

# 32nd Ordnance Awarded Unit Citation



The 32nd Ordnance Detachment of the Army Ordnance Guided Missile School received the Department of the Army's Meritorious Unit Citation at a ceremony here Friday.

The citation commended the Nike-Hercules unit for its rapid and efficient response to emergency deployment orders issued at the beginning of the Cuban crisis last October.

Commanded by Lt. Loranza D. Malloy, the unit was presented with the citation, signed by Army Secretary Cyrus Vance, at a formal ceremony presided over by Col. William J. Macpherson, commandant, at OGMS headquarters. Music was provided by the 55th U.S. Army Band.

The 32nd is part of Army

Strike Forces maintained on alert by the Continental Air Defense Region of the southeastern states. It was deployed to Homestead Air Force Base in Southern Florida last fall when President Kennedy demanded the withdrawal of Soviet strategic missiles from bases in Cuba.

Col. Macpherson pointed out that the unit's vehicles traveled 40,000 miles to take up their positions and then return home. No major deficiencies were encountered.

The 32nd is assigned to the OGMS Unit Training Command and has aided in the activation and training of more than 100 missile support units from the U. S. Army and 16 Allied nations.

## German NATO Official Visits

The Federal Republic of Germany's representative on the Military Committee of the North Atlantic Treaty Organization in Washington visited the Army Ordnance Guided Missile School here last Wednesday and Thursday.

Maj. Gen. Johannes Steinhoff conferred with Lt. Col. Hans W. P. Finch and Lt. Col. J. H. Hellmers, the senior German Army and Air Force liaison officers here and inspected facilities where more than 300 German missile students are now being trained on Hawk, Sergeant and Pershing weapon systems.

Gen. Steinhoff also met Dr. Wernher von Braun, director of the Marshall Space Flight Center and toured Saturn research and development installations. He was honored by the German officers at a reception at the Officers Club on Wednesday evening.

The German general piloted a T-33 jet trainer on his trip to and from the nation's capitol.

**TRAFFIC CONTROL POINT**—Soldier of the Month SP4 Richard L. Wehling a member of the 291st Military Police Detachment, directs traffic in front of Headquarters, Army Missile Command. Selected as soldier of the month among all troops stationed at Redstone Arsenal SP4 Wehling is exempt from company duty for a month and received a \$25 cash award to boot. He and his family live at Redstone Park.

# The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

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September 11, 1963

## Gen. Zierdt Will Be New Commander

Appointment of Brig. Gen. John G. Zierdt as Commanding General, U. S. Army Missile Command, was announced last Wednesday in Washington by the Department of the Army.

The 50-year old officer had been recommended for his new post as chief of the Army's missile programs by Lt. Gen. Frank S. Beson, Jr., Commanding General, U. S. Army Materiel Command. The Missile Command is a major field command of the Materiel Command.

Gen. Zierdt, a 1937 graduate of the U. S. Military Academy, succeeds the late Maj. Gen. Francis J. McMorrow in the Army's top missile job. Gen. McMorrow suffered a heart attack and died Aug. 24.

Brig. Gen. H. P. Persons, Jr., Deputy Commanding General, Air Defense Systems, who had assumed temporary command on Gen. McMorrow's death, will continue in charge of the Command's surface to air missile systems.

Gen. Zierdt, one of the Army's most experienced officers in the many facets of missile research, development, procurement and supply, held several key positions (See GEN. ZIERDT on Page 3)



**WELCOME BACK**—Brig. Gen. and Mrs. John G. Zierdt are familiar to many at Redstone Arsenal. He was Deputy Commanding General for Air Defense Systems until he was reassigned to the U. S. Army Materiel Command in 1962. He has been Deputy Director of Research and Development there. Last week he was named Commanding General of Army Missile Command by the Department of the Army.

## BOEING SELECTED FOR HIGH G STUDY

The Advanced Research Projects Agency has selected Boeing Aircraft Company as the prime contractor for its high G boost experiment (HIBEX) program, the Department of Defense announced.

The program is another step in the overall Department of Defense research program for providing an effective active defense against the ballistic missile threat. The initial funding of the program will approximate \$6,000,000.

The U. S. Army Missile Command at Redstone Arsenal will very shortly begin negotiating terms of the contract with the contractor and will monitor the program for ARPA. Boeing will perform the work in Seattle, Wash. The Boeing Aircraft Company was selected after a competition involving several qualified contractors and after proposals had been subjected to detailed evaluation by ARPA assisted by a number of organizations possessing a high degree of skill in the areas of competence involved.

## Greek Student Averages 97.9 In Nike Classes

A Greek Air Force lieutenant Friday received one of the U. S. Army's highest academic awards at the Ordnance Guided Missile School.

First Lt. Alexander Fragopanos, of Athens, outscored officers from seven nations with an average of 97.9 in the Nike air de-

fense missile course. Aplytly enough, he lives at 350 Nike St. in the Greek capitol.

Fragopanos won the outstanding student award of the Association of the U. S. Army for the top grade in a class of Belgian, Chinese, French, Greek, Italian, Nor-

(See STUDENT on Page 3)

## General Persons Will Be Kickoff Speaker At Rally

Brig. Gen. H. P. Persons, Jr., Commanding General, U. S. Army Missile Command, will be the keynote speaker for the kickoff rally opening the 1963 United Givers Fund campaign at the Post Theater on Monday afternoon.

Appearing on the kickoff rally program with Gen. Persons will be William F. Davoren, President of the Huntsville-Madison County UGF and representatives of several of the agencies supported by that organization.

## TARGET MISSILES MANAGER NAMED

Col. Richard Irvin, former Special Projects Officer in the Nike Hercules Project Office, has been named Commodity Manager of the Target Missile/MTE (Multi-system Test Equipment) Commodity Office at the Army Missile Command.

As Commodity Manager of the MTE Commodity Office, Col. Irvin will be responsible for managing Army target missiles and for the development and fielding of Multi-system Test Equipment, a complete field maintenance test facility in support of Army missile systems.

Before becoming Special Project Officer of the Nike Hercules Project Office, Col. Irvin was Deputy Director of the Missile Intelligence Directorate.

Col. Irvin came to the Army Missile Command in November, 1962, following a three year tour in the office of the Deputy Chief of Staff for Operations, Headquarters, U. S. Army, Europe.

He succeeds Lt. Col. Willis Clark, former MTE Commodity Manager, who recently was reassigned to the office of the Assistant Secretary of the Army, Installations and Services, in Washington, D. C.

## General Dynamics Receives Contract

The United States Army Sept. 6 announced that General Dynamics/Pomona, a division of General Dynamics Corporation, was awarded \$13,117,000 for continued research and development work on the Mauler weapon system.

Mauler will be a compact, highly mobile weapon which will use solid-fuel, radar-guided missiles to destroy short-range tactical missiles and rockets, and high-performance tactical aircraft that bomb, strafe, harass or reconnoit-

(See CONTRACT on Page 3)

The meeting will be opened with an invocation by Chaplain (Lt. Col.) Wilmer R. Bottoms. Music for the rally will be provided by the 55th Army Band.

The 1963 campaign will open with the 2 p.m. rally and continue for seven weeks, concluding on Nov. 2, striving for a goal of 100 per cent Fair Share participation among the civilian and military personnel of the Army and the personnel of the contractor operated plants on the Arsenal.

A Fair Share contribution will be 80 per cent of one day's pay, according to James J. Fagan, Executive Chairman of this year's drive.

Mr. Fagan said that the solicitation will be conducted along the same lines as in recent years. Last year a record total of over \$200,000 was turned over to charitable agencies.

Other members of the steering committee are: Allan A. Norman, executive secretary; Walter M. (See GEN. PERSONS on Page 3)

## Key Officers Change Duties

Lt. Col. William A. Leonard, who recently returned to the Ordnance Guided Missile School from duty with Military Advisory Assistance Group in Bonn, Germany, has been named Chief of the New Missile and Literature Division, Department of Individual Training, by Col. William J. Macpherson, Commandant.

Prior to his assignment to Europe, Lt. Col. Leonard was the Deputy Chief of the Field Artillery Division at OGMS.

He succeeds Maj. Rudolph D. White, who has been assigned as Chief of the New Missile Branch, New Missile and Literature Division, Department of Individual Training.

At the same time, Col. Macpherson announced the following key staff changes in the Missile Components Division; Maj. William J. Gallegos is appointed Chief of the Electronics Branch and Maj. Ralph L. Nearhoof is now Chief of the Missile Components Division.

# The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wantads—is noon of Friday before publication. The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

## Rocket Ruminations

"It is always wise to keep your words soft and sweet, because you never know when you will have to eat them."

## Only The Best

The past decade has brought significant changes within the Army—in organization, in materiel, and, most importantly, in personnel. In the last few years, for example, missiles have joined the Army's arsenal of weapons and counterinsurgency has become a common word in the soldier's vocabulary.

The hard fact is that the Army of 1963, with its complex responsibilities, demands individuals of high intelligence and discipline—of quality—to carry out its missions. And today, through unprecedentedly high enlistment and reenlistment standards, an Army of quality soldiers has become a reality, not just wishful thinking.

The educational level of soldiers now serving is a good measure of this quality. Where 10 years ago only 48% of our enlisted members were high school graduates, the figure by last year had risen to almost 75%. The national average for men over 25 is 24.6%.

Further, some 91% of all second lieutenants are college graduates, and 70% of all Army officers hold college degrees, compared to a national average of 7.7% for men over 25.

The emphasis on quality has greatly reduced the need for disciplinary barracks. In 1955, the Army had 5 disciplinary barracks with a prisoner population of 6,000. Today, only one such barracks is in operation and the number of prisoners is less than 800.

These statistics clearly show that the Army, by eliminating misfits and recruiting only men of high potential, is insuring that national defense, a matter of national survival, is in the hands of the best. For only the best can effectively perform this vital task. (ANF)

## Contracts Total \$6 Million Plus

The U. S. Army Thursday announced contract awards on the Pershing and Nike Hercules missile systems totaling \$6,414,000.

The Nike Hercules award, in the amount of \$4,254,000, went to the Western Electric Company, prime contractor for the weapon system.

The work, to be performed at Burlington, N. C., is for components for this Army air defense system which is on guard around key cities and defense installations.

The Pershing award, in the amount of \$2,160,000, was to the Martin Marietta Corporation, Orlando, Fla. for continued research and development on the Pershing weapon system.

Pershing, a highly mobile ballistic missile system, became operational last year.

The programs for Nike Hercules

# Congress Says Oct. 1 Pay Raise May Be Retroactive

Washington (AFPS) — Regardless of a delay in final approval of the 1963 military pay bill (H. R. 5555), servicemen have been assured that the effective date of Oct. 1 will stand.

Both Sen. Richard Russell (D., Ga.), Chairman of the Senate Armed Services Committee, and Rep. L. Mendel Rivers (D., S.C.) of the House Armed Services Committee, told Armed Forces Press Service that any delay "would not alter the effective date of Oct. 1."

This means the pay raise would be retroactive if passage is stymied by other, more urgent bills in Congress.

**It is likely, according to reports, that the committees will meet in September. But there exists a remote possibility that the committees will not get together until October or November.**

As it now stands, the Senate and House have passed separate military pay bills that differ in some areas. A conference committee from each one must meet to iron-out the differences before the bill can be sent to President Kennedy for signature.

The House conferees are Reps. Rivers, P. J. Philbin (D., Mass.), F. E. Hebert (D., La.), W. A. Winstead (D., Miss.), Walter Norblad (R., Ore.), W. H. Bates (R., Mass.)

and W. G. Bray (R., Ind.).

A Senate spokesman said an announcement will be made of the Senate conferees.

## Gen. Persons Names Aide, Lt. Mitchell

First Lt. Tilden A. Mitchell, III, has been named Aide-de-Camp to Brig. Gen. Howard P. Persons, Jr., Commanding General, U. S. Army Missile Command at Redstone Arsenal.

Gen. Persons announced that Lt. Mitchell will replace Lt. James H. Tucker who was relieved from active duty at the end of August.

A native of Tifton, Ga., Lt. Mitchell was assigned to the Missile Command in June, 1963, after completing a year of graduate study in physics at the University of Alabama. Prior to his being named as Gen. Person's Aide, he was assigned to the Sergeant Project Office.

Lt. Mitchell is a 1960 graduate of North Georgia College at Dalton with a Bachelor of Science

degree in Physics. While in college he was a member of the Reserve Officers Training Corps and was commissioned a Second Lieutenant in the Army Reserves.

Upon graduation he went on active duty with the 82nd Airborne Division at Ft. Bragg, N.C., and was awarded his Parachutist Badge after completing Jump School. He also attended the U. S. Army Artillery and Missile School at Ft. Sill, Okla.

The son of Mr. and Mrs. Tilden A. Mitchell, Jr., of Tifton, he is married to the former Mary Agnes Taylor, also of Tifton. The Mitchells are the parents of one son, Stephen Taylor, and reside on Redstone Arsenal.

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## Contractors Guide Published by AMC

A new Contractors' Guide, designed to help industries who seek business with the Army, was distributed Sept. 3 to civilian and military organizations throughout the country.

Prepared by the U. S. Army Materiel Command (AMC) in Washington, D. C., the publication describes the AMC procurement structure, outlines the functions of Headquarters, AMC, and its subordinate commands, and lists typical research and development programs and typical end item procurements of each of the sub-commands. Other sections are devoted to project managed items, a description of the life-cycle of Army materiel, and tips on how to operate.

In a foreword to representatives of American industry, large and small, Lt. Gen. Frank S. Besson, Jr., AMC Commanding General, asked for assistance in carrying out the most complex and multi-form procurement program ever attempted in peacetime.

Industrial concerns, educational institutions, and other interested agencies may secure copies of the Contractor's Guide by writing to the Information Officer, Headquarters, U. S. Army Materiel Command, Washington 25, D. C., 20313.

and Pershing are under project management from headquarters located at the Army Missile Command.

The Birmingham Procurement District will administer the Martin-Marietta contract for the Pershing work; the New York Procurement District will administer the Western Electric contract for the Nike Hercules work.



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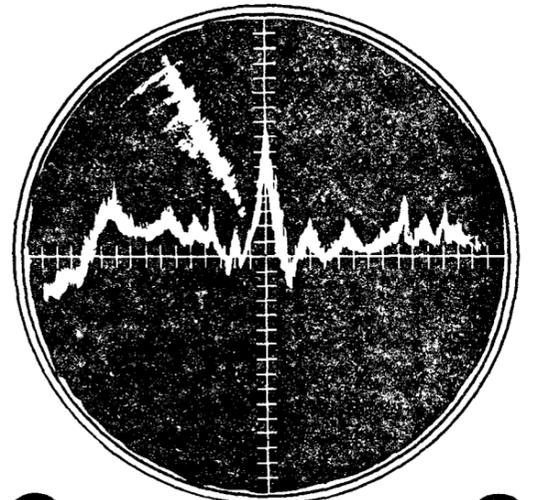
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**GEN. ZIERDT**

(Continued From Page 1)

in the Army missile organizations here from 1956 through 1962. He gained national recognition during an 18-month tour as the Army officer in charge of the massive development program for the Nike Zeus anti-missile missile system.

Gen. Zierdt will be directing an organization of some 12,000 military and civilian personnel centered at two major locations in the United States — Redstone Arsenal and Watertown Arsenal, with a total annual budget of more than one billion dollars. Other personnel of his Command are stationed at missile test sites and with operational Army missile units throughout the Free World.

Weapon systems under his direction range in size from a 44 inch, man portable air defense missile, the shoulder fired Redeye, to the 70 foot long Redstone ballistic missile; in weight from a four pound tank killer, the LAW, to the five ton Sergeant ballistic missile; in range from small anti-tank weapons such as the Shillelagh and TOW to the 400-mile Pershing ballistic missile. They include first line air defense systems such as the Nike Hercules and Hawk guided missiles; weapons being phased out of the Army's inventory such as Nike Ajax and Corporal; others in development such as the Lance ballistic missile and the Mauler air defense system; and others still in feasibility study such as the AADS-70 (Army Air Defense System for the 1970's).

For the past year, Gen. Zierdt has been Deputy Director of Research & Development on General Besson's staff. Prior to that time he had an unbroken tour of six years in assignments of progressively increasing responsibility at Redstone Arsenal.

First assigned here as Chief of the Control Office, Army Ballistic Missile Agency in March, 1956, as a colonel, he played a key role in development of the Jupiter intermediate range ballistic missile. In March, 1958, he moved up to become Maj. Gen. John B. Medaris' Chief of Staff when the Army Ordnance Missile Command was formed.

He took personal charge of the Nike Zeus development program in January, 1960, when he was named Deputy Commander of the Army Rocket and Guided Missile Agency, then moved up to command that element of AOMC in June of the same year. He was promoted to Brigadier General in December, 1960. When ABMA and ARGMA were abolished in a reorganization of AOMC late in 1961, Gen. Zierdt was named Deputy Commanding General, Guided Missiles, of AOMC, the predecessor organization to the Missile Command which he now returns to head.

Born Feb. 17, 1913, in Ashley, Pennsylvania, the general is the son of retired Army Colonel, William H. Zierdt of Grantville, Pa. His wife, the former Elizabeth Lee Matthews, is the daughter of Mr. and Mrs. A. J. Matthews, Jr., of Huntsville, Alabama. The Zierdts have four children; two



**SURPRISE PROMOTION**—Lt. Hollis P. Behannon's first day of work at the Missile Command was unusually eventful. Shown at right, Lt. Behannon was promoted by Col. J. Mort Loomis, Sergeant Project Manager, shortly after the lieutenant reported in for work.

**LT. BEHANNON'S FIRST DAY HERE YIELDS SURPRISE**

Lt. Hollis P. Behannon's first day of work at the Army Missile Command was one of unexpected events.

Half an hour after he reported to the personnel officer for assignment, he found himself in the office of his new boss, Col. J. Mort Loomis.

Col. Loomis is the Sergeant Project Manager for the Missile Command at Redstone Arsenal, Ala.

"I've a job in mind for you,"

**CONTRACT**

(Continued From Page 1)

er near forward battle area positions.

The work will be performed by the Pomona, Calif. plant of General Dynamics Corp. Los Angeles Procurement District administers the Mauler contracts for the Army.

The U. S. Army Missile Command has over-all charge of Mauler development under Col. N. T. Dennis, Mauler Project Manager.

sons and two daughters.

Gen. Zierdt served in the European Theater of Operations during World War II. Post war assignments included a tour as Commanding Officer of Milan Arsenal, Milan, Tenn., and a two year tour in the Office, Chief of Ordnance, as Chief, Ammunition Branch.

He is a graduate of the Command and General Staff College, Ft. Leavenworth, Kan.; the Army War College, Carlisle, Pa., and did post graduate work at the Massachusetts Institute of Technology.

Col. Loomis said after a brief chat with Lt. Behannon. "But the job calls for a captain . . . not a first lieutenant . . ."

Lt. Behannon was visibly disappointed.

But, Col. Loomis knew something his young staff member did not.

"And so," the Colonel continued, "we'll take care of that."

The colonel slyly slid open the drawer of his desk and extracted the silver bars of a captain, neatly wrapped in tissue paper.

In lump form, Lt. Behannon had the three things he wanted most; To work with missiles; to specialize in component procurement; and a promotion.

Lt. Behannon had been promoted to the rank of captain while traveling to his new assignment with the Sergeant ballistic missile system after completing work for his Master of Science Degree in physics at the University of Alabama.

Behannon holds a Bachelor of Science degree in mathematics from Sam Houston State Teachers College, in Huntsville, Texas. Prior to completing work on his master's degree, he was assigned to Fort Hood, Texas.

**Gen. Carver Will Address Reserves**

Maj. C. E. Hammett, President of the Huntsville Chapter Reserve Officers Association announces that Maj. Gen. George A. Carver, Commanding General of the Army IV Corps will be the guest speaker at a dinner-dance on Friday Sep. 20.

Gen. Carver is responsible for the U. S. Army Reserve and ROTC programs in the states of Alabama, Florida, and Mississippi with headquarters at Birmingham.

He graduated from the United States Military Academy in 1933. To date, he has 30 years of commissioned service in the Army. Gen. Carver commanded the 7th Infantry Division Artillery in Korea from March 1960 to April 1961, following which he served a one year tour in the Pentagon. He assumed command of the IV Corps in Birmingham, July 1, 1962.

The event will be held at the Redstone Arsenal Officers Club and will include guests from the Birmingham, Decatur and Muscle Shoals ROA Chapters.

Social hour begins at 6:30 p.m. Dinner will be served at 7:30 p.m. An orchestra will play from 9 til midnight. Tickets may be obtained by calling Lcdr. John H. Graham Ext. 876-7571, Maj. R. L. Goldston, at 539-5170 or Lt. Col. Pete Redding, at 876-6743 or 536-1376.

U. S. citizens now own \$45.5 billion in Series E and H Savings Bonds. This represents nearly one-sixth of the National Debt. Almost \$4.3 billion worth of bonds were purchased in 1962 alone.

**GEN. PERSONS**

(Continued From Page 1)

Redden, assistant secretary; and Al C. LaGrone, finance and reports chairman.

Agency chairmen who have been designated to conduct the solicitation within the organizations include: D. E. Pickens, Office of the Commanding General, Office of the Chief of Staff, Comptroller and Director of Programs and the support staff offices; Maj. I. S. Connolly, Deputy Commanding General, Air Defense Systems Office and the Target Missile and MTE Commodity Office; and R. A. Malone, Deputy Commanding General, Land Combat Systems Office and the Honest John/Littlejohn, Lacrosse and Anti-Tank Aircraft Weapons Commodity Offices.

Chairmen for the Directorates are: Richard S. Edmonds, Procurement and Production; J. W. Linton, Supply and Maintenance; Lloyd L. Lively, Research and Development; and Richard D. Mills, Missile Intelligence.

The Project Office agency chairmen are: Herbert L. Adcock, Hawk; Capt. E. R. Allingham, Hercules; Jerrold S. Robbe, Lance; Jay C. Fryman, Mauler; P. A. Wisner, Pershing; Mrs. Verna L. Price, Sergeant; Ned Bedsole, Zeus; and Arthur H. Sims, Shillelagh.

Col. William J. Macpherson is the Agency Chairman for the Ordnance Guided Missile School and Joseph B. Bennett was selected for the role in the Army Missile Support Command.

The Area Engineers will be represented by N. E. Waldrop. W. D. Fiser is the chairman for Thio-kol, and P. T. Campbell is the key worker for Rohm & Haas.

**STUDENT**

(Continued From Page 1)

wegian and U. S. officers.

Four American soldiers received similar awards for 96-plus averages in the Hawk air defense missile course. They were: Pvt. Louis A. Bigliardi of Melvinville, Mich.; Pvt. Billy Craft of Cody, Ky.; Pvt. Jack O. Ford of San Bernardino, Calif.; and Pvt. Peter Lehmann of Antioch, Ill.

British Lt. Col. Denis Ewart-Evans, who is helping develop new battlefield weapons at Redstone Arsenal, told the graduates that any modern combat commander is lost without competent maintenance men.

Col. William J. Macpherson, Missile School Commandant, presided at the ceremony in the Redstone Arsenal Theater. Eight national anthems were played by the 55th Army Band.

**Movie Schedule**

WEDNESDAY, September 11  
"The Old Dark Horse" (F)

THURSDAY-FRIDAY, September 12-13  
"For Love or Money" (M-YP)  
INCREASED ADMISSION RATES: Adults 40c

SATURDAY, September 14  
"Gorgo" (F)

SUNDAY-MONDAY, September 15-16  
"Rampage" (M)

TUESDAY, September 17  
"Maniac" (M)  
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

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# Craft Shop Offers Variety To Do-It-Yourself

Combined work and play can be as relaxing as a foot in a well-fitted shoe. This fact came to light through a visit to the Post Craft Shop which is divided into woodworking, automotive, ceramics, photography and electronics.

In addition to the spare parts for cars and other motor vehicles, the machine shop has welding equipment. The Craft Shop is a part of the Special Services Officer's bail-

wick. He is Capt. Paul N. Boyer. In charge of the activity, he has Robert Henson to whom the experts on duty in the various shops answer when they encounter problems ranging from supplies to administration.

Meanwhile military families sometimes show up en masse to build and finish something like a boat, getting dual satisfaction from building to boating. The wood working shop finds many a man fashioning that occasional table his wife wants and can't find at any price—an extra chair, a cabinet for the stereo he built himself in the electronics shop—or perhaps a television casing to match the family's den furniture.

He can frame the pictures he has produced from shooting through the processing and finishing in the photography shop. Both the photo and electronics shops are headed by S/Sgt. Dale Meinders, an instructor at the Army Ordnance Guided Missile School.

The builders buy kits and put them together, sometimes with a helpful hint from Sgt. Meinders, often completely alone following the directions that come with the kit.

Meinders also masterminds the photo processing. Both these activities are upstairs over the ceramics shop where molds and kilns are available three nights a week and where novices and master craftsmen rub elbows under the direction of Mrs. Kenneth Yates who has been there for two and one-half years.

After six years of work with ceramics and more than two as a teacher, Mrs. Yates still regards ceramics as a hobby and vows to quit when it stops being fun.

The special paints, and slip (the basic clay for pottery), are purchased by the potters — the molds and four kilns are furnished by Special Services.

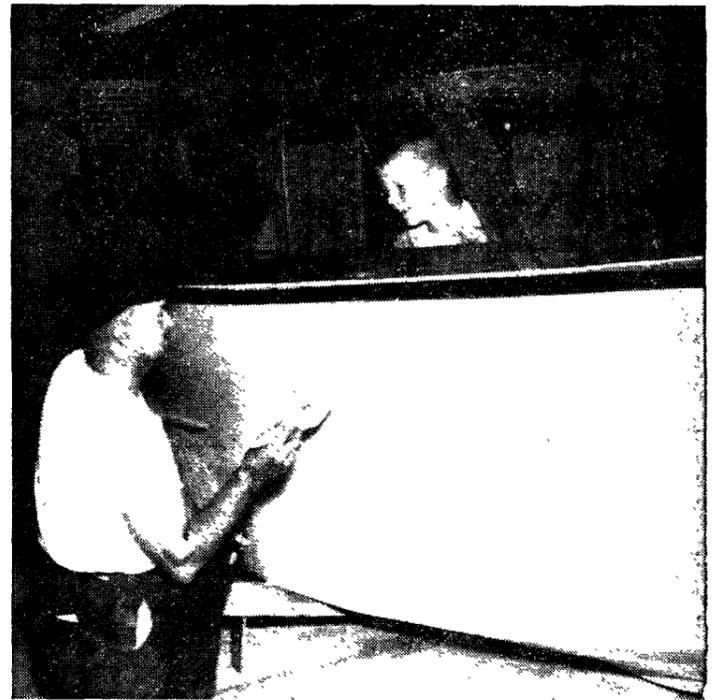
S/Sgt. Robert Fields has been in charge of the automotive business for the past year. Tools are available on a check out basis like books from the library and spare parts may be ordered through the Craft Shop for anything from the earliest antiques to the modern sports car. These extremes are not always readily available but orders for standard U. S. Models can be quickly serviced.

The woodworking equipment is also housed in this shop which grew to such dimensions that the other crafts were forced to find new quarters closer to the Troop area. This suited everyone—except the man with a dead motor. Its a long hike from the barracks.

The Craft Shop also has tucked away in a corner, the tools of a lapidary.



**PARTS AND TOOL SPECIALIST**—Sgt. James Bryant is assigned in the tool room at the Arsenal Craft Shop. He has parts lists available to replace wornout ones on ailing automobiles of all makes. It takes from one day to a week to fill an order, according to where the part comes from—Bryant also checks out tools to military men and dependents who wish to work on their cars.



**START WITH A KEEL**—Fifth grader Charles DiMichael and father, SFC Louis DiMichael discuss the finishing touches of the boat the Sergeant designed and built. In addition to sharing an interest in building and boating, father and son also share the same career interest. Charles aspires to be a career Army man. The boat was begun and completed in the Special Services Craft Shop at Redstone Arsenal. SFC DiMichael is a Pershing specialist.



**COMPLIES WITH REGULATIONS**—Lt. Shan Cheng of Nationalist China, a student at the Army Ordnance Guided Missile School, puts a tag light on his Chevy to comply with the Post Regulations. He has been in the U. S. nine months and is exploring much of the country as time after study allows. He also finds the Special Services Craft Shop a handy place to keep his wheels rolling.



**EVENTUALLY IT TAKES SHAPE**—Capt. James L. Wilson prepares to put a table together in the Craft Shop run by the Special Services Office of the Army Missile Support Command. Power tools of all kinds are available to military personnel and dependents at Redstone Arsenal. Capt. Wilson pursues his woodworking hobby after a day in the Hercules Project Office. Originally from Pasadena, Texas, Capt. and Mrs. Wilson live on post with their one-and-one-half year old daughter, Elizabeth.



**CLEANS MOLD**—Mrs. James Hand, wife of Sgt. Hand in Det. A at the Army Ordnance Guided Missile School, cleans up a mold after painting the vase she plans to fire when she revisits the ceramics sections of the Special Services Craft Shop at Redstone Arsenal. The Sergeant and his wife have been here four years. He is in the Maintenance Section for Sergeant Missile.

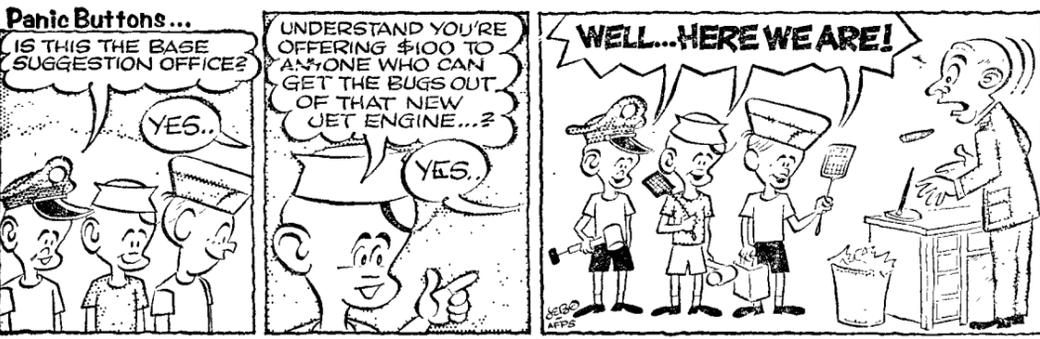
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**ARMY'S TOP LAWYER**, Maj Gen Charles L. Decker, U. S. Army Judge Advocate General, tells Jack Lee Simpson, Warren, Ohio, to "come around in 15 years" if he is still interested in joining the Judge Advocate General's Corps. Jack expressed his interest in a legal career when the two met at a New York pier just before General Decker sailed for England for a two-week study of British criminal trial procedure.

Aug. 9-12, 1941—Atlantic Charter formulated by President Roosevelt and Winston Churchill at a secret meeting off Newfoundland.

April 12, 1945 — President Franklin D. Roosevelt died of a cerebral hemorrhage in Warm Springs, Ga.

**WORLD OF HOBBIES**

Bareback bronco-busting may not be a hobby everyone would find to his liking, but Sp4 William Longbrake, a supply clerk in the Procurement Division at Edgewood Arsenal, Md., does.

Longbrake, who is a Cheyenne Indian with a large ranch in South Dakota, has been around horses all his life. His specialty is bronco-busting.

When he isn't engaged in his normal Army duties, Longbrake may be seen at rodeos with the

traditional wide brimmed cowboy hat pulled low over his dark eyes. He eases himself onto the bare back of a nervous, jerking horse presses his knees tight against the horse's shoulders, squints against the sun, and take a last look around the arena. With a final tug on his hat and a cry of, "let her out," he bursts forth astride a wildly bucking, kicking horse.

With his three brothers, Longbrake learned to break wild horses for ranch use. He entered his first rodeo when he was 15 years old and rode regularly thereafter until he entered the Army.

There, his bareback riding activities were somewhat hampered until he discovered that a town in New Jersey and others in Virginia

sponsored rodeos. In a recent event at Leesburg, Va., he was awarded a cash prize for winning first place in bare back riding.

Coming from South Dakota where rodeos are as popular as baseball, riding in rodeos is natural for him.

For anyone interested in becoming proficient in rodeo riding, Longbrake recommends first riding a saddle horse; then attend a rodeo school where lessons are given in various types of rodeo events.

(AFPS)

Aug. 5, 1958—The U. S. atomic-powered submarine Nautilus made the world's first undersea crossing of the North Pole.

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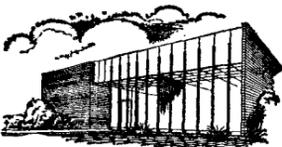
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# Redstone Softball Team Is At 3rd Army Tourney

Headquarters, Army Missile Support Command, Redstone Arsenal's championship softball team, left Saturday for Ft. Jackson, S.C., to participate in the Third Army

Fastpitch Softball Tournament Sept. 9-13.

The team members and their hometown are: SSG John L. Plummer, manager, Marion, Ala.; 1st Lt. John B. Davis, Officer in Charge, Scranton, Pa.; SFC Richard N. Smith, Trinity, Ala.; SFC Edward Waldrof, Elkin, N. C.; Sp5 Steve Rubio, Albuquerque, N. M.; Sp5 Gene Cagle, Canton, N. C.; Sp4 Hans Hansen, Scandinavia, Wisc.; Sp4 Frank L. Wellwerts, Libertyville, Ill.; Sp4 Camillo J. Lubrano, Cleveland, Ohio;

Sp4 Bobby Henry, Jonesboro, Ark.; Sp4 James L. Lyle, Burlington Junction, Mo.; Sp4 Melvin Anderson, Warren, Ohio; PFC Anthony J. Brula, Sheboygan, Wis.; PFC Larry Y. Izawa, Honolulu, Hawaii; PFC Daniel J. Gruber and PFC John F. Topping, Chicago, Ill.; and CWO Robert E. Edmonds Jr., Syracuse, N. Y.

Besides Redstone Arsenal, other Third Army area entrants in the tourney include Ft. Gordon, Ga., Ft. McPherson, Ga., Ft. Benning, Ga., Ft. Stewart, Ga., Ft. Campbell, Ky., Ft. McClellan, Ala., Ft. Bragg, N. C., Ft. Rucker, Ala., and the host team, Ft. Jackson, S. C.

The Third Army championship team advances to the All-Army tournament later this month at Fort Carson, Colo.

## Swimmer Certificates Are Awarded To Fifty-Seven

Fifty-seven swimmers taking instruction at the Special Services pool during this Summer received American Red Cross certificates at a special ceremony Aug. 29.

Instructors were two military policemen: PFC Bob Reynolds and PFC Bill Karback who received their instructor certificates last Spring before the Arsenal program began. Instructors courses are held at the Huntsville YMCA.

Eleven graduates were awarded senior life savers certificates, 18 received junior life saver certificates, eleven became swimmers and 17 intermediate swimmers.

This brought the total receiving some form of swimmer proficiency certification this summer to 234. The courses are sponsored by the Joint Activities Council and conducted under a Red Cross program devised to make individuals aware of water safety rules and provide recreation.

# USC, Northwestern Col. Nielson Wins Aim At Rose Bowl Fishing Contest

(Part One—AFPS Football Series, 1963)

Changes in rules, musical chairs within the coaching ranks, and the powerful statures of Southern California and Northwestern are hoarding headlines in the 1963 college football outlook.

But, however cut-and-dried a football season may appear, the game is notorious for its reversals, surprises and upheavals.

It remains to be seen what "real" effect the new substitution rule will have on major college football, but consensus holds that it will increase spectator interest while sacrificing the three unit system invented at Louisiana State by Paul Dietzel, now at Army.

The controversial rule stipulates that unlimited substitution may be made by either team during all time-outs except on fourth down or on the down immediately after the ball changes hands. But a team may substitute two "wild card" players on fourth down or the down following change of possession.

Ninety-four coaching seats have been vacated and filled at NCAA affiliated schools since last season ended. When the music stopped, notables grabbing new chairs included Hugh Devore at Notre Dame, John Ralston at Stanford, Jim McDonald at Tennessee, Ed Crowder at Colorado, Phil Cutchin at Oklahoma State, Jack Green at Vanderbilt and Johnny Pont at Yale.

Meanwhile, who will rule the roost in national rankings this year? Consensus points its finger at a ripened bunch from Northwestern (Big Ten) and at the defending national champ, Southern California (Big Six).

BIG TEN—Northwestern, it is generally felt, has the best chance to win the conference title and visit the Rose Bowl on Jan. 1, 1964. Coach Ara Parseghian bases his optimism around rugged guard Jack Cvercko and junior quarterback Tom Myers. As a soph, Myers' brilliant passing gave the Wildcats a fast start last year.

In the wings are two perennial Big Ten contenders, Wisconsin and Ohio State. Milt Bruhn must fill the shoes of Ron VanderKelen and Pat Richter. Ohio's Woody Hayes may find the dark horse role his cup of tea.

Minnesota, Iowa, Michigan State and Purdue will make their Big Ten presence felt. Cellar-dwellers Michigan, Indiana and Illinois should show marked improvement.

BIG SIX—The Trojans of USC are busting to repeat, and the "B" boys—Bedsole, Brown, Bame and Beathard—rate "A" attention every Saturday.

Washington looms as a troublemaker, but depth problems cause concern in Seattle. Sanford, UCLA and California are hampered by a combination of things — among them Jack of materiel, coaching changes and Southern California. Washington State plays only two conference games.

(End of Part One)

# Col. Nielson Wins Fishing Contest

KWAJALEIN ISLAND—Lt. Col. Chester D. Nielson won the Labor Day fishing contest in this mid-Pacific nest for the Army's Nike X development effort.

Col. Nielson, deputy chief of the Pacific Field Office, Nike Zeus Project Office, boated a 49 and one half pound wahoo to take top honors.

The colonel is due for reassignment shortly and will be joining his family at Redstone Arsenal for his new duties in ZPO. He has been on Kwajalein since October last year.



(AFPS Weekly Feature)

1. Only two National Basketball Association players have led the league in assists for the past ten years. Who are they?
2. The first U. S. harness racer to record 2,000 victories was: (A) Bill Haughton, (B) Bob Farrington, (C) Stanley Dancer.
3. Who is the only major-league player to get six hits in a game on two occasions?
4. In the past 15 years only one world heavyweight championship title fight has been held outside of the United States. Who fought and where was the fight held?
5. Who was the winning pitcher in baseball's first All-Star game: (A) Lefty Gomez, (B) Carl Essinger, (C) Dizzy Dean?

(Answers to Quiz)

1. Bob Cousy and Oscar Robertson.
2. (A) Bill Haughton.
3. Jim Bottomley.
4. Tom McNeely and Floyd

# Accidents Will Happen If You Don't Watch Out

Simple, routine activities mixed with the right catalyst can often lead to accidents and injuries, said Jack Haynes, Arsenal Safety Director. This was the case in some of the accidents reported by Haynes for the past month.

Included in his report were these incidents:

An employee parked properly in front of an Arsenal building, went inside for a short while and returned to his car. Thinking all was well, he checked traffic only through the rear view mirror, before backing out. He failed to notice another car which had pulled in behind him. Result was a damage claim.

A maintenance man operating a power mower failed to see a rock ahead of his machine. When he ran over the rock, it was thrown from under the mower, struck and broke his leg.

An employee was carrying an exhaust fan up a ladder. The ladder slipped and caused the fan to fall into the man's side, fracturing a rib.

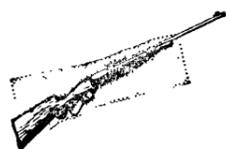
Patterson fought in Toronto, Canada in 1961.

5. (A) Lefty Gomez.

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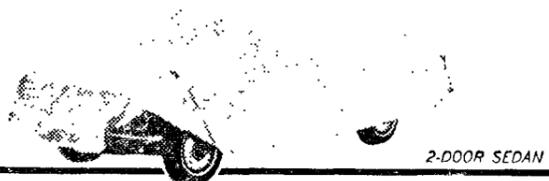


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# Badging Methods Change For Army And Marshall

The badging of official visitors to all organizations at Redstone Arsenal are consolidated in a special reception center beginning Monday, Sept. 9.

The move is designed to make badging more convenient for visitors, result in a saving of time, and reduce operating costs for the government.

The consolidated reception center will be located at the Main Gate, on Martin Road. The center will be shared by all organizations at Redstone.

Visitors planning to go to any Army element, any Marshall Space Flight Center organization, or government contractor firms will receive complete badging at the new reception center.

Previously, official visitors have obtained passes at any of the Arsenal's primary gates. Badges were issued at the headquarters of respective units.

Under the new system, officials scheduled to visit Redstone Arsenal will receive kits containing all necessary credentials to visit specific areas.

Casual visitors, or those having no official business to conduct at Redstone Arsenal, may receive permission to visit areas, such as museums, at the Main Gate reception center or at Gate Number 1, located on Alabama Highway 231.

Signs placed on all major highways leading into Huntsville will inform visitors of the installation's reception center change. There also will be signs in hotel and motel lobbies and cards will be placed in rooms telling visitors to get passes at the Martin Road gate.

In addition, letters have been mailed to firms normally having official representatives call at Redstone Arsenal, informing

them of the reception center change.

Commercial delivery trucks, and persons wishing to obtain permission to visit the Arsenal's salvage yard, may continue to enter any gate.

The new reception center will be staffed with personnel representing all organizations at the defense and space installation.

Organizations located at the Arsenal include the Army Missile Command, Marshall Space Flight Center, the Army Missile Support Command, Nike Zeus Project Office, the Army Ordnance Guided Missile School, as well as government contractors.

The Martin Road entrance, where the new visitor reception center is located, is south of the City of Huntsville, just west of U. S. Highway 231.

## FAMOUS CIVIL SERVANTS

An imposing number of people who later became famous were Federal civil servants at some period in their lives. A few of them are listed here.

• Washington Irving, the author or was an attache at the U. S. Embassy in Madrid from 1826 to 1828; Secretary of the U. S. Legation in London, 1829-32; and the U. S. Minister to Spain, 1842-46.

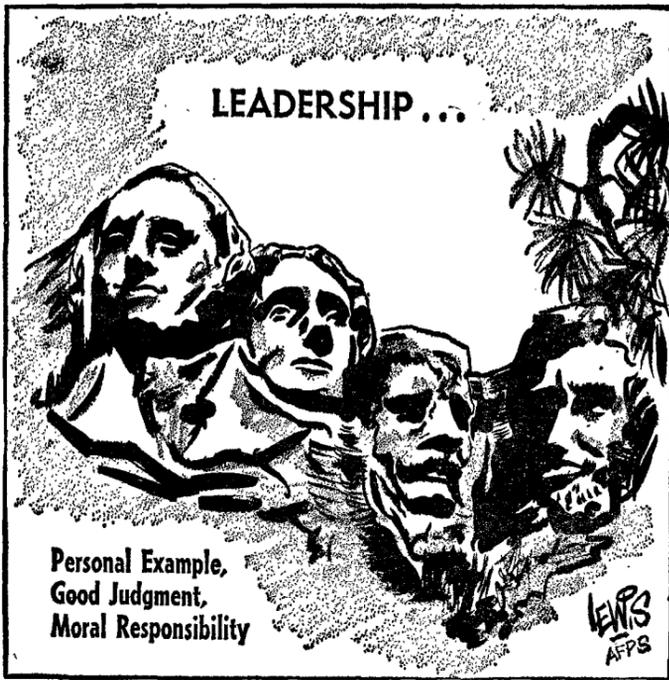
• Clara Barton, founder of the American Red Cross, was a clerk in the U. S. Patent Office, Washington, D. C., 1854-55.

• Walt Whitman, the poet, worked as a clerk in the Department of Interior, Washington, D. C., 1865.

• Knute Rockne, the football coach, was a clerk in the Chicago Post Office from 1907 to 1910.

• Harry S. Truman was appointed postmaster of Grandview, Mo., in 1914.

• James Thurber, the humorist, was a code clerk in the State Department in Washington, D. C., and in the U. S. Embassy in Paris, 1918-20.



## Volunteers Complete Red Cross First Aid Course

Twelve Red Cross volunteers completed a two-week first aid course taught by Joseph J. Kennell, Jr., a member of the Missile Support Command Safety staff.

The course, which teaches immediate care of personal and other people's injuries, is designed to develop safety consciousness. First aid training is also promoted in connection with the Civil Defense program.

Additional standard and advanced first aid courses are planned, according to Wilber D. Conn, acting Field Director of the Red Cross at Redstone Arsenal.

Those completing the recent instruction include Mrs. D. R. Cosby, Mrs. R. M. Denmark, Mrs.

L. Fishback, Mrs. William Muskinson, Jr., Mrs. Roy C. Lyles, Mrs. R. T. Voisine, Mrs. Eldon Wise, Mrs. W. A. Womack, Mrs. S. Gowan, Mrs. Maggie Tucker, Mrs. Pauline Shappley and Miss Shirley Williamson.

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

## Participate In Community Affairs, Sojourners Told

Members of Redstone Arsenal's military Masonic organization were asked Friday evening to step up their participation in community affairs.

Speaking to the local Sojourners chapter, Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School, said the increasing complexity of work by all agencies at Redstone Arsenal has made communication with the civilian community more difficult.

"I sometimes get the feeling that we in the military may be cutting ourselves off from the understanding of our fellow citizens, merely because our knowledge has become so complex that it is difficult to discuss it with anyone except another engineer or technical specialist," he said.

Col. Macpherson said the rapid growth of Redstone Arsenal and the city requires much more personal effort to maintain the close touch that once prevailed here.

Official relationships are doing well through various Advisory Committees, he said, but urged

the Sojourners to participate more widely in civilian community work through membership in civilian service clubs and groups.

Col. Macpherson was introduced by Maj. Rudolph D. White at the dinner meeting at the Squirrel Hill Officers Club. About 75 members of various Masonic orders attended.

## Top Talent Scheduled For Huntsville

The Community Concert Association has lined up four top attractions for the coming season according to the Association President, Harold G. Zier.

On Nov. 11 Mantovani and his orchestra are scheduled; Jan. 6 is Anneliese Rothenberger, lyric soprano; Feb. 11 the Zurich Chamber Orchestra, and on Apr. 9 pianist Philippe Entremont.

The ticket committee is at work now renewing memberships and selling new ones. Attendance at the concert has been limited for several years to holders of season tickets.

The Association has scheduled the annual campaign dinner at Michael's Restaurant Sunday, Sept. 15 at 6:30 p.m.

The season ticket price is the same as last year: \$10 for adults and \$5 for students.



**DISTAFF FOUNDATION DANCE**—Mrs. H. C. McClain (left) is the ticket chairman for the Army Distaff Foundation benefit dance scheduled Sept. 28 at the Squirrel Hill Officers Club. She enlisted the aid of a number of members of the Redstone Arsenal Officers Wives Club to help her promote the ticket sale including (second from left to right) Mrs. I. O. Drewry, wife of the Nike Zeus Project Manager; Mrs. Howard P. Persons, Jr., wife of the Commanding General, Army Missile Command; and Mrs. William J. Macpherson, wife of the Commandant of the Army Ordnance Guided Missile School.

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## RCA Man To Talk About Color TV

John Wentworth, manager of Educational Electronics with RCA Broadcast and Communications products, will be the guest speaker at the Sept. 17 meeting of the Society of Motion Picture and Television Engineers at the Squirrel Hill Officers Club.

The social hour begins at 6 p.m. with a buffet supper at 7 in the Hawk Room.

Wentworth will discuss current approaches to color television in Europe and America.

Karl LaRoche, 876-7611 and Dick Miles, 877-2668 have complete details of the meeting.

## Tabaka To Talk To Personnel Management Group

The Huntsville Chapter of the Society for Personnel Administration will hold its first 1963-64 meeting Tuesday, Sept. 17 at 7 p.m. at the Squirrel Hill Officer's Club.

Victor P. Tabaka, Atlanta Management Consultant, will be the guest speaker. His topic will be

Wire. He is also active in the Mason Dixon Toastmasters Club and coach of a pee wee ice hockey league in Huntsville.

"Understanding Managers — The Attitude of Personnel Workers."

For the past several years, Mr. Tabaka has been summer lecturer in Executive Development Programs conducted by the University of Michigan, Tulane University and Georgia Tech. He has been head of his own management consulting firm in Atlanta, Georgia since 1945.

He holds a BA Degree from St. Johns University; MA Degree from the University of Wisconsin and has done graduate work at the University of Wisconsin toward his Ph.D. His major subjects were education, psychology and personnel administration.

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## Electrical, Electronics Engineers To Hear Cremin

The Huntsville Chapter of the Institute of Electrical and Electronics Engineers will hold its first annual meeting at the Squirrel Hill Officers Club tonight, beginning with a social hour at 6:30 p.m.

John Cremin, physicist in the Nike Zeus Project Office of the Army Materiel Command, will present a lecture on Electronics in Decision Making and Prediction.

Cremin, a graduate from Boston College with a master's degree in Communications was assigned in the Army Rocket and Guided Missile Agency until the Army Ordnance Missile Command became the Army Missile Command.

He is presently the managing editor of the IEEE magazine, Live

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### THIOKOL PICNIC TO BE SEPT. 14

Thiokol Chemical Corporation—Huntsville Plant employees with their immediate families will be guests at the plant's annual Employee Open House and Picnic on Saturday, Sept. 14.

The facilities for developing, producing, and testing solid propellant rocket motors will be open for inspection between 10 a.m. and 3 p.m. A barbecue lunch will be served.

Guided tours will be conducted through administrative, research, and production areas. A display of Army missiles and a movie on rocketry will be available for continuous viewing.

Pony rides and other entertainment have been arranged for children.

The Employee Open House and Picnic was established as an annual event in 1962. Last year more than 7,000 people attended. A similar attendance is predicted for this year.

### Births at Post Hospital

Jonathan David Fergesen, 7 lbs., 5 ozs., Aug. 21, son of Sp/4 and Mrs. David E. Fergesen.

Gwenn Karen Robins, 7 lbs., 4 1/4 ozs., Aug. 28, daughter of Sgt. and Mrs. Willie B. Robins.

Darryl Lee Kuykendall, 6 lbs., 13 1/2 ozs., Aug. 29, son of Capt. and Mrs. George B. Kuykendall.

Richard Roy Florey II, 6 lbs., 12 ozs., Aug. 30, son of Capt. and Mrs. Richard R. Florey.

Tina LaVeda Hunsley, 8 lbs., 1 1/2 ozs., Aug. 31, daughter of Pvt. and Mrs. Jerry L. Hunsley.

Robert James Farleo, 8 lbs., 1/2 ozs., Sept. 2, son of Pfc and Mrs. Ronald E. Farleo.

### At the Service Club

By: Brenda Hanson

"For its a long, long time from May to December . . ."

But the days grow short when you reach September . . ."

Now there are lines from an old and ever-popular song, and according to these "Short-timers" the words still ring just as true as they ever did. It seems that there are those among us who are indeed getting short when they reach September. So, to help you pass the time until then, I extend a special invitation to you to stop by the Service Club and while away some of your extra hours.

Wednesday the 11th, the weekly dance class will take over the Main Lounge for instructions in the foxtrot, rhumba, samba and various other dances. If you are interested in these classes, you may contact the Service Club at 876-4531 for further information.

Thursday night is the night for cards. Recently the fad at the club has been bridge. If you are interested in learning to play, come down to the club. Molly is an excellent instructor. Thursday night the lounge and the tables will be reserved for bridge players.

Friday the 13th, we scheduled a Table Tennis Contest beginning at 8 p.m. hrs. The jinz could be in your favor. Enter the contest, win and take home the prize.

Saturday night we have a program to test your musical ability. We have on program for 8 p.m., "Stop the Music." Betty will play the music and the first to identify the tune, wins the prize.

Sunday morning, Coffee Call begins at 9 a.m. from the Service Club kitchen. Climaxing the evening is the Record Dance to begin at 8 p.m. The dance will

### Data Processing To Be Taught At University Center

Commercial Data Processing Methods will be taught at the Huntsville Campus of the University of Alabama during the fall quarter beginning Sept. 30.

The course, being offered for the first time here, is designed for people who do not have a technical background and will have as its main objective acquainting the participants with basic principles and applications of commercial data processing. No prerequisite background will be required of the participants.

Frank H. Patterson, Marketing Representative for International Business Machines in Huntsville, will be the instructor of the course. Patterson holds the master's degree in business administration from Tulane University and has a wide experience with IBM in the data processing service.

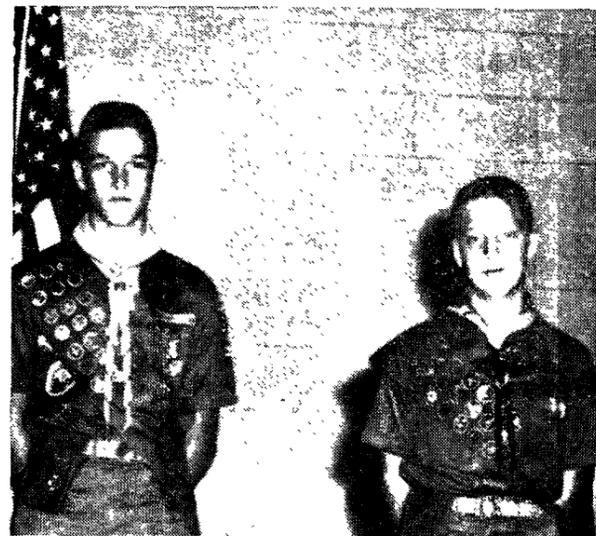
Topics to be considered in the course include the need for and swing under the theme of "Swirl-A-Way."

Monday night, the evening of games will begin at 8 p.m. in the main lounge.

Tuesday night, the Huntsville Junior Hostesses will meet in the Small Lounge at 7 p.m. to discuss the October program. All the Hostesses are urged to attend the meeting.

There are quite a few fascinating programs in the offing for the remainder of September, including an orchestra dance, Post-Wide Pool Tournament, Junior Hostess Favorite Dish Night and many other interesting programs. So keep in touch with us.

—Brenda



ARSENAL SCOUTS WIN EAGLE RANK—Bill Macpherson (left) son of Colonel and Mrs. William J. Macpherson and Harvey LaReau (right) son of CWO (Ret) and Mrs. Harvey H. Lareau received the Boy Scout Eagle Award during Court of Honor ceremonies at the Redstone Arsenal Post Chapel recently. Both Eagle Scouters are members of Troop 308 with Maj. Michael J. Dooley, U. S. Army Ordnance Guided Missile School as the Scoutmaster.

evolution of the computer, a basic study of computer systems, basic concepts of computer programming, the design and development of data programming, and a study of computer data processing for various applications

Among the applications in which data processing methods may be utilized are payroll and labor distribution, accounts receivable, accounts payable, and inventory control.

September 30, 1938 — Munich Agreement signed. The Sudetenland and all important Czech military strongholds were yielded to Germany in an attempt to avoid European war.

### GARDEN CLUB PLAQUE

Lt. Col. and Mrs. Earl P. Otto received the Redstone Arsenal Officers Wives Garden Club plaque for August.

Judges were Mrs. J. B. Cobb, Mrs. F. C. Atkinson and Mrs. R. P. Davidson. They made the award on the luxurious and well kept lawn and the splashes of color in the beds of marigolds.

### BAKE SALE

The Protestant Fellowship of the Post Chapel is holding a bake sale at the Main PX at 9 a.m. on Saturday, Sept. 14. The proceeds will go to support the projects of the Protestant Fellowship. All those interested in good home baking are invited.

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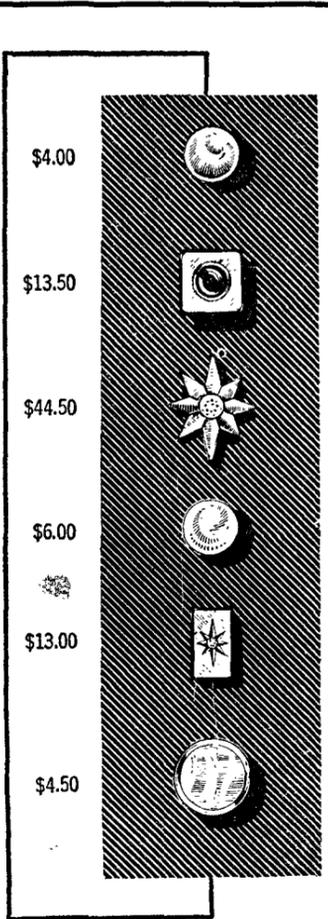
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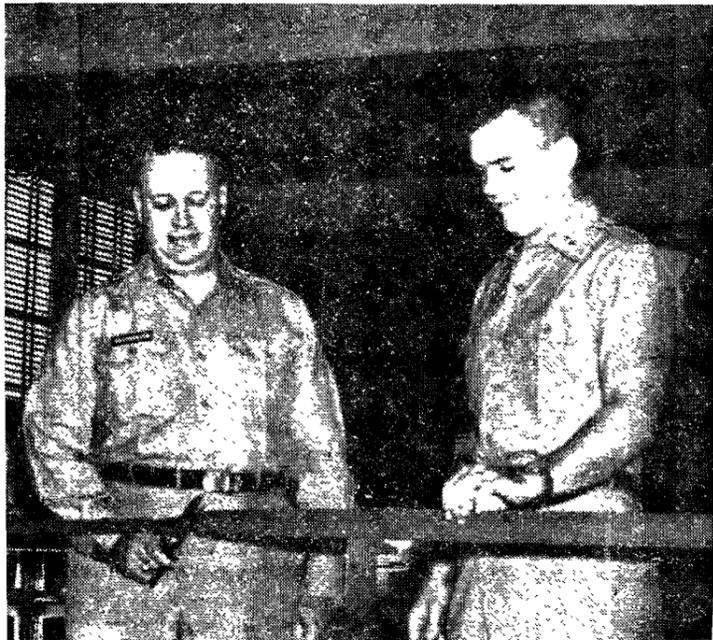
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BOOKSTORE OPENS IN BLDG. 3481—Col. William J. Macpherson, (left) commandant at the U. S. Army Ordnance Guided Missile School cuts the ribbon to officially open the OGMS Book Store. Lt. Frederick Richter, (right) officer in charge, holds ribbon.

### BOOKSTORE SALES SOAR TO \$1000 ON OPENING DAY

Record sales of \$1,005 were registered at the Ordnance Guided Missile School Bookstore Sept. 3 when it opened for business in quarters in Building 3481. Lt. Frederick Richter, officer in charge, said the receipts of the first day in the new location were more than double the previous high which was set last May. The Book Store was formerly located in the OGMS Technical Library Building. It moved to provide room for the transfer of the Redstone Arsenal Library in Building 3323. The OGMS Bookstore carries a wide variety of books, school supplies, typewriters, drafting instruments, tools and radio and elec-

### Veteran's Inquiry Officers Shift in Hill's Flag Flying Policy

Washington (AFPS)—A veteran's observation of the flag flying at the Nation's Capitol on Memorial Day has led to a change in congressional flag-flying here. Noticing the flag was at full-staff at the time when the Nation's officers are flown at half-staff all over the world in respect to the dead of all United States' military heroes, Albert J. Gifford, a New Jersey veteran, wanted to know why. He contacted his state Senator, Harrison A. Williams (D., N.J.), and asked why the flag was flown at the top of the staff. Williams sought out Vice President Lyndon Johnson and received word that henceforth the flag will be flown at half-staff from sunrise to noon on Memorial Day. In the past the flag never was lowered when Congress was in session. The flag is lowered upon the death of the President, Vice President, a member of Congress or for a special occasion when ordered by the Vice President or Speaker of the House. It was brought to half-staff when the atomic submarine Thresher was lost, even though Congress was in session.



See the U.S. Army's BIG PICTURE, reporting to the Armed Forces and to the American people. This award-winning documentary series appears on more than 350 television stations throughout the nation. Consult your local TV schedule for time and date.

### CENTER OFFERS GEOLOGY COURSE

The University of Alabama will offer at its Huntsville campus two new general geology courses beginning this Fall quarter. Physical geology is scheduled during the Fall quarter, and historical geology will be scheduled during the Winter quarter.

Offered for the first time on the Huntsville campus, these geology courses will provide credit toward basic science requirements for undergraduate students; and the courses will be designed to be of special interest to adults wishing more knowledge of geology.

Physical geology will include a study of natural processes governing formation of the earth. The processes include vulcanism, mountain making, metamorphism, erosion, sedimentation, and classification of topographic features. Methods of topographic interpretation and studies of common rocks and minerals are included in the course.

Historical geology will deal with the development of the earth from a featureless planet to its

present form. Theories of planetary origin, lunar geography, fossils and sedimentary rocks, the geologic periods, geologic map interpretation, and development of the geologic time scale will be studied.

The courses will include Saturday morning field trips to areas of local geologic interests. These areas include rock exposures from the Ordovician, Silurian, Devonian, Mississippian, and Pennsylvanian periods in the nearby Cumberland Plateau and Interior Lowlands. Areas for fossil, mineral,

and rock collecting are available near Huntsville. Other interesting geologic areas include rivers, springs, and caves.

The courses will be taught by John R. Rogers of Brown Engineering Company. Rogers formerly was associated with Texaco Inc. and Shell Oil Company, and holds an M.S. in geology from the University of Illinois.

September 4, 1917—First American Army soldiers killed in World War 1 at Dannes, France.

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1959 FORD  
GALAXIE Fordor with V-8 motor, automatic shift, radio and heater. . . . . \$795.

1962 OLDSMOBILE  
STARFIRE Coupe . . . local one-owner car with only 10,000 actual miles (spare tire was never used). Has all extra equipment. It has a light blue finish with white top. One-ownership verified and carries guarantee. . . . . \$3495.

1960 CHEVROLET  
BEL AIR Four-Door with "6" motor, automatic shift and this car is like a new one. Reduced to . . . . . \$1495.

#### 2nd Cars

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4-door sedan. All white. Like new . . . . . \$895.

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IMPALA Four-Door Hardtop with solid white finish and it's a local car. Anyone would be proud to own this one. \$1295.

1959 RAMBLER  
CLASSIC "6" Four-Door Sedan with std. shift, radio, and heater and it, too, is like a new one. \$1095

1958 CHRYSLER  
WINDSOR Four-Door with power brakes, power steering, 25,000 miles and it's a one-owner car and like new . . . . . \$1095.

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Custom "300", 4-dr. Low mileage. Like new. . . . . \$695.

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Red convertible, power steering & brakes. . . . . \$395.

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# Howard Overcomes Blindness, Repairs Cameras

Bill Howard's friends have a saying: "He's not handicapped. He's just blind."

Despite the fact that William B. Howard works in perpetual darkness, he has created for himself an enviable reputation of being one of the finest camera repairmen at the Army Missile Support Command at Redstone Arsenal.

Howard's work with high speed, delicate camera cogs is difficult and demanding at its best. And for Howard, it's doubly complicated since he is totally blind.

But, as he cheerfully says: "You don't really have to see a camera to work on it—provided your sense of 'feel and hearing' are good enough to serve as your eyes."

Howard's fellow workers at the Maintenance Support Division of the Army Missile Support Command consider him an exceptionally courageous man. He lost his eyesight at the age of 15.

Howard finds his lack of sight,

at worst, a minor liability. "Sure, I could do better with normal eyesight," he says. "But I do okay as it is."

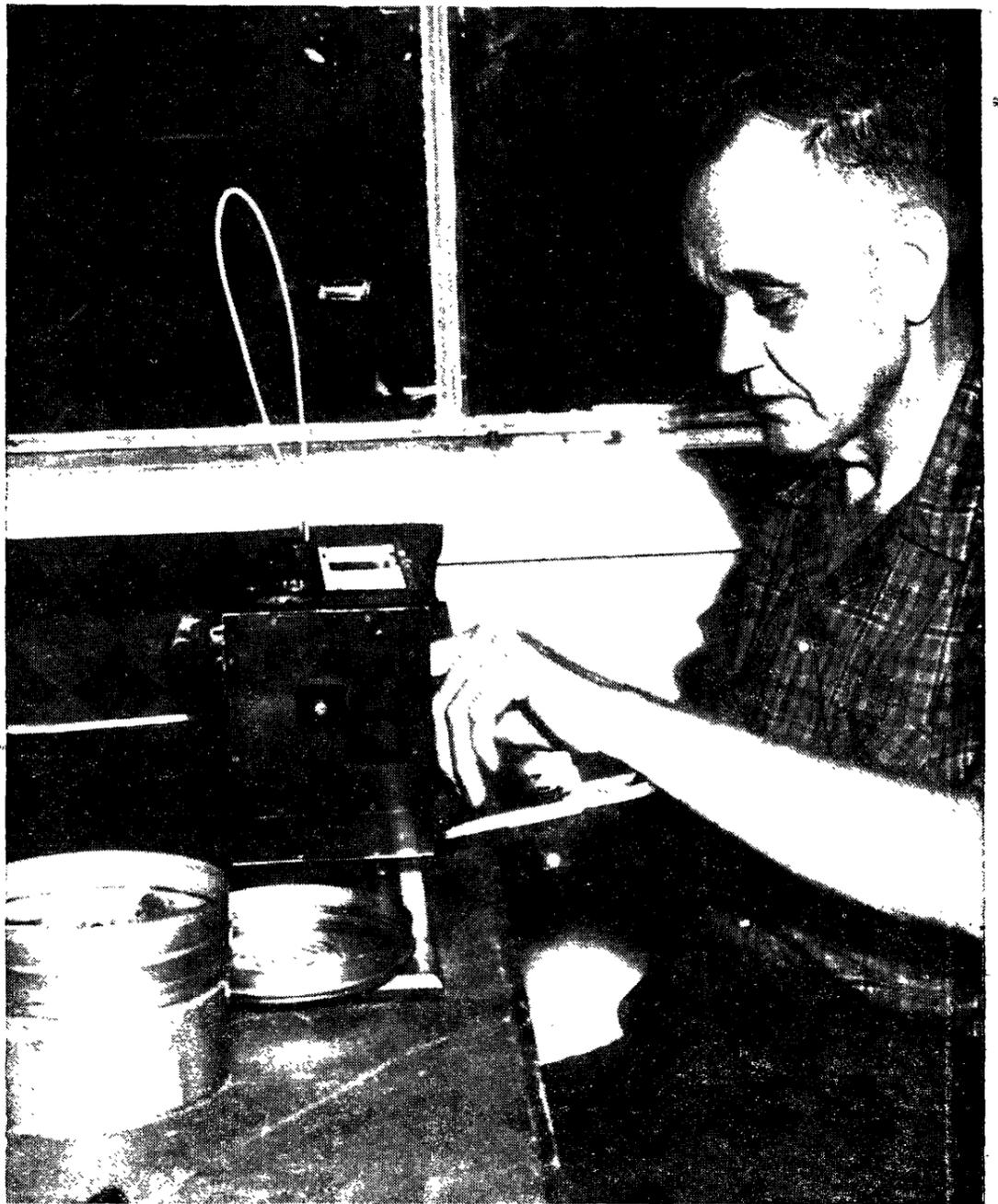
Howard is far from the type individual who is content merely to sit behind a work bench: he has developed still another remarkable skill.

He designs his own tools for use in his delicate work on special high speed cameras, some valued in the thousands of dollars. Howard's self-styled tool kit contains about two-dozen precision instruments—all conceived and tailored to do a specific job on a particular camera.

Howard's repairs of a wide variety of complicated cameras have won for him the reputation of being one of the finest craftsmen at Redstone Arsenal.

"But I could never have done it without the help of others," he emphasizes.

For example, Howard points to an engineering technician in the



**BLIND MAN REPAIRS CAMERAS**—William B. Howard, who is totally blind, repairs precision cameras at the Army Missile Support Command. He works with tools which he has specially designed. The camera repairman cheerfully accepts his handicap and has created for himself an enviable reputation. (Army Photo.)

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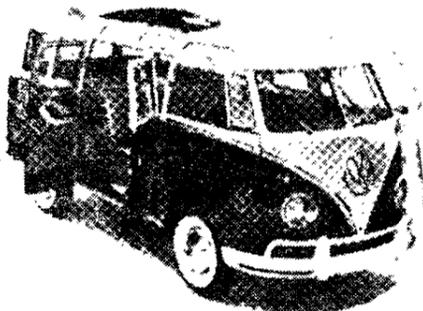
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Missile Command's Test and Evaluation Laboratory who makes his tools after the camera repairman describes what type instruments he needs.

Friends of Howard are quick to point out that his lack of sight is little handicap to him. "His sense of feel and hearing are sharp as a needle," says one.

"Let him drop a pin-size screw and his ears tell him exactly where to pick it up. And with his extraordinary sense of feel, he has no difficulty in finding the right one."

Howard repairs cameras behind an orderly work bench inside a small building located on one of the Arsenal's test ranges. His supervisors are free-wheeling in their praise of his work and particularly his ambition.

One says, "He used to study electronic courses during his lunch hours; we did everything we could to help him, but he didn't need much help. Just steer him in the right direction, and he'll make it from there."

Howard himself is unusually modest and unassuming. He declines to say very much about himself, preferring to let his supervisors and friends do the talking.

The camera repairman has been at the Army Missile Command for 10 years. Before coming to Redstone, he was a small arms repairman at Anniston Army Depot.

He learned the craft of repairing small arms with the aid of friends who assisted him in mastering the basic principles.

And prior to that time, he attended the Alabama School for the Blind for eight years.

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## Army ROTOPLAN Discontinued After 10-Month Tests

Washington (AFPS) — The Army has called a halt to ROTOPLAN—the experimental program for rotating combat units on six-month duty tours in Europe.

The program, which had been in operation for 10 months, has been discontinued because it "generated personnel turbulence" and did not produce expected reduction in the spending of dollars abroad, the Army announced.

It marked the second time in recent years that the Army has abandoned the idea of rotating troop units overseas. The first experiment, which ran from 1955 through 1959, involved full divisions.

The program now being termin-

ated was announced in July, 1962. It involved five battle groups, or battalions, of 1,500 men each.

ROTOPLAN was instituted primarily to improve the Army's reaction time to possible crises, and to reduce the number of dependents overseas, thereby cutting gold dollar expenditures.

Army officials said that under ROTOPLAN, troop movements by air were expected to decrease total "reaction time" in the face of any military crisis.

The Army revealed that there was no noticeable reduction in the

number of dependents living overseas. Quarters vacancies resulting from ROTOPLAN were quickly filled by soldiers on long-tours whose families had been on waiting lists.

The moving of men also had an adverse effect on the units from which replacements were drawn and to which the replaced men were reassigned.

According to the Defense Department, there are approximately a half-million dependents of men in all the services living overseas. Of these, 219,000 are Army dependents — 150,000 of whom are living in West Germany.

The 1963 Freedom Bond Drive is under way, and the Treasury is urging every citizen to buy at least one extra bond during the campaign—for the nation's future, and their own.

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SUNDAY — 1000 and 1115 hrs., General Protestant Services. (Chapel Nursery open during these Services.)

Church School — 1000 hrs. — ages 3 years to adult. Classes for children and young people, grades 1 through 12, meet in Chapel Annex, Bldg. 3151. All military and civilian personnel, and their families are welcome.

Sunday Evening Worship—1900 hrs

### CATHOLIC

SUNDAY — Masses — 0730, 0845, 1230, and 1700 hrs. (Chapel Nursery open during Masses.)

BAPTISMS — 1330 hrs., or by appointment.

TUESDAY — Perpetual Help Novena — 1930 hrs. Choir Practice — 2000-2100 hrs.

THURSDAY — Instructions — 1900 hrs. Confessions — 1800-1930 hrs. Mass — 1100 hrs.

DAILY MASS — 1100 hrs. (Monday through Saturday)

REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday School. 1100 hrs. — Morning Worship Service. 1800 hrs. — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hrs. — Evening Worship Service. (Nursery is open for both Services.)

### JEWISH SERVICES

Conservative Jewish Services are held at 2000 hrs, Friday at the Unitarian Fellowship Hall at Clinton & White Streets, Huntsville.

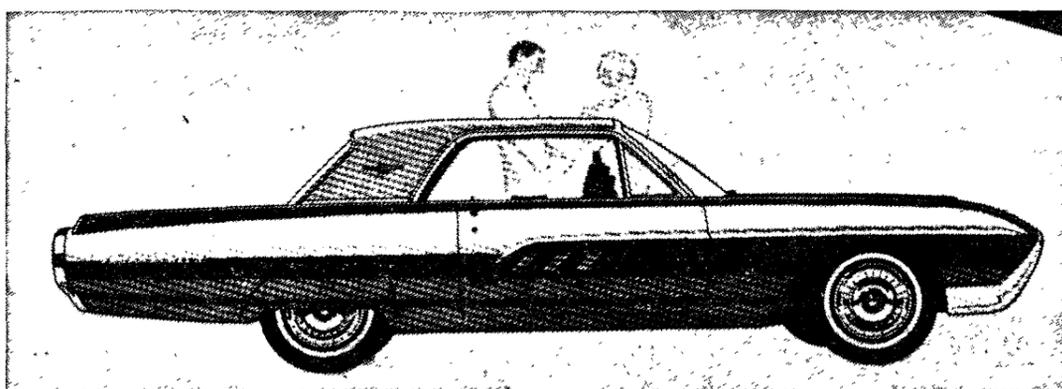
Reform Jewish Services are held at Temple B'Nai Sholom, 2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE, Huntsville. Sunday School at 0930 hrs.

For further information concerning these Services, contact Rabbi Stein, 536-4771.

CHRISTIAN SCIENCE SERVICES — SUNDAY — 1100 HRS.

Wednesday services are held at 1000 hrs. at S. White and Wells Avenue, Huntsville. For further information or transportation, call Christian Science Armed Services Minister, Collect 776-2791.

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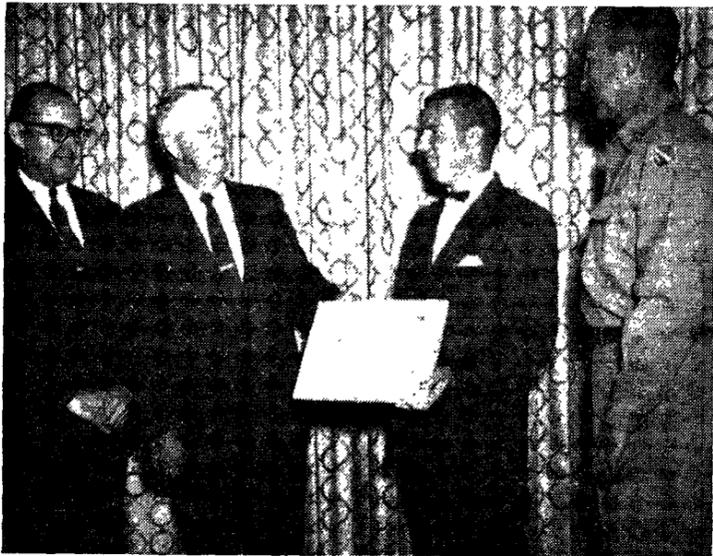
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**PRESENTS CERTIFICATE OF MERIT**—Dr. W. F. Arendale (left), Technical Director of Thiokol's Alpha Division looks on as W. L. Gayler, State of Alabama Industrial Relations Department, presents a Certificate of Merit from the State of Alabama to J. B. Galloway, Technical Director of Thiokol's Huntsville Plant, in recognition of the Plant's achievement of 2 million-manhours worked. Col. Thomas W. Cooke, (right) Commander of the Army Missile Support Command, was also on hand.

## Two Million Man Hours, No Lost Time Accidents

Thiokol Chemical Corporation, Alpha Division's Huntsville Plant Friday marked the achievement of two million manhours without a lost time accident.

The mark was passed on Wednesday, Sept. 4. In ceremonies attended by representatives of the Army Missile Command, Col. Thomas W. Cooke, Commander, Army Missile Support Command, and representatives of the Alabama Industrial Relations Department, Huntsville Plant employees received two two-dollar bills each in recognition of the accomplishment.

W. L. Gayler, State of Alabama Industrial Relations Department, Division of Safety and Inspection, presented a certificate of merit to the Huntsville Plant, recognizing the reaching of the 2,000,000 man-hour mark.

J. B. Galloway, Technical Di-

rector, congratulated all employees for their parts in gaining the record, and said that he felt the next goal of 3,000,000 manhours would be attained. That goal can be reached in December of this year.

This is the fourth time that employees of the Huntsville Plant have had more than 2,000,000 manhours without a lost time accident. The 3,000,000 manhours will establish a new record for the plant.

During fiscal 1963, the Huntsville Plant had 3,925,825 manhours with only one disabling injury. This is an accumulated frequency of 0.2 disabling injuries per million manhours. The national frequency rate among chemical industries is 3.0. It is 6.0 for all industry.

During 1962 more than 60% of the total of Series E Savings Bonds sold were in smaller denomination bonds—\$25 through \$200. The volume of \$50 E Bonds sold set a record high for peace-

## Maj. A.A. McNeil Named Head Of Protocol Office

Maj. Arlen A. McNeil, newly assigned to the Army Missile Command from his previous station in Korea, has been named Secretary of the General Staff at the Missile Command.

Included in his duties will be the function of Protocol Officer, and administrative activities related to the General Staff.

Maj. McNeil is a native of Amarillo, Texas. He received his Bachelor of Science degree in education from Oklahoma State University, at Stillwater, Okla.

A holder of the Bronze Star and the Army Commendation Medal, Maj. McNeil is married to the former Margaret Ellen Kramer, of Oklahoma City.

The couple has one son, Richard Arlen, 9, and a daughter, Janet Lyn, 6. The family resides at Redstone Arsenal.

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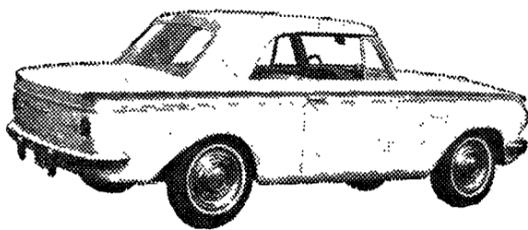
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1954 OLDSMOBILE Two-Door Hardtop with radio, heater and auto. shift. .... \$475.	1958 RAMBLER Classic Wagon ..... \$975!	1958 RAMBLER Four-Door ..... \$875!
1959 FORD Half-ton pickup truck. Only .... \$975.	1959 CHEVROLET Wagon ..... \$1275!	1955 PONTIAC Four-Door, Radio, Heater, Automatic Shift. Nice ..... \$575!
1958 FORD Three-quarter truck. Good one. .... \$875.	1958 RAMBLER Ambassador Wagon ..... \$975!	1958 MERCURY Four-Door ..... \$375!
1955 DODGE Half-ton pickup truck ..... \$675.	1958 FORD Wagon ..... \$875!	1960 RAMBLER Four-Door, Overdrive ..... \$975!
1957 FORD Dump Truck. Good old "work horse." ..... \$1150.	1960 OLDSMOBILE Four-Door. Unusually nice. .... \$575!	1955 MERCURY Four-Door ..... \$475!
1961 OPEL Station Wagon ..... \$1075!	1958 CADILLAC Four-Door ..... \$875!	1957 BUICK Four-Door ..... \$475!
1960 VOLKSWAGEN Sedan ..... \$1075!	1960 PLYMOUTH Wagon (9 Passenger) ..... \$1475!	1959 RAMBLER Four-Door ..... \$875!
1959 CHEVROLET Impala 4-Dr. .... \$1275!	1960 PLYMOUTH Wagon (6-Passenger) ..... 1475!	1958 OLDSMOBILE Four-Door ..... \$975!
1960 CORVAIR Four-Door ..... \$875!	1959 CHEVROLET Impala 4-Dr. Air, Power, Radio, Heater ..... \$1375!	1958 CHEVROLET Four-Door ..... \$775!
1958 FORD Fordor ..... \$675!	1961 PLYMOUTH Convertible. Standard shift. Radio, Heater ..... \$1575!	1959 DODGE Two-Door ..... \$875!
1961 METROPOLITAN Gas-Saver ..... \$1075!	1959 RAMBLER V-8, Radio, Heater, Automatic ..... \$675!	1960 FALCON Four-Door ..... \$875!

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Page 14 The Redstone Rocket — September 11, 1963

## 1. For Rent

FOR RENT—Large trailer lot, fenced. One mile Gate 7, Arsenal, Williams Circle. T. H. Speegle, 772-6270. tlf

FURNISHED BRICK APTS. — 1 or 2 bedrooms. Ideally located for employees using Patton Road entrance to Redstone Arsenal. Call 536-0775. tlf

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

FOR RENT — 3 room furnished apartment, private front and back entrance, air conditioned, natural gas heat, bath tub and shower, off-street parking, married couple only, \$75.00 per mo., 419 East Clinton St., phone 534-4551 or 534-5127. tlf

FURNISHED — 2 room apartment, including lights, water and telephone 601 N.E. Holmes Ave., Phone 534-5763 tlf

## 2. Cars For Sale

1956 CHEVROLET—4 door Station Wagon, radio, heater, 6 cyl., standard trans. A very nice looking station wagon. Call 536-5620. tlf

## GLEN PARK APARTMENTS

Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.

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VOLKSWAGEN OWNERS — Genuine parts available. All work done is aircraft quality by aircraft technicians. Satisfaction guaranteed. Dick Trulson Auto and Aircraft Repair, 612 W. College St., Fayetteville, Tennessee, phones 433-1294 or 433-1337. Call anytime. tlf

FOR SALE—1956 Dodge, 4-door, Automatic, R.H. Good driving condition, excellent family car. \$345. Inspect at 3516 Hutchens Ave., Monte Sano or Phone 534-5491. tlf

CASHI FOR YOUR CAR—We need all makes and models. We will pay you more. We buy and sell imports, too. TEXAS AUTO SALES, Phone 536-6121. tlf

## 3. Miscellaneous

MODERN HEALTH CLUB SERVICES—Central Y.M.C.A., 203 South Greene 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. tlf

A B S SECRETARIAL SERVICE — 408 Clinton Avenue, W. Huntsville, Ala. Phone 534-6451. CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering. Employment applications prepared (Government and other). Notary Public. (Our office or yours). tlf

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UHF CONVERTER, \$11.97 21 inch 90 degrees picture tubes \$21 exchange (1 year guarantee on picture tubes). Used TV's, \$20 and up. TV Rentals, Central TV and Stereo Co., franchised dealer in RCA and Zenith TV. Service dealer in all makes of radios, TV's and stereos. Central TV and Stereo Co., Governors Drive & Parkway, Phone 536-9761. tlf

FOR SALE—Newly reupholstered couch and chair, like new condition. Phone 539-0382. tlf

## 4. Mobile Homes

SEE OUR FULL LINE OF — Mobile Homes— or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. tlf

WE HAVE 2 — 35'x8' 1 bedroom mobile homes. These are both real nice and clean. Only \$1995.00, terms to suit your budget. Texas Auto and Mobile Home Sales, 1003 Meridian St., Phone 536-6121. tlf

## 5. Houses, Lots - Sale

WE CAN NOW BUILD you a three (3) bedroom brick veneer home fully completed to FHA or VA requirements on your lot with carport and storage for as little as \$49.77 per month, plus fire insurance, taxes, etc. No down payment and no closing cost CORNELIUS REAL ESTATE & INS. CO., 521 N. Broad St., Guntersville, Ala. tlf

FOR SALE—121 acre farm two miles east of Hartselle. Good two bedroom house. Plenty of water. 89 acres in cultivation. \$200 per acre JAMES EDWARD VEST, Phone Hartselle 773-6178. 9-17p

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PARKWAY ESTATES EQUITY SALE—3 bedrooms, 2 full baths, den, fenced back yard, payments \$118.00 per mo. Phone 881-2817 or 539-7415. 9-18c

DECATUR HIGHLAND PARK—This furnished show home will be sold for the low price of \$19,275.00, which includes all the following features and extras: kitchen-dining area with built-in GE oven, surface unit, exhaust fan, disposal and refrigerator, 4 bedrooms, large paneled den, 2 1/2 ceramic tile baths, large living room, laundry area with washer and dryer, garage, patio with privacy fence. The many rooms of decorative furniture will be given to the purchaser at no additional cost. Open afternoons, located at 1213-8th St., S. W., phone Decatur, 353-3474. 9-11c

22 ACRES, choice retirement property, tract located in a thickly settled community, 20 miles south of Huntsville on black-top highway. Area is a highly developed agricultural section. Has 6 room dwelling 3 bedrooms, bath, fine well, good barn, won't last long. \$8,000.00 E. G. WILLIAMSON, R. E. Broker, phone 734-6294, Cullman, Alabama. tlf

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## 6. Pets

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1962 CHEVROLET Impala Coupe. Power steering, V8, automatic. Extra clean. Price reduced to . . . \$2360.

1961 FORD Fordor Galaxie. V8 A beauty! Reduced to . . . \$1610.

1962 DODGE LANCER 4-Door. Standard sh. fr. Extra clean. Local car. Reduced to . . . \$1385.

1961 CHEVROLET Impala 4-Door. Just like a new one. Reduced to . . . \$1885.

1960 CORVAIR Four-Door "700." Unusually nice. Reduced to . . . \$1165.

1960 FORD Fordor Station Wagon. It's a honey. Reduced to . . . \$1440.

1960 FORD Convertible. White. New tires. It's ready! Reduced to . . . \$1280.

1960 CHEVROLET Bel Air Four-Door. V8. Automatic. Low mileage. Perfect. Reduced to . . . \$1420.

1960 OLDSMOBILE Holiday Coupe. It's EXTRA CLEAN AND HIGH PRICED!! But it's WORTH IT! Reduced to . . . \$1670.

1959 OLDSMOBILE Four-Door. Real fine car. Reduced to . . . \$1250.

1959 PONTIAC Bonneville 4-Door. Factory air and power. Low mileage and extra clean. Reduced to . . . \$1575.

1958 CADILLAC Eldorado Coupe. Factory air. It's nice. Reduced to . . . \$1250.

(5) 1958 CHEVROLETS to choose from . . . All are reduced in price.

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1956 CADILLAC Cpe Gold and white. New transmission. Nice. . . . \$600.

1958 CHEVY 6 cyl, stick shift, clean local car. . . . \$695.

1957 CHEVY Bel-Air V8, solid white. Ready for driving. . . . \$645.

1957 FORD. Jet black, extra nice. \$545.

1957 FORD. Black and white. Clean car. \$545.

1957 BUICK, Hardtop, power and sol.d. \$575.

1956 OLDS 4 dr. Hardtop "88". Clean car. . . . \$495.

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733 Madison St.

Phone 539-8551



**JUMPING FOR JOY**—When these three members of an Army Parachute Team take a step toward breaking records they don't have far to go. Just one step back and they are floating in air. The three are jumping out of the tailgate of an Army plane 7,000 feet over the Arizona desert to attempt new world sky diving records. They are part of the U. S. team which has broken 18 parachute records previously held by Communist block jumpers. From left: Sgt. Joe A. Norman, Louisville, Ky.; Sp5 Richard T. Fortenberry, Riverside, Calif. and SFC Harold Lewis, Fayetteville, N. C.

### Welcome Mat

The ROCKET extends a welcome to the following civilian personnel, newly assigned to U. S. Army organizations:

**ARMY MISSILE COMMAND**  
 Research and Development: Bonnie P. Atkins, Patricia A. Burgess, David J. Farmer, Peggy E. Hargrove, Walter E. Jordan, Jr., Terry A. Martin, Conrad G. Nagel, Betty Osborne, Janice A. Spaulding.  
 Procurement & Production: Linda C. Allen, Lonna S. Gentes, Jacqueline Y. Mann, Douglas M. Price, Edith H. Raby, Samuel A. Wal-

ker, Jr., and S. Edward Yandle.  
 Supply & Maintenance: Margaret V. Allen, Charles E. Blair, Jr., Marvylene G. Buffaloe, Eddie F. Carter, Jr., John D. Churchwell, John R. Conner, Mary G. Cox, Verlin Z. Cronn, Fount O. Duncan, James R. Gibson, Polly P. Jones, James L. King, Billy E. Lay, Thomas E. Ledbetter, Clyde C. McDonald, Vera H. McDonald, Thelma B. Morgan, Shepard B. Newell, Richard H. Phillips, Sharon A. Rhodes, Paul E. Rogers, Don A. Simmons, Henry M. Stephens, Rachel A. Stinson, Charles E. Stubbs, Billy J. Tankersley, Judith L. Terry, Hugh G. Vandegriff, Veali M. Vest, Michael R. Wilkie and Ewell H. Williams.  
 Hercules Project Office: Adelbert M. Athow, David B. Dalton, Norma E. Elmore, Ruth M. Price and Omer C. Wyatt.  
 Missile Intelligence: Betty S. Butler, Diane Lindsay, and Elizabeth Y. Pearce.  
 Mauler Project Office: James K. Dawson.

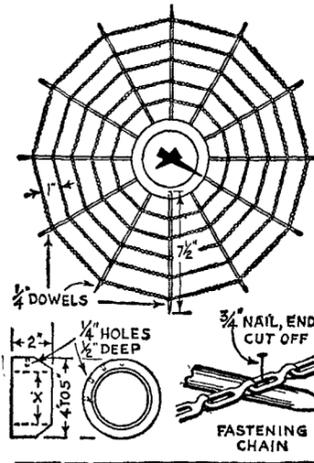
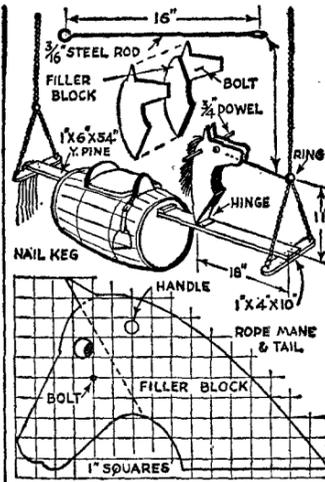
Hawk Project Office: James E. Harchanko and Robert W. Wong.  
 Sergeant Project Office: Joseph D. Jones, Jr.  
 Pershing Project Office: Eleanor D. Lindell.  
**ZEUS PROJECT OFFICE**  
 David A. Arnold, Betty C. Ferguson, Andrea F. Phillips, Sherman E. Roberts, Donald W. Stewart and Donna W. Wilhite.  
**ARMY MISSILE SUPPORT COMMAND**  
 Barbara T. Crutch, Ronald O. Hardy, Arvel D. Holcomb, James D. Holliman, Virgil M. Howie, Gerald W. Hutchison, Roddy H. Moody, John D. Moorman, Ruth H. Park, Jane M. Robinson and Edna C. Thrash.

### Useful Workshop Ideas

by Enno R. Haan, Technical Consultant

#### Pony Swing or Bucking Bronco

Sanded smooth and painted, a nail keg gives 3 to 6-year olds the feeling of being astride a pony. Nail 1/2-in. waterproof plywood disk in open end of keg after cutting slots in both ends to slip on frame. Adjust distance from keg to handle to suit child, then screw down blocks to hold keg in place. Cement sponge-rubber pad to keg between blocks forming saddle and add stirrups. Connecting rod has eyes at ends at right angles to each other. It moves between sides of head (3/4-in. waterproof plywood) spaced by filler block, pivoting on bolt. Head pivots on hinge giving lifelike movement. Cross-pieces at ends add stability. Welded chain is recommended.



#### Decorator Clock

You fit an electric movement in this clock case made of three pieces of plywood glued together and bandsawed to form a ring. Pivot block to saw outside, inclining saw table to cut beveled portion. Likewise pivot it for sanding on a disk sander. Then saw inside circle, distance X, to suit clock movement. Drill equidistant radial holes in periphery for dowels. Fasten lightweight brass chain to dowels with 3/4-in. nails driven into tiny pilot holes. An aluminum face is bradded to case. Hands are made of light sheet brass.

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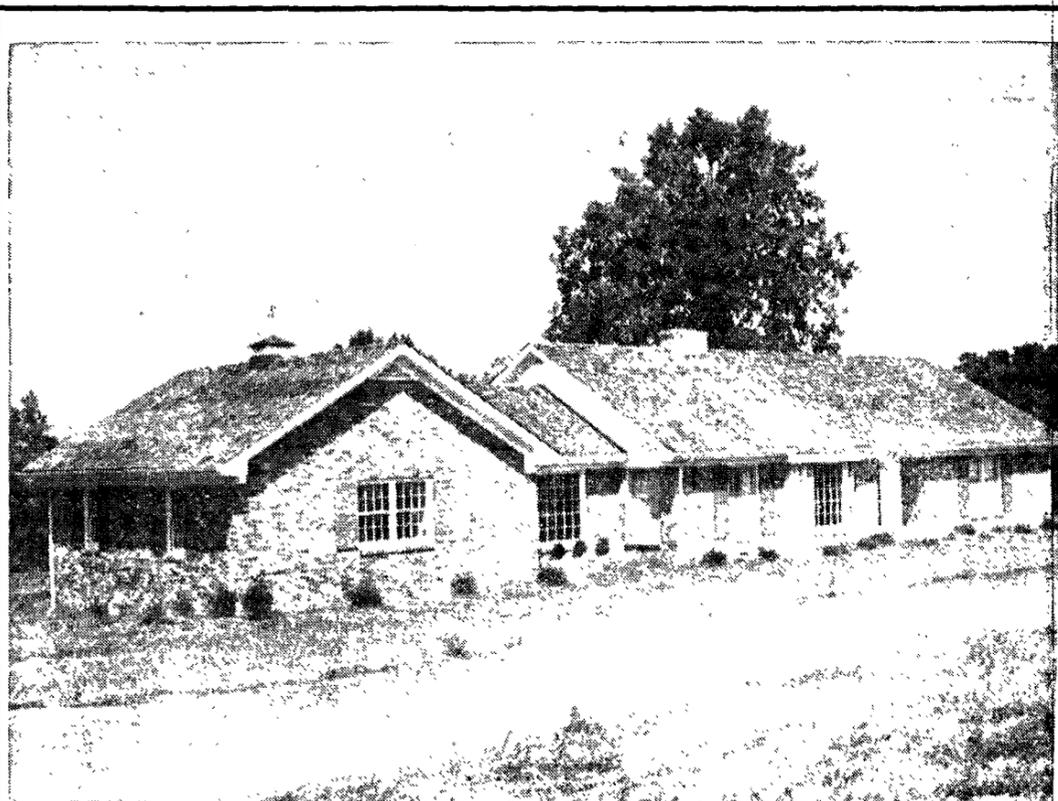
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## Non-Fiction

Armour, Willard Richard. "The Medical Muse; or, What to do Until the Patient Comes."  
 Downey, Fairfax David. "Great Dog Stories of All Time."  
 Hadfield, Miles. "Gardens."  
 Hope, Bob. "I Owe Russia \$1200."  
 Horowitz, I A ed., "Winning Chess Tactics Illustrated."  
 Joesten, Joachim, "They Call it Intelligence."  
 Kable, Louise Melville. "Whale By the Tail."  
 Milne, Lorus Johnson, "The Valley: Meadow, Grove and Stream."  
 Parson, Nels A., "Missiles and the Revolution in Warfare."  
 Strachey, John, "On the Prevention of War."  
 White, Elwyn Brooks, "The Points of My Compass: Letters From the East, the West, the North, the South."  
 Addams, Chas, "Drawn and Quartered; the Return of a Classic."  
 Armstrong, Jones Tony, "London."  
 Buchwald, Art., "Is It Safe to Drink the Water?"  
 Clemens, Samuel Langhorne, "Letters From the Earth."  
 Fischer, Bertha (Mark), "Reunion in Moscow, a Russian Revisits Her Country."  
 Grillot de Givry, Emile. "A Pictorial Anthology of Witchcraft, Magic and Alchemy."  
 Hunt, Morton M., "Her Infinite Variety: the American Woman as Lover, Mate and Rival."  
 Inge, William Motter, "Summer Brave, and Eleven Short Plays."  
 Macdonald, Dwight, "Against the American Grain."  
 Sports Illustrated, "Sports Illustrated Book of Better Boating."  
 Whitney, Byrl Albert, "Parliamentary Procedure."

## Fiction

Benedictus, David, "The Fourth of June."  
 Bulatovic, Miodrag, "The Red Cock Flies to Heaven."  
 Burdick, Eugene. "Fail-Safe."  
 Calisher, Hortense, "Tale for the Merror, a Novella and other Stories."  
 Duggan, Alfred Leo, "Lord Geoffrey's Fancy."  
 Hall, Oakley, "The Downhill Racers."  
 Keyes, Frances Parkinson, "Madame Castel's Lodger."  
 McGivern, William P., "Savage Streets."  
 Parker, Dorothy (Rothschild), "After Such Pleasures."  
 Thornton, Francis Beaufort, "The Donkey Who Always Complained; a Parable for Moderns."  
 Anderson, William C., "Penelope."  
 Bates, Herbert Ernest. "A Crown of Wild Myrtle."  
 Caldwell, Taylor, "Grandmother and the Priests."  
 Creasey, John, "Murder on the Live."  
 Espey, John Jenkins, "The Anniversaries."  
 Goldston, Robert C., "The Shore Barely Seen."  
 MacKenzie, Donald, "Double Exposure."  
 C'Hara, John, "The Big Laugh."  
 Tarr, Herbert, "The Conversion of Chaplain Cohen."  
 Weismiller, Edward Ronald, "The Serpent Sleeping."  
 Young, Edward Preston, "The 14th Passenger."



**TEST BAN ENDORSEMENT**—The four Armed Services Chiefs of Staff gave first-hand endorsement of the limited nuclear test ban treaty in Washington. Appearing before the Senate Foreign Relations Committee were from left to right: Gen. Curtis E. LeMay, Air Force Chief of Staff; Gen. Earle G. Wheeler, Army Chief of Staff; Adm. David L. McDonald, Chief of Naval Operations and Gen. David M. Shoup, Commandant of the Marine Corps.

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