

The Redstone Rocket

VOL. VI; NO. 8

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JUNE 19, 1957

HONEST JOHN IS FIRED HERE

The biggest rocket ever flight-tested at Redstone Arsenal flew for members of the American Ordnance Association last week.

It was an Honest John rocket, weighing several tons, and carrying a simulated atomic warhead. It skimmed low across Range 1 of Rocket Development Laboratory, trailing a tail of fire as long as the rocket itself, and impacted on target at the base of Bradford Mountain, which served as a backstop.

The Honest John was the climax of a firing demonstration by Redstone's Rocket Development Laboratory for AOA members which included a barrage of 4.5 inch rockets, rocket delivery of propaganda leaflets, and rocket and machinegun fire from helicopters.

The Honest John was assembled by three members of the 550th Field Artillery Rocket Battalion from Fort Bliss, Okla., who have test-fired more than 100 Honest Johns, from Alaska to Panama. They were Lt. Richard M. Holl, Lt. Arthur B. Wills, and Sgt. Gilbert H. Kelly.

Capt. Harry W. Brown of the 101st Airborne Division, Fort Campbell, Ky., pressed the button that started the rocket on its flight.

Four Arsenal Men To Give Papers at Army Science Meet

Four Redstone Arsenal men have been selected to present reports at the Army Science Symposium to be held at the United States Military Academy June 26, 27, and 28.

They are Larry Shreve, who collaborated with Dr. W. W. Wharton and Dr. Eugene Miller to write "Propagation of Flame in a Rectangular Duct," and Dr. Roger W. Clapp, who wrote "Some Properties of Thin Magnetic Film." Mr. Shreve, Dr. Wharton, and Dr. Clapp are with the research laboratory of the Research and Development Division, Ordnance Missile Laboratories. Dr. Miller was formerly chief of the Research Division but resigned recently to work with Olin-Mathieson in Carbondale, Ill.

The other two reports will be presented by Stephen Johnston and Lt. Herbert A. Trenchard of the Technical Feasibility Studies Office. Mr. Johnston worked with J. C. Stevens, formerly of TFSO on "A Radar Guidance System for Midrange and Intermediate Range Ballistic Missiles," and Lt. Trenchard wrote "Energy Optimization of a Missile by Employment of Variable Thrust Program."

The purpose of the symposium is to provide an opportunity for army military and civilian scientists to present their classified work for a critical comment before an audience of senior scientists.

Over 450 papers were submitted with only 96 being selected for presentation. Only 47 were accepted from the 250 papers submitted by Ordnance people.

FIVE ARE NAMED TO CIVILIAN WELFARE GROUP

Five persons, representing all three agencies on post, have recently been appointed as members of a Civilian Welfare Ad Hoc Committee.

They are Fred Sayers (chairman) and Stuart Jones from RSA, R. W. Cuthill and R. F. Mello from ABMA, and Dr. C. O. Leatherman from OGMS.

The committee will determine the desirability and evaluate the feasibility of establishing an active civilian welfare program at Redstone Arsenal under the provisions of the applicable regulations covering establishment and operation of such organizations. Their study will include, but not be limited to, the enumeration of problem areas with proposed solution and/or recommendation; also, recommendations for means and methods of financing the activity.



THE LATE BRIG. GEN. THOMAS K. VINCENT, first commanding general of Redstone Arsenal, was honored last Wednesday with the dedication of Vincent Hall in his honor at the Ordnance Guided Missile School. The ceremony came during a three-day conference of the American Ordnance Association's guided missile branch at Redstone Arsenal. The conference ended Thursday. Shown here before a Vincent Hall plaque are left to right: Col. Henry S. Newhall, OGM3 commandant; Mr. Frank Higgins, Assistant Secretary of the Army; Lt. Gen. E. L. Cummings, Army Ordnance chief; and Maj. Gen. H. N. Toftoy, Redstone Arsenal commander who replaced Gen. Vincent in that position in 1954.

GUIDON PRESENTED TO 630TH CO.

The Army's 182nd birthday was observed Friday by the Army Ballistic Missile Agency with the presentation of a guidon to the 630th Ordnance Company (Redstone).

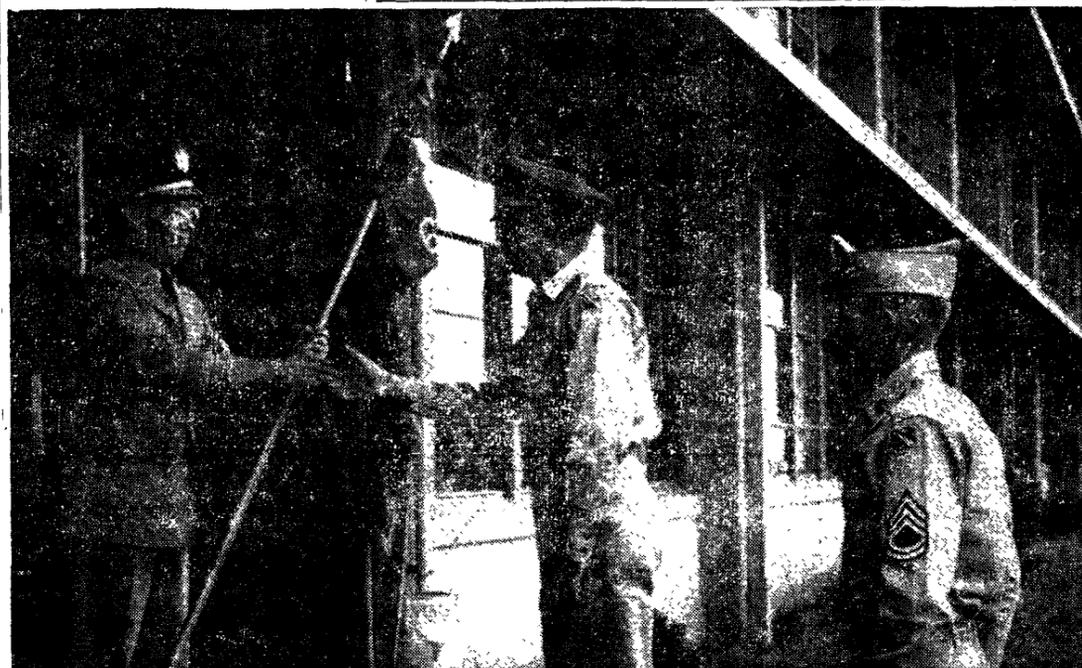
The company is the first organized to support the giant Redstone Ballistic Missile System in the field.

Brig. Gen. J. A. Barclay, deputy commander, presented the guidon to Capt. R. B. Payne, company commander. The 630th will support Field Artillery Missile Battalions. Its activation is further indication that the Redstone Missile is nearing operational capability.

Gen. Barclay said the company's formation demonstrates the Army's success in keeping pace with changes in warfare.

Friday night 123 21st Field Artillery Missile Battalion staged a demonstration of the Redstone Missile System for the Army, Air Force and Reserve units and National Guardsmen at the Huntsville area at the Army Ballistic Missile Agency.

Among the units attending were: 411th Ordnance Group (Maintenance and Supply); USAR School, Huntsville; 1169th Engineer Group (Hq & Hq Co.); 279th Artillery Battalion; 886th Engineer Aviation Battalion; 9920th Air Reserve Squadron; Naval Reserve Surface Div. 6-59.



630TH ORDNANCE CO. GETS GUIDON
Brig. Gen. John A. Barclay (Left) Makes Presentation

FORMER HUNTSVILLE POLICE CHIEF NOW HEADS ABMA CIVILIAN SECURITY

The former Chief of Huntsville's Police Department, James Lavin Carroll, is the civilian security administrator of the Army Ballistic Missile Agency — one of the Army's most closely guarded research and development activities.

Carroll held the top law enforcement position in the city



JAMES LAVIN CARROLL

from July, 1946, until June, 1953. He had previously served five years as deputy sheriff of Madison County, and six years as investigator for the State Beverage Control Board at Florence.

He entered Federal employ in July, 1953, as security administrator for Redstone Arsenal and transferred to the newly formed Missile Agency in Feb., 1956.

He became president of the Alabama Sheriffs and Peace Officers Association in 1951 and also served as president of the Alabama Chapter, FBI National Academy Graduates in 1953.

Carroll attended the Academy's 12-week course and has completed advanced training under FBI auspices. He also attended the Security Supervisors Course of the Provost Marshal General's School at Fort Gordon in 1957. He served in the Army in 1945.

During his tenure as Huntsville's police chief he conducted training courses to his men over a three-year period. The department then consisted of 31 patrolmen, five traffic patrolmen and four detectives.

Carroll administers the Missile Agency's security program and is responsible for the protection and safeguarding of material, facilities, equipment and property under a military chief.

He is married and the father of two children. He resides at 316 Walker St., Huntsville.

TRAFFIC COURT SET FOR ARSENAL

A traffic court is being established at Redstone Arsenal for the convenience of the government and civilian employees and to establish a realistic method of resolving disciplinary problems arising from the enforcement of traffic regulations on Redstone Arsenal.

Here is how it will work:

Civilian personnel charged with serious traffic violations or repeated violations of a less serious nature will be cited for a hearing before the United States Commissioner, Claude Pipes, who will hold court at Redstone Arsenal whenever cases are docketed. Normally, court will be held on Thursdays at 2 p.m. The status of employees attending court as principals or witnesses will be on annual leave or leave without pay, as appropriate.

Military personnel charged with serious traffic violations or repeated violations of a less serious nature will be charged under the provisions of the Uniform Code of Military Justice and will be tried before an appropriate court-martial.

Single violations of a less serious nature, for both civilian and military, will be served as a warning or referred to the immediate supervisor for appropriate action.

It is pointed out that any person can refuse to accept trial before a United States Commissioner and have the charges referred to the United States Attorney for trial before the United States Court for the District of Alabama, in Birmingham. A person convicted before a United States Commissioner has the right of appeal to the United States Court for the District of Alabama.

These procedures have been adopted because established tables of uniform punishment require, for civilian employees, on establishment of guilt, suspension from work and or suspension of certain privileges which, in some cases, results in suspension from work.



MAX STONE

Max Stone Presents Paper at American Rocket Society Meet

Max Stone of the Redstone Arsenal Research Division of Rohm & Haas Company was one of the participants in the semi-annual meeting of the American Rocket Society held last week in San Francisco.

The meeting included eight technical sessions. Stone's paper, "A Practical Mathematical Approach to Grain Design" was presented to the Solid Rockets session.

Stone is a graduate of Union University and has a master's degree in mathematics from George Peabody College. He joined the Redstone Division of Rohm & Haas in 1953. Here he has been concerned with the application of mathematical principles to the interior ballistic design of solid propellant rocket motors.

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hoffhaus, Huntsville, Alabama, with exclusive regard for the reader interests of personnel at Army Ballistic Missile Agency, Redstone Arsenal and Ordnance Guided Missile School in accordance with an agreement between the publisher and the Public Information Office, Redstone Arsenal, Huntsville, Alabama.

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GUNPOWDER DUMPED IN WELL PROVES TO BE WORLD'S FIRST BOOBY TRAP

Headquarters Third United States Army, Fort McPherson, Ga.— In 1812 the U. S. Army Ordnance Corps dumped a large stock of gunpowder in an abandoned well in Washington, and thereby fashioned the first booby trap.

British troops were already storming into the nation's capital, and members of the newly established Ordnance Corps — like everyone else — were in a hurry to leave town. So they dumped the powder in the well.

The British entered town and sighted the suspicious looking well. Then they made the mistake of investigating with a lit lantern.

Boom!

The first booby trap was discovered, and more than 30 Redcoats were dead.

The Corps, established by Congress in 1812, observed its 145th anniversary this year. The years which have passed since its birth have seen the Ordnance Corps move with the tide of changing warfare. The well of gunpowder was the Corps' first step on a trail which has led to the Intermediate Range Ballistics Missile and other modern weapons.

The distinguished wearers of the "flaming bomb"—the oldest insignia in the Army—have supplied our fighting forces with material to win six wars.

When the Mexican War erupted, well-stocked Ordnance bases, such as Fort Leavenworth, met all demands and our troops entered enemy territory well equipped and well supplied.

During the Civil War, an expanded Ordnance Corps provided 30 million pounds of lead, 13 million pounds of artillery projectiles and 26 million pounds of powder to the Union armies.

In the Spanish-American War, Corps men received widespread recognition for supplying and distributing for the first time sufficient war supplies to far-flung combat forces in Cuba and the Philippines.

One of the greatest lessons of World War I was that America could organize, train and transport troops faster than they could be armed and equipped. Nevertheless, the Ordnance Corps expanded our inadequate reserves in short order and provided our expeditionary forces with the tools of victory.

In World War II, the Corps issued 25 times as much supplies and equipment at only 10 times the cost in World War I.

The \$40 billion Ordnance program included design, production, storage packaging, shipment and overseas distribution and maintenance of more than hundreds of different types of fighting equipment, 700,000 different kinds of spare parts, and countless thousands of tons of ammunition.

At its peak rate of peacetime production, our automobile manufacturing industry would have needed 15 years to produce the



"VINCENT HALL," an Ordnance Guided Missile School classroom building, was dedicated to the honor of the late Brig. Gen. Thomas K. Vincent during a three-day session of the American Ordnance Association's guided missile branch at Redstone Arsenal. The meeting ended Thursday. Above, posing after the Wednesday afternoon dedication are, left to right: Maj. Gen. H. N. Tooley, Redstone Arsenal commander who succeeded Gen. Vincent in that position; Col. Henry S. Newhall, OGMS commandant; Lt. Gen. E. L. Cummings, chief of Army Ordnance; and Mr. Frank Higgins, Assistant Secretary of the Army. Gen. Cummings unveiled the sign.

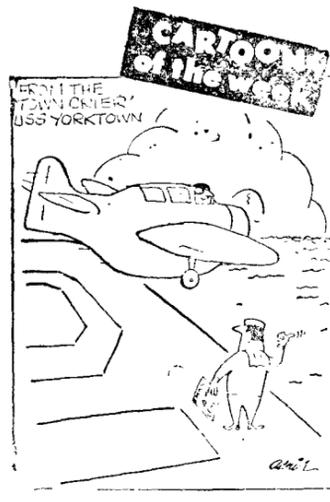
same amount of manufactures as it did for the Army's Ordnance Corps during World War II.

In addition to supplying our troops admirably during the Korean conflict, the Corps developed and distributed the 35 rocket launcher to do the needed job of stopping North Korean tanks. Since then, the development of the 106 MM recoilless rifle; powerful missiles like the Honest John and the Corporal, and finally the IRBM have enhanced the world's respect for U. S. Army Ordnance.

Under the command of Lt. Gen. Thomas F. Hickey, Third Army Commander, with operational control exercised by Colonel R.T. McManamy, Third Army Ordnance Office, Ordnance units are stationed at seven Third Army Class I installations.

Fort Gordon, Stewart, Bowling and McPherson, Ga.; Fort McClellan, Asa; Fort Bragg, N. C.; and Fort Campbell, Ky. In addition, there are fixed Ordnance field maintenance shops at all of the above installations plus Fort Jackson, S. C., and Fort Rucker, Ala.

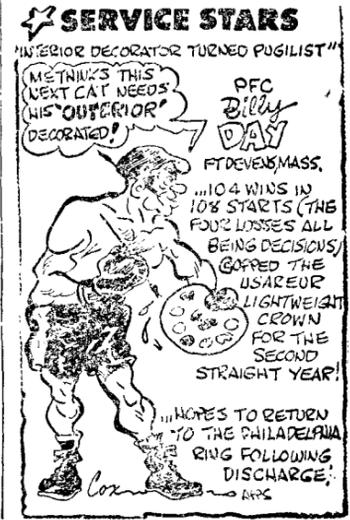
Class II Ordnance activities in the Third Army Area are: Alabama Ordnance Works, at Childersburg, Ala.; Anniston Depot, Anniston, Ala.; Atlanta Gen-



eral Depot, Atlanta, Ga.; Charlotte, N. C. Ordnance Missile Plant; Holston Ordnance Works, Kingsport, Tenn.; Milan, Tenn., Arsenal; Redstone Arsenal, at Huntsville, Ala.; and Volunteer Ordnance Works, Chattanooga, Tenn.

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NOW IT'S MAJ. TOWNSEND — Maj. Lincoln H. Townsend (right), of ABMA, gets his new gold leaf pinned on by Maj. Gen. J. B. Medaris, Agency commander, at a recent promotion ceremony. Looking on is Col. H. E. von Kaenel, chief of ABMA's Training Division. Maj. Townsend serves as deputy chief, Operations Branch of the Training Division.

Townsend Promoted To Rank of Major

Capt. Lincoln H. Townsend has been promoted to major while serving as deputy chief, Operations Branch of the Training Division, Army Ballistic Missile Agency.

The Agency's commander, Maj. Gen. J. B. Medaris, pinned the oak leaves on Maj. Townsend's shoulders, as Col. H. E. von Kaenel, chief, Training Division, looked on.

Maj. Townsend entered the Army Sept. 2, 1939. Before joining ABMA he was stationed at the Mt. Ranier Wash., Ordnance Depot.

He is a graduate of Mingo Central High School, Mingo Junction, Ohio, where his parents, Mr. and Mrs. John C. Townsend reside. He also attended Seattle University.

His decorations include: Presidential Unit Citation, three Meritorious Unit Awards, American Defense, American Theater, Asiatic Pacific, EAMA Theater, World War II Victory, National Defense Service, Korean Service, Armed Forces Reserve, UN Service, and the Korean Presidential Citation.

Maj. Townsend is a member of the American Institute of Man-

MAJ. CARYI IS CANADIAN LIAISON OFFICER HERE

Maj. John E. Caryi has recently been appointed as Canadian Liaison Officer for this installation.

His duties are to effect liaison for the Canadian Army on all aspects of guided missiles. He also maintains liaison with the Ordnance Guided Missile School, where the Canadian Army has been sending students for various technical courses for the past several years.

Maj. Caryi serves with the Royal Canadian Artillery. He graduated from the Canadian Army Staff College in 1954, and his last appointment was as Resident staff officer for an officer training contingent at a Montreal university.

He and family have taken up residence at 303 Westmoreland Ave., Huntsville.

"The Canadian Army is equipped at the moment with modern conventional weapons, but is

tional Guard and Reserve Policy of the Office of the Chief of Staff, U. S. Army.

His decorations include the Silver Star, Legion of Merit, Bronze Star Medal with Oak Leaf Cluster and several decorations received from foreign governments. He also wears the Combat Infantryman Badge.

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keenly interested in all guided missile development," said Maj. Caryi. "Although no specific statement can be released, it may be assumed by virtue of its size, geographic location and possible role in any future war that Canada would place particular interest in those missiles designed for close support of an army in the field or for air defense of the North American continent.

"A considerable number of Canadian military personnel have already qualified through the Anti-Aircraft Guided Missile School at Fort Bliss, Texas, on technical courses and field training, and this is a continuing arrangement.

"The Anti-Aircraft Branch of The Royal Canadian School of Artillery, located at Picton, Ontario, includes a guided missile wing and conducts a variety of courses in this subject.

"Canadian Army personnel were provided to test the Nike a few winters ago in the Canadian North."



MAJ. JOHN E. CARYI

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GEN. PALLADINO HEADS ARMY RESERVE AFFAIRS

Headquarters Third United States Army, Fort McPherson, Ga. — Maj. Gen. Ralph A. Palladino, commanding general of the 94th Infantry Division, United States Army Reserve, a unit with headquarters at Boston, Mass., has been named as Chief, Army Reserve and Reserve Officers Training Corps Affairs, the Department of the Army announced today.

Gen. Palladino will succeed Maj. Gen. Philip F. Lindeman on Aug. 1. General Lindeman will be assigned to headquarters, U. S. Army Europe.

Gen. Palladino, who resides at 19 North Gateway, Winchester, Mass., has been commanding general of the 94th Infantry Division since 1946. He was promoted to his present grade in December, 1954.

A native of Monte Moletto, Italy, Gen. Palladino was born Sept. 1, 1904. He was commissioned a second lieutenant in the Army Reserve following his graduation from Boston University in 1926. He has attended the Infantry School at Fort Benning, Ga., and the Command and General Staff College, Fort Leavenworth, Kans.

Gen. Palladino entered active military service in 1940 as a major. He was assigned to the 26th "Yankee" Infantry Division as a battalion commander. During World War II he served with the 26th Division in Europe. He assumed command of the 104th Infantry Regiment of the division in November, 1944, shortly after that unit started offensive operations in the European Theatre. He led the regiment through combat until the end of the war, and after a tour of occupation duty in Austria returned to the United States in 1945.

Since the war Gen. Palladino has served as a member of the General Staff Committee on Na-

agement, American Ordnance Association, National Sojourners, Eastern Star, Free and Accepted Masons, Scottish Rite, and the Heroes of '78.

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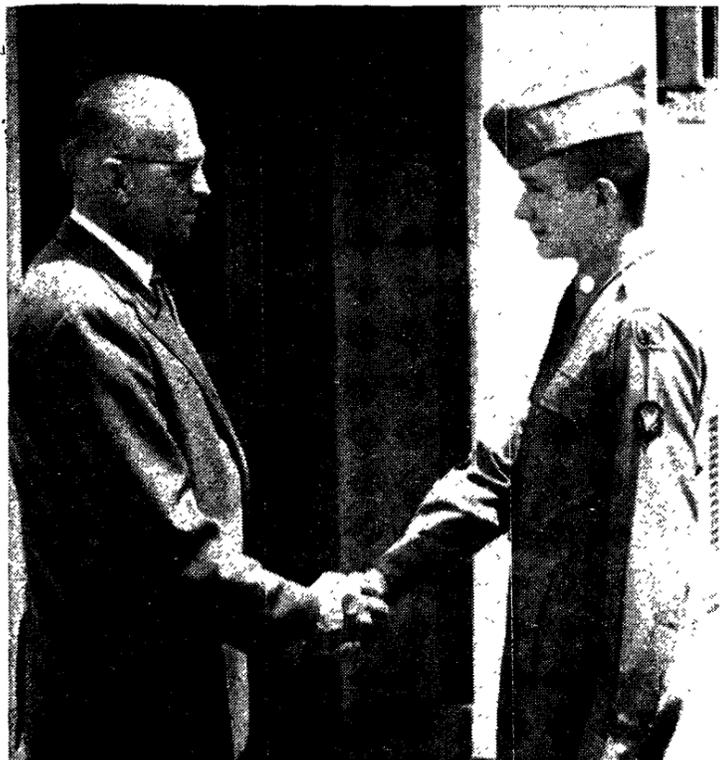
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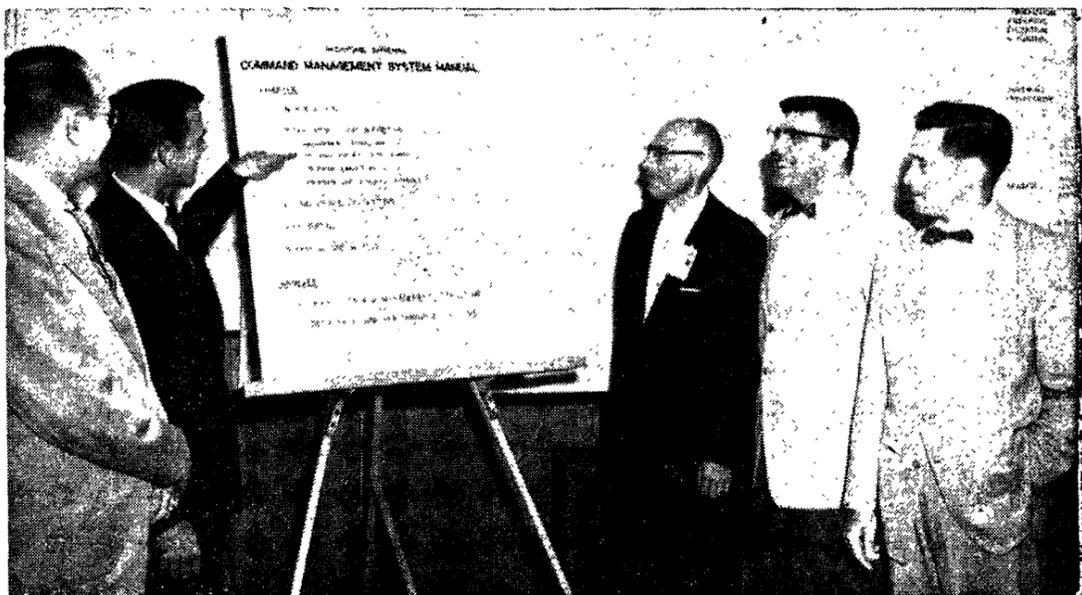
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WELCOME TO KNOXVILLE — SP3 Ernest E. Jernquist of the Army Ballistic Missile Agency is welcomed to Knoxville by Edward J. Costello of the Andrew Johnson Hotel, where he was an honored house guest for three days as the Arsenal's first Soldier of the Quarter. He was furnished a car, gasoline, gift certificates, and spending money by Huntsville businessmen, for himself and his family. "A fine and wonderful vacation," said Specialist Jernquist upon returning to Huntsville.



COMMAND MANAGEMENT SYSTEM TRAINING STARTS AT REDSTONE ARSENAL — Pictured above (left to right) are Kermit Day, Comptroller, RSA; G. S. Wicker, Plans Coordination Office; Sidney Mintz, Captain, Command Management System Task Force; R. W. Pisani, Management Division, Training coordinator for the Ordnance Command Management System, and Robert Lowery, Budget & Analysis Division. Training in connection with the RSA Command Management System is divided in two major phases. The first phase covers programming and budgeting. A series of three-hour classes have been conducted for RSA organizational chiefs and their representatives primarily responsible for programming and budgeting. Wicker of the Plans Coordination Office presented the programming aspects under the Command Management System and Lowery covered the budgeting phases of the new system. Phase II of the RSA Command Management System training will be presented in the near future. This phase will include funding, accounting, reporting, and review and analysis.

ABMA Employee's Son Wins First Place in AF Talent Contest

Airman 2-C Eddie Matthews, son of W. H. Matthews, employe of ABMA Fabrication Lab, recently won first place in a talent contest held to select the top en-

tertainers in the Air Force from the United Kingdom. Eddie was winner of the solo group. His winning performance was a comedy vocal number with guitar accompaniment. Before entering the service, he played in dance bands and on TV and radio in the Huntsville and Decatur area. He was a drummer



A2-C EDDIE MATTHEWS

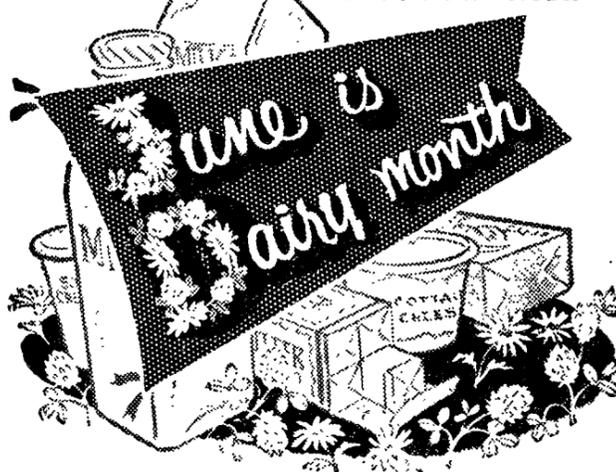
in the National Guard for a year. Eddie attended Bueel High School, playing drums in the band for two years. He is now in the radio and radar field in military service.

His sister, Irene, was a former TV performer over a Birmingham station. She is now married and living in Charleston, W. Va., where she appears occasionally.

Mr. and Mrs. Matthews live at 302 2nd Ave. West, Huntsville.

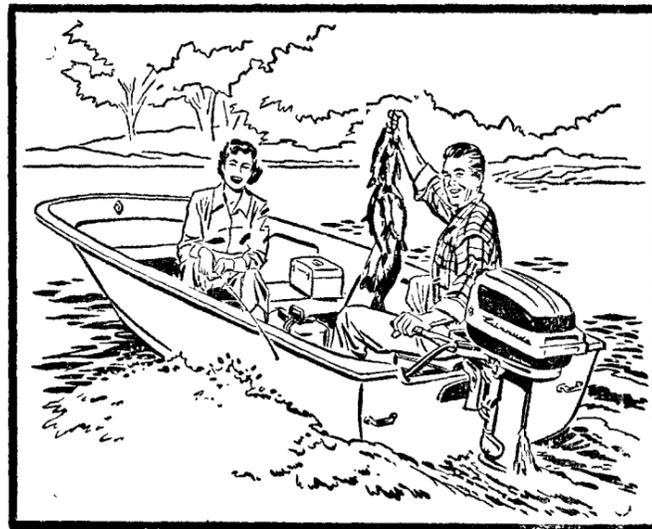
Congress honored Capt. John Paul Jones and his crew April 14, 1781, for services in the American Revolution.

DRINK Meadow Gold



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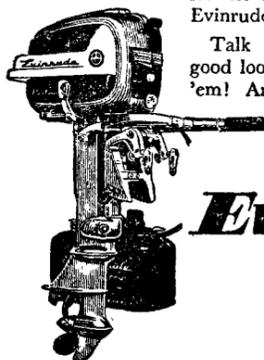
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MOVIE SCHEDULE

Wednesday, June 19, "Calypso Heat Wave" starring Johnny Desmond, Merry Anders, and Meg Myles (Family) Time 1900.

Thursday, June 20, "The Delicate Delinquent" starring Jerry Lewis and Martha Hyer (Family) Time 1830 and 2030.

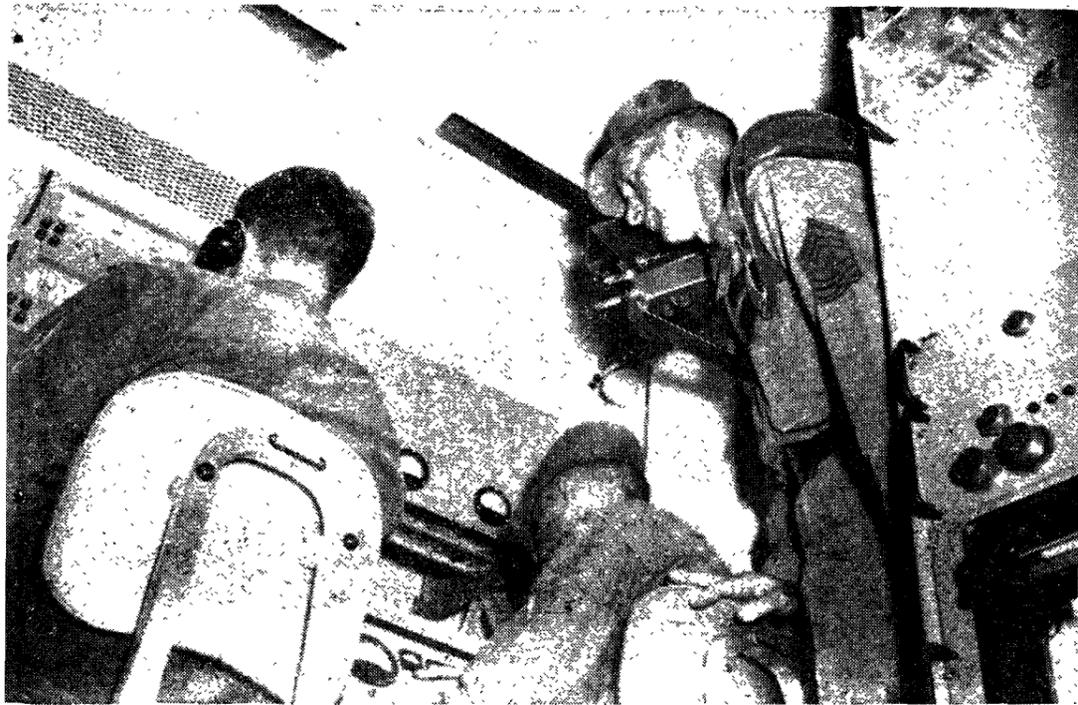
Friday, June 21, "The Restless Breed" starring Scott Brady and Anne Bancroft (Family) Time 1900.

Saturday, June 22, "The Badge of Marshal Brennan" starring Jim Davis and introducing Carl Smith (Family) Time 1900.

Sunday, June 23, "Top Secret Affair" starring Kirk Douglas and Susan Hayward (Mature) Time 1830 and 2030.

Monday, June 24, Closed.

Tuesday, June 25, "Bernardine" starring Pat Boone, Terry Moore and Janet Gaynor (Family) Time 1900.



CLOSE-UP — Wearing the TV harness, Sgt. Bailey moves in for a close-up of dial readings inside the Missile Fire Control Truck, which monitors the Redstone ballistic missile system. The truck is the nerve center of pre-launching checks performed on the system.

SIGNAL CORPS PAIR DEVICES NOVEL PIECE OF TV EQUIPMENT FOR ABMA

Two enterprising Signal Corps specialists have devised a novel piece of television equipment for the Army Ballistic Missile Agency.

It's a padded metal harness which supports a lightweight, industrial TV camera. The harness is fabricated and padded by the Metal and Upholstery Shops at Redstone Arsenal from designs worked out by Specialist 3rd class W. Scott McLucas and Pfc. Gerard Colet. They are radio-television specialists, who formerly worked for CBS Television. Pfc. Colet has been in the Army 18 months. Specialist McLucas plans to return to his CBS job after separation from the service in a few weeks.

The TV equipment and harness employed in the training program of the 217th Field Artillery Missile Battalion (Redstone). By using this device, the cameraman can transmit a live picture of events taking place in extremely tight quarters for viewing by large groups of spectators at a nearby vantage point. Officers, sergeants, and students may thus watch activities inside a missile control firing truck, which is crowded with electronic equipment and the operating personnel. The truck is the nerve center for pre-launching checks performed with the Redstone Ballistic Missile System.

Remote focusing is performed

at the TV monitor. Two 21-inch receivers are connected by closed circuit to the camera. Directions are transmitted by the camera control operator to the cameraman over a headset. In response, he moves in for a close-up or backs off for a wide angle view. The cameraman can wear the harness a minimum of two hours without fatigue, due to its aluminum construction and the padding of felt and foam rubber.

For the missile instruction purpose, a one-inch, wide-angle lens is employed. The quality of reception compares favorably with home sets. The system will handle up to 1,500 feet of cable. The television equipment is the product of Hallamore Electronics.



"TV HARNESS" — M-Sgt. Bailey of the 217th Field Artillery Missile Battalion (Redstone) wears the new TV harness and industrial camera utilized for instruction purposes at ABMA.

Bathing beauty — a girl worth wading for.

WHITESBURG DRIVE-IN

LAST TIMES TODAY!

THRILL-SHOCKER! The BLACK SLEEP. Starring: Basil Rathbone, Akim Tamiroff. Released thru United Artists.

THURSDAY & FRIDAY

"ANNIE GET YOUR GUN" Color by TECHNICOLOR. Starring: Betty Hutton, Howard Keel, Lela Gold, Larry Arnold.

SATURDAY DOUBLE FEATURE

The ONE Picture that is a Dramatic "Must"! CINEMASCOPE. BIGGER than Life. Color by Deluxe. Starring: James Mason, Barbara Rush.

Clark Gable, Jane Russell, Robert Ryan. THE TALL MEN. CINEMASCOPE COLOR.

SUN., MON., TUES.

From the COMEDY STAGE HIT! MARLON GLENN, BRANDO FORD, MACHIKO KYO. The Teahouse of the August Moon. Starring: Eddie Albert.

WEDNESDAY ONLY

A THRILL TO SEE AND HEAR! THE VAGABOND KING. VISTAVISION Technicolor. Starring: Kathryn Grayson, Creste.

WED., THURS., FRI. KILLER-FOR-HIRE! Outcast On The Move!

THE LONELY MAN. Starring: JACK PALANCE, ANTHONY PERKINS, NEVILLE BRAND, ROBERT MIDDLETON, and introducing ELAINE AIKEN. Produced by Pat Duggan. Directed by Henry Levin. Written by Harve Essex and Robert Smith.

SUN., MON., & TUES.

The RIOTOUS SAGA of the HILARIOUS HEROES who fought OPERATION KIMONO!! JOE BUTTERFLY. ACTUALLY FILMED IN JAPAN. CINEMASCOPE TECHNICOLOR. Starring: ARDIE MURPHY, GEORGE NADER, KEENAN WYNN, PEIKO SHIMA, JOHN AGAR, CHARLES PROGRAM, GRED CLARK, and DURGESS.



SWEET COOKIE — This toothsome lass is Julie Newmar, currently appearing in the Broadway production, "Lil' Abner." Julie, delightfully sweet to begin with, wears a crown of cookies to signify she's been chosen Miss Retail Baker by the bakers of America, excellent judges of delectable morsels.

Don't try to bluff the BIG Guy. A cartoon illustration of a large, grumpy-looking man.

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TARZAN AND THE LOST SAFARI. Technicolor. Starring: GORDON SCOTT AS THE NEW TARZAN. Screenplay by YOLANDE BONJAN. M-G-M RELEASE.

SUN., MON., TUES. "Pidgeon No. 1" Red Skelton

STARTS WEDNESDAY 6 YEARS IN THE MAKING! WALT DISNEY'S CINDERELLA. Color by TECHNICOLOR.

PARKWAY THEATRE

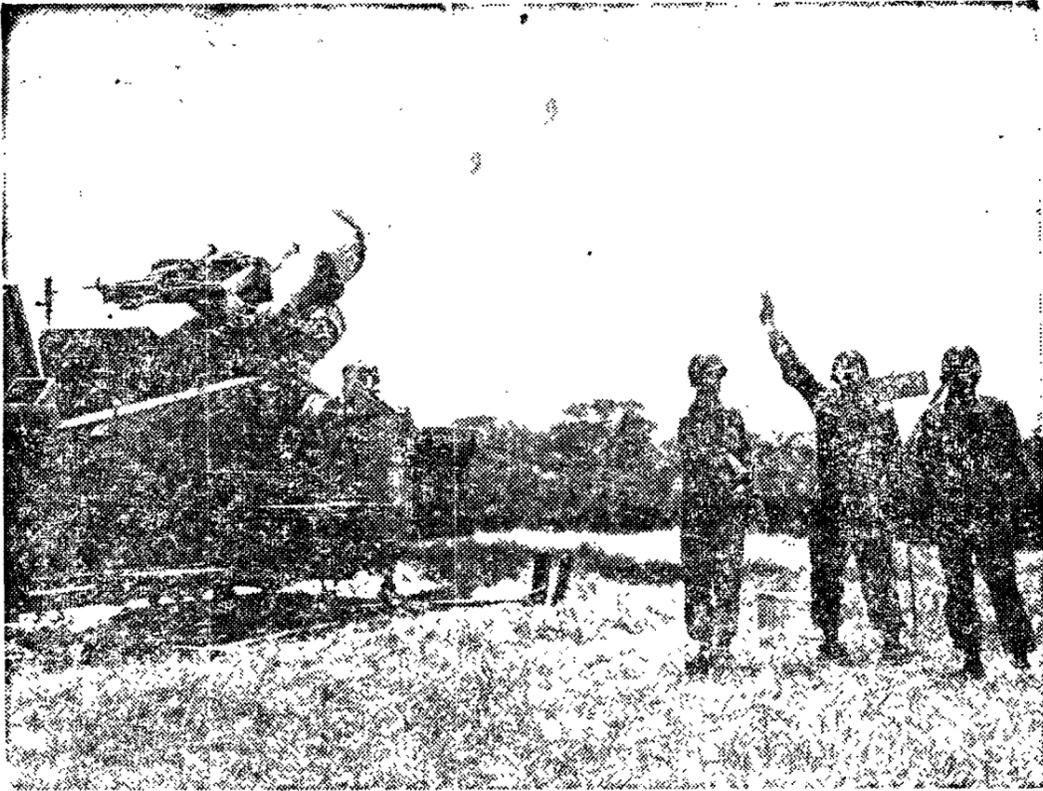
LAST TIMES TONITE DONALD O'CONNOR ANN BLYTH in THE BUSTER KEATON STORY. VISTAVISION.

WED. & THURS. FRANK SINATRA, ELEANOR PARKER, KIM NOVAK. Otto Preminger's THE MAN WITH THE GOLDEN ARM. A United Artists Release.

FRIDAY & SATURDAY THE WILD DAKOTAS. Starring: BILL WILLIAMS, COLEEN GRAY, JIM DAVIS.

CAPTAIN KIDD and the SHAVE GIRL. COLOR. Released thru UNITED ARTISTS.

"ABANDON SHIP" with TYRONE POWER.



THE BIG BANG—A 280 mm "atomic" cannon is fired on the vast range at Fort Sill, Okla., to train crews and test weapons and crew for accuracy and speed. The long lanyard is pulled by the soldier at the left on signal of the officer with raised arm. This is the Army's largest artillery piece. Highly mobile despite its 84-foot length, it will fire a shell to an effective range of 26 miles.

ARTILLERY RETAINS PLACE AS 'KING OF BATTLE' WITH MORE 'BANG' AND SURE, FAST FIRE DELIVERY

FORT SILL, Okla. — If an artilleryman of World War II vintage returned to the Artillery and Guided Missile Center here he would probably feel like a Rip Van Winkle. The landscape would be vaguely familiar, but the new and improved weapons and equipment developed during the last ten years would be strange—if not downright magical.

Only by keeping abreast of modern warfare can the artillery remain "King of Battle."

This World War II artilleryman would find new weapons, guided missiles, a new family of tracked vehicles, and improved communications, searchlights, radar, and helicopter transport. But the aged artillery mission — to give support and lend depth to combat—is as inviolate as ever.

The most eye-catching additions he will see are the 280 mm cannon, the Honest John and the Corporal, all capable of delivering atomic as well as conventional explosives.

Two transporters — front and rear—make the huge 289 mm cannon so mobile that it can be drawn through crowded city streets and around corners. Its 85-ton weight can travel at a speed of 35 mph.

The far-traveling Honest John rocket and the Corporal missile are launched from mobile carriers.

The adoption of self-propelled weapons streamlines artillery fire power. By putting artillery pieces on tracked vehicles, a battery can go into position more quickly and with less likelihood of being mired in mud, snow or sand or of being stopped by terrain hazards. During World War II the only self-propelled artillery piece was the 105 mm howitzer mounted on a modified tank.

Tracked vehicles are now being built specifically for artillery pieces. Today the artillery has the completely rebuilt 105 mm howitzer, the 155 mm howitzer, and 8-inch howitzer, all self-propelled and equipped with power elevation, traverse and loader-rammer. All have electrical firing mechanism and, with the exception of the 155 mm howitzer, offer the protection of overhead armor.

Members of this new family of weapons have interchangeable parts, including transmissions. Air cooled Ordnance-Continental engines, introduced soon after World War II, are smaller and less vulnerable than the water-cooled engines.

Designed from standard cylinder components, they are so flexible they can be made up into

any size engine desired and with any cylinder arrangement — horizontal, V, or opposed. Thus the spare parts problem is much simplified.

Replacing the modified tank used in World War II, two new armored personnel carriers have been given the same mechanical advantages embodied in the self-propelled weapons.

The tremendous strides made in helicoptered design has revolutionized artillery mobility. Today the H-34 Sikorsky can lift, transport, and let down a 105 mm howitzer, ready to fire.

Communications are of paramount importance to the artillery. Here again the new equipment and techniques would be a revelation to anyone out of contact for several years.

At the fire direction center the chart operator can now plot data on deflection, range and elevation without knowing the exact location of the forward observer and without time-consuming reference to an algebraic firing table. Result—less training and faster fire missions.

Enemy artillery emplacements can be located more accurately with improved radar and sound ranging sets.

A radar set which tracks enemy shells was developed in time for the Korean conflict. The height and direction of the projectiles is plotted by radar, enabling automatic controls to pinpoint the location of the hostile unit.

A sound ranging set, which utilizes six microphones to record



HELICOPTER-LANDED—One minute ago these cannoneers and their 75 mm howitzer were traveling by helicopter to their present position. This spectacular artillery demonstration shows the mobility that can be achieved by combining highly trained gunners with Army air transport. Camera has caught projectile in air (arrow).

sound of enemy artillery and determine location, has been modified since World War II. It eliminates the complex system of photographic reproduction, replacing it with markings burned on etching paper.

Weather corrections for firing data are now computed electronically. A radiosonde going aloft on a balloon sends back signals indicating air pressure, temperature and humidity. The balloon is electronically tracked to obtain measurements of elevation and azimuth angles and of wind speed and direction.

A mobile searchlight battery has been adapted by the artillery as part of its organization. During World War II antiaircraft searchlights aided the ground forces so much that in 1952 a battery of mobile searchlights was assigned to each corps artillery, making it possible to shoot ob-

served fire at night.

Although wire communications remains important, the ex-artilleryman will find he can rely more on radio now, with the introduction by the Signal Corps of a new family of frequency modulated radios. They are lighter, more reliable and maintenance problems have been reduced by standardization of design.

An operator can be unit-trained in about three months. The World War II operator required six months of schooling. Instead of the time-consuming process of inserting crystals and calibrating dials to change frequencies, the operator now has a selection of 120 channels merely by turning a knob, as he would do in his own home.

The pack radio is 20 pounds lighter than its World War II counterpart, and has greater

(Continued on Next Page)

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them. Think how many hours you
can save every month.

CHECKS SAVE STEPS. No longer
need you walk from one place to
another to pay your bills. Mail
checks safely anywhere, any time.

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give you complete records of each
payment you make, and all income
you deposit. It is like having a
financial secretary!

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(Continued From Opposite Page) range and continuous tuning.

Standardization of design permits the four basic components of the new family of FM radios to be arranged in ten combinations used by the artillery.

Of the 120 channels available to the "arty" ten overlap with infantry channels, and ten with armored, making it easy to communicate with these two combat arms.

While telephone switchboards are in general the same as the World War II vintage, their design allows for stacking, giving the operator many more lines to work with. The equipment is considerably smaller and lighter in weight.

The visiting veteran would note these changes quickly.

But, though not always apparent to the naked eye, improvements to some degree have been made in practically every piece of equipment used by the artillery.

Company Softball Schedule
19 JUNE 1957—

1800 hrs - Field 1 - 32nd Ord Det -vs- OGMS Off.

Field 2 - 1st ETD -vs- Hq & Hq Det OGMS.

1930 hrs - Field 1 - 162nd Ord Det -vs- USACA Off (Frankenstein).

Field 2 - 2nd ETD -vs- Det "B" ABMA.

20 JUNE 1957—

1800 hrs - Field 1 - 32nd Ord Det -vs- 1st ETD.

Field 2 - 630th Ord Det -vs- 2nd ETD.

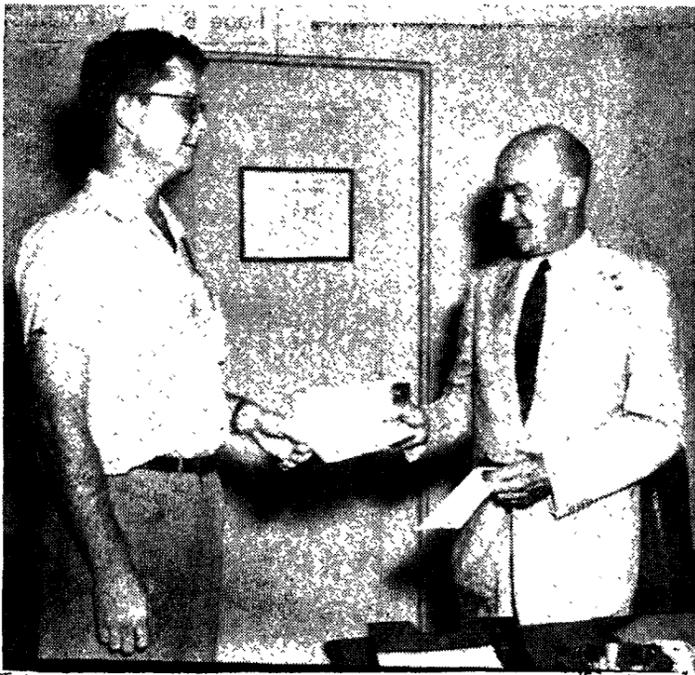
1930 hrs - Field 1 - USAOA Off (Prewett) -vs- Det "A" USAOA.

Field 2 - USAOA Off (Frankenstein) -vs- Det "A" ABMA.

SOFTBALL STANDINGS

17 JUNE 1957—

Team	won	lost
Det "B", ABMA	11	1
USAOA Off (Frankenstein)	9	1
Hq & Hq Det, OGMS	8	3
630th Ord Det	7	5
1st ETD	7	5
2nd ETD	7	5
USAOA Off (Prewett)	5	7
Det "A", ABMA	4	5
162nd Ord Det	4	5
Hq & Hq Det, USAOA	4	7
OGMS Off	3	6
32nd Ord Det	1	7
Det "A", USAOA	0	11



SAFETY WINNER—William W. Schwarz (left), Chemical Research Department, Thiokol Chemical Corp., receives congratulations and a \$10 check from Thiokol's general manager, Dr. W. M. Mebane, for the following Safety Slogan for June that won first place in Thiokol's new monthly contest: DON'T ECONOMIZE SAFETY-WISE. Spencer Bishop, Plant Maintenance Section, won second place honorable mention with this slogan: TO KNOW SAFETY, YOU MUST PRACTICE SAFETY EVERY DAY. Third place honors were awarded Billy G. Teters, Oxidizer, in the Operations Section of the Pilot Lines, for this slogan: SAFETY AT ITS BEST SHOULD NEVER REST. The monthly safety slogan contest is a phase of the expanded Safety Education Program being promoted for Thiokol workers.

Schillo, Marrero Pitch 'Rockets' to Wins Over McClellan

Behind the sharp pitching of John Schillo (eight strike-outs, first game) and Roy Marrero (10 strike-outs, second game), the "Rockets" won two games last week over Fort McClellan.

The "Rockets" won the first game 3-2 in the ninth with a slamming single by catcher Thomas Baines to score the winning run of a hard-fought ball game.

The second game was won 10-1 by sharp hitting by the entire "Rockets" team, high-lighted with an inside-the-park home-run by Frank Taplin. The "Rockets" batting average was just over .500 for the second game.

Service Club Schedule

Post Gymnasium Operating Hours

The Post Gymnasium will be closed during the summer months and will reopen in September 19-57.

Crafts Shop Operating Hours:

Monday thru Friday 1730-2200. Closed Tuesday and Wednesday Saturdays and Holidays 0800-1630.

Sunday 1300-1900.

Effective 22 June 1957, the new Crafts Shop Operating Hours will be as follows:

Tuesday thru Friday 1730-2200 Saturday and Holidays 0800-1630.

Sunday and Monday - Closed.

Swimming Pool Operating Hours:

Monday through Saturday 1000-2000.

Sunday 1200-2000.

Even days of the month are reserved for officers, their dependents, and guests. Odd days of the month are reserved for enlisted men, their dependents, and guests.

Rhymes of the Times
YOU WILL FIND IT ALWAYS PAYS TO HAVE U.S. SAVINGS BONDS ON RAINY DAYS

Engineers Corps' Part In Development, Use Of Redstone Missile

The contributions of the Corps of Engineers to the development and operational use of the Redstone Ballistic Missile System were described last week by Col. Duncan Hallock to the Mobile Post, Society of American Military Engineers.

Col. Hallock is chief of the Engineer Office of the Army Ballistic Missile Agency.

The speaker described types of Engineer equipment developed for the Redstone's ground launching and handling. They include a 25-ton mobile crane to erect the missile, a 9-ton liquid oxygen trailer, air compressor, fire truck, and generator.

He explained that liquid oxygen, which fuels the missile, is produced and stored by the Engineer Company which supports the Field Artillery Missile Battalion (Redstone). Field supply of the fuel will be obtained from mobile plants.

Engineers are also responsible for providing target information, based upon their mapping function; for pinpointing the missile's location, and for blast effects.

Col. Hallock also showed films of the Army family of rockets and missiles, including Nike-Ajax, Dart, LaCrosse, Little John, Honest John, Corporal, and Redstone.

Rhymes of the Times

THE GUY WITH WOES WHO ALWAYS GRIPE IS SELDOM THE GUY WHO GETS THE STRIPES

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- ★ BARBECUE CHICKEN
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UNIVERSITY ADMINISTRATOR DOING NUCLEAR PHYSICS WORK FOR ABMA

A St. Louis University administrator is spending the Summer performing nuclear physics work for the Army Ballistic Missile Agency.

It is Alfred H. Weber, director of the physics department in the University. With him are Mrs. Weber and six of their seven children, who are enjoying an outdoors vacation at Gunterville Lake.

Dr. Weber will spend three months in the Research Projects Office of the Agency prior to returning to St. Louis. It is his first trip to Alabama. He has been closely associated with Army research projects, however, for a number of years.

Ten years ago he took leave from the university to carry on research at the Argonne National Laboratories in Chicago, Ill. He has returned there periodically during the Summers. The Office of Ordnance Research has sponsored research in neutron diffraction at the Laboratories for more than five years. Dr. Weber is an experimental nuclear physicist.

He is a native of Philadelphia and received his B. A. and M. A. degrees from St. Joseph's College in that city. He was awarded his Ph. D. in physics by the University of Pennsylvania in 1936.

Dr. Weber joined the faculty of St. Louis University in 1939.

One daughter, Constance, is an Airman 1st class, U. S. Air Force, stationed at McGuire Air Force Base, N. J. Judith A., the next oldest daughter, is a junior at St. Louis U. Christine F. is a junior at Nerinx Hall, Webster Grove, Mo.; Joe, 14, is a high school freshman. The other children are Mary, 9, a student in Grade 4; Marsh, 7, who is in Grade 2 and June, 5, who hasn't entered school.

Five of the children are good swimmers, Dr. Weber observed, and are thoroughly enjoying their stay alongside the lake.

The Webers live at 1211 Du-Bois, St., Kirkwood, Mo.



ALFRED H. WEBER

THE POST LIBRARY BY ANNA L. FARRAR

These are the new books ready for circulation at the Post Library, Bldg. 691:

- Corydon Bell, "Wonder of Snow."
- Gerald Durrell, "My Family and Other Animals."
- Eastman Kodak Company, "How to Make Good Pictures."
- Gladys Erickson, "Warden Ragen of Joliet."
- William Faulkner, "The Town."
- Kenneth Fowler, "Fight at Sun Mountain."
- Iola Fuller, "Gilded Torch."
- Erle S. Gardner, "The Case of the Screaming Woman."
- Ann Head, "Faith With Rain."
- William Jenkins, "Colonial Survey."
- Welbourn Kelley, "Alabama Empire."
- Theodore Key, "Ted Key's Phyllis."
- Lawrence Lariar, "You've Got Me Behind the Wheel."
- Gypsy Rose Lee, "Gypsy; a Memoir."
- Robert Lund, "Odyssey of Thaddeus Baxter."



REPRESENTATIVES of the three services, Department of Defense and private industry attended a three-day conference of the American Ordnance Association's guided Missile branch at Redstone Arsenal last week. Shown here with a Dart guided missile in the lobby of the Rocket Auditorium are, left to right: Col. William Downey of the Office of the Secretary of the Air Force, Washington; Mr. C. L. Eksbergian, of Philadelphia, chairman of the guided missile branch; Navy Capt. J. L. P. McCailum, head of surface guided missile branch in the Bureau of Ordnance, Washington; and Col. Miles B. Chatfield, of Redstone, local conference project officer.

- John McCallum, "The Kelly Family."
- John Masters, "Far, Far the Mountain."
- Conrad Richter, "The Lady."
- Manuel Rodriguez, "Rum and Roosters."
- Ralph Roske, "Lincoln's Commando."
- Aaron Stein, "The Girl Who Kept Knocking Them Dead."
- Rex Stout, "Three For the Chair."
- Russell Thacher, "Break in the Clouds."
- Don Tracy, "Cherokee."
- Henry Treece, "Golden Strangers."
- Nicholas Wyckoff, "Braintree Mission."
- Dean Acheson, "A Citizen Looks at Congress."
- Betsy Barton, "As Love is Deep."
- "Battles and Leaders of the Civil War."
- Laszlo Beke, "A Student's Diary: Budapest, October 16-November 1, 1956."
- David Belson, "What to Say and How to Say it for All Occasions"
- Phyllis Bottome, "Jane."
- Alan Burgess, "The Small Woman."
- Arthur Clarke, "The Deep Range."
- Sidney Cox, "A Swinger of Birches; A Portrait of Robert Frost."
- Peter Drucker, "America's Next Twenty Years."
- Maurice Druen, "The Strangled Queen."
- Paul Gallico, "Snowflake."
- Edegar Goodspeed, "The Twelve, the Story of Christ's Apostles."
- Hal Gurrey, "Fifth Daughter."
- Harvey Haislip, "Sailor Named Jones"
- Robert Hemlein, "The Door Into Summer."
- Robert Henriques, "A Hundred Hours to Suez, an Account of Israel's Campaign in the Sinai Peninsula."
- Madison Jones, "The Innocent Lucy."
- Lucy Kenney, "Mr. Audubon's Lucy."
- Benson Land's, "World Religions"
- Martin Mann, "Deductive Uses of Atomic Energy"

- Richard Meier, "Science and Economic Development: New Pattern of Living."
- Erich Remarque, "The Black Obelisk."
- Dale Rogers, "To My Son: Faith at Our House."
- Eve Stephens, "Anne Boleyn."
- Edith Stern, "Mental Illness; A Guide for the Family."
- Sven Etoipe, "Sound of a Distant Horn."

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Reserve Officers Set Dinner Meet Friday

The Reserve Officers monthly dinner meeting will be held at the Elks Club Friday, June 21, at 7 p.m. Maj. Lieb from ABMA will speak and show a film on ABMA. All officers, reserve officers, and their ladies are invited. For reservations please call Ext. 3722 or 2934

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98¢ per yard

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BEAUTIFUL SELECTION OF SOLID COLORS Regular \$1.98 to \$2.49 value

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- END PINS
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ELEVEN MAJOR ARMY MISSILES, some of which are shown here, were displayed for the American Ordnance Association's guided missile branch at the Ordnance Guided Missile School last Wednesday. The guided missile branch ended its three-day conference at the arsenal Thursday. In addition to seeing the static displays, the group of more than 200 witnessed the firing of several types of rocket weapons on Redstone Arsenal test ranges. An hour-long simulated battle was held, demonstrating rocket firepower on the ground and from Army helicopters. Among the rockets fired was the Honest John, which became the largest weapon ever launched at the Redstone installation.

At The Service Club

And let's see what's on the agenda for this week. If the weather continues to be as "warm" as it has the past few days, I don't think we'll be able to persuade anyone to leave this air-conditioned building for any reason. All they want to do is sit and enjoy the cool. Well! Can't say that I blame them — Who knows? Maybe one of these days they'll have feet coolers and body coolers like they have now (for warming purposes).

Well, tonite is Wednesday and every Wednesday this month has been set aside for "Chess Nite." Of course, you may play at any time, but we designate 1900

hours, so we can set it up as a party. Tomorrow nite, we're having a Ping Pong Tournament. If that room gets any more dangerous, I'm gonna have to borrow a catcher's outfit to even pass the place, much less go in. Friday and Saturday of this week are Baseball Nites. Both games start at 1900 hours. Redstone has been making a good showing and the games have been good. Keep the support up!

This brings us up to Sunday and it looks like Sunday will be one busy day. Of course, we have Coffee Call at 0900 (with donuts) — At 1300, we have a Patio Party planned, so come on over and play your favorite card game and enjoy a few refreshments (you know, something like mint without the Julps) and Sunday nite at 2030 hours, we'll celebrate everyone's Birthday for the month of June. So . . . you might as well plan to spend the day with us Monday nite, as usual, is BINGO. We have some very nice gifts (prizes) so come on over at 2000 hours and win yourself one. On Tuesday nite, there will be another Baseball game at 1900 and also, the Missilemen and Maids will practice at 1900 here in the Club.

Our "Papa's Pride and Joy"

Contest proved to be a lot of fun for everyone. We had the pictures on display and everyone voted on the different categories. After the winners had been determined, their pictures were placed on display with the prizes. Winners of the contest were —

Cutest Boy and Most Handsome Boy — Steve, the one-year-old son of SP3 D. P. Sturgis, A Det. ABMA, took both of these honors.

Prettiest Girl — Cheryl Ann, 9-month-old daughter of SP3 Ernest Jernquist, A Det. ABMA.

Most Interesting Pose — Girl and Cutest Girl — Lynn, 26-month-old daughter of SP3 D. P. Sturgis, A Det. ABMA.

Most Interesting Pose — Boy — Davy, 25-month-old son of Pfc. Edwin G. Tyckoson, Jr., A Det. ABMA.

We appreciate the parents who entered their children and they were all dolls. The contest was ended with the winners' pictures

Enzor 'Best Speaker' At Toastmaster Meet

Tom Enzor was elected "Best Speaker" at the weekly meeting of the Redstone Toastmasters Club.

His talk on "Hands Up" was selected from a varied program which included "World Peace and You", an explanation of the international exchange student program by Col. Art Lahlum; "Executive Leadership", a discussion of the qualities and problems of leadership by Steve Dobbs; "Welcome to Equatoria", an imaginary welcome to refugees from World War III in the jungles of South America by Bud Parker; and "Diversions Occupation", a review of hobbies in general and tropical fish in particular by Bob Cramer.

Table topics were led by John Gullick and obtained a strong re-

sponse from the group. The subjects were pros and cons of the traffic safety drive now under way in Huntsville.

Toastmaster for the evening was Walt Barney. Ed Lawrence served as general evaluator, A. A. Stewart as parliamentarian, and Paul Kelly as grammarian. Guests for the occasion were Maj. Jack Cary, Canadian Army Liaison Officer at Redstone, and Lt. Col. Henry Clanton of Redstone Arsenal.

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CITED FOR SERVICE — Lt. Richard L. Reynolds (left) receives a certificate of achievement for outstanding service from Maj. Gen. J. B. Medaris, commander of ABMA. Completing his active duty tour, Lt. Reynolds was cited for his service while a project officer in ABMA.

Lt. Reynolds Cited In Outstanding Work

Completing his active duty tour in the U. S. Army, Lt. Richard L. Reynolds has been awarded a certificate of achievement for outstanding service by Maj. Gen. J. B. Medaris, Commanding General of the Army Ballistic Missile Agency.

Lt. Reynolds was cited for his service while a project officer in the Agency from its activation Feb. 1, 1956 to the present time. The citation read as follows:

"Lt. Reynolds performed outstanding trouble-shooting duties for this Agency. His assistance to various laboratories and associated offices in expediting hard-to-get material and information, his detecting and preventing of potential bottlenecks in efficient and expeditious manner, materially assisted in maintaining a very close firing schedule with no significant delays. By use of sound judgment, tact, and finesse, he has resolved difficult bottlenecks and problems in efficient manner."

Lt. Reynolds entered the Army June 14, 1955 after attending the University of Oklahoma. He was graduated from Price Memorial High School, Amarillo, Tex., and is a member of Delta Tau Delta.

He is the son of Mr. and Mrs. James M. Reynolds of 1200 Woodland Dr., Norman, Okla., and plans to return to Norman to engage in the automobile business with which he was formerly associated. He has been living at 1517 Warren Dr., Huntsville, with his wife, Barbara Benz Reynolds.

ARMY TO CONVERT ALL ITS WEAPONS TO METRIC SCALE

Washington (AFPS) — The Army will discard the traditional linear scale for the metric system in measuring distances for artillery and rifle fire.

According to AR-700-75, dated May 14, 1957, ordering the conversion from feet, yards and miles to the standard European system, reasons for the change are:

- to establish a common unit of measurement with NATO nations;
 - to permit greater use of Allied or captured enemy war materiel;
 - to simplify firing procedures for indirect-fire weapons.
- Existing survey, fire direction equipment and data for Army weapons will be converted with the "least practicable delay" to measure ranges and heights in meters.

Equipment will not be modified if it is to be replaced by items being developed or scheduled for use before Jan. 1, 1966, the date for change-over to be completed.

Known distances for firing data, the new regulation says, will be redesignated to the nearest 10 meters, and new ranges will be built in "round hundreds" of meters.

A meter is 39.37 inches. Other comparable measurements under the metric system are: One foot, 0.0348 meter; one yard, 0.9144 meter; and one mile, 1,609.35 meters. All new Army weapons and re-

LETTER OF HUNTING CAMP OPERATOR SPURS ARMY MARKSMANSHIP STUDY

FORT BENNING, Ga.—A letter from a private citizen started wheels turning which may solve a basic problem of the Army.

Howard C. Sarvis, a hunting camp operator in New Meadows, Ida., was the letter writer and the problem is engaged in the statistics of World War II and Korea indicating that approximately 10,000 rounds of small arms fire were needed to produce one enemy casualty.

Basically, Sarvis suggested that training emphasis should be shifted from the weapon to the man, for less than 25 per cent of U. S. infantrymen in battle actually fired their weapons.

The trainee, reasoned Sarvis, would obtain both the skill and psychological control needed for that moment of firing at a live target if his training duplicated the conditions found in combat.

The Army and the Human Research headquarters at George Washington University thought the idea had so much merit that Sarvis was invited to Washington to meet with military men and scientists from this country and the United Kingdom.

At this meeting the idea of trainfire was born.

The idea was given to the Continental Army Command Infantry Human Research Unit at Fort Benning to nurture, with Sarvis as consultant, Dr. Francis E. Jones of Holly Springs, Miss., as civilian director, and Lieutenant Colonel Edgar S. Sanders of Wauchula, Fla., as military leader.

Out of their research has emerged Trainfire I and II, and a character who has come to be known as "Punchy Pete."

The 72-hour Trainfire I course for the first four weeks of basic training differs from the traditional marksmanship instruction in four main ways.

The trainee begins firing early in the marksmanship course. With a reduction in the hours given to academic theory of rifle firing, more time is allotted for practical work on the range. Target detection is stressed, for, as Dr. Jones expresses it, "The rifleman in combat must learn to identify the enemy by noise, flash, smoke or other fleeting indications. He rarely sees clearly what he is firing at."

The fourth and most dramatic change is that, on the firing range, "Punchy Petes" rather than stationary bull's-eyes are the targets.

"Pete", shaped roughly to the outline of a man, is remotely controlled to pop up and disappear at the instructor's discretion. When hit, he falls.

Trainfire II, planned for the second four weeks of basic training, has the rifleman operating as a member of the squad.

On defense, the soldiers dig foxholes and fire at fleeting targets. On attack, they advance as a unit, firing at targets as they would on the battlefield. Using squad signals, prearranged plays and ground cover, they also practice independent action, though still functioning as part of a team



FISH STORY—Lovely Joyce Nizzari poses for the camera with the little one that didn't get away at the Miami, Fla., waterfront. It's hard to imagine that any fish wouldn't want to be hooked by such a handsome fisher-lady.

in combat.

The research unit is now experimenting with Plattain I, a system of instruction of the rifleman as a member of the larger platoon.

Some 10,000 trainees at Fort Carson, Colo., and Fort Jackson, S. C., put the trainfire concept to controlled test last fall. They average ten per cent more hits than their conventionally trained

Mrs. Witt Compton, Davis Foxworthy Are Bridge Winners

Members of the Couples Bridge Club met at the Officers Open Mess last week for their regular bi-monthly meeting.

Taking high score for the ladies was Mrs. E. Witt Compton. Mrs. Foster Haley took second high, while Mrs. Eugene Martin won low score prize.

High score winner for the men was Davis Foxworthy. Second high was won by Larry Tange-man, and Maj. Ben Keyserling took low score.

Host and hostess for the next meeting to be held at 7 p.m. Monday, June 24, at the Officers Open Mess will be Mr. and Mrs. Ralph Nuenlist.

A rocket engine developed for a supersonic research plane produces approximately the same power as the giant turbines of a Navy cruiser.

The landing gear system of an Air Force jet bomber contains enough rubber to manufacture 100 automobile tires.

counterparts. The adoption of Trainfire I as the new basic rifle marksmanship course is under consideration of the Department of the Army. Group test of Trainfire II is scheduled to begin this summer.

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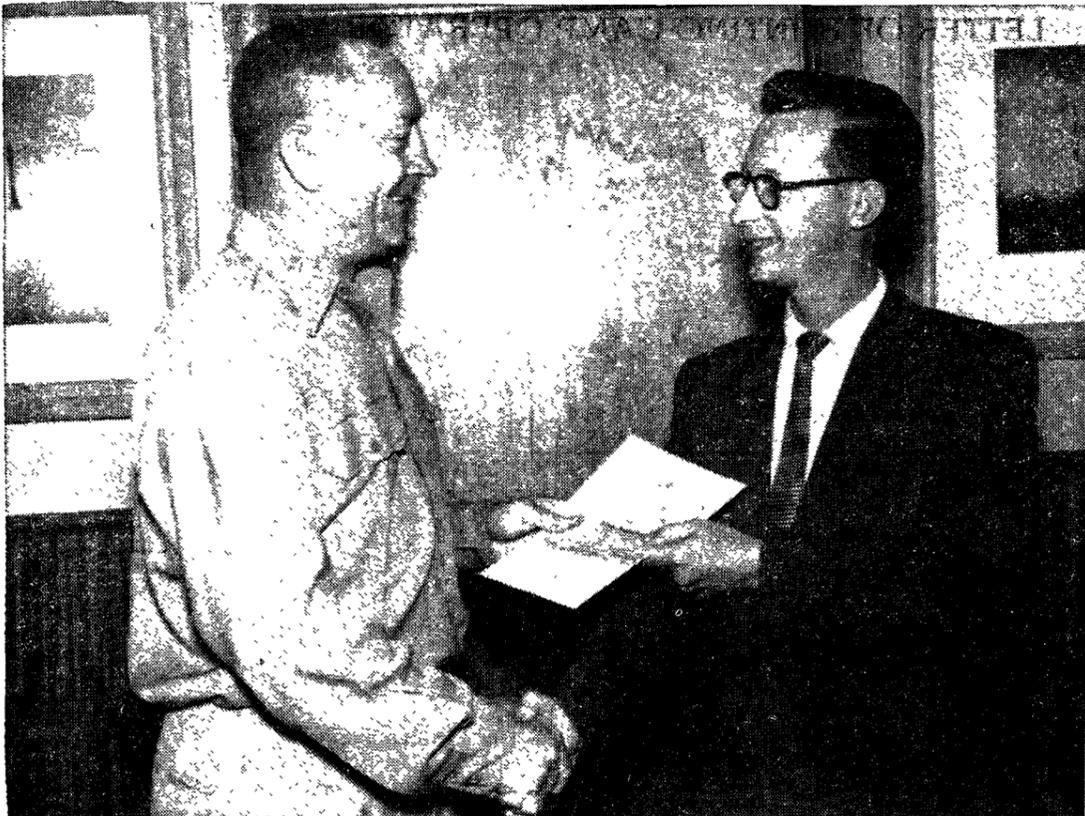
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CASH AWARD FOR EXCELLENCE — As a result of being named outstanding in his field, Ralph L. Edwards (right) receives a check for \$200 and a certificate for sustained superior performance from Col. Miles B. Chatfield, director of the Ordnance Missile Laboratories at Redstone Arsenal. Edwards is chief of the Surface-to-Surface Missile Branch in the Research and Development Division, a part of the laboratories. He's been a staff member at Redstone since June, 1952. He is a graduate of Georgia Tech.

Dennis to Attend Electrical Engineers Meeting in Montreal

Edward Dennis, electrical engineer at the Redstone Arsenal Research Division of Rohm & Haas Company, will attend the Summer General Meeting of the American Institute of Electrical Engineers as a member of the National Industrial Controls Committee. The meeting will be held in Montreal, Canada, from June 24-28.



EDWARD DENNIS

Dennis was appointed to the Controls Committee, which serves as a consulting group on the design and utilization of control equipment, last fall. Recently the committee has been concerned with the development of a Test Code for industrial controls operating at less than 600 volts. If accepted this code will be followed by all manufacturers of such equipment in the United States.

Dennis entered the University of Alabama after serving approximately three years in the Navy as a chief electrician. He graduated with a B. S. in electrical engineering in 1950 and accepted employment with the Redstone Division of Rohm & Haas. He was one of the founders of the Huntsville Sub-section of the AIEE and has served as chairman and director for a two-year term.

Did you hear about the Dad who said to his daughter: "I don't really think you ought to wear that bathing suit, my dear." And the gal answered: "But Dad, I have to. You know how strict they are at the pool . . ."

Egotist—a man's who's me-deep deep in conversation.

Alimony — the high cost of leaving.

Travel broadens one. So does too much good food.



ARMY FEEDS ANTARCTIC EXPLORERS; STUDIES SMALL LOCAL FOOD SUPPLY

WASHINGTON — The Army Quartermaster Corps observers on Operation Deep Freeze in the South Pole region are not only keeping an eye on the standard and special rations, but are studying the food possibilities of the area.

Wildlife native to McMurdo offers tenuous fare for Americans. On a survival basis, life could be sustained by hunting during the Antarctic summer, chiefly of three varieties of edible seal. Last fall many were butchered for the winter feeding of the dogs. Blue, killer and several unidentified varieties of whale observed there also are potential food sources.

The greatest bar to indigenous feeding is the absence of vegetable matter. A few lichen and algae are found on Ross Island, but nutritionally they offer little.

Weathered ash and basalt have formed a crude soil mantle at three localities on Hut Point. If

supplemented with phosphates and nitrates and covered with greenhouses, mature vegetables might be grown during the summer when the continuous sunlight impinging on the glass would result in considerable solar radiation.

Hydroponic farming, such as the Quartermaster Corps has conducted in Japan, is considered a definite possibility. But with either type of farming, supplementary heat would probably be needed on a standby basis during stormy periods.

That is why these observers suggest exploring the use of solar ovens and furnaces during the summer. Another potential source of power on Ross Island, they believe, lies in tapping deep-seated volcanic activity.

They report they would also like to explore for hydrothermal activity. New Zealanders are showing some success, they point out, in generating electricity from the tremendous steam output of a geyser.

The scientists are on less theoretical ground when they gather data on the food actually being consumed today. It was all supplied by the Military Subsistence Supply Agency, which is under command of The Quartermaster General of the Army, and includes the 5-in-1 and individual combat rations used by field parties.

The most hawk-eyed interest is directed to the new light-weight trail ration. Composed of dehydrated, precooked and frozen foods upon which the Quartermaster

Corps is depending to meet the needs of the dispersed and mobile warfare of the future, this ration was put together especially for the expedition.

It was the Glaciology team of the U. S. International Geophysical Year Committee which voiced a need for such a ration. They were planning for the over-snow tractor train expeditions since conducted under the technical supervision of the Army's Transportation Corps. Each tractor could tow only two sleds, making for extremely rigid cargo limitations.

The resulting trail ration, the Quartermaster experts believe, represents virtually the absolute minimum in weight.

Under conditions of extreme cold, each man requires about 5000 calories a day. Without water and packaging, the basic solids would weigh 1050 grams or 2.25 pounds (150 grams of fat and 900 grams of carbohydrates).

The Quartermaster trail ration weighs 2.8 pounds. Tests indicate it meets the requirements of being readily prepared and sufficiently nutritious to maintain a man in full vigor and contentment over long periods.



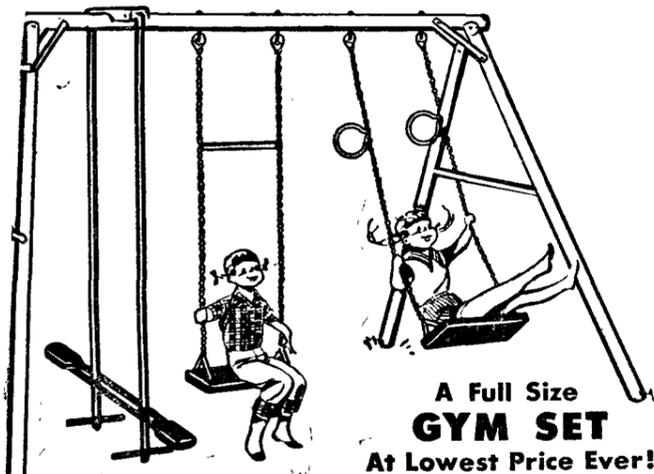
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20 acres unimproved land on highway 36, approx. 9 miles east of Hartselle at \$100.00 per acre.

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Speech by Wiesman Is Entered in the Cong. Record

A speech given by Walter Wiesman, Army Ballistic Missile Agency Civilian Personnel Officer, was entered in the Congressional Record of the United States last week. The talk was given before the Alabama Conference on Citizenship in Tuscaloosa on Feb.

60. Phone Robinson, Redstone extension 2671 or 5782 days or JE 4-7917 nights. 1tc

FOR SALE — Chihuahua puppy, \$25.00. Phone 2724R, Decatur, Ala. 1tc

22, 1957. Sen. John Sparkman wrote he was so impressed with the speech that he had it inserted in the Congressional Record. He included the remark that "it is a fine speech."

As a preface to the entry in the Congressional Record, the comments of Sen Sparkman were: "Mr. President, recently Mr. Walter Wiesman of Huntsville, Ala., addressed the group at the Alabama Conference on Citizenship on the subject of our Civic Responsibilities."

"Mr. Wiesman is one of the German scientists in this country who came here after the war. He has been intimately connect-

ed with the development of our missile program. The address is a very fine one by a new citizen, regarding his attitudes after becoming a citizen. I think it can well be read with a great deal of interest by everyone." The full speech followed.

Wiesman came to this country in 1946 from Germany. He became a citizen in 1954. He is past president of the Huntsville Junior Chamber of Commerce and was the Jaycee National Chairman of International Relations Committee. He is a member of the Kiwanis Club, The American Academy of Political and Social Science, and the American Ordnance Association.



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