on its stomach, but last year the part of the Army at Redstone Arsenal rode 7,898,289 miles on wheels, according to S. G. Wilkins, of the post transportation office.

That figure represents total-mileage traveled by vehicles under the jurisdiction of post transportation. Some of these vehicles are used by the various elements of the Army Ordnance Missile Command at Redstone which supply their own drivers.

Post transportation drivers logged 2,052,000 miles of their own. Their safety record is as impressive as their mileage figure. Last year, for instance, they transported 970 children a day to and from school without a single mishap.

The Post motor pool now maintains more than 1,800 vehicles. It operates or has available for operation about 1,100. The remainder are assigned to command elements.

Many of the miles are logged by men hauling valuable missiles or missile components from Redstone to missile test ranges at Cape Canaveral, Fla., and White Sands, N. M. There has never been a single mishap involving the government drivers.

Several million miles are traveled right at Redstone. The sprawling 39,000 acre installation needs wheels and plenty of them. Post taxi dispatchers are currently handling more than 700 calls each day even though shuttle buses operate continuously over the high traffic routes.

The Transportation Office is an operation which includes manage-

ment of a government owned railroad. It has five locomotives and 80 railway cars that operate solely on the 91 miles of track within the Arsenal fence.

The "Redstone Railroad" takes over from commercial haulers at two "depots" on the Arsenal. Its principal cargoes are rocket fuels, sand, gravel and coal.

Like many commercial railroads, however, business is down. The railroad isn't used as extensively as it was many years ago when the Army had ammunition production facilities at what is now Redstone Arsenal.

From snail's pace to flying. Post Transportation, handles all traffic. It paid commercial airlines about \$175,000 last year for fares to move military and civilian personnel from Redstone around the country on government business.

It also moves household goods for military personnel and even provided the first ride for the Army's famous space monkeys—Able and Baker. Post Transportation got them to Cape Canaveral where they took a ride into space in a Jupiter ballistic missile nose cone and came back to chatter about it.

The Post Transportation Officer is Maj. Michael S. Spinello

A REAL HEAVY

Naples, Italy (AFPS) — Primo Carnera was the heaviest of the world boxing champions weighing 267 pounds when he won the title in 1933.

"That's the spirit!" cried the medium as the table began to rise.



CREDIT UNION MAGAZINE EDITOR — Edward R. Brann, extreme right, assistant editor on "The Credit Union Bridge," a publication of the Credit Union National Assn., Inc., of Madison, Wisconsin, is shown at a conference with Redstone Federal Credit Union officials here on October 24th. Pictured also are, left to right, Roy Hollihan, general manager; Harold B. Carpenter, president; and C. G. Babcock, treasurer. Mr. Brann visited to collect facts for an article on Redstone's Credit Union organization, and to compile material for a survey of this and other credit unions. Mr. Hollihan is a full-time official of the Union, Mr. Carpenter's principal duty is with the Army Rocket and Guided Missile Agency, and Mr. Babcock is associated with the Thiokol Corporation.

McClung Appointed Chief Engineer, ARGMA, Industrial

Duward R. McClung, of 104 Robin Lane, has been appointed Chief Engineer of The Industrial Operations staff of the Army Rocket and Guided Missile Agency.

McClung served for two years as Deputy Systems Manager in one of the several ARGMA defense systems divisions. His past experience includes positions as an airways engineer, airport engineer, electrical engineer, a supervisory general engineer, and others.

A graduate of Hico High School, Hico, Louisiana, he attended Louisiana Polytechnic College, at Ruston, and was graduated in 1940 with a B. S. degree in mechanical and electronic engineering. He is married to the former

McClung's parents, reside at 624 Miss Clovice Fowler. The couple are the parents of John R., 18; Ronald D., 15; and William N., 12. Mr. and Mrs. John D. McClung,

So. Main St., Homer, La.

McClung is active in work for the First Baptist Church of Huntsville, and a golfing enthusiast.



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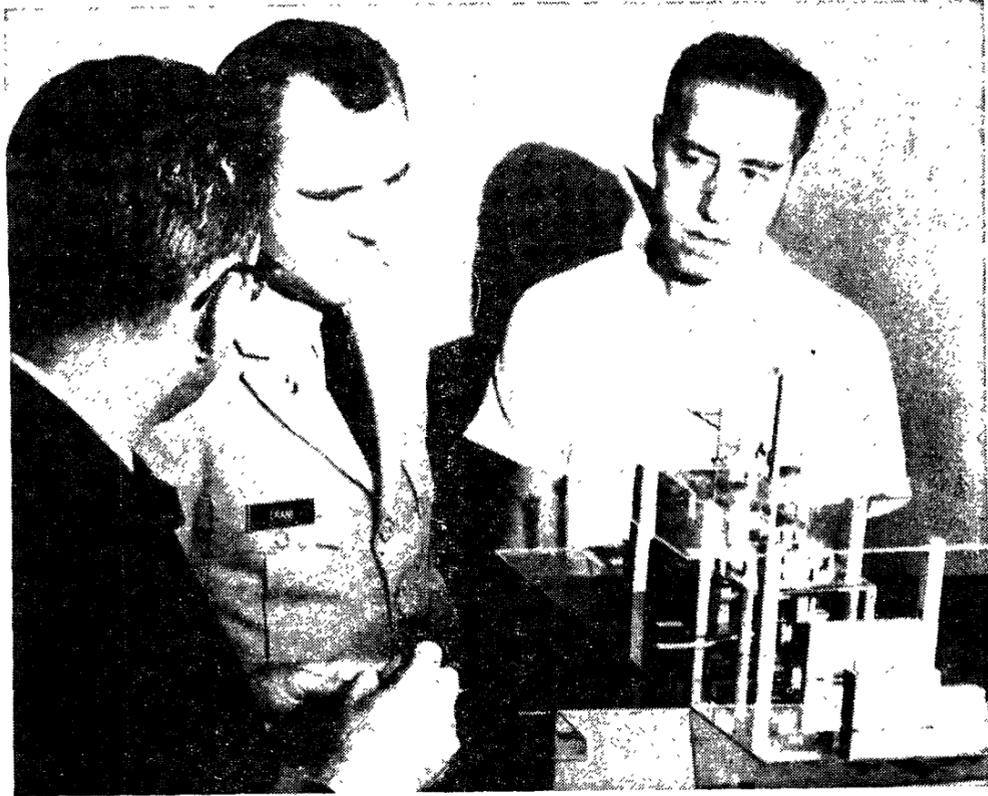
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FACILITIES STUDIED—Lt. Col. Glenn Crane, ARGMA Project Director, Ballistic Missile and Space Defense, looks over a mockup during a recent tour of the Dallas, Texas, plant of Continental Electronics, one of the major industrial contributors to the Army's Nike Zeus anti-missile missile system development program. Col. Crane conferred with Continental management and technical people on Zeus system developments.

Alvin E. Moore Retires; Served Gov't. 38 Years

Alvin Edward Moore, a patent advisor in the patent division of Army Ordnance Missile Command's Legal Office, was honored recently by members of his profession at a noon luncheon at Squirrel Hill Officers Club.

Moore, a part of AOMC legal department for almost three years, is retiring after 38 years of ser-

vice with the government. His retirement is effective Nov. 15. He is 56 years old.

Currently living in Decatur, he and his wife plan to move to the Gulf Coast at Waveland, Miss. He plans to do some private patent attorney work, pursue studies towards a Doctor of Philosophy degree at Louisiana State University and devote more time to his hobby of historical writing.

A native of Louisiana, Moore became a midshipman at the U.S.

Naval Academy when he was 16 years old.

Other government service during his varied career included his being a nautical scientist in the Navy civilian service, and active duty in the Naval Reserve as a lieutenant, Lt. commander and commander, during World War II and the Korean War.

Moore also served with the Army as a Second Lieutenant in Military Intelligence, Reserve.

He was a U. S. Patent Examiner when the U. S. Patent Office was in the Department of Interior and after its transfer to the Department of Commerce.

The retiring AOMC patent advisor was a U. S. Border Patrol Inspector and Immigrant Inspector when the Immigration Service

Bids Asked for Work On Arsenal Airstrip

Army Engineers have called for bids for the construction of two runway improvement jobs at Redstone Arsenal, headquarters of the U. S. Army Ordnance Missile Command at Huntsville, Alabama.

Bids will be opened on Nov. 17 at the Corps of Engineers district office, Mobile, Ala., for building an airfield lighting system. Specifications call for the construction of a high intensity lighting system on the 7,300-foot runway, a 1500-foot approach lighting system, and all necessary electrical appurtenances.

Bids will be opened on Nov. 22 at the Mobile office for building a masonry two-stall fire and rescue station adjacent to the run-

way. Bids for both of these jobs are being solicited from small business concerns only, in accordance with a plan worked out between the Department of Defense and the Small Business Administration for assuring that a fair proportion of Government construction procurement is placed with such firms.

Army Engineers awarded a \$749,000 contract earlier this month to R. G. Foster and Company of Wadley, Georgia, for strengthening and extending the Redstone Arsenal runway to enable it to handle large ferry planes carrying missiles and missile components.

was in the Department of Labor. Moore served with the State Department as Vice Consul, Guaymas, Sonora, Mexico. And, at one time he worked with the Central Intelligence Agency of the United States.

He is a member of the bar of various courts, including the U. S. Cort of Customs and Patent Appeals, Washington, D. C.

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**EXCEPT FOR FATE
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New York (AFPS) — If fate hadn't stepped lightly across the Potomac River some 160 years ago, the residents of Philadelphia, Pa., might not be voting for a presidential candidate this year.

For Philadelphia in 1790 -became the Nation's temporary capitol for 10 years. Today, its citizens might very well be in the same situation as their District of Columbia cousins.

But when fate did step in she transferred an odd state of affairs to Washington, D. C. For only in the nation's capitol, seat of the federal government, is the guaranteed free vote of every American citizen restricted.

Persons now residing in the District but not permanent residents, are allowed to vote in their home states. And residents not claiming voting rights elsewhere can vote for delegates to the national presidential nominating conventions. They can also cast a ballot for national committee representatives and local party committees.

There has been some recent national discussion on the possibility of getting Congress to amend the law—allowing the D. C. citizen to cast a vote with his fellow Americans. So far no action has been taken.

In November of 1800 the District citizen had his one and only opportunity to vote nationally. At that time the territory comprising the District of Columbia was ceded to Congress for the building of the new capitol. Philadelphia had been serving as temporary seat since 1790 while the



RETIREES FROM ARMY SERVICE—CWO Luther G. Hisaw, (right), accepts congratulations from Lt. Col. Bernard A. Ferry during ceremonies honoring him on his retirement at the U. S. Army Ordnance Guided Missile School, after more than 20 years of military service. Hisaw has served as an instructor in the Nike-Hercules and Lacrosse branches at the Missile School since July of 1957, following an assignment in the Far East. During World War II he served in both the United States and the European Theater of Operations in an enlisted status, and accepted an appointment as warrant officer in May of 1952. At the Missile School he was assigned to the Signal Electronic Detachment number 2.

people of the nation got together on the Washington site.

On the first Monday in December 1800, by a Supreme Court ruling, the exclusive jurisdiction of Congress over the District took effect. The right to vote for national officers was then withdrawn.

Voters continued to exercise suffrage in municipal matters until June, 1874, when that was also abolished by an act of Congress. They have voted in no national or local election since.

Barber (to new helper): "Here comes a man for a shave."

Helper: "Let me practice on him."

Barber: "All right, but be careful—don't cut yourself."

ARMY IN THE AIR: "The challenge to Army aviation is to provide our commanders with the ability to move three-dimensionally at a speed at least four times as great as our troops have been able to move in the past. This challenge implies an around-the-

clock capability without being anchored to a logistics tail. It further implies a reliability and dependability equivalent at least, to our current modes of transportation," says Brig. Gen. Clifton F. von Kann, Director of Army Aviations.

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101.62	\$6.00	220.56	13.00
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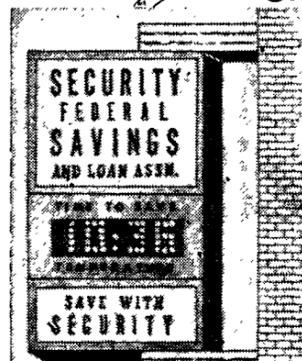
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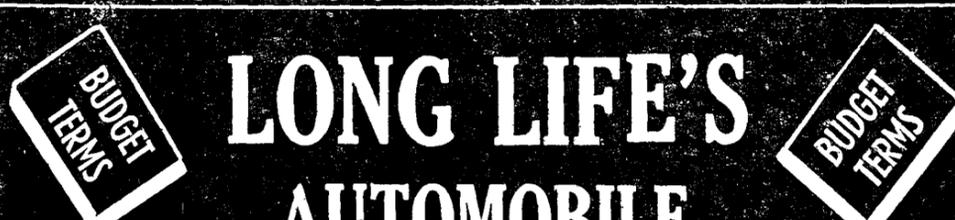


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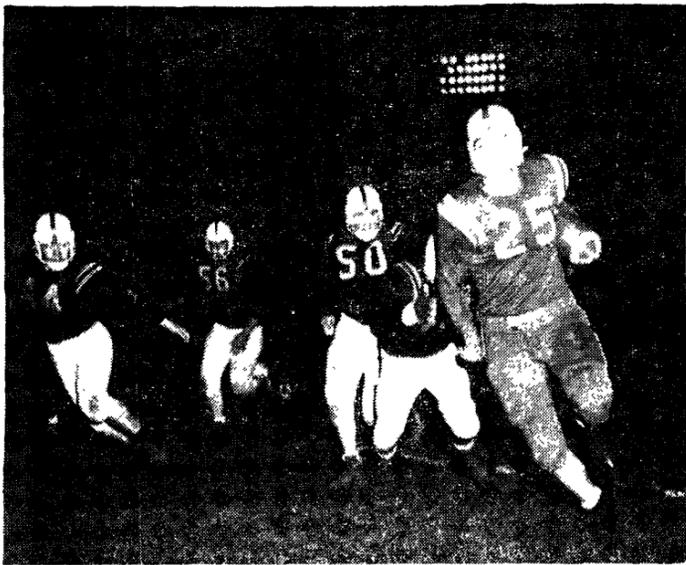
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SPORTS



CO. B, OGMS HALFBACK SAYGER (25) skirts end for a 43-yard touchdown. In pursuit are Kelly (50), Stuart (56), Kawaika (44) and Scott, making a desperation dive. Co. B, OGMS soundly defeated Co. A, OGMS 47 to 26.

GOLF TEAM WINS WITH 30-1/2 Points

The Golf Group of the Redstone Arsenal Officers Wives Club held a dog fight competition on Oct. 26 at the Arsenal Golf Course.

The winning team, captained by Mrs. R. O. Lehtonen had 30-1/2 points. Team members included Mrs. H. H. Wishart, Mrs. F. E. Napper, and Mrs. H. M. Murray.

Bad weather made it necessary to cancel the Spragins tournament on Oct. 19 so the players have been completing their rounds as weather permitted.

Mrs. R. L. Spragins, wife of Maj. Gen. Spragins (ret.), will be hostess at a luncheon at the Russei Erskine Hotel on Nov. 9 at which time the prizes will be awarded the winners of the tournament.

VFW SPONSORS COLLEGE FOOTBALL GAME

VFW Gentry Isom Post 2702 is sponsoring a "rocket bowl" football game at Goldsmith-Schiffman Field at 7:30 p.m. Nov. 19 as part of the program to support underprivileged children in the community.

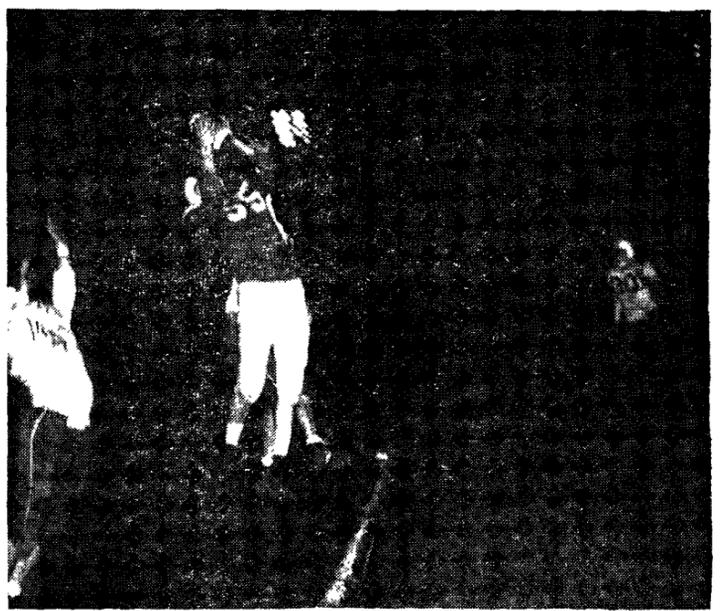
The VFW Post is planning a college "bowl" game at the end of each as an annual event.

This year Marysville meets Millsaps. Tickets are available through VFW members at most sports stores and other shops in Huntsville.

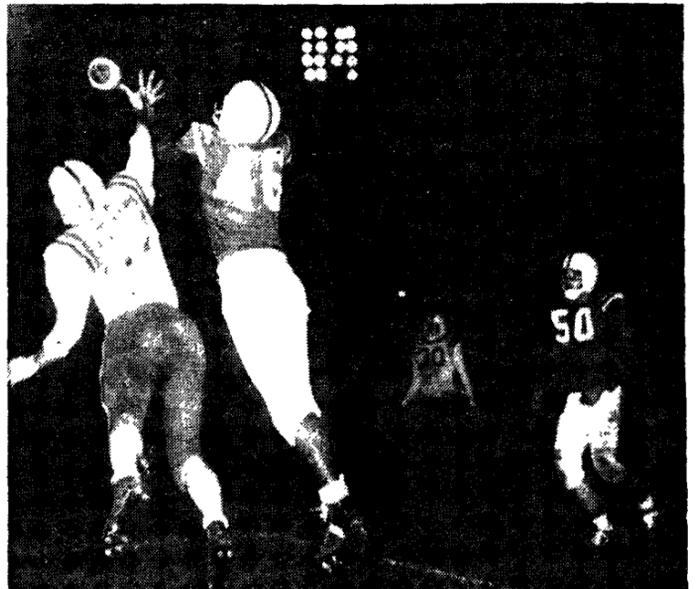
SCHOOL TROOPS COMMAND BOWLING LEAGUE

Standings As of 25 Oct. 1960

	WON	LOST
Signal Det	22	10
Co. "A" No. 1	17	15
Co. "B" No. 2	17	15
1st ETC	17	15
Hq. Co.	16	16
Co. "B" No. 1	14	18
Co. "A" No. 2	13	19
2nd ETC	12	20
200 Games.		
Taormina	224	
Tate	222	
Schlett	221	
Mountz	206	



RIGHT END, COLLIER (55), of Hq. USAG, makes his second stellar catch in the fourth quarter of Hq. USAG-Hq. OGMS game. Silberbusch (hidden) and Knapp (47), Hq. OGMS, are defending, with Shutt (30) coming in on the play.



KNAPP (47), of Hq. OGMS, knocks down a fourth down pass to End Smith(46) from Hq. USAG's quarterback Mocer, in the third quarter, as Cassidy (50) and Shutt (30) look on. Hq. USAG won 19 to 6 over Hq. OGMS.

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C'EST LA GUERRE FROID: The (Korean) armistice agreement provided for the reunification of Korea to be brought about through political negotiations. But the negotiations failed because the Communists refused, among other things, to agree to U. N.-supervised elections for the unification of Korea.

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 - 1949 FORD 4-door ----- \$245.00
 - 1960 CORVAIR 4 door, straight shift ----- \$1745.00
 - 1958 OLDS 2 door hardtop, radio, heater, auto. trans., white tires ----- \$1685.00
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 - 1956 FORD 2 door hardtop, all extras. ----- \$998.00
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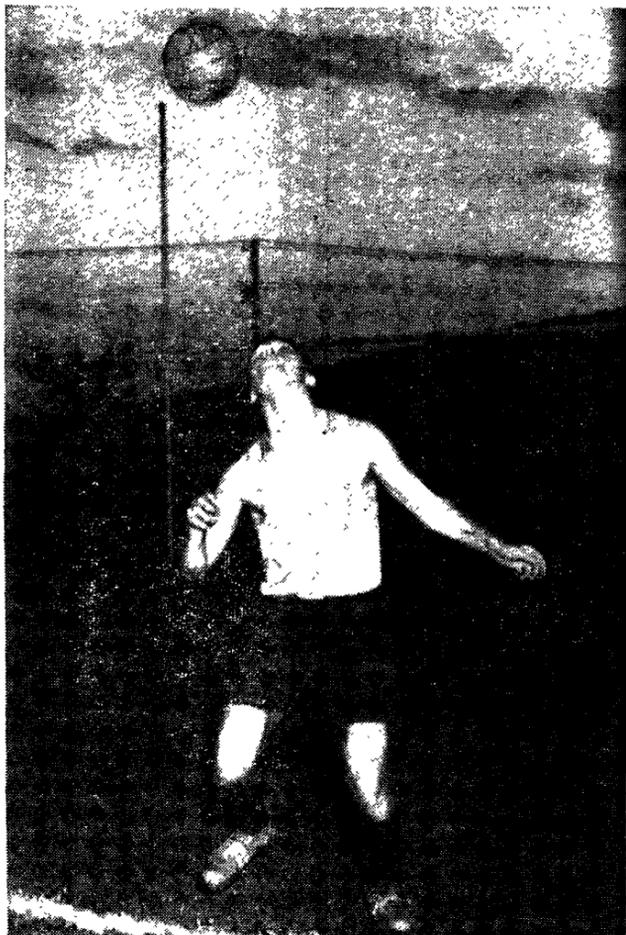
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ALL IN THE HEAD—Pfc. Horst Schulmeister of the German Air Force demonstrates his technique of propelling a soccer ball downfield when it's too high to reach with his feet, during a recent practice session for the third annual "NATO Bowl," to be held at Linton Field at 7 p.m. Thursday. Members of the German team will compete with Italian Air Force students at OGMS in the European variety of football which outlaws the use of hands except by the goal keepers. The ball is "passed" back and forth with the feet, or propelled by the head or other parts of the body until it can be kicked into a netted goal eight feet high. There are no time outs in the 90-minute test of stamina of the European version and substitutions can only be made in the case of injury.

NATO Bowl Soccer Clash Set Nov. 3

Germany and Italy are set to clash Thursday in the third annual "NATO bowl" at Linton Field, after several weeks of intensive practice. Admission is free to all post personnel and invited guests for the game which is slated to begin at 7 p.m.

Teams of the Italian and German Air Forces studying at OGMS will compete in the European variety of football for a trophy contributed by the Gentry-Isom Post of the Veterans of Foreign Wars.

Football teams of Huntsville and Butler High Schools, Lee, West Lawn and Huntsville Junior High Schools have been invited to attend the soccer game.

"It would be good for young



IT'S A DEAL—Col Torquato Testerini (left), of the Italian Air Force promises to give Capt. Werner Kothe a time of it after drawing up the ground rules for the third annual "NATO Bowl," between German and Italian students at OGMS. The game is slated for 7 p.m. Thursday at Linton Field, when the foreign students will compete in the European version of football for a trophy donated by the Gentry-Isom Post of Veterans of Foreign Wars.

American football players to see attend. Colorful pre-game and half- the kind of football we play in our countries, and we hope they can accept our invitation." declared Torquato Testerini of the Italian Air Force and Capt. Werner Kothe, German Air Force liaison officer.

They explained that soccer is real football in that the goal-keeper is the only member of the team who can touch the ball with his hands. Virtually every village and town in Europe has a soccer team, they said, and when regional and national championships are at stake, crowds of 150,000 persons

Rhymes of the Times
 CONSIDER THE CELEBRATION WHEN YOUR LETTER IS PRIZED BY FREEDOM'S FOUNDATION. ...AFPS

time musical programs by the 55th Army Band will feature the game, with the presentation of the colors of Germany and Italy and the playing of their national anthems.

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Speed is Trademark of Missilemen

Procurement Data Can Be Passed on In a Hurry Now

Speed has always been a trademark in the missile field. And now, the Army Ordnance Corps

is developing automatic processes to expedite missile work by reducing manual administrative functions.

Typical of what is being done is a new process at the Army Ballistic Missile Agency. ABMA's Industrial Operations

staff is using a system that can move data to agencies elsewhere in the United States in a matter of minutes.

It can pass information pertaining to missile procurement, ground support equipment and spare parts as fast and efficiently

as the transaction could be made over a conference table.

The system may eventually be used to send fiscal reports, budgetary reports and manpower figures.

Plans are underway now to link all Ordnance Districts and Commands and prime ABMA missile contractors to the network.

An electric typewriter, equipped with a tape punch and reader, produces, as a by-product of original typing, a punched paper tape which can be used for both communication and data processing. A machine capable of receiving and transmitting simultaneously, is used to send this data to selected installations.

Use of standard forms on master tapes has reduced transmission and typing time more than 50 per cent. These standard form tapes contain the constant or repetitive data. Master tapes automatically type the form and stop at the space to be filled in or completed by the operator.

This operation provides master copies for ABMA. Only the data inserted by the operator is punched into the tape to be transmitted to the receiving agencies. An operator at the receiving station takes the data tape off and merges it with the appropriate master tape. The finished form provides the recipient with an exact duplicate of the document produced at ABMA. The transmission tape can then be used either to produce punched cards or be converted to magnetic tape for direct input into a computer.

This data transmission system

has been in use at ABMA for a period of one year. Savings have been achieved through reduction in administrative lead time for procurement, reduction in long distance phone calls and teletype messages.

Current usage is being expanded under the direction of Office Chief of Ordnance to provide greater utilization of the system's potential.

Martin Van Buren, United States eighth President, has the distinction of being the first President born under the American flag.



INFORMATION PLEASE—These two girls can relay detailed missile data to numerous agencies in the United States in a matter of minutes. They are June Warren, operating the machine in the foreground, and Thelma Christian, operating a transmitter. Their mass communication power doesn't come about because they're women, however, they operate a new system installed at the Army Ballistic Missile Agency.



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ARGMA Laboratory Has Most Accurate Measuring Devices in the Southeast

Lab Is Metrological Calibration Workshop

BY. BOB FINNEY

PIO Staff

The most accurate measurements in the Southeast are made at Redstone Arsenal in the Primary Standards Laboratory of the Army Ordnance Missile Command.

A function of the Army Rocket and Guided Missile Agency, the laboratory is a calibration and metrological workshop.

It is a place where some dozen highly trained technicians practice the science of measurements and check instruments against known standards. This is an essential part of the Army's missile and rocket programs.

There is a mechanical laboratory where mechanical measurements and calibrations are performed. In an electronics laboratory electronic measurements and calibrations are made.

Other Primary Standards Laboratories of Army Ordnance are located at Frankford Arsenal, Philadelphia, and Benecia Arsenal, Benecia, Calif. AOMC has a second Primary Standards Laboratory at White Sands, N. M.

You may think that anyone can measure. But, take as simple a unit as the linear inch. There's more to measuring it than dropping a graduated scale on a flat surface.

It takes technique, knowledge, and complicated equipment to measure a small portion of something.

For instance, consider the millionth of an inch. That's a minimum degree of accuracy needed in rocket and missile work.

The millionth of an inch has the same relationship to the whole inch that one dime would have to a stack of dimes as high as two Empire State Buildings, one on top of the other.

Yet, an error of a millionth of an inch in the bore hole of a guidance gyroscope could cause serious trouble.

Such an error might have kept the Army's famed Jupiter-C from

putting the free world's first earth satellite into orbit shortly after Sputnik I was orbited.

The inspection and calibration of precision gage blocks is one of the functions of the AOMC Primary Standards Laboratory. These gage blocks are the standards of length used by developers and producers of rockets and missiles.

Precision gage blocks assure that parts can be interchanged and that rockets and missiles can be mass assembled by private industry.

Technicians and engineers use an interferometer to calibrate them to the required specification. The interferometer enables them to view the strong red, green, blue and violet of cadmium light and the yellows, green and violet of Mercury Vapor Isotope 198.

The known wave lengths of these colors can then be used to determine the gage block's deviation from nominal size. An ultra-powerful, interference microscope is used to inspect the surface finishes of gage blocks.

Laboratory personnel say calibration and measurement concerning rockets and missiles are as simple in principle as a nut and a bolt.

Regardless of how well the nut and bolt are machined, if the two are not measured by the same standard they won't fit and whatever they are a part of won't work well if it works at all.

"You might say we are a miniature Bureau of Standards," said Lawrence E. Fralick, ARGMA Calibration Director.

"We depend on the National Bureau of Standards for the calibration of our standards and we do the work for Army Ordnance that NBS does for the whole United States.

"As we are the only such laboratory in the Southeast, we can work with the Air Force and Navy when requested to do so.

"Of course the scope of our work in the field of standards is not nearly as broad as that of NBS.

"The work of NBS affects a wide variety of things such as atomic bombs, Christmas tree

lights, railroad tracks, bottle caps and the length of shoe laces.

"Our principal concern here in the AOMC Primary Standards Laboratory is production in the field of rockets and missiles."

As time is a part of so many measurements, one of the most accurate timepieces in the Southeast is found in this laboratory. It tells time correctly to one hundredth of a second a day.

This "clock" is a quartz crystal bar about the size of a small banana. It is modeled after one of the ten which comprise the National Primary Standard of time at NBS in Washington.

The AOMC standard is compared with the NBS standard every day. Some accuracy is lost in radio transmission but still its average error is only one part in 10 million.

"One of our main objectives in scientific measurement is the attempt to approach absolute," Fralick continued.

"As a famous scientist named Kyser once said, 'Absolute certainty is the privilege of uneducated minds.' However, in striving for absolute we do derive standards of measure and achieve standardization within known limits."

The people whose daily work is precision measurement are quick to say, "instruments don't make measurements, people do."

"Of course many of our measurements are in the electronic field," the quiet-speaking young scientist from Kentucky continued.

"We work with precision resistors which is the way we measure electrical friction. Both electrical and mechanical friction are important to us in the development of rockets and missiles.

"We must determine just how much friction we have in a particular circumstance. There are times when we want to eliminate friction but certainly not always.

"If mechanical friction were to cease all at once you would not be able to get out of your chair and walk about.

"It is often necessary to have the correct amount of electrical friction or resistance to a minute degree . . . no more, no less.

"You might say the problem is one of control. It is our job to calibrate instruments for rocket and missile developers and builders to help them control it.

Environment is a major consideration in most super-accurate measurements. In this respect, for instance, members of the AOMC Primary Standards Laboratory have designed and constructed an "oil bath" for super-environmental control of resistance measurements.

This "oil bath" virtually elim-

inates humidity problems, detects temperature variations of one hundredth of a degree and automatically begins to correct for this minute temperature variation which could cause an error of a fraction of one part in a million in the measurement.

Sometimes it seems the technicians and engineers in the AOMC calibration and measurement laboratory are speaking a foreign language when they discuss things in scientific terms.

They speak of "googol." They are not talking about a candy bar either.

A dictionary describes a googol as "the figure 1 followed by one hundred zeros." The average person sees how far over his head in measurement he is when he remembers that a billion is the figure 1 followed by nine zeros.

You could almost say that a googol is a unit of measure used to measure "unmeasurable" things.

For instance, you could estimate there are so many googol grains of sand on Coney Island if you had any desire to know how many grains of sand there are on Coney Island.

"We haven't had the googol very long," Billy B. Jennings, an associate of Fralick said. "The name was coined by Dr. Edward Kasner, an American mathematician, about 25 years ago. I believe the story goes that his daughter, a small child at the time, named the googol."

The carefulness and exactness necessary in the daily work of personnel at AOMC Primary Standards Laboratory is contagious to those who happen to have business with them.

One begins to wonder if one is correct about anything and becomes acutely conscious of the ne-

cessity for super-accurate measurements.

Also, one soon sees that the side who measures best may win the tilt in this space age when rockets and missiles are weapons instead of lances and shields.

Even though these AOMC measurement experts are playing a vital role in the development of weapons for tomorrow they find inspiration for their work in a creed given to men of yesterday.

"A false balance is abomination to the Lord, but a just weight is His delight." . . . Proverbs 11:1.

Births at Post Hospital

Teresa Yvonne Richter, 6 lbs., 4 ozs., Oct. 21, daughter of SFC and Mrs. Leonard F. Richter.

Pegi Joyce French, 8 lbs., 8 1/4 ozs., Oct. 22, daughter of SFC and Mrs. Thomas E. French.

Helen Marie Goyer, 9 lbs., 1 oz., Oct. 24, daughter of CWO and Mrs. David W. Goyer.

Mark Duane Kuske, 7 lbs., 15 ozs., Oct. 24, son of 2nd Lt. and Mrs. Duane M. Kuske.

Patricia Schel Sandefur, 6 lbs., 4 1/2 ozs., Oct. 25, daughter of SP4 and Mrs. Adley B. Sandefur.

Cynthia Diane Salyer, 6 lbs., 11 3/4 ozs., Oct. 25, daughter of Pvt. and Mrs. Francis E. Salyer.

Patricia Marie Trask, 7 lbs., 2 ozs., Oct. 25, daughter of SP4 and Mrs. John S. Trask.

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At the Service Club

Welcome home to Molly. She has returned from her vacation anxious to start back to work. Molly, please don't hit me for making that remark.

Enlisted Men's Council Members, please be present for the meeting on 2 Nov. at 1330 hours. It is important that you attend this meeting if you want a better Service Club program. If you are unable to attend the meeting, you must send an alternate.

Ray Pisani's Fox trot and Tango dance classes have been loads of fun for those who have been participating. Be present for the classes on 2 Nov. starting at 1930 hours. Someone may take your place if you are not present.

Is everyone ready for a good Old Hoe-Down? Jim Baker will call your favorite square and folk dances. The Huntsville Hostesses and the Huntsville Merry Mixers will be here to make your evening more enjoyable. Come one and all to the Service Club for

a real Saturday night Old Fashion Hoe-Down. This will take place on 5 November, at 2000 hours.

What could be more fun than a Sunday night Hay Ride? The truck will leave the Service Club at 1800 hours on 6 Nov. After the Hay Ride hamburgers will be served. The Huntsville Hostesses will be present for the event.

Cookies will be served on 3 Nov. at 2000 hours. You may have a special type of cookie that you would like to bake for your friends. Join us in the Service Club kitchen for the Cookie Party. Play cards! Play your favorite card game with us on 4 Nov. at 2000 hours.

A Pool Contest will be held on 8 November at 2000 hours. Show others that you are a real Pool Champion.

Once again the Service Club is sponsoring a tour to the Athens of the South, Nashville, Tennessee. A visit to the newly remodeled Tennessee Capital and the Parthenon, which is a replica of an Athenian Temple, will be includ-

ROBERT M. SMART ARMED SERVICES COUNSEL, VISITS

Robert W. Smart, Chief Counsel of the House Armed Services Committee, conferred with Maj. Gen. August Schomburg here today concerning the Army missile program.

The purpose of Smart's visit to Army Ordnance Missile Command was to assemble information and background in preparation for House Armed Services Committee Hearings in January. He was accompanied by Phillip W. Kelleher, council to the committee.

This committee drafts proposed legislation authorizing the procurement of missile, aircraft and naval vessels.

Gen. Schomburg and members of his staff explained the mission, organization and management control of AOMC to the House Armed Services Committee Counsel Chief and his staff member.

Accompanying the two congressional counsels were Major Gen. Russell L. Vittrup, Chief of Army Legislative Liaison, and Brig. Gen.

J. T. Snodgrass, Ordnance Chief of Staff of Operations.

Other Department of Army Officers with the group were Col. Chester E. Kennedy, Col. William

R. Desobry and Col. James B. Goodwin, Lt. Col. Roger A. Cur-

rier and Lt. Col. I. A. Johnson. They returned to Washington in the late afternoon.

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ed in the tour. Don't miss this trip! The bus will leave at 1130 hours on 12 Nov.

History: Gay Parker and Margie McDuffie, from the Gay-Mar Modeling School, were the guest speakers for the Rho Sigma Chi Meeting on 18 Oct. They gave the girls tips on hair styles, posture, and other phases of charm.

PFC Richard Harrell, Co. A OGMS, was the Pool Champion on 20 Oct.

A tour to Vulcan Park, Birmingham, Ala., on 22 Oct. was enjoyed by those who went.

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Chaplain James H. Goewey Only World War 1 Vet Here, Retired on October 31

The only World War I veteran still on active duty among thousands of soldiers at the Army Ordnance Missile Command retired Monday.

This particular soldier, who wears nine battle stars, is also a soldier of the Lord.

He is Chaplain James H. Goewey, a veteran of two World Wars and the Korean conflict. He has been serving as post chaplain here over four years.

The chaplain is retiring as a lieutenant colonel.

Chaplain Goewey began his 20 years service in 1917 when he went on active duty as an enlisted man in the infantry. He served in France with the Army Expeditionary Forces for two years. Upon his return, he joined the New York National Guard for two years and enrolled in the Crozer Theological Seminary at Chester, Pa.

Baptist churches in New Jersey, St. Albans, Vt., Richwood and Columbus, Ohio.

At the outbreak of World War II, he went in as a chaplain and served in Europe. He was released from active duty for two years, but came back in the Army in 1948.

He served in Korea with the 1st Cavalry Division in 1950 and 1951. In most of the battles for which he wears battle stars, he was one of the few soldiers involved who did not carry a weapon. Chaplains don't carry them.

Chaplain Goewey, a native of White Plains, N. Y., is a past president and vice president of the Huntsville Ministerial Association. He is also a member of the executive board of the Salvation Army and has worked with a number of charity groups.

The replacement for Chaplain Goewey will be Chaplain (Lt.



CHAPLAIN GOEWY

Col.) John E. Batterson.

Since Chaplain Goewey arrived here four years ago, the Post has constructed a new chapel and attendance has increased 600 per cent. The chaplain said the morale at Redstone is "very high" and he has met few personal problems among the troops compared to many other installations.

Chaplain and Mrs. Goewey plan to live in Haddonfield, N. J., where he will work as a substitute minister during his retirement.

Capt. Magill Chosen For Anti-Missile and Space Staff, ARGMA

Capt. Henry F. Magill, chief of the Review Branch, Anti-Missile Missile and Space Defense Project Office, ARGMA, R&D Operations, has been assigned additional duties as the office's executive officer.

The North Carolina native is a former aide-de-camp of Maj. Gen. John B. Medaris, (retired) former commander of the Missile Command.

Capt. Magill is a graduate of Clemson College and the University of Alabama. He entered the Army in 1952.

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BAUER SPEAKS AT FLORENCE

Donald L. Bauer, Missile Test Engineer of the Test and Evaluation Laboratory, ARGMA, presented a lecture and films on missile system capabilities of the T&E Lab to the B' Ni Israel Temple at Florence, Thursday, Oct. 27.

The address contained a brief history of rockets and guided missiles and test activities at the Test and Evaluation Laboratory. The films showed numerous test firings.

Rhymes of the Times

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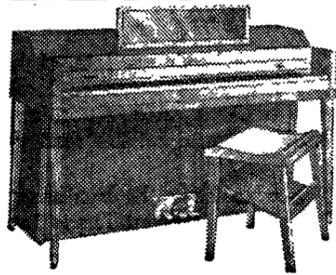
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1960 FRENCH CITRON, only 4,000 miles. Cost new \$3850.00. Reduced to \$2450; Call JE 6-6121. 1tc

1959 STUDEBAKER LARK, 4-dr., heater and O'drive. Low mileage, real clean. One owner car. \$1300.00. Call Lewis Robinson. JE 9-5777. 1tc

FOR SALE — 4 Pc. Walnut Bedroom Suite. \$50.00; Apex Wringer Washer, \$25.00; Warm Morning Heater, \$10.00; Manual Lawn Mower, \$10.00. All in good condition. See at 2008 Princeton Blvd., or call ext. 876-2407 or ext. 876-3545. 1tp

FOR SALE — 32'x8' one-bedroom 1955 Schult Mobile Home. Jalousie windows. Excellent condition. Phone RSA ext. 876-4677 or JE 4-5285. 1tc

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FOR SALE BY OWNER — Monte Sano, 3 bedrooms, 1 tile bath plus detached den, 1550 sq. ft., buy equity or refinance. Owner leaving city. Call Ext. 876-1734 or 534-8103. 1tc

FOR SALE BY OWNER — 2703 Morgan St., 3 bedrooms, 1 1/2 baths, immediate possession, 15 minutes from Bldg. 4488. Small equity and assume payments of \$96.00 per month. Call Arsenal Ext. 877-5874. 1tp

FOR SALE — 1960 Impala, Black, radio, heater, straight shift, must sacrifice, no equity, assume monthly payments of \$54.50 per month for 21 months. Contact Ted Leech, 876-3961. 1tp

FOR SALE — 3 Pc. Sectional sofa. Hunter green. Excellent condition. \$40.00. JE 6-0237. 1tp

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FOR SALE BY OWNER — 2 bedroom and Den. 2019 Stanford Drive. Close to Parkway Shopping Center. \$850.00 Equity, phone JE 9-1506. 1tp.

FOR SALE — 1959 Silver Star Trailer, 50x10; 2 bedroom, deluxe auto. washer, 40 ft. all metal awning, storm windows. Assume payments. Phone Huntsville, JE 9-6173. 1tp

GOVERNMENT EMPLOYEES FINANCE CO. Military E-5 and above, GS-7 and above. Huntsville Representative, 2901 Bayless Drive. Phone JE 9-4583. ttc

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FOR SALE — 6 year crib, plastic mattress and stroller, all for \$16.00. 21" Console Motorola TV. Price \$65.00. 3902 Cypress Ave. S. W. Huntsville, Ala 1tp.

FOR SALE — 1953 Dodge Cornet. 2 Dr. Hardtop, real clean. \$295. Also 8 Ft. Pram Boat, 3 1/4 H. P. Wizard motor. \$75, or both for \$350. Call Arab JU 6-7212. 1tp.

INTERNATIONAL SERVICE INSURANCE CO., Stateside and overseas auto insurance. Government Employees Finance Co. Huntsville Representative, 2901 Bayless Dr. Phone JE 9-4583. ttc

FOR SALE — 2 bedroom house, or rent \$50.00 month. Woodville, Ala., on Highway 72, Phone arsenal ext. 876-7302. E. M. Mason. 1tp

PUREBRED COLLIE PUPPIES — 2 1/2 months old. AKC registration. Phone L. L. Dickerson, JE 6-4634 or JE 6-4411, Ext. 876-5608, and see at 300 California St., S. E. 1tp

FOR SALE — 50'x10' 1959 Peerless "Gold Seal" trailer, 2 bedroom, front kitchen, built-in oven and range, carpeted living room, a Mojave oak paneling, 40' awning, small equity asked. Call 876-5972 'til 3:30 p.m. or 534-2319 after 4:00 p.m. 1tp

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(Continued on Page 15)

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Wantads

(Continued From Page 14)

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If you are interested in convenience to all points of town, a lovely view, a home of distinction, travel up Bankhead Parkway (Monte Sano Park Road) turn left on Oak Park Drive, continue until you see our signs.

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For Appointment Call JE 6-6689 or Glen Grimwood - JE 6-3648

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FOR RENT — New 3 bedroom home with hardwood floors, in Meadow Hills. Phone 534-5643 or JE 4-4104. 1tc

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FOR SALE—8 rooms 3 full baths garage, 2 extra storage rooms. Lot 100 ft. by 140 ft. Near churches, schools, shopping. Abundance flowers, shrubbery, shade trees. All utilities. Now vacant. Refinished since last occupancy. \$16,000.00. Will consider house trailer or late model automobile as part down payment. You are invited to inspect property. Should it be what you desire an effort will be made to meet your terms. I am manager of Guntersville Chamber of Commerce. Also, I am owner of property. W. D. Newman. Day, JUstice 2-3612; night JUstice 2-5109. 1tp

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SOUTH HUNTSVILLE — House for sale by owner, small down payment, assume VA loan, 1 year old, brick with 3 bedrooms, living room, dining rm., 1½ bathrooms, air conditioner, equipped kitchen, 301 Wingate Ave. Phone JE 6-8405. 11-2c

FOR SALE OR RENT — By owner: 1426 Monte Sano Blvd. Reduced to \$27,500; 120x200 ft. lot. Has 5 bedrooms, 2 baths, 3 real fireplaces, large family room and den, wall to wall carpeting, Youngstown kitchen, full basement, 20x40 patio surrounded by 2½ft. flower boxes, large fenced in play yard including playground equipment. 2 blocks from school. Can be seen any day between 2 and 6 p.m. To buy \$1500 down or less to right party. Trade in may be accepted. Will help finance at 6%. Rent \$225 per month, semi-furnished or unfurnished. 1tc

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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 534-2444. ttc

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1955 SUPREME trailer, 45' long, 2 bedroom, 2 air conditioners. This trailer is extra clean, can be financed, low down payment or will trade for car. Phone 534-2761. 1tc

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2004 Morningside Drive. 3 bedroom brick 1½ Tile baths, monthly payments. \$102.49. Equity \$1950.00.

2209 DOGWOOD LANE — 3 bedroom brick, attached garage, fenced back yard with trees. Equity \$2600.00. Payments \$98.58 on 4½% G.I. Loan.

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2006 Shady Lane Drive. 3 bedroom brick, monthly payments \$97.50. Equity \$2250.00.

2804 Hillsboro Rd. 3 bedroom brick, covered patio, fenced yard, 1 air conditioner inc. Lot 125x140. Equity \$2900.00 Assume payments of \$83.68.

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The Judge Advocate Advises



CONTRACTS

(Excerpted from a Columbus, Ohio Bar Association Publication)

How many contracts have you made during your lifetime? Five? Ten? Twenty-five? Most of you will be amazed to learn that you have probably entered into hundreds of contracts even though you have led the life of an average American citizen.

The word "contract" ordinarily brings to mind a formal, written document signed with pomp and ceremony. The use of that word to describe our daily transactions with the grocer, the plumber, the newsboy or the baby sitter would seldom occur to any of us. Yet most contracts arise out of such daily transactions and only a small percentage of the contracts made are even written or signed, let alone with any pomp and ceremony.

What then is a contract? It is merely an agreement in which two or more persons (or companies, organizations, etc.) bind themselves to do or not to do certain acts, and each acquires a right to have the other person keep his promises. For example, the boy next door asks if he may cut your grass for a dollar. You say, "All right, go ahead." The two of you have entered into a contract whereby he promises to cut your grass and in return you promise to pay him a dollar.

Most contracts are not and do not need to be in writing. As in the case of the grass cutter described above, contracts can be entered into when an agreement is reached during a conversation, they can be formed during a telephone call or by the exchange of letters or telegrams, by the signing of other informal papers, or by even by the actions of persons which imply certain meanings. The signing of a sales slip ordering goods on a charge account in a downtown store is the formation of a contract, though we seldom refer to it as such.

A few contracts, however, by state law must be in writing in order to bind the parties. For instance, contracts for the transfer of real estate.

It would be impractical for you to require that every contract you enter into be drawn up in written form. However, whenever you are engaged in business transactions of any importance you should insist that all the terms of the agreement be put in writing and signed, because it is often most difficult to prove unwritten agreement.

You will often be requested to sign written contracts, all or parts of which have been prepared by the other party. There are two cardinal rules to apply in such cases:

First, do not sign a contract until you have read and complete-

ly understood all of its terms and provisions. Of course, you should never sign a contract on a form which is not completely filled out. Be careful of the person who tries to convince you that these precautions are unnecessary or that there isn't enough time.

Second, before you sign be sure that every important promise or provision to which you have agreed is included. Do not be misled into leaving something out by a wave of the hand and a statement that "Oh, we needn't put that in, it is understood."

Failure to insert some important provision may make the entire contract unenforceable because of vagueness. It may mean that you may not be permitted to prove or enforce that particular provision not inserted. Or it



may mean that the law will imply an agreement on this point contrary to the one actually agreed upon but left out of the contract.



MEET McGOON the sad and unwise comic character who thought safety was for Brylcream users. He was the subject for the September Safety Jingle contest at the Redstone Division, Thiokol Corporation. Employees surrounding McGoon smile because safety jingles about him paid off in silver dollars. Left to right are Clarence Holmes, Jr., first place winner, John D. Brown, Safety Team Chairman Elect, Kathryn Mahoney, second place winner, R. N. Carrol, third place winner, and Jack Harbarger, Chief Safety Engineer.

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REAL VOTE GETTER — Although shapely Diane McBain isn't running for any political office, if she were, no doubt this blonde 18-year-old lassie would win by a landslide.