

## Final Parade Of Year Scheduled Friday P.M.

### Sprint Is Undergoing Unique Tests

The Army's new Sprint anti-missile missile now in development is being hurled high into the air in a unique series of tests designed to prove out its cell ejection mechanism.

Sprint will be the first ground-based missile to use this so-called "pop-up technique" which involves ejecting the missile out of its cell rather than "flying" it out under its own power.

A full-scale mock-up of the Sprint—similar in weight and configuration to the missile as it will be used in the Nike-X missile defense system—is being used in the tests.

The missile is ejected by a "hot gas generator" placed under it in its cylindrical cell. The gas generator is loaded with propellant which, when ignited, creates enough pressure in the cell to pop the missile out like a dart shot from a blowgun.

The Sprint dummy travels upward some 200 feet where it is restrained by a recovery system designed to control the missile impact.

The dummy missiles used in these ejection tests do not carry live motors. The tests are being conducted by the Martin Co. at Orlando, Fla., under the supervision of the Nike-X project office at Redstone Arsenal.

The Project Office says the tests are being conducted to validate the Sprint ejection techniques, the design of its launching cell and the ejection mechanism itself. The Martin Co. is the Sprint subcontractor.

Its designers believe that popping the Sprint from its cell will yield several advantages. Among these are a lighter weight missile structure and cheaper, easier to build launching cells.

Designed to be higher in acceleration than any guided missile yet flown, the Sprint would be capable of... (See SPRINT on Page 3)



**AMC CG VISITS KWAJALEIN**—Gen. F. S. Besson Jr., commanding general of the Army Materiel Command, recently traveled some 6,000 miles from his desk in Washington to Kwajalein Island to look over Nike-X test operations there. Escorting him on the tour was Col. I. O. Drewry, Nike-X Project Manager at Redstone Arsenal. Here, left to right, are Gen. Besson, Col. Drewry, J. S. Schaefer, Director of Bell Telephone Laboratories Kwajalein Field Station; and Col. Glenn Crane, Commanding Officer of the Kwajalein Test Site.

### 'Old Reliable' Will Share The Spotlight

The band will play and troops will march Friday at Redstone Arsenal and 14 Army officers and enlisted men and the Army's "Old Reliable" Redstone Missile will be officially retired from active military service.

In addition to normal retirement parade ceremonies, a special program is planned to honor the 69 foot missile which was named for this Arsenal where it was developed.

Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, will speak briefly on the Redstone's significance to the Army and the Arsenal. Dr. Werner von Braun, Director of Marshall Space Flight Center, will also speak briefly on the missile's achievements as a space launch vehicle. Dr. von Braun played a major role in the Redstone's development when he was employed by the Army prior to organization of MSFC.

Officers and enlisted men retiring at the end of September and eligible for honors at the parade are:

Lt. Col. Leonard J. Julian, whose duty station has been at Andover, Mass.; Maj. Edward Edmisten, and CWO Irwin V. MacFarland, both assigned in the Army Missile Command;

CWO John N. Crawford, M/Sgt. John W. Elmore, M/Sgt. James C. Lukoskey, CWO Edward Whittaker, SFC Charles S. Rogers, S/Sgt. Lucien B. McKinney, S/Sgt. Robert M. Oaks, and Sgt. Lawrence H. Cunningham, from the Ordnance Guided Missile School;

CWO Charles C. Prevatte, Missile Command; and Sgt. Robert D. Turner, in the Medical Detachment of the Army Missile Support Command.

Friday's parade — which will start at 4 p.m. — will be the last one held this year at Redstone. It is known as "The Sergeant's Pa" (See FINAL PARADE on Page 3)

### ARADCOM Commander Is Visiting

Lt. Gen. Charles B. Duff, Commanding General of the U.S. Army Air Defense Command, will wind up his visit at Redstone Arsenal this afternoon after briefings on the Nike-X program and the U.S. Army Missile Command.

The orientations on the Nike-X began Tuesday morning following a call on Maj. Gen. John G. Zierdt, Commanding General of the Missile Command.

Gen. Duff, members of his staff and a representative from the North American Air Defense Command, arrived at the Arsenal air-

strip Monday evening to be greeted by Brig. Gen. Howard Persons, Deputy Commanding General for Air Defense Systems at the Missile Command, Lt. Col. J. G. Waterman, the ARADCOM Liaison Officer, and other officials.

Briefings on different aspects of the Nike-X Project programs were conducted by Col. R. B. Braid, the Deputy Project Manager who summed up the objectives in a general review. He was followed on specific phases by Norman C.

Buchholtz, Capt. William J. Fiorentino, Lt. James Oaks, III, Dr. C. W. Hoover of the Bell Telephone Laboratories, and Edward M. Rosenfeld.

Lt. Col. Gene W. Budd and Billy G. Pales presented a Missile Intelligence briefing.

This morning the schedule calls for a Nike Hercules briefing by Col. R. M. Colquitt, Jr.; a Hawk briefing by Col. George H. McBride and J. D. Kirkland, Jr.; (See ARADCOM on Page 3)

### Ceremonial Parade Marks Death Of Former President

Troops at Redstone Arsenal marched Oct. 21 in a parade commemorating the death of former President Herbert Hoover.

Missing from their ranks, however, was PFC Andrew Hoover.

The 24-year-old member of the Ordnance Guided Missile School facility at the Arsenal is a grandson of the late president.

He left Huntsville Monday afternoon for New York to attend the funeral of his grandfather.

Some 750 enlisted men and officers were mustered at 10 a.m. to hear the official statement of death of the former president.

Brig. Gen. Howard P. Persons, Deputy Command General of the Army Missile Command for Air Defense Systems, was the Reviewing Officer.

The parade was the second one held on the Arsenal in less than a year. The last one was on Nov. 23, 1963, for President Kennedy. Similar parades were held at Ameri-

can military posts throughout the world. It is a ceremony, no doubt like many ceremonies, based once on necessity when soldiers were summoned together by their commanding officer to hear news of grave importance.

At Redstone a cannon boomed every half hour throughout the day until the retreat bugle sounded.

Lt. Col. Robert C. Long, Ordnance Guided Missile School Chief of Officer Training, was Commander of Troops.

Before the parade for President Kennedy 11 months ago, the last such ceremony was held in 1945 following President Franklin D. Roosevelt's death at Warm Springs, Ga.

Army regulations state that such parades with the reading of the notification of death and the measured firing of a cannon will be held following the death of presidents, ex-presidents and presidents-elect.



**FAREWELL SALUTE**—All the United States troops at Redstone Arsenal attended the memorial parade for President Herbert Hoover, the 31st President of the United States, who died at the age of 90. The parade was held on Monday following the death of the former president. Brig. Gen. Howard P. Persons was the reviewing officer.

# 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 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

## Rocket Ruminations

More people are flattered into virtue than bullied out of vice.  
—Robert Smith Surtees

### LAST CHANCE Letter-Writing Contest Can Stimulate Meaningful Vote

Next week, assuming you're eligible in all respects and have been so motivated, you will perform a very important act. You will cast your ballot in the 1964 presidential election.

An act as meaningful as voting for the man who'll head our nation is not something that can be taken lightly. It should be something that is prepared for with serious forethought and deliberation.

Many critics of the democratic system accuse American voters of fuzzy political thinking and of gullibility to catchy phrases and promises.

There undoubtedly are some of us who are guilty of exercising our precious voting franchise without giving our decision the thought it deserves.

This year's subject for Freedoms Foundation's Letter Writing Awards Program—"My Vote—Freedom's Privilege"—gives each of us an excellent chance to clarify our thinking before election time. Unless we have a sound understanding of the free elective system that is the keynote of our democratic life, we are in danger of making our fateful choice impetuously—of misusing our vote.

What better way is there of organizing your ideas and convictions than putting them in writing? And, when you've got your ideas on what it means to be an American voter down on that paper, why not submit them to the Freedoms Foundation contest?

Don't wait until Nov. 1—the contest closing date—to put in the mail your personal statement of what the November election means to you. This year's Letter Writing Award Program carries a special challenge for each of us. If we really feel deeply about our responsibilities as voters, we owe it to ourselves to give those feelings expression. (AFPS)



### Thrift Can Become Habit

This week is National Thrift Week!

The Department of Defense, the Department of the Army and the White House emphasize thriftiness in Federal operations.

They even get down to the personal personnel level.

In the past five years cost consciousness has become a byword with everyone from top officials to the accountant's scratching before a secretary takes over and makes neat notes.

"Zero Defects" is a program shared between Government and Industry to do the job right in the first place and avoid costly duplication.

U.S. Savings Bonds are offered on the payroll deduction plan to make the individual savings conscious without the conscious act of going to the bank and buying bonds. The buried coffee can doesn't accumulate a thing except mold.

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# General Eifler Talks On Management

Brig. Gen. Charles W. Eifler, one of the Army's recognized leaders in management, drew from his experience Monday night when he addressed members of the Thiokol Management Club on "The Character of Management."

Gen. Eifler, Deputy CG, Land

## \$1 Million Goes To Southeastern Firms From Army

Business concerns in three Southeastern states, Alabama, Georgia and Tennessee, shared almost \$1 million worth of Army Missile Command purchases and orders during September. These orders represent several hundred separate actions.

Alabama merchants received the largest amounts with some \$400,000 going to Huntsville, \$300,000 to Birmingham and \$200,000 to other cities.

Outside the Southeast in states all across the continent, orders for less than a million and in excess of \$2,500 totaled just over \$1 million.

The awards vary from the "nuts and bolts" used in repair work for buildings and machinery to food items, paper, electronic equipment and laboratory supplies.

The Army Missile Command's Procurement and Production Directorate negotiated and will administer many of these local awards. They also execute and negotiate contracts for \$1 million or more issued for procurement of missiles, rockets and related equipment. The other element at Redstone responsible for administering these small awards is the Army Missile Support Command's Purchasing and Contracting Division.

## Barber Shops Are Controlled By Exchange Officer

Redstone barber shops are now controlled by the Redstone Arsenal Exchange instead of a concessionaire.

The recent changeover was affected when the concession contract expired. Larry Clemmons, Concessions and Services supervisor, has had new equipment installed at each location and a ribbon cutting ceremony was held at the Troop area barber shop.

Col. William J. Macpherson, Commandant of the Ordnance Guided Missile School, and Col. W. F. Register, Deputy Commander of the Army Missile Support Command, shared the honors at the ceremony which was attended by Claude C. Adams, General Manager of the Exchange, Sgt. Major Harry Keever and others.

The first customer was Sgt. Clyde Seilar who received a new cigarette lighter, one of fifteen of the barbers checks marked for a choice of pen or lighter awarded the first day's customers.

### ATTENTION...



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Combat Systems, Army Missile Command, offered the following advice to managers:

"Hold your temper. Do not take your problems out on your subordinates."

"Always give a man an answer. If you need to qualify it do so, but let him know exactly where he stands."

"Do not promise something for the future. Wait until you know you can do it. Always deliver what you say you will do."

"Encourage team work. Know your people. Work to have them complement strengths and bolster weaknesses."

"Directionalize zeal. A man who can get worked up over something is a valuable asset to the company if you can get him worked up in the right direction."

"Keep your information channels wide open. Learn from anybody, but have the judgment to work through directive organization."

"Do not solve subordinate's problems. Your job is to get them to solve their own problems unless action is necessary at your level. If so, act at your level, not theirs."

"Take the time to get people in the right slots. You cannot organize around people but must fit people to sound organization policy. Put round pegs in round holes, but once in a while play your hunches and try a square peg in a round

hole. "Do not covet your associates jobs. Know your own and the scope of your authority."

"Develop a sense of evaluation. Be able to separate what you see and hear into fact, judgment, hearsay and downright falsehood."

"Develop a sense of timing and be able to make an exception to the rule, but not too often. Change the rule if it seems necessary."

"Recognize exceptional performance, but know the difference between solid contribution and the thin veneer of showmanship."

Gen. Eifler concluded by saying:

"The best measure of a successful manager is not that he continually resolves problems but rather that he does not have any problems because he anticipates them and solved them before they became serious."

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## FINAL PARADE

(Continued From Page 1)

rade" since it is conducted by top non-commissioned officers at Redstone Arsenal. Sgt. Maj. E. R. Slayton will serve as Commander of Troops. On his staff will be Sgt. Maj. Roland Martin, Sgt. Maj. B. T. Galvin and Sgt. Maj. J. H. Judd. Troop Commander will be M/Sgt. R. S. Payne, and Company Commanders will be 1st Sgt. W. C. Merrill, 1st Sgt. V. P. Blancada and 1st Sgt. Francis H. Gurecki. Sgt.

## UGF Nears Record

Continuing to push toward an all-time record, Redstone Arsenal personnel have contributed \$174,046 to the 1964 United Givers Fund drive after four weeks of the present campaign.

The contributions are part of the \$224,859 that has been pledged to the drive by 92 per cent of the personnel included in the drive.

Last year the total contributions to the drive were slightly in excess of \$206,000. This was the largest annual donation to the various county and municipal agencies since the present fund raising regulations were established by the Federal government in 1957.

The pledged amount represents 84.5 per cent of the Fair Share potential for the 12,895 military and civilian personnel included in the drive. 65.3 per cent of the \$266,255 potential has been collected.

In releasing the latest statistical data on the drive, Al LaGrone, Reports Chairman, said that the contributions have been deposited to the account of eighteen county and municipal fund raising agencies.

The funds will be forwarded to the agencies, as requested by the contributors, at the close of the drive.

Maj. Harry O'Keever will serve as OGMS Troop Commander.

After a decade of guarding the free nations of the world, all Redstone units have been withdrawn from Europe, replaced by the Pershing missile.

Equipment used to fire the reliable, old, liquid-fueled Redstone is being offered to other Federal organizations for continued use in a variety of research and development projects. The missiles, themselves, are being held in reserve for possible use in test programs.

Redstone came to the forefront of free world attention at a time when the United States' position as a world leader faced the challenge of the first Soviet satellite.

On Jan. 31, 1958, the Redstone, which was already operational as a weapon—lofted America's first satellite into the night sky above Cape Kennedy, Fla.

Modified Redstone missile were also used to boost Explorers III and IV into orbit.

Peak of the missile's career came in May 5, 1961, when it was used as the launch vehicle for the first suborbital space flight of an American astronaut—Alan Shepard.

In addition to its historic role in space, the Redstone played an important part in the nation's long-range missile program. In 1956, the modified Redstone—known as the Jupiter C—was fired more than 3,000 miles down the Atlantic Missile Range. This was the United States' first long-range ballistic missile trajectory, setting the stage for introduction of the 1500 mile Jupiter which was later operated by the Air Force.

Chrysler Corp. was the industry member of the Army-Industry team that developed the Redstone.

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## SPRINT

(Continued From Page 1)

able of intercepting its target within seconds after launch.

The Sprint will be a part of the Nike-X system which the Army is developing to destroy incoming warheads of ICBMs and submarine launched missiles.

Col. I. O. Drewry is Project Manager of the Nike-X Project Office with headquarters at Redstone. Western Electric is the prime contractor of the Nike-X system and Bell Telephone Laboratories has responsibility for the system's design and development.

## ARADCOM

(Continued From Page 1)

Mauler by Col. B. R. Luczak, and Supply and Maintenance by Col. C. L. Ferrell.

H. B. Black and Lt. Col. William Smith are scheduled to present an Organization and Resources briefing for the Directorate of Research and Development and Lt. Col. Raymond J. Astor will cover Future Missile Systems.

This afternoon Charles A. Cockrell will summarize the AADS-70 program. In the Francis J. McMorrow Laboratories, Lt. Gen. Duff will receive briefings on missile hardware for ground support equipment and the anechoic chamber from W. C. Watson and D. W. Rowe, respectively.

Members of Gen. Duff's party include Col. Iver A. Peterson, Col. Virgil P. Foster, Jr., Col. Allen R. Henderson, Thomas J. Bartlett, Lt. Col. Clifton P. Semmens, George A. Thornton, Nike-X Project Liaison officer at ARADCOM, and Maj. William D. Duffy.

Also included are Lt. Col. Thomas O. Hindman, from the Office of the Deputy Chief of Staff/Operations, North American Defense, and Lt. Col. H. H. Ingersoll, Commanding Officer, Nike X Test Branch at White Sands Missile Range.

Monday evening, the party was entertained at the Waterman quarters before going to the Squirrel Hill Officers Club for dinner where Brig. Gen. Persons was the host.

The group is scheduled to leave late this afternoon from the Arsenal Airstrip.

U.S. Series H Savings Bonds are issued in denominations of \$500, \$1,000, \$5,000 and \$10,000. They may be redeemed at par on the first day of any calendar month, after six months from issue date, with one month's written notice required.



**READS ANNOUNCEMENT**—Maj. Farley Thompson reads the announcement that former President Herbert Hoover is dead. Brig. Gen. Howard P. Persons, Reviewing Officer, shares the Reviewing Stand with representatives from the Army Missile Command, the Army Missile Support Command, and the Commandant of the Ordnance Guided Missile School.

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Qual & Rel Mgmt Office	100	100
Dir, Proc & Prod	98	95
Dir, Sup & Maint	98	92
Dir, Res & Dvmt	96	88
Missile Intelligence	97	55
Nike X Project Office	98	95
Missile Support Command	88	72
Ord Guided Missile School	97	93
Rohm & Haas	89	102
Thiokol Corp.	86	85
Area Engineers	100	63
Total, all elements	92	84
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Total Amt. Pledged	224,859	
Total Amt. Collected	174,046	



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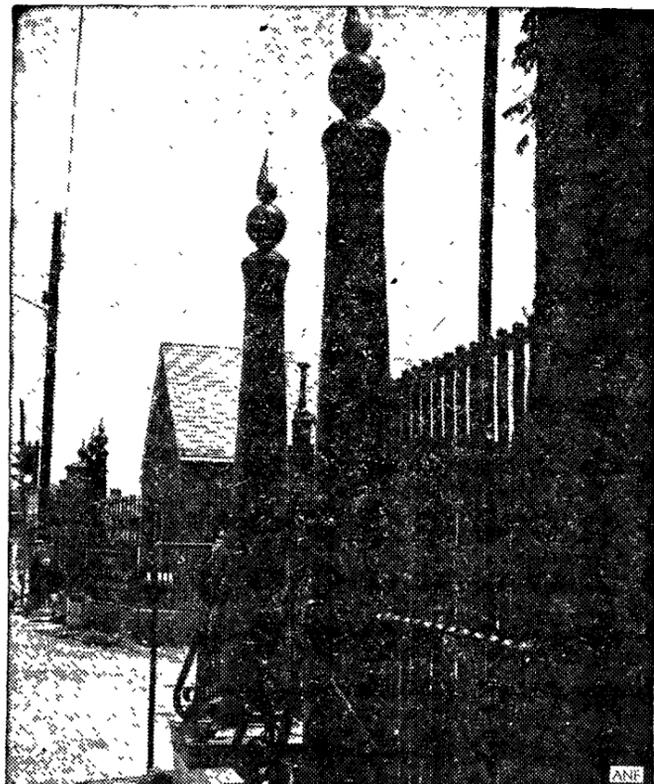
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**SEES MICOM LEADERSHIP**—Brig. Gen. Allen T. Stanwix-Hay (right) from the Office of the Assistant Secretary of Defense for Installations and Logistics was at the Missile Command last week to see how technical data such as blue prints and drawings are handled. The Command has become a leader in this field. Here Harry Patterson of the Directorate of Research and Development Documentation Branch discusses some data handling equipment with the General who is the Director for Technical Data and Standardization Policy. At center is Brig. Gen. C. W. Eifler, Deputy Commanding General of the Missile Command for Land Combat Systems.



**SIX-GUN GATE**—The six columns incorporated in the ironwork of the main gate at Fort Lesley J. McNair in Washington, D. C., are old cannons, cast in 1850. Recently identified by the Military History Division of the Smithsonian Institution, the cannons were made at the Tredegar Foundry in Richmond, Va. It is not known whether the guns were ordered by the Government or captured during the Civil War.

**ORCHESTRA SEEKS STRING PLAYERS**

Additional string players are being sought by the Huntsville Civic Symphony. Violin, viola and bass players are particularly needed to augment the string sections and help achieve a larger sound.

The Symphony has a good nucleus of strings at present—enough so that any new string player would find it enjoyable and stimulating experience to join in. There are twelve musicians in the group who drive in from other communities.

Conductor Russel Gerhart announced that private auditions are available all through the year. Other musicians are also invited to discuss the possibility of playing with the Huntsville Civic Symphony.

Practice rehearsals are held each Monday evening from 7:30 to 10:00. Concert dates for the 1964-65 season are Nov. 2, Jan. 11, Mar. 8 and Apr. 26.

Those interested may write Mr. Gerhart, 2007 Stanhope Drive., N. E., Huntsville, Ala., or Mr. Alvin Dreger, Chairman of Orchestra Personnel, 610 Holmes Avenue, N.E., Huntsville.

**PHOTOGRAPHERS NEEDED**

The U.S. Board of Civil Service Examiners has announced openings for television photographers at a GS-7 grade which commands a beginning salary of \$6050.

The announcement is numbered AT-35-21 (64).

Series H U.S. Savings Bonds are popular among those looking for regular income from their savings. They are available in denominations of \$500 up and may be ordered through your bank.



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**Missile Displays Win Recognition**

Redstone Arsenal displays won two out of three special awards for outstanding exhibits at the Greater Gulf States Fair in Mobile last week.

Awards for outstanding exhibits in the military category were presented at a ceremony in the grandstand at the Mobile exposition on the final night of the fair.

The overall Redstone Arsenal display, which contained equipment and exhibits describing the missions of the Army Missile Command and the Army Missile Support Command, took first prize.

Maj. Robert H. Vereen was Redstone Arsenal's project officer, assisted by John R. Russell, both of

AMSC.

The Air Force Research and Development Command's moon base display, fabricated at Dayton, Ohio won second place.

Third place went to the Army Ordnance Guided Missile School. Their exhibit consisted of a mobile van containing ingenious training aids used to instruct missile maintenance men. Capt. W. L. Taylor was project officer, assisted by SFC Amble B. Carter, S/Sgt. Homer K. Wright and Sp/5 Fred R. Taxtell.

Capt. Taylor was also project officer from an OGMS closed circuit television display at the Southeastern States Exposition in Atlanta during the first fortnight of October. This received special commendation from the Third U. S. Army.

Nov. 4, 1862 — First rapid fire machine gun, which fired 250 shots a minute patented by Richard J. Gatling.



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**SOLDIER OF THE MONTH**—An instructor in Hawk radar received Post Soldier of the Month honors from Col. Thomas W. Cooke, Commander, AMSC. He is SP4 Glen E. Cooper who holds a BS degree in physics from North Carolina College. In addition to honors at the Arsenal, SP4 Cooper will receive tribute from citizens of Huntsville. Present for honors was Lt. F. R. Pinkerton, CO, Company C, STC, OGMS.

### Three Study Quality Control

Three Redstone Arsenal civilian employees have returned to their duties after having completed the Defense Quality Control Management course at the U.S. Army Logistics Management Center, Ft. Lee, Va.

They are, Lester Walker, Director of Procurement and Production, Jesse Westmeyer, Nike X

Project Office, and Thomas Adcock, of the Sergeant Project Office.

The locals attended the special training course after having been enrolled as part of the career development program administered by the Training and Development Division of Civilian Personnel.

One of the many training courses

to which local personnel are regularly enrolled, it is intended to provide the employees with a deeper understanding of their present position and to better prepare for advancements in their career field.

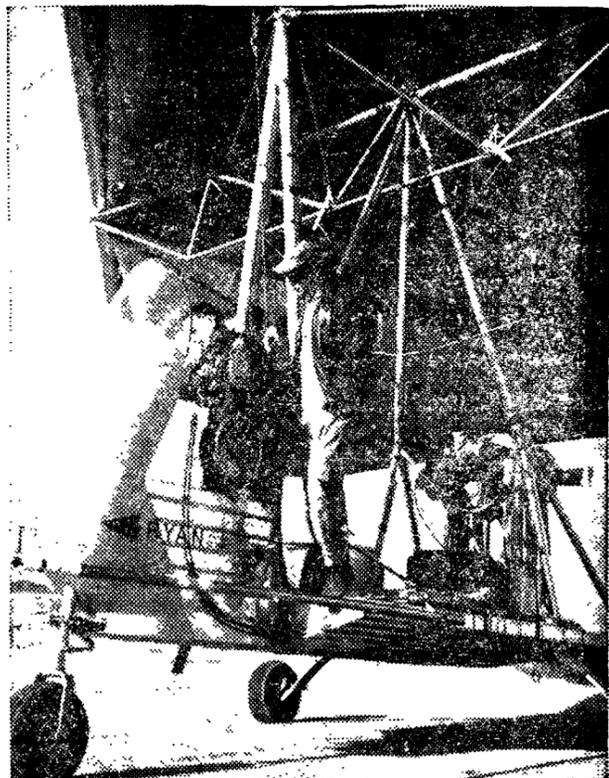
### Thiokol Tests Beryllium Oxide In Rocket Motors

Elkton, Md.—Thiokol Chemical Corporation announced Oct. 21 the successful testing of rocket motor nozzles using porous beryllium oxide throat inserts.

These tests were corporate funded, utilizing material supplied by the Beryllium Corporation of Reading, Penn. The tests were conducted at Thiokol's Elkton Division.

No erosion of the material was experienced in tests up to 15 seconds duration. Test motors were loaded with both high energy aluminumized propellant and high burning rate polysulfide propellant. One throat insert tested for 10 seconds in one rocket motor test was re-used in a subsequent test of 15 seconds duration. Upon completion of this second test a small amount of aluminum oxide was found deposited on the throat surface, but no erosion of basic material was found.

The beryllium oxide insert material was produced by the latest technology. According to A. E. Williams, Manager of Engineering at the Elkton Division, its heat sink properties and resistance to thermal shock are excellent. It has a density approximately 1/9th that of tungsten, and on a cost effectiveness basis shows great promise for rocket motor nozzle applications. It may also have other uses where resistance to high temperature gas erosion is desirable.



**SUCCESSFUL TESTING**—The XV-8A FLEEP has completed flights under a two month research test program at Yuma, Arizona Proving Ground. Powered by a 210 horsepower Continental pusher type engine, the FLEEP can operate from almost any unimproved site that can accommodate normal helicopter operations. Ryan Aeronautical Company is the developer of the FLEEP.



**DAVIS HILL'S P.-T.A.**  
IS HAVING A

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# Smallbore Riflemen Win Fourteen First Places

The Redstone small bore rifle team continued to add to an already imposing record in independent matches throughout the southeast last week end when they went to Chattanooga to participate in the South Central Regional championships.

Four of the seven members of the Arsenal team accumulated a total of 14 first place awards in the meet which attracted some of the most proficient shooters in the six-state southeastern area.

Warrant Officer Irv Tarbox, of the Support Command's Calibration Center, once more led the Redstone assault and captured five first place trophies. The team captain was firing in the expert class.

SP7 Ray Waldron and PFC Ron Zajicek each captured four firsts and SP4 Jim Rooney took one

match. Waldron, of the Missile Command, and Rooney, of OGMS, are in the Sharpshooter class, while Zajicek, also assigned to OGMS, is a Marksman.

Other members of the local team were Capt. Bill Fiorentino, of the Nike X Project Office, SP4 Don Paquete and PFC Jeff Albert, both members of OGMS.

The team will head for Florida this week end where they are entered in the South-Eastern Regional Position championships at Winter Haven.

The Florida match will be the farewell appearance for Tarbox as a member of the Arsenal team. The Warrant Officer has been reassigned to Okinawa and will leave soon after returning from the match.



**PASS IN REVIEW**—The band plays as the Redstone Arsenal Troops march slowly past the Reviewing Stand during the parade marking the announcement of the death of former President Herbert Hoover. All the elements of the Army at Redstone Arsenal were represented at the parade.

# Army Athletes Earn Medals

WASHINGTON (ANF)—The 27 U.S. Army athletes who participated in the 1964 Olympics will return from Tokyo with an impressive total of 16 medals, including six gold for first-place finishes. Four silver and six bronze were also won by the soldiers who helped the United States to four new world's records in their outstanding performances.

First Lt. Lones Wigger of Carter, Mont., broke a world's record to win the three-position small bore rifle event.

Gold medalist Pvt. Paul Drayton of Cleveland, Ohio, was a member of the four-man team which set a new record in the 400-meter relay.

First Lt. Ollan Cassell of Nutley, N.J., ran the four-man 1600-meter relay to help carry the U.S. to a new world's record and a gold medal in the event.

Sgt. Robert Carmody of Paterson, N. J., boxed his way to a third-place bronze medal in the fly-weight competition.

Pfc. James Kerr, Waukesma, Wis., received a silver medal for

his service as an alternate to the second-place U. S. Modern Pentathlon Team.

Second Lt. Gary Anderson of Axtell, Neb., broke a world's record in the 300-meter free rifle competition to win a gold medal. Sgt. Martin Gunnarsson, Sedalia, Ohio, took a bronze medal in the same event.

Pfc Robert Webster of Santa Ana, Calif., continued his domination of 10-meter platform divers by winning first place. He also won a gold medal in the 1960 Olympics in Rome.

Among the eight-man crew of the Vesper Boat Club which captured a first place medal for the United States in rowing was First Lt. Thomas Amlong of Alexandria, Va.

Pvt. Paul Drayton of Cleveland, Ohio, won a silver medal in the 200-meter dash.

Capt. James Moore of Erie, Pa., led the three-man U.S. Modern Pentathlon Team to a silver medal in the five-event competition.

In the race of coxless four-man crews, Sgt. Richard Lyon of Glendale, Calif., and Pfc Philip Durbrow of Pebble Beach, Calif., helped the United States to a third place finish.

First Lt. Lones Wigger, Carter, Mont., and Capt. Tommy Pool, Groom, Tex., won second and third places in the small bore prone rifle event.

First Lt. William Morris of Russell, Kan., placed third in clay pigeon shooting for a bronze medal.

In all, 27 soldiers of the U.S. Army were chosen for berths on the 1964 United States Olympic Team. They won a total of 11 medals.

# Hornets Win In 'Play-Off'

Practice sessions have been started for the Post football team following the close of the unit level season last week. Lt. Charles Baker, of the Special Service Office, said that tryouts are still being held and invited those assigned military personnel who have had high school or college experience to come out for the team.

The league season ended its regular season in a dead heat between the Troop Command Hornets and the OGMS Dud Busters with the former grabbing the league title with a narrow 7-6 win in the playoff.

Each of the playoff rivals had a three out of four record during the regular season, splitting the two seasonal matches.

The rubber match turned out to be the match of the year with only a perfect placement by Dave Kubesh standing between the winning Hornets and the losing Dud Busters.

The school eleven opened the scoring the first time they got hold of the ball. Starting on their own 28 yard line, the Dud Busters drove all the way down the field

with Dick Owens climaxing the drive by sweeping end from five yards out for the score.

Early in the second quarter the Hornets got their attack rolling and moved down to the OGMS 30. From here Bob Lechowiz covered the remaining yardage with a pass to Viking Stewart who took the perfect aerial on the 10 and scooted into the end zone untouched. Kubesh added the point which turned out to be the winner.

The second half turned into a dogged defensive duel with only one serious threat developing.

That threat started with a recovered fumble by the Troop Command. After taking over on the 28, the Hornets pushed the ball to the 1. But the Dud Busters dug in

and threw back three slants at their line.

Quarterback Lechowiz and George Rushing were the offensive stalwarts in the Hornet cause while Jim Robbins led the defensive charge. Owens and John Benjamin were the leading offensive threats for the Dud Busters while G. W. Jones was a defensive stand-out.

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# Scout Leaders Meet Here

Approximately 50 key scout leaders in the Tennessee Valley Council will meet tonight at the Ordnance Guided Missile School to plan in detail the Council's program for the final six months of the year and to outline the program for the coming year, according to Lt. Col. Charles R. Richards, Boy Scout liaison officer at the school.

Col. William J. Macpherson, School commandant, is scheduled to make a welcoming address at the dinner preceding the meeting.

After the dinner, the scouts will divide into their specialized study groups for planning.

The Tennessee Valley Council includes the Boy Scout districts in North Central Alabama.

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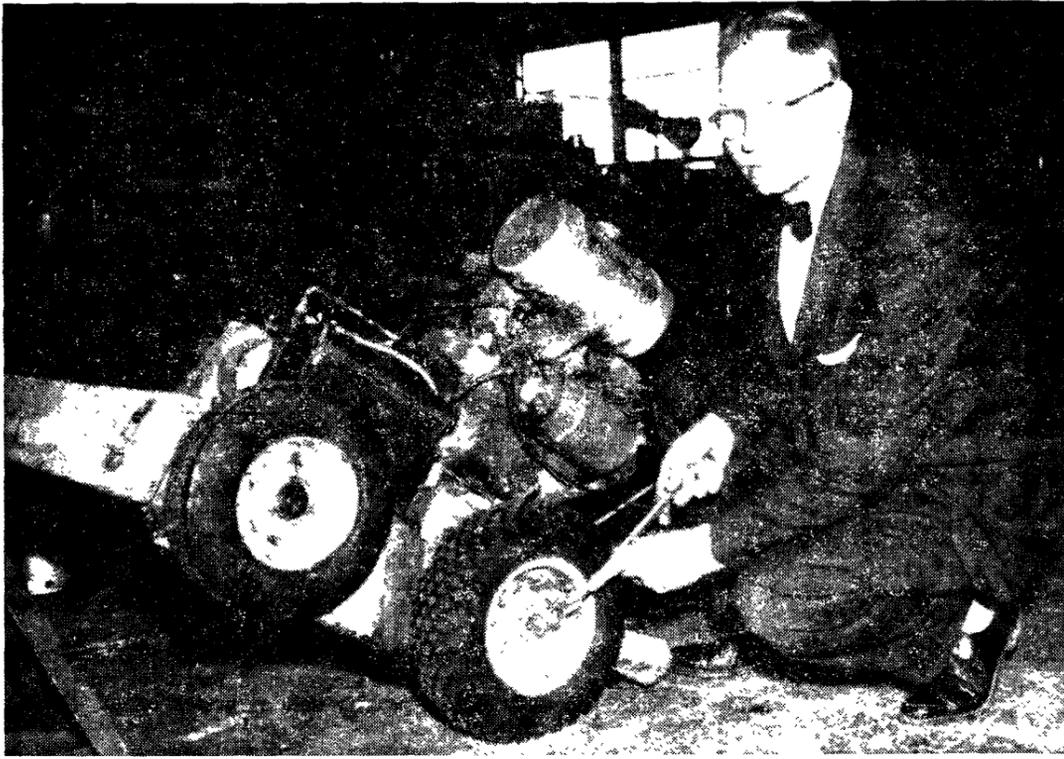
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**RETIRES**—Clayton B. Jewell inspects one of the lawnmowers in the maintenance shop where he has worked almost 19 years at the U. S. Army Missile Support Command, Redstone Arsenal. Jewell recently retired from active Federal service. He and his wife live on Route 5, Athens.

## Jewell Retires To Farm And Fish

A veteran with 19 years of active service at Redstone Arsenal retired last week.

He is Clayton B. Jewell of Athens, Route 5 who plans to fish and farm now that he has stopped being a gas motor repairman in the Maintenance Support Division of the U.S. Army Missile Support Command. Since Mrs. Jewell is an invalid, Jewell thinks the best way to watch over her is to buy a mobile home which he can park on the river bank — giving her a chance to watch while he waits for the fish to bite.

Jewell has worked at Redstone Arsenal in various capacities. During World War II he was on the Ordnance ammunition lines in almost the same location where he later repaired small gasoline motors used at the Missile Command.

During World War I, he was in the Army. Jewell, who only

completed nine years of formal schooling, has seven children: four daughters and two sons. Son Howard is an engineer who recently set up a manpower school for a Government contractor with offices in Huntsville.

His son, Ronald is studying to become a physicist at the University of Alabama and daughter Thelma White, lives with her hus-

band at Athens. His other daughters are scattered from New York to California: in New York is Jane Lindsey, in Texas Mildred Leggett and in California Nadine Highspin.

Mr. Jewell grew up in Lewisburg, Tenn. He bought a small farm near Athens, Ala., when he was employed at Redstone Arsenal.

## German Soccer Team Beats St. Bernard College 7-0

A soccer squad from St. Bernard College in Cullman was blanked 7-0 by German Air Force students last week in a match at the Ordnance Guided Missile School.

In other international matches at the School, Greek missilemen upset the German Army 9-0, and the German Air Force shut out a Korean soccer team 14-0.

Field action last week saw the German Air Force beat the Greeks 6-2. Danish students were defeated 10-0 in a game with the German Air Force. Later, the Danes were edged again in field action against the German Army by a 2-0 score.

Sept. 3, 1919 — Pershing designated General of the Armies.

Sept. 19, 1957 — First underground atomic explosion set off at the proving grounds near Las Vegas, Nevada.



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

## Mrs. Dunlap Lt. Boran Win At Bridge

The Bridge Group which meets Monday nights at the Squirrel Hill Officers Club drew nine tables of players last week.

Winners for the women were Mrs. George Dunlap high and Mrs. R. W. Washburn second.

Winners for the men were Lt. Tuncer Boran high and Lt. Col. Yoshisuke Hirai second.

Reservations to play with the group are made by Mrs. Robert Scott, 772-3273.

## Mrs. Granger Holds High Score In Wives Club Bridge

Mrs. Robert Granger was the winner at bridge playing with the Group sponsored by the Redstone Arsenal Officers Wives Club at the Squirrel Hill Officers Club on Thursday morning.

Runnerup was Mrs. Hellmer Johnson with Mrs. Lella Mullins in third place. Low for the morning was Mrs. Merle Ashley.

Eight tables were in play. Reservations are handled by Mrs. A. J. Matthews, 536-9958.

## At The Service Club

By Brenda Hanson

It's that time of year again, full moon, frosty nights and sunny days, yellow and red leaves filling the air, and just around the corner Halloween.

We plan to celebrate with the ghosts and ghouls at the Halloween costume dance on the 31st. Hot spiced cider, carved pumpkins, and a witching moon are a heady mixture. That charming girl you'll be dancing with on the 31st may turn into a creature from the twilight zone bent on bewitching you.

Look over the club schedule for this week and join in the fun and activities.

Tonight, a classical hour is scheduled for 5 p.m. accompanied by refreshments at 5:30.

Tomorrow is bridge night. The Bridge Club will begin in the small lounge at 7 p.m.

Friday night a checker contest spotlights the program.

Saturday, if you peep into the main lounge, you will find an unusual assortment of characters dancing and twisting. Costumes aren't required, but they are more fun.

Hot coffee and donuts will be

## Support Command Wives To Hear 'Shelter' Talk

Wives of officers assigned in the Army Missile Support Command will see the fallout shelter area at the Arsenal and receive a demonstration on shelter management, equipment and department delivered by Col. Robert M. Allgeier Assistant for Operations and Security to the AMSC Commander.

The wives group will meet at the Squirrel Hill Officers Club at 9:30 a.m. to be transported by bus to the fallout shelter area. The terrain is uneven in the shelter area where nippy breezes often play at this season, so the participants have been advised to wear warm clothing and comfortable shoes.

Reservations for the demonstration are being taken by Mrs. Donald E. Knapp, 877-4948, and Mrs. T. L. Kidd, 877-5061.

## Prayer Breakfast Introduced Here

Post Chaplain Donald F. Carter and the Army Missile Support Command are assisting civic leaders in arranging the city's first Mayor's Prayer Breakfast to be held at the Officers Open Mess on Monday, Nov. 9.

Some 600 men from the city and all Redstone Arsenal agencies are expected to attend the 90-minute stag event which Mayor Glenn H. Hearn is sponsoring under auspices of International Christian Leadership which has organized 400 prayer groups in 35 nations.

Representatives of the Army Advisory Committee, Alabama A & M College, Oakwood College, the University of Alabama Huntsville Campus, the Huntsville-Madison County Chamber of Commerce and many other local organizations will attend.

Featured speaker will be Dr. Abraham Vereide, founder and director of International Christian Leadership. A native of Norway who is now a U.S. citizen, he initiated weekly prayer breakfasts held in Washington by members of the U.S. Congress since 1942. In 1961, President John F. Kennedy widened the goals of the organization by sponsoring a prayer breakfast at the White House. Such events are now held in 48 of the 50 states and in most major cities of the U.S.

## Movie Schedule

WEDNESDAY, October 28  
"The Nutty Professor" (F)  
THURSDAY-FRIDAY, Oct. 29-30  
"Youngblood Hawke" (M)  
SATURDAY, October 31  
"East of Sudan" (F)  
SUNDAY-MONDAY, Nov. 1-2  
Walt Disney's "The Moon Spinners" (F)  
TUESDAY, November 3  
"Murder Ahoy" (F)  
Two shows nightly at 6:00 and 8:30 p.m.  
Saturday matinee at 1:00 p.m.  
Sunday matinee at 2:00 p.m.

served Sunday morning at 9. You can relax in the main lounge and sip coffee, listen to wake up music, or talk with your neighbor. Rocking Ramblers will rock the rafters of the club Sunday night from 8-11. Come dance to the music of this very versatile group.

Monday is Game Night beginning at 8:15 p.m. in the main lounge.

### SPECIAL INTEREST

The Service Club staff, along with the capable assistance of the assistant Special Services Officer, are in the process of organizing a Male Choral Group. If you are interested, you may call for more information at 876-4531 or 876-5492.

Again Leon Dubois of 2 ETC won the ping pong contest. He is Post champ, the winner of every contest he has entered. George Morgan of Co. B, proved strong competition and placed 2nd. Congratulations to both.

That's it this week. See you at the club.

## Two To Present Papers

Two scientists from the Army Missile Command will share results of some of their missile research when they present papers November 4 at the Tenth Conference on Design of Experiments in Army Research, Development and Testing in Washington, D. C.

Bernard J. Alley, a chemist from the Directorate's Propulsion Laboratory of the Directorate of Research and Development, will present a method for correcting possible error-causing effects during the analysis of pyrotechnic compositions. Alley, who won the Army Research and Development Achievement Award last year for his work in the Propulsion Laboratory, will be assisted by R. H. Myers from Virginia Polytechnic Institute.

Andrew H. Jenkins, a mechanical engineer from the Directorate's Physical Sciences Laboratory, will team up with Edwin M. Bartee from the School of Engineering at the University of Alabama to give results of an experiment using operations research and statistical methods for making technical de-

More than 35 papers will be presented at the conference, which is sponsored by the Army Mathematics Committee, with the Army Research Office serving as host.

Others who will attend from the Missile Command are Wade H. Ewart, Chief of the Engineering Services Division, and Henry A. Dihm, Jr., deputy director of the Advanced Systems Laboratory.

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# Army Surveyors Plot True North For Local Company

A two-man Army survey team from Ft. Belvoir, Va., completed the task of determining true north for a missile-space company here October 19. The Army team succeeded, but not before taking almost 50 readings of their instruments and spending two days on preliminary computations.

The company, Astro-Space Laboratories, Inc., wasn't confused but needed to know just where they were for a good reason. The direction of true north from their plant on Memorial Parkway was needed so they could check the accuracy of a gyroscope north-seeker, one of their major products.

M-Sgt. Clifton B. McGhin, director of the team, rated this as one of the toughest assignments of his 19 years spent in doing such work all over the world. First, M-Sgt. McGhin and PFC Salvador Hinojosa had to determine the exact location on earth of a brass marker embedded in concrete at the Astro-Space plant. This was done by using the method of triangulation. This method required the "shooting" with a telescopic transit of several landmarks whose exact locations are known. Second, the Army team immediately ran into difficulty because of the ever changing face of a fast growing Huntsville. McGhin discovered that one of the best known markers, a weathervane atop the Courthouse, could not be seen from the plant because the recently completed Dunnivant's Mall blocked the view.

Learning that later in the day workmen demolishing the Courthouse were planning to remove the weathervane, McGhin and team hastily moved to a point a few hundred feet east and made the necessary "shots," only to learn that other Huntsville landmarks used in several past surveys were no longer available: a flagpole atop the Times Building and the tower of a Presbyterian church.

Since the Courthouse weathervane was of no use alone, the Army team used a U.S. Coast and Geodetic Survey monument on Monte Sano, television and radio towers on the mountain, and a cross on top of the First Methodist Church. After these shots, the survey team made nighttime shooting of the North Star (Polaris) to

determine true north from points at the Astro-Space plant. McGhin's team determined these points to an accuracy of one-tenth of a second. Finally, the Army team could tell the company the degree of angle between the established landmark at the plant and true north. In presenting the answer to the company, McGhin stated that the figures were accurate to within one-half arc second (1-7,200th of a degree).

The company immediately began to check the accuracy of its north-seeker against this extremely accurate calibration standard.

Once the instrument is checked, a three-man team of Astro-Space engineers, led by Billy O. Martin, will take the device to Dayton, Ohio; Ft. Greeley, Alaska, and other points to demonstrate its capabilities at latitudes different from Huntsville's.

## Do Not Underestimate Role Of Maintenance Men Sergeant Tells Graduates

An ex-Navy man, now an Army instructor at the Ordnance Guided Missile School, told 31 graduates last Friday that their "jobs of maintenance in missileery can't be underestimated."

SFC Harry Duke Jr., senior instructor at the School's Missile Components Department, told the U.S. and German students, "In missileery, we ordnance men have one of the most vital jobs in defending the Free World. True, we are just a small part of a rapidly turning wheel, but we are the ones who make sure a missile will do its work when it is required."

Duke told the graduating class that he was a graduate of the Missile School in 1956 and a student trained in a missile now obsolete. "When a missile no longer serves its purpose, we ordnance men move to a new area of training. We never stop learning. You have learned material which will serve you as an individual in missileery, that will serve your unit and that will, in turn, serve the entire Army."

The graduation ceremony was

# INCENTIVE AWARDS

## Outstanding and Sustained Superior

**J. B. Engle**, Property Disposal Officer, Asst. for Logistics; **Billy G. McDaniel**, Printing Plant Equipment Mechanic, Maintenance Support Division; **Eloise M. Putnam**, Program Specialist, Sergeant Project Managers Office; **Janice Y. Roland**, Supply Commodity Management Officer, Dir of S&M; **Ruth S. Rigney**, Clerk (Typing), Dir of R&D; **Kathleen V. Wyson**, Administrative Officer, Hercules Project Manager's Office.

## Outstanding and Quality Increases

**David L. Rice, Jr.**, Program Analysis Officer, AMSC, Calibration; **Robert D. Ivey**, Supv Procurement Agent, Dir of P&P; **Dorcas C. Throneberry**, Supv Travel Assistant, Transportation Div; **John R. Russell, Jr.**, Exhibits Specialist (General), and **James Dewey Wilson**, Clerk Typist, Asst for Communications; **Ivy W. Fulks**, Secretary (Typing) Post Engr; **Leonore E. Jones**, Stock Control Clk, Cons Supply Div; **Pauline L. Watts**, Medical Radiology Technician (Diagnosis) Surgeon and Hospital Commander; **Idola N. Knickerbocker**, Chief Dietitian, Surgeon and Hospital; **Thomas P. Browne**, Safety Engineer, AMSC, Safety Div.

## Outstanding

**William E. Bolles**, Laborer and **Nelson B. Headley**, Pipefitter, Post Engr; **Raymond E. Buford**, Aircraft Mechanic, Transportation Di-

vision; **Chesterfield Davidson**, Mason, **Ernest Clark**, Maintenance Lead Foreman, **Richard E. Pinion**, Maintenance Foreman, **Byrum H. Collier**, Equipment Operation Foreman Asst., **Russell Brown**, Maintenance General Foreman Asst., All Post Engr; **Jim B. Tipton**, Guard, Provost Marshal Division; **Harold Mitchell**, Digital Computer Systems administrator, and

**Bonny H. Kenney**, Supv Cashier, Finance & Accounting; **Stanley C. Wilkins**, Transportation Officer, Transportation Division; **Theoplus J. Taylor**, Refrigerator & Air Conditioning, and **Zacharia Penny**, Laborer, Post Engr; **John W. Torzillo**, Maintenance Advisor (Ammunition & Safety, Dir of S&M); **Arthur A. Smith**, General Engr, Dir of R&D; **Preston L. Moring**, Procurement Analyst, Dir of P&P; **Lee B. Oswald**, Supv Training Instructor (Missiles); and **Annette G. Barnard**, Secretary (Stenography), OGMS; **Charles F. Stebbins**, Electronic Fire Control Systems, Maintenance Support Division; Repairer,

**Johnnie H. Qualls**, Automotive Equipment Operator, Foreman, Transportation Division; **Arnis A. Stewart**, Deputy Field Service Program Director, Dir of S&M; **Bernard S. Collins, Jr.**, Electronic Fire Control Systems, Inspector Foreman, Inspection Division; **Rowland M. Tharaldson**, Logistics Specialist, Assistant for Logistics; **Steve R. Carter**, Stock Control Clerk (Typing), Asst. for Communications; **John F. Tyson**, Printing Officer, Reproduction Division; **Roscoe C. P. Davis, Sr.**, Training Instructor (Electronics), **Calvin E. Thames**, Supv. Education Specialist, **George Melochick**, Supv Education Specialist, **Paul O. Crick, Jr.**,

Program Officer, all OGMS; **Troy C. Bowden**, Logistics Officer, **Donald I. Ciliax**, Supv Electronic Engr. (DP), **Jess B. Huff, Jr.**, Dir, Guidance & Aeroballistics, all of R&D;

**James W. Linton**, Field Service Operations Assistant, Dir of S&M; **Helen F. Hubbard**, Secretary (Stenographer), Sergeant Project Manager; **Dorothy M. McLaughlin**, Secretary (Stenographer), OGMS;

## Sustained Superior

**Glenn H. Bradberry**, Guard, and **James R. Glenn**, Guard Supervisor, AMSC, Provost Marshal; **Doris C. Edmonds**, Secretary (Stenography), Dir of Missile Intelligence; **Freda L. Wilson**, Secretary (Stenography), **Opal B. Collins**, Illustrator (Technical Equipment), **Albert A. Johnson**, Illustrator (Technical Equipment), all from Dir of S&M; **Richard E. Grizzell**, Engineering Technician, Dir of P&P; **Mary E. Crook**, Clerk (Typing), and **John P. Sinopole**, Electronic Engr (Electromagnetics), Dir of R&D; **Yewell C. Lybrand, Jr.**, Education Specialist, OGMS.

## Quality Pay Increases:

**Johnnie E. Wise**, Office Machine Opr, Post Engr; **Robert B. Perry**, Supv Gen Engr, and **Harrison L. Maxey**, Supv Gen Engr, Nike X Project Office; **Shirley A. Campbell**, Secretary (Stenography), Quartermaster Division.

## Certificate of Achievement:

**Joyce L. Ferisen**, Secretary (Stenography), Special Assistants.



highlighted by the presentation of two honor degree diplomas to S/Sgt. Klaus Zimmerman of Germany and Pvt. Dwane L. Wuick of Prairie de Chien, Wis. The two were high men in the Nike Computer and Ballistic Missile Propulsion courses, respectively.



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## NATO Logistics Conference To Be Held This Week

A NATO-Hawk Logistic Conference is being held at the Army Missile Command this week with discussions centered around supply, maintenance, technical assistance, planning and contracting.

Col. George H. McBride, Hawk Project Manager for the Army Missile Command, will be host to the visiting group.

Representing NATO-Hawk will be Karl Rose and Col. Helmut Wolff, Germany; Col. Frederik Wismeyer, Dutch; Commandant José Combes, France; Clifford Van Pelt, U.S.

## Steering Committee Is Winding Up Conference

It will be back to the campus tomorrow for members of the Joint Army-Missile Command-Marshall Space Flight Center Graduate Study Steering Committee.

University of Alabama President Dr. Frank Rose has invited the Committee to the Tuscaloosa Campus tomorrow to join him and other University officials in a one day discussion of the 1965 Graduate Study Program.

This is the first time in several years that the Committee will have visited the main campus as a body.

Dr. J. P. Hallows, Jr., of the Missile Command is Chairman of the Graduate Study Steering Committee this year. Dr. William R. Lucas of MSFC chaired the group the past year.

Other Army members of the Committee are: Henry Dihm, R. C. Harroway, H. A. Heithecker, John Hinkle, Dr. W. C. McCorkle, Dr. M. J. Hall, Noah J. Hurst, T. H. Duerr, W. V. Gudaitis, J. N. McConaha, Dr. C. M. Hersh, H. A. Schulz and Jack Hardin.

Sept. 17, 1947—U. S. National Defense Department was formed when the War and Navy Departments were combined with James V. Forrestal as Secretary of Defense.

## Bone Joins Thiokol

Joseph Richard Bone has joined Thiokol Chemical Corporation, Huntsville Division, as Manager, Computations Department.

He comes to Thiokol from Lockheed Missile and Space, where he was supervisor, Digital Programming. Previously, he was associated with Lockheed, Sunnyvale, Calif.; Hercules Powder Co., Magna, Utah; MIT Instrumentation Lab; and Boeing, Seattle, Wash.

A native of Columbia, S.C., he received his BS in mathematics from the University of South Carolina and had graduate work at the University of Utah.

Bone is a member of the Board of Governors of the Huntsville Optimists Club, and a member of the Association Computing Machinery, Mid-Southeastern Chapter.

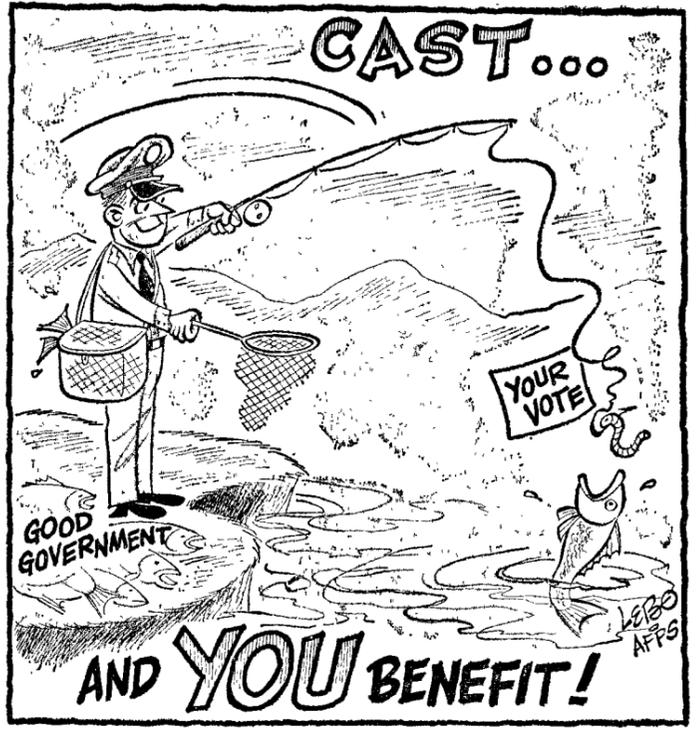
He resides with his wife and four children at 2409 Crestwood Drive, Huntsville.

## Japanese Commandants To Visit Missile School

Commandants of two Japanese military schools and the deputy commandant of a third are scheduled to visit the U.S. Army Ordnance Guided Missile School Nov. 2-3.

Maj. Gen. Shinji Oka, commandant of the Ordnance School of the Japanese Ground Self Defense Force, and Col. Shigeru Fukutomi, commandant of the Anti-Aircraft School of the GDSF, will lead a team of visitors who are touring the U.S. Army installations to study training methods used in this country.

Col. Tsugio Higuma, deputy commandant of the Signal School, GDSF, and Col. Jiehi Shoho, chief of the plans and co-ordination branch of the Ground Staff Office Headquarters will also tour the School.



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## Chemists To Hear Arveson Tonight

M. H. Arveson, president of the American Chemical Society, will address a meeting of the Society's North Alabama Section in Decatur, tonight at 6:30 p.m. at the Pavilion Inn.

Coordinator of research of the Amoco Chemicals Corporation, Chicago, Arveson is an authority in the field of petroleum technology and has served the chemical profession in many ways. He has been a member of the ACS board

of directors for twelve years. Long active in the Society's Chicago Section, he was its chairman in 1945.

"The American Chemical Society and You" is the topic of Arveson's talk. He will describe the relationship of the Society with its individual members.

A native of Antigo, Wis., Arveson received the A.B. degree from Lawrence College in 1924 and joined the research department of the Standard Oil Company (Indiana) that year. He has been with Standard Oil and its subsidiary companies since that time. Arveson holds more than 40 patents in the field of petroleum technology.

In 1955 he received the Chicago

Technical Societies Council Award of Merit, and in 1962 the Chicago Chapter of the American Institute of Chemists gave him its Honor Scroll award.

From an initial membership of 133 in 1876, the American Chemical Society has grown to over 98,000 member chemists and chemical engineers. It has 25 divisions dealing with the principal fields of chemical science and technology and 165 local sections serving chemists and chemical engineers in 49 states, the District of Columbia, Puerto Rico, and some areas of Canada.

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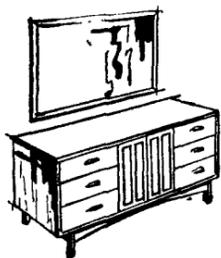
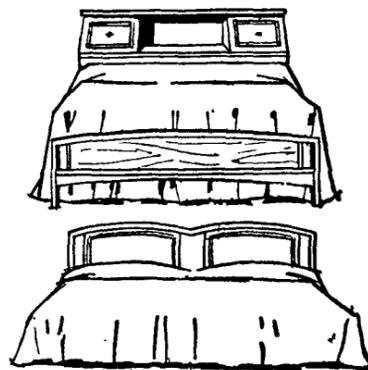
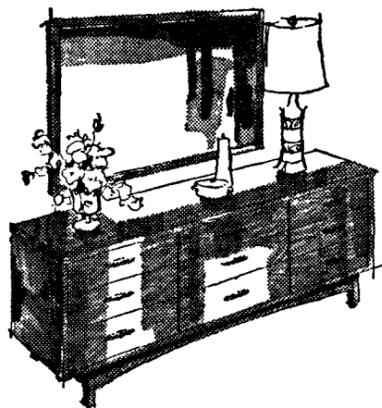
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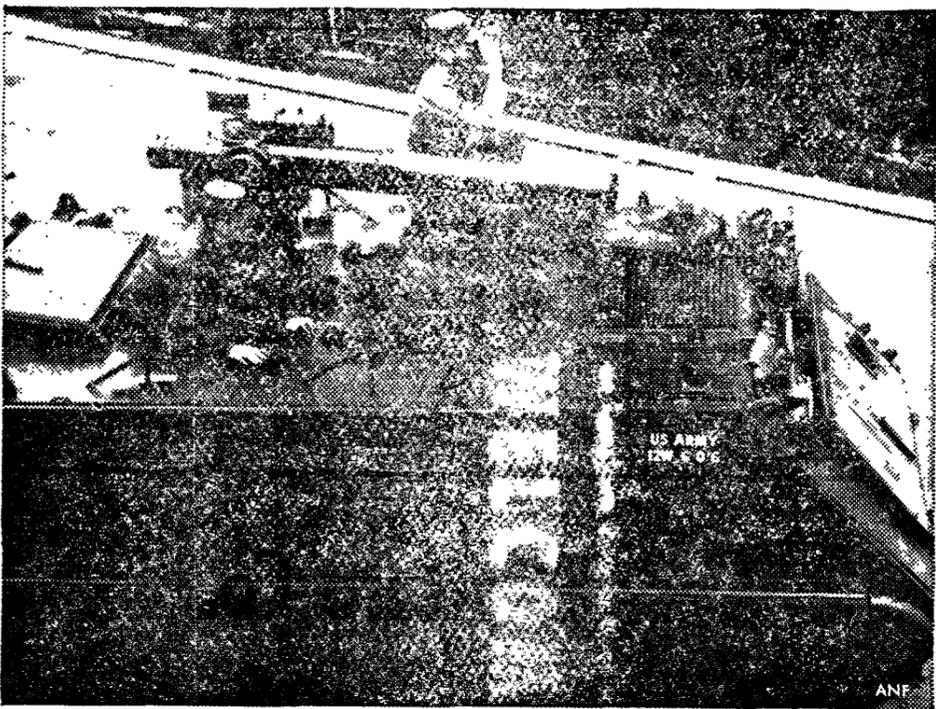
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**TANK KILLER**—The U.S. Army's TOW missile system is mounted on an M-113 Armored Personnel Carrier to give the armored vehicle a potent weapon. The tube-launched, optically-tracked and wire-guided missile can be used defensively against enemy armor. In offensive operations the deadly "Sunday punch" can be used to smash fixed fortifications. TOW was developed for the Army by Hughes Aircraft Company.

**Five Finish Defense Procurement Course**

Five Missile Command civilian employees are included in the five-week Defense Procurement Management course that will be concluded at the U.S. Army Logistics Management Center, Ft. Lee, Va., this week.

The local personnel are enrol-

led in the special training course as a part of the career development program administered by the Training and Development Division of the Civilian Personnel Office.

They are Daniel Cockrell, Joseph Plaxco, James Scott and Pauline Shappley, all of the Procurement and Production Direc-

torate, and Jeanne Scales, an attorney advisor in the Office of the General Counsel.

The off-post training is intended to provide the employees with a deeper understanding of their present position and to better prepare them for advancement in their career field.

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**1961 FORD GALAXIE**

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**1958 T-BIRD**

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2-dr., hardtop, V8, auto, power steering, brakes, white walls, a real nice car for. \$1275.00

**1961 OLDS 88**

4-dr., hardtop, V8, auto., power steering, brakes, radio, heater, white walls, local one owner car. \$1375.00

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**1963 RAMBLER**

Classic, 660, 4-dr. sedan, 6 cyl., straight shift, radio and heater, priced at. \$1575.00

**1963 RAMBLER**

Classic, 770, 2-door sedan, 6 cyl. auto, radio, heater, white walls, bucket seats, red interior, local one owner car. \$1875.00

**(8) 1964 RAMBLERS**

Classic 660's, V8, auto. radio, heater, power steering, local one owner cars from 5,000 to 7,000 actual miles just like new, price. \$2375.00

**1963 RAMBLER**

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**1959 RAMBLER**

4 dr. Sedan Classic "6 Auto." Radio, heater, real clean. \$775.00

**1961 BUICK INVICTA**

4-door hardtop, power steering and brakes, radio, heater, white wall tires. \$1875.00

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**SUNDAY EVENING WORSHIP**  
**—1830 hrs.**

**THURSDAY — Choir Practice**  
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**For further information con-**  
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**CHRISTIAN SCIENCE SERVICES**  
**Sunday - 1100 hrs**

**Wednesday Services are held at**  
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**Christian Science Armed Services**  
**Minister, collect 776-2791.**

**GREEK ORTHODOX SERVICES**  
**SATURDAY — Worship Ser-**  
**vices are held on the second Sat-**  
**urday of the month at the Post**  
**Chapel, Bldg. 3714, between 0930-**  
**1030 hrs.**

**MONDAY — Choir Practice —**  
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**SUNDAY — Masses — 0730,**  
**0845, 1230 & 1700 hrs. (Chapel**  
**Nursery open during Masses at**  
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**TUESDAY — Catechism classes**  
**from 1830-1950 hrs, in Chapel An-**  
**nex, Bldg. 3151. Novena Services**  
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**DAILY MASS — Tuesday thru**  
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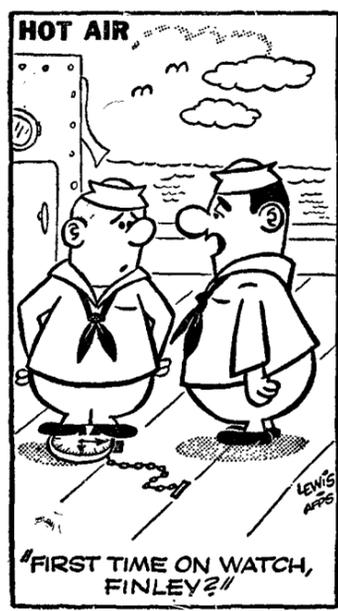
- Bastian, Hartmut, And Then Came Man.
- Campa, Arthur Leon, Treasure of the Sangre de Cristos.
- Davis, Jerome, World Leaders I Have Known.
- Engle, Paul, ed., Poet's Choice.
- Golf Magazine, Golf Magazine's Your Long Game.
- Griffith, Corinne, I Can't Boil Water, a Cookbook.
- Hayden, Sterling, Wanderer.
- Hebert, Bob, Bob Hebert's Secrets of Handicapping.
- Hemingway, Earnest, A Moveable Feast.
- Kennan, George F., On Dealing With the Communist World.
- Khoobyar, Helen, Facing Adult Problems in Christian Education.
- King, Leslie, The Master Key to Success at Golf.
- Loth, David, Crime Lab; Science Turns Detective.
- Mehnert, Klaus, Peking and Moscow.
- McCall's Magazine, McCall's Cook Book.
- Piault, Bernard, What is a Sacrament?
- Polmar, Norman, Death of the Thresher.
- Sharp, Evelyn, A Parent's Guide to New Mathematics.
- Rickover, Hyman George, American Education, a National Failure.
- Smith, Ralph Lee, The Grim Truth About Mutual Funds.
- Warner, Denis Ashton, The Last Confucian.

## FICTION

- Barnes, Margaret Campbell, Lady on the Coin.
- Bolton, Maisie (Sharman), His Father's Ghost.
- Boyce, Burke, Morning of a Hero.
- Clifford, Francis, The Hunting-Ground.
- Dilas, Milovan, The Eve of Battle.
- Gerard, Jane, Overseas Teacher.
- Gruhn, Carrie E. Myers, Happy is the Man.
- Hobart, Alice Tisdale (Nourse),

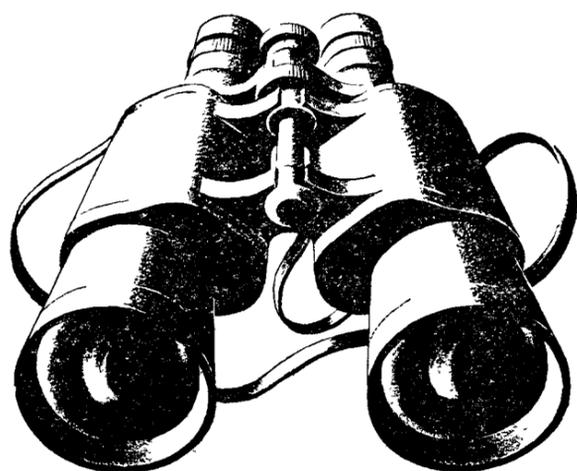


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- Letton, Jennette (Dowling), Jenny and I.
- Mason, F. Van Wyck, Rascal's Heaven.
- Millar, Margaret, The Fiend.
- Nourse, Alan Edward, The Counterfeit Man.
- Roberts, James Hall, The Q Document.
- Savage, Mildred, In Vivo.
- Simcks, L. S., Seven Days of Mourning.
- Slote, Alfred, Strangers and Comrades.
- Swados, Harvey, The Will.

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Page 14 The Redstone Rocket — October 28, 1964

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**LARGE MOBILE HOME LOT FOR RENT**—\$20.00 month to bachelor or couple. Will consider 1 child over 3 years old. Only people who can furnish good character references accepted. Russell Trailer Park. Phone 539-8743. 10-22c

**FOR RENT**—TV's portables, UHF-VHF, by day, week or month. 1964 models. Phone 536-9761 Central TV and Stereo Co., Inc., corner Governors Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. tfc

## 2. Cars For Sale

**WE STILL HAVE 14 CLEAN SHOP TESTED** used cars and selling them at dealer wholesale prices. Bank financing arranged. Texas Auto Sales, 1003 Meridian St., phone 536-6121. 11-4c

## 3. Miscellaneous

**ABS SECRETARIAL SERVICE**, 915-F Franklin St. SE (Franklin Center) Phone 534-6451 For: Photocopying, Mimeographing, Transcribing (Dictaphone) telephone answering. Employment applications prepared (Government and other) Notary Public. Our office or yours. tfc

**VOLKSWAGEN**



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**\$4.88**

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**All Work Fully Guaranteed**

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Across From Butler High  
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Open 7 a.m. to 6 p.m.

**35 BLACK ANGUS CATTLE**—Heifers and young cows, some with calves. All are bred. Sell part or all. 877-5315 or Decatur 355-3259. tfc

**JOIN A PRIVATE LEARNERS BRIDGE CLUB**—Combine learning with a real party supervised play by an experienced bridge instructor, who has studied and taken the Goren Teacher's examination, also has a successful book on bridge on the market for three years. Membership very limited. For further information phone 881-0672. 11-11c

**2-WHEEL CAR TRAILER** for sale. Steel frame, 4-ft. sideboards, good tires. Large enough to carry two horses, yet pulls and handles easily. \$100. Phone Hartselle 773-9195. M. A. BUSH. tfc

**SIX H.P. BRIGGS & STRATTON** Gasoline engine, good running cond., work bench, table saw, miscellaneous household items. Leaving city. 881-5727. tfc

**GUITAR LESSONS**—"Learn to play the Modern Way." Professional instruction for Spanish Guitar, Popular, Sacred or Western music. Phone 536-0346 ttp

**NEW UHF CONVERTERS \$11.97**—North Alabama's largest sales and service dealer for Zenith, RCA and Motorola TV and Stereo. Our prices are equal to or lower than advertised so called "discount or wholesale" prices. Price, then compare. Our merchandise is visually priced tagged at all times. We accept trade-ins. Used TVs sold for \$20 and up. We service all makes and models. Picture tubes, 21 in. 90 degrees, \$21.00 exchange with 1 year guarantee. TV rentals by day, week or month. (1964 models) Open 8 a.m. to 9 p.m. daily. CENTRAL TV & STEREO CO., Corner Governors Drive & Parkway. Phone 536-9761. tfc

**FOR SALE**—Complete Scuba diving outfit. Like new. \$125. Phone 353-0965. Decatur. tfc

**FOR SALE**—Complete studio of ladies reducing equipment. All for only \$500.00. Will not sell separately. Phone 353-0965, Decatur. tfc



**WORLD'S LARGEST MOVER**  
Local and Long Distance Moving  
FREE ESTIMATES Phone 539-1742  
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NOW IN STOCK!

47 Ft. x 10 Ft.

Two bedroom, front kitchen Northern built, fully insulated. Hillcrest by Skyline Homes Corp.

\$3395  
\$295 DOWN  
\$56.85 PER MO.

Above include delivery to your lot, light line, 2 Butane bottles filled, and completed service policy.

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**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. tfc

**WANTED**—Students we have openings for 5 students at Nitas and Dave's Beauty College. Tuition can be financed. Earn top wages, be a professional trained by trophy winner Nita Hetherington. Call Nita & Dave's Beauty College, 539-2461 or come by Governors Drive across from Butler High School. tfc

**NEW UHF CONVERTERS \$11.97**

North Alabama's largest sales and service dealer for Zenith, RCA and Motorola TV and Stereo. Our prices are equal to or lower than advertised so called "discount or wholesale" prices. Price, then compare. Our merchandise is visually priced tagged at all times. We accept trade-ins. Used TVs sold for \$20 and up. We service all makes and models. Picture tubes, 21 in. 90 degrees, \$21.00 exchange with 1 year guarantee. TV rentals by day, week or month. 1964 models. Open 8 a.m. to 9 p.m. daily.

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Cor. Governors Drive & Parkway  
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**ADAMS SECRETARIAL SERVICE** near the Arsenal, 4202 Coffee Drive. Electric typewriter, dictaphone, transcribing and notary public. Furnish supplies except special forms. Call 539-4009. 10-28c

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

**I BUY OLD COINS**—Canadians, U. S. Coins, Proofsets, gold, complete collections. Darrell Sanders, Grand News Stand, Clinton Avenue, Phone 534-5412. tfc

**PIANO REPAIRING**, tuning and refinishing over 12 years experience. Parris Piano Service. 907 Meridian St., Phone 539-2906 tfc

**5/10/5 Post Liability \$10.00 a Year**

Service men, all ranks and ages, also Civilians

**W. E. DICKEY INS. AGCY.**

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507 Terry Hutchens Bldg.  
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Open Monday, Thursday and Friday nights from 5:00 to 9:00 p.m.

## 4. Mobile Homes

**FOR A NAME BRAND Mobile Home** come to Texas Auto Sales, 1003 Meridian St. next door to Ray-Piermon Mercury. \$2995.00. Payments as low as \$42.67 monthly. tfc

## 5. Houses, Lots - Sale

**410 ACRES** located 8 miles south of Arab, 1 mile north of Brooksville. 200 acres in cultivation, 210 acres in timber. Practically new 3 bedroom dwelling, all modern conveniences, large barn, 11,000 capacity chicken house. Priced \$45,000. Owner will finance. E. G. WILLIAMSON, Real Estate Broker, Cullman, Ala., Phone 734-6294. tfc

**FREE DRAPES & RUGS** priced under FHA approval. Leaving Huntsville Nov. 14th. Beautiful brick home in Fleming Meadows, double garage, 6 rooms and central air. Phone 881-5727. tfc

**FOR LOTS, ACREAGE, HOMES, BUSINESS** Opportunities and full information on Florida properties write Mamie P. Smith, "Reg. Broker," 140 N.W. 1st Ave., Homestead, Fla. tfc

**BEAUTIFUL BRICK HOME** in Fleming Meadows available Nov. 15th. Double garage, six rooms, central air, patio, large lot. References required. Close to Gate 2. \$180,000. Phone 881-5727. tfc

**HOUSE FOR SALE** IN HARTSELLE—By Owner. Choice location Three bedroom brick, 1 1/2 baths, built-in stove, central heat and air conditioning, fire place, attached garage, thickly wooded lot, fenced in back yard. Appraised \$18,000, will sell for \$16,500. Very little cash needed. Phone 773-8673. tfc

**FOR SALE BY OWNER**—Brick 4 bedroom 2 1/2 bath house, large corner lot. Fenced in back yard in Montdale 4 blocks to Blossomwood School. F.H.A. appraisal \$27,500. Refinance. Phone 534-7522. ttp

## 6. Pets

**FOR SALE**—St. Bernard Dogs: 2 males, 3 yrs. old, 1 female 8 mos. old; 1 female pup 6 weeks old; 1 female 1/2 size, 3 years old. HERMAN H. FLOYD, Arsenal phone 876-5888; Athens phone 232-5454. 10-28c

**GERMAN SHEPHERDS FOR SALE**—Two registered male German Shepherds, one 15 mo. old; one 12 weeks old. Color black, fawn silver. Both have real good blood lines. \$50 each. Phone Hartselle 773-9195. M. A. BUSH. tfc

**Wrecker Service**

In case of an accident ask for our new wrecker. Courteous operator, reasonable charges. Day Phone 539-6541, nights 534-0776.

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- Brookhurst .. \$14,000
- Lincoya .. \$15,700 & \$19,100
- Valley Park ● Windsor Manor

— V.A. or F.H.A. —



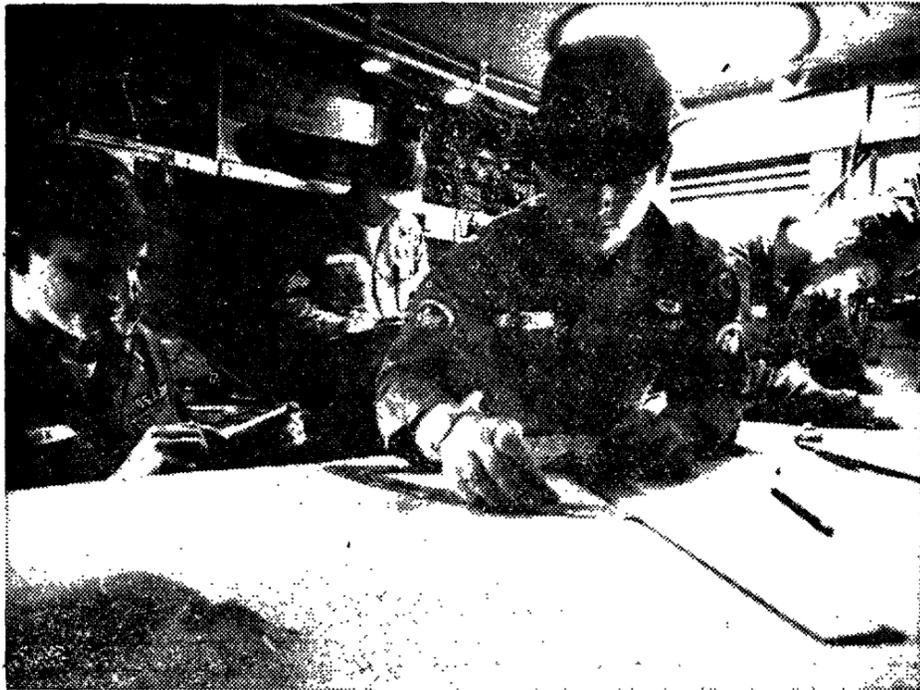
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**COLD, SNOW & ICE AHEAD... WHY TAKE CHANCES!**

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**SALES AND SERVICE**  
2305 NORTH MEMORIAL PARKWAY  
Phone 539-7456



**MOBILE FDC**—Mortarmen of the 24th Infantry Division are manning a 4.2 mortar Fire Direction Center inside an M-113 Armored Personnel Carrier in Germany. The team receives target information from the forward observer, makes computations and relays firing data to the mortar crews. The FDC can displace forward and begin operations immediately in a new position. The soldiers are, from left, Sgt. Ernest Cox, Sgt. Robert Seay, Sp5 Peter Titoch, and Pvt. Hollis Biggs. FMC Corporation produces the M-113 under contract to the Army.

Monday and went to work his counterpart here was in church.

What's worse, Kwajalein is 6 hours behind Redstone Arsenal in time. Nothing could be done about this, of course.

But since Kwajalein has no railroads, airlines or neighbors to keep in step with it wasn't too difficult to just forget to flip the calendar for one day.

And so it will be. Everyone on Kwajalein takes a long weekend this weekend, three days between Friday and Monday.

Sept. 3, 1783—Great Britain and U. S. sign definitive Treaty of Peace at Paris, the final step in the granting of American independence.

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Keep America Strong**



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**INTERSTATE FINANCE COMPANY  
FOR THE THINGS YOU WANT**

**Oh, To Be On Kwaj On Oct. 32nd!**

This coming Sunday will be Sunday all over the world. That is, except on Kwajalein Island in the Pacific where it will be Saturday, Oct. 32.

The fact is that the 3,000 or so people on the tiny, 3 mile long island will enjoy a perfect weekend; two Saturdays back to back. They'll get a Sunday too, on top

of it all.

And for the kids it'll mean the greatest thing since the school house burned; two Halloweens.

For many of the grownups it will mean a holiday for loafing, swimming in the lagoon—and figuring out how to set their calendar watches.

What will really be happening is that Kwajalein will be waiting for the world east of the International Dateline to catch up with it. As it is now Kwajalein is a day ahead because it lies on the far side of that imaginary line in the Pacific Ocean. Saturday here is Sunday there, etc.

This created problems for the Nike-X Project Office at Redstone Arsenal, Ala., which operates the island as a test site for the Nike-X missile defense system.

An engineer here wanting to clean up an important matter on Friday found his counterpart on Kwajalein was taking a Saturday siesta. And when the engineer on Kwajalein rolled up his sleeves on

**Mobile Home Lots  
FOR SALE**

**PINEHILL MOBILE ESTATES**

**HURRY! ONLY A FEW CHOICE LOTS LEFT!**

1. Located 7 Miles From Redstone Arsenal.
2. Large ¼ Acre Wooded Lots.
3. State Approved Community Water System.
4. Septic Tanks On Each Lot.
5. School Bus Service.
6. Garbage Pickup Available.
7. Beautiful Mountain View.

**\$300 Down—Payments as Low as \$32.82**

**DIRECTIONS:** Go south on Hwy. 231 past Tenn. river bridge, turn right on Hwy. 36, go 1 mile and turn left on first county road and follow signs.

**Call Bob Pritchett**

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**Nights & Weekends  
852-3641**

**All Brick New Homes**

Some Are

**AIR CONDITIONED**

\$15,800 TO \$17,600

**MOVE IN 10 DAYS**

All have 3 bedrooms, 1½ baths, attached garages, glass sliding doors to patios, built-in oven, ranges, vent hoods and vanities in baths.

**DIRECTIONS**—Drive out Pulaski Pike to Mastin Lake Road and turn right to DAVIS HILLS SCHOOL. See our houses across from the school.

CALL JIM ALLEN OR RAY PRINCE

**852-3601**

**Carl Culverhouse  
AND ASSOCIATES**

**WHY KEEP LOOKING?**

**BUY THE FINEST**

—IN—

**UNIVERSITY  
MEADOWS**

3 Bedrooms, 1½ Baths, Attached Garage or Carport.  
100% G.I. OR MIN.  
DOWN F.H.A.

**\$14,550 to \$15,900**

**OAKMONT**

4 Bedrooms, 1½ & 2 Baths. Veterans move in for  
\$200.00  
F.H.A. as Little as  
\$550.00

**\$16,700 to \$19,500**

● THE BEST IN QUALITY

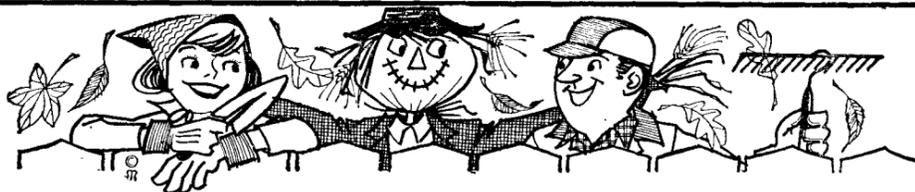
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**IT'S FALL PLANTING TIME  
SHADE TREES**



**Redbud — Sycamore — White Birch  
BALLED and BURLAPPED**

- HOLLIES and DWARF HOLLIES
- BOXWOOD (American & Dwarf)
- AZALEAS
- MERION BLUE GRASS SOD
- PYRACANTHA with Red Berries

**FLAGSTONE For PATIOS**

**OPEN ALL DAY SATURDAY  
OPEN SUNDAY 1:00 P.M. TO 5:00 P.M.**

**BROSEMER**

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**NURSERY**

Located On Pulaski Pike—3½ Miles  
North of Huntsville Country Club



## Col. Braid Talks To Personnel

Col. Robert B. Braid, Deputy Project Manager for Nike X, spoke at the monthly meeting of the Huntsville Chapter, Society for Personnel Administration last week at the Squirrel Hill Officers Club.

Sixty members and guests heard Col. Braid relate his concept of "Management's Relationship to the Personnel Program." He said that management and the personnel staff share a common goal of developing an effective organization; each deal with the most precious commodity—people; and that the personnel group must be a part of the top decision group, the alter ego of management. He noted the factors involved in attaining their goals.

Aside from technical stability, Col. Braid said that enthusiasm for personnel work and a genuine liking of people are two characteristics of successful personnel people.

Col. Braid was the Commanding



**TO TALK**—Col. Frank J. Wasson, Jr., chief of Missile Support, Army Combat Development Command Ordnance Agency, will speak at graduation ceremonies in the Post Theater at 10 a.m. Friday. Before assignment at Redstone, he was a Senior Ordnance Advisor for the Republic of Korea at San Francisco.

Officer of Watertown Arsenal prior to his assignment at Redstone Arsenal.

President Roy Hollihan announced that the Huntsville Chapter is sharing sponsorship of The Tenth Annual Personnel Management and Industrial Relations Conference Dec. 3-4, at the University of Alabama.



**TROOPS OR CARGO**—Combat troops of the 11th Air Assault Division deploy on the ground after landing in a CH-47A CHINOOK helicopter at Fort Benning, Georgia. The helicopter will carry 33 combat troops or seven tons of cargo. Crew-served weapons, wheeled vehicles, and bulk cargo in crates or small boxes can be loaded and air-lifted into inaccessible areas. The Boeing Company, Vertol Division is the contractor.

## Group Hears Airlines Manager At Oct. Meet

Stephen Kabala, Regional Cargo Sales Manager, from TWA Airlines, Chicago, addressed the Huntsville Chapter of the National Defense Transportation Association on Thursday, Oct. 15, at the regular monthly meeting.

Kabala showed a film on "Air Cargo" and described the progress of passenger and cargo transportation from the days of one man in a wooden and fabric bi-plane at Kitty Hawk, to the giant 92,000 pound capacity air carriers of the present day.

Kabala's presentation is one in a series concerning different models of transportation fields represented in the membership of the NDTA. Previous meetings of the current year have included an address by a rail transportation executive, a barge trip representing water transportation, and a tour of missile and space facilities at Redstone Arsenal.

The program for the November meeting will be presented by a representative from motor transportation. The annual dinner-dance will be held in December.

NDTA members plan to devote January and February to culmination of civil defense planning in the transportation field coordinating with officials of Huntsville and surrounding municipalities. In addition, the educational functions will include co-sponsorship of a transportation forum at the University of Alabama early in 1965.

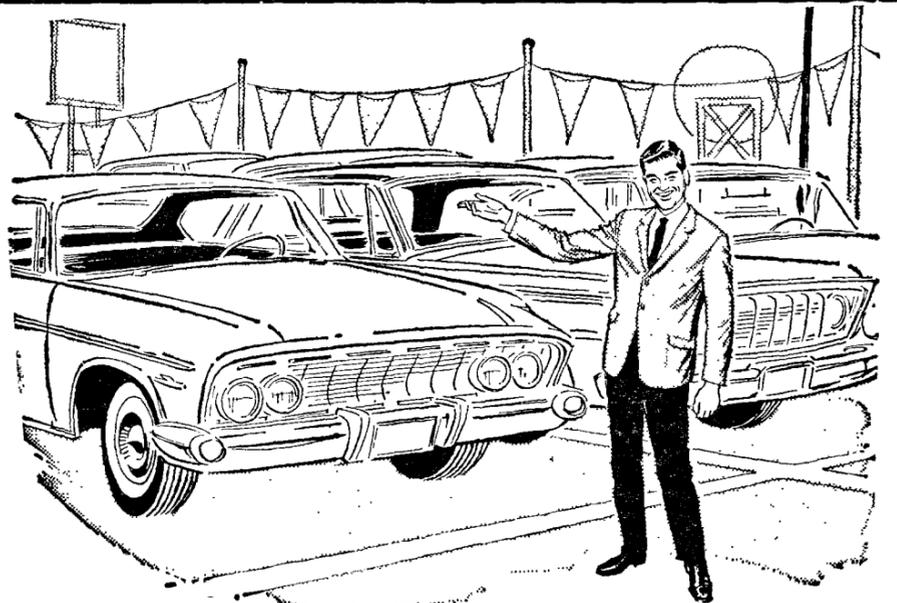
## INVEST IN FREEDOM



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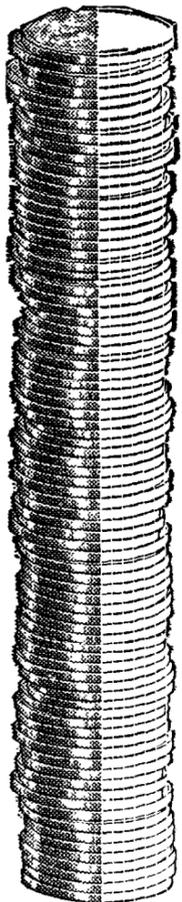


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| 1956 Buick<br>2 dr. Hardtop, black & white, radio, heater, auto. Clean.<br>\$445.00        | 1961 Volkswagen<br>Solid white. Clean.<br>\$1195.00  |
| 1964 VW Sedan<br>Solid white, radio, 9,000 miles.<br>\$1695.00                             | 1963 Corvair Monza<br>2 dr., 4-in-floor, radio, heater, bucket seats.<br>Special—\$1595.00             |
| 1962 V.W. Sedan<br>Clean, solid black.<br>\$1445.00  | 1963 Comet<br>2-dr., auto., radio & heater. Clean.<br>\$1595.00  |
| 1963 Volkswagen<br>Sedan. Clean local car.<br>\$1595.00                                    | 1959 Chevy<br>2-dr., V8, S.S., radio, heater.<br>\$445.00  |
| 1960 Volkswagen Sedan<br>Thoroughly reconditioned. Ready to go!<br>\$895.00                | 1957 V.W. Sedan<br>Convertible ..... \$495.00  |
| 1963 Volkswagen<br>Sedan. Black with radio & whitewalls.<br>\$1595.00                      | 1955 Olds 88<br>Auto., air condition. Really clean.<br>\$495.00  |
| 1961 Ford Convertible<br>Std. shift with overdrive. Extra nice. See this one.<br>\$1295.00 | 1961 V.W. Camper<br>New curtain & interior. Completely refinished. New tires. New engine.<br>\$1595.00 |

Reconditioned  
**V.W. Station Wagon**  
1959  
**\$995.00**

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