

# Scouts View Missiles, Helicopters And Exhibits



**BEST IN DISTRICT**—Mack Fitzgerald, representing Troop 92 in Hartselle, accepts a camping pack from Col. Thomas W. Cooke, Commander of Redstone Arsenal, during the awards ceremony that was held in conjunction with the Sixth Annual Adventure Round Up at the Arsenal last Saturday. The youth qualified for the award by being the top recruiter in the Cotaco District of the Tennessee Valley Council. Col. Cooke, who acted as host for the Round Up, is a member of the Council's Executive Committee.

Redstone Arsenal was the host to over 2,000 Scouts and their adult leaders from throughout northern Alabama Saturday morning for the sixth annual Adventure Round Up and awards ceremony of the Tennessee Valley Council of the Boy Scouts of America.

The Round Up is a yearly affair at the Arsenal climaxing the annual recruitment campaign of the Council. This year the boys made one of their greatest showings by recruiting some 400 more boys for the scouting movement than they did last year.

The big day for the boys started with an opening assembly with Col. William J. Macpherson, Commandant of the U. S. Army Ordnance Guided Missile School, giving the welcoming talk.

Col. Macpherson set the pace for the day when he likened the aims of the scouting movement to the preparedness that is so necessary to the modern Army. The OG-

MS Commandant has been very active in scouting throughout his stay at Redstone and just last summer his son, William J. Jr., qualified for the rank of Eagle Scout.

Following the opening assembly the boys were divided into groups and toured a series of displays and exhibits that were especially constructed to depict activity at the Arsenal and the mission of the various Reserve and National Guard units in the area.

The displays were prepared by the Army Missile Command, Missile Support Command, Ordnance Guided Missile School, 326th Chemical Company (Reserve), the 279th Signal Battalion (Reserve) and the 20th Special Forces Group (Airborne National Guard).

The Scouts were reassembled at noon for the awards ceremony. Each Scout who signed up one or more boys for scouting during the drive was given an attractive

## Blood Is Needed

The Red Cross Bloodmobile will be at Redstone Arsenal from 8:30 a.m. to 2:30 p.m., Dec. 18.

Bloodmobile headquarters is in Bldg. 7110. Col. William Luk, coordinator for the Arsenal, said a special effort is being made to bring out as many donors as possible. He anticipates a need for more blood reserves than usual over the Christmas-New Year holidays.

pocket patch commemorating the event.

Col. Thomas W. Cooke, who in addition to being Commander of the Missile Support Command, Redstone Arsenal, is a member of the executive board of the Tennessee Valley Council (See SCOUT on Page 3)

# The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 11, 1963

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Spot News

Dial 877-2164

## Gen. Funk Re-schedules Visit Here

The Air Force general who heads America's military space program has re-scheduled a visit and speech here for Jan. 14.

David M. Newby, president of the local chapter of the American Ordnance Association, said today that Major General Ben I. Funk, Commander of the Air Force Space Systems Division, has accepted an invitation to speak at the group's annual dinner on that date.

Gen. Funk had originally planned to make the main address at the AOA's dinner on Nov. 26. Newby postponed the event after President Kennedy was assassinated.

The general will arrive in Huntsville on the evening of Jan. 13. (See GEN. FUNK on Page 3)

## AMC Is Host To German Minister

K. U. von Hassel, West German Defense Minister, wound up his 16-day visit to U. S. military installations with a visit to the Army Materiel Command at its headquarters in Gravelly Point, Washington.

Invited to the United States by Secretary of Defense Robert S. McNamara, Von Hassel visited other AMC installations and was briefed on AMC developments.

Among the items the West German counterpart to Mr. McNamara was briefed on were status of development of Redeye, surface-to-air shoulder fired guided missile; Davy Crockett, a low-yield nuclear or conventional warhead launching system; and the M48-A3 tank.

At Ft. Benning he also received a briefing on the 11th Air Assault Division, which uses many of these weapons and much AMC developed equipment.

## 'Installation Has Heart,' Fagan Says At End of United Givers Fund Drive

Redstone personnel proved once more that "this is an installation with a heart," commented Jim Fagan in submitting his final report on the United Givers Fund campaign.

The Executive Chairman of the 1963 drive among Army-connected elements reported that over \$206,000 had been collected throughout the Arsenal in support of fund collecting agencies in some forty counties and cities in Alabama and Tennessee.

The funds collected for each of

these agencies will be forwarded to the respective UGF's by cashier's check from the First National Bank of Huntsville.

In reporting the final results Fagan was unstinting in his praise for the individual workers who played such an important role in the final success of the drive.

Eleven out of the eighteen reporting agencies of the Arsenal reported contributions from every person in their organization and three of the agencies turned in collections surpassing the fair

share goal.

Heading the latter category is the Supply and Maintenance Directorate. The other two were the Office of the Commanding General and the Office of the Deputy Commanding General, Land Combat Systems.

J. W. Linton, agency chairman for S&M, turned in a total of \$27,807 against a Fair Share pledge of \$27,733. He reported that all 1275 of the personnel of the Directorate participated in the campaign. (See INSTALLATION on Page 3)

## Talks To Lawyers

### Rep. Elliott Takes Close Look At Local Research

The chairman of a Congressional committee investigating Government research got a first hand look at the R&D Operations of the Army Missile Command Friday, then said in a luncheon address: "I am pro research."

Congressman Carl Elliott of Alabama came to Redstone at the invitation of the local chapter of the Federal Bar Association. He toured Army facilities in the morning, and spent the afternoon at the Marshall Space Flight Center.

Flanked by Brig. Gen. John G. Zierdt, Commanding General of the Missile Command, and Dr. Werner von Braun, Director of Marshall Space Flight Center, Rep. Elliott told the lawyers luncheon session in the Squirrel Hill Officers Club that his investigation was aimed at ferreting out overlapping research effort; determining if pure basic research was be-

ing short changed; and in general taking a complete look at all government programs involved in our annual \$15 billion research outlay.

"I am pro research," he said. "The greatest thing America is doing today is doubling its knowledge every 10 years."

Rep. Elliott said his special committee would renew its hearings on the government research effort this week.

"Many Americans feel that we are spending too much money, time and effort in research that could be better applied, he said. "I am sincerely in sympathy with those who feel we should be solving the old problems before challenging the future . . ."

"However I believe with all my heart that America has the resources, and the ability to do all that must be done if this nation is to fulfill its destiny . . . We (See REP. ELLIOTT on Page 3)



**CONGRESSMAN BRIEFED ON CONTROL SYSTEMS**—Alabama's Congressman Carl Elliott (left) listens intently to an outline of operations in the Control Branch of the Army Inertial Guidance and Control Laboratory. John P. Leonard, Chief, is briefing the Congressman. Congressman Elliott was at Redstone to address the regular meeting of the Federal Bar Association. He is Chairman of the House Select Committee Reviewing Research and Development in the Federal Government.

# 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-135, Extension 876-4161.

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## Rocket Ruminations

Great blunders are often made, like large ropes, of a multitude of fibers.

—Victor Hugo

## Commander In Chief's First Message To The Armed Forces



"We have suffered a great National loss and sorrow in the death of the Commander in Chief, President John Fitzgerald Kennedy. A man who knew war and hated it, he loved peace all the more and sought to make it secure in the world for your children and his. He will be remembered and honored forevermore for his valor and courage in serving that cause of peace which you serve in your faithful vigil for freedom.

"Our Constitution provides for the orderly continuity of the civil offices of our Government. In the transition brought upon us by tragedy, there is no interruption in the continuity

of that commitment to strength, steadfastness and selfless sacrifice which has kept us free and the world at peace. As you stand your guard of freedom and peace, you may know that the policies and purposes of your country are unchanged and unchangeable in seeking honorable peace, the friendship and alliance of free nations and the building of a responsible world free of the causes of hatred, division, oppression and human despair. Praying to be worthy of God's guidance, let us rededicate ourselves to the continuing tasks before us remembering always that the price of our liberty is eternal vigilance."

Lyndon Baines Johnson  
President of the United States

## Army Awards Mauler Work

The U. S. Army has announced that a \$10,620,000 contract has been awarded for continued development work on the Mauler air defense missile system. General Dynamics/Pomona received the award, and the work will be done at their Pomona, Calif. plant.

Mauler is being designed as a compact, highly mobile weapon which will use solid-fuel, radar-guided missiles to destroy short-range tactical missiles and rock-

ets, and high-performance tactical aircraft that bomb, strafe, harass or reconnoiter near forward battle area positions.

The Mauler Project Office at the Army Missile Command has overall charge of Mauler development. Col. Norman T. Dennis is Mauler Project Manager.

The Los Angeles Procurement District will administer the contract for the Army.

## Col. Macpherson Emphasizes Cost Cutting Program

Col. William J. Macpherson has appointed cost reduction monitors in all divisions and branches of the Army Ordnance Guided Missile School to press for savings urged by President Lyndon B. Johnson.

Allen C. Metzger of the OGMS Comptroller's Office is heading the drive to find and report savings throughout the OGMS area.

Col. Macpherson said the first OGMS saving to be certified by the Army Audit Agency under the economy program amounts to \$23,000 per quarter and stems from conversion of contract instructor jobs to Civil Service positions.

Col. Macpherson cited examples of savings achieved at other Army posts to spur the thinking of his own cost cutters.

One Army installation is saving \$30,000 annually by testing the eyesight of candidates for post driving licenses before instead of after they start two weeks of instruction. Those with inadequate vision were eliminated early, preventing waste of man-hours and class-room space.

At another Army post it was found that claim adjusters spent more time filling out forms when household goods were damaged in shipment than in inspecting the damaged goods. Polaroid photographs are now made of damaged goods, eliminating many lengthy and detailed reports.

Another Army post found 15,867 obsolete sleeping-bag zippers that had cost \$51,400 and were supposedly a total loss. A simple modification saved \$42,000 in replacement costs.

At Fort Chaffee, Ark., the meat plant saved \$9,000 in the first three months after it started making its own shortenings from beef bones and excess fat.

At Fort Eustis, Va., field maintenance shops were consolidated with initial savings of \$58,000 in the first six months.

At Fort Bragg, N. C., a savings of \$81,914 was realized in processing scrap metals and surplus property. A crane and magnet were purchased for \$4,296 and are doing the job for which the Army formerly paid \$36,210 for manual labor.

"Several of these examples seem obvious," Col. Macpherson said, "but somebody thought of them and put them into practice."

He pointed out that special cash prizes are being offered by the Army for outstanding savings in the program which realized \$1 billion during its first year and has a goal of \$4 billion in annual identifiable savings by 1965.

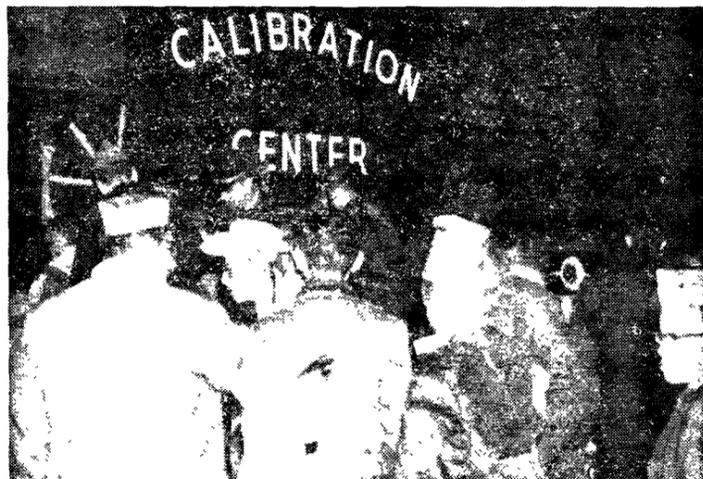
December 7, 1917—U. S. Declaration of War made against Austria-Hungary.



VISITOR AT MISSILE COMMAND—Lt. Gen. Dwight E. Beach (left) Commanding General, U. S. A. Combat Developments Command, and Brig. Gen. John G. Zierdt, Commanding General, U. S. Army Missile Command, had a coffee break together during Gen. Beach's visit to Redstone Arsenal this week. Gen. Beach came in from Ft. Rucker, where he inspected facilities at the Army Aviation Center, to inspect the Combat Developments Command Ordnance Agency Missile facilities at Redstone Arsenal. From Redstone he went to Ft. McClellan.



WELCOME TO REDSTONE—Col. William J. Macpherson, Commandant of the U. S. Army Ordnance Guided Missile School, welcomed some 2,000 Boy Scouts and their adult leaders to Redstone Arsenal last Saturday for the 6th Annual Adventure Round Up and awards ceremony. Col. Macpherson likened the aims of the scouting program to the preparedness that is so necessary in the modern Army.



AGE OF ELECTRONICS—The Missile Command's Calibration Center exhibited some of the latest types of electronic accounting machines for the Boy Scouts who attended the Adventure Round Up at the Arsenal last Saturday.

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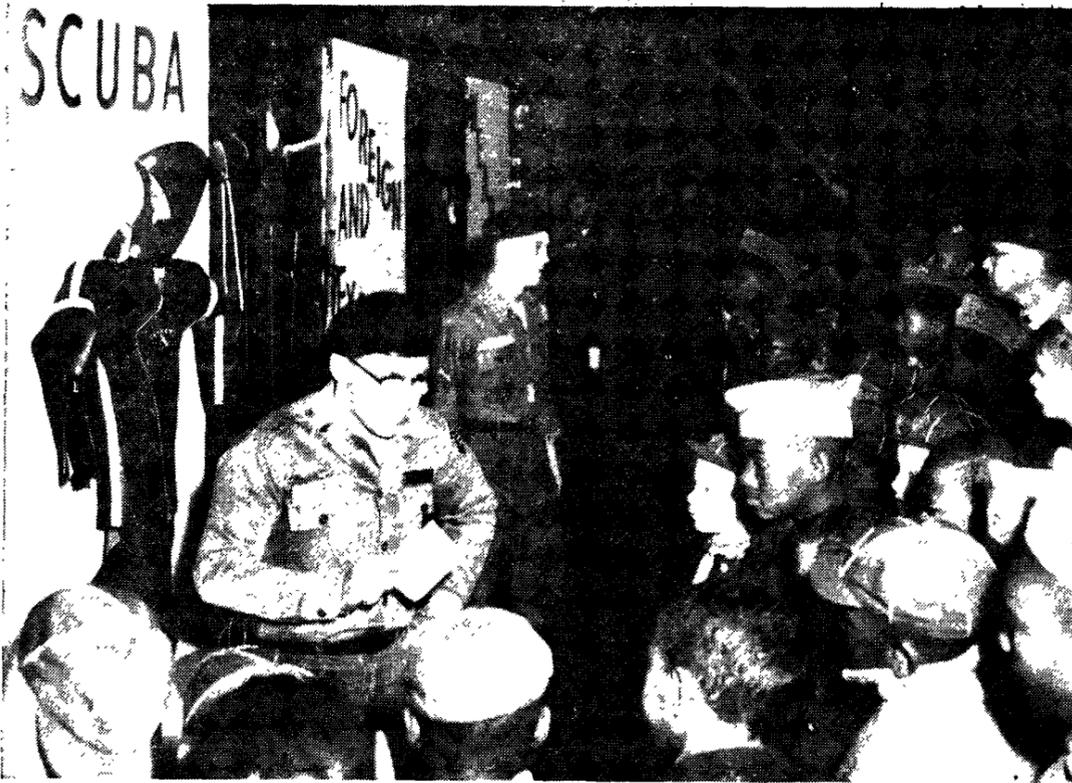
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**POPULAR DISPLAY**—One of the most popular displays at the Adventure Round Up last Saturday proved to be the one depicting the activity of the 20th Special Forces Group, an Airborne National Guard unit. The Boy Scouts who attended the Round Up took home with them a vivid insight into the work being carried on at the Arsenal in the development of rocket and missile weapons in addition to the activity of several Reserve and National Guard units in the area.

## ARMED FORCES ANNUAL PHOTO CONTEST DEADLINE IS DEC. 31

WASHINGTON (ANF) — Active duty Armed Forces photographers and information personnel are again invited to enter the 1963 "PICTURE OF THE YEAR" photographic competition sponsored jointly by the National Press Photographers Association, University of Missouri School of Journalism and The World Book Encyclopedia.

The competition serves to focus attention on the art of photojournalism and is designed to promote and recognize news sense, imagination and the technical ability of Armed Forces photographers and information personnel.

The deadline for entries is December 31, 1963. To be eligible for the competition, photographs must have been taken and initially published between January 1, 1963, and December 31, 1963. Photos submitted can be made on Official assignments or on own initiative.

### Categories

The six categories of entries are: NEWS—photos of a scheduled or unscheduled news event, FEATURE — photos or picture stories of human interest subjects, PICTORIAL — design and mood pictures, landscapes and seascapes, patterns and gimmicks, PORTRAITS AND PERSONALITY STUDIES, SPORTS and PICTURE STORY.

### Rules For Entry

All photographs must be mounted on 16x20 mounting board. The photos themselves may be any size, mounted vertically or horizontally. The CAPTION MUST BE ON THE BACK OF THE MOUNT ONLY. No more than 20 prints may be submitted by a contestant, except that an entire picture story

accounts as only one print. Glossy or matte prints are acceptable but not TONED prints.

### Prizes and Honors

The top award of this competition carries the title of "Military Photographer of the Year." To win the top award, entries must be made by the contestant IN ALL OF THE SIX CATEGORIES LISTED ABOVE.

The First Prize winner will receive a 37 volume reference library from World Book Encyclopedia in the Aristocrat binding; a 15 volume set of Childcraft the Child Development Plan; the two volume World Book Dictionary; and the "Cyclo-teacher" learning aid, a new kind of teaching machine for family use in the home.

Second Prize is a 20 volume set of the World Book Encyclopedia and the 15 volume set of Childcraft, and the Third Prize winner will receive a two-volume World Book Dictionary plus the 600 page World Book Year Book. A Certificate of Merit will be given for every prize and Honorable Mention. Citations will be presented to those photographers whose photographs are selected for exhibition.

The prize winning pictures will be exhibited during 1964, and the judging of pictures will occur at the University of Missouri School of Journalism.

### Mailing of Entries

No entry forms are required. Complete name, present military address and permanent home address should be shown on the backs of all entries.

All entries, to be postmarked no later than December 31, 1963, should be mailed directly to: Pic-

## Chrysler Awarded Tank Contract

The Army Materiel Command awarded a \$45,282,583 contract to Chrysler Corporation to operate AMC's tank plant in Cleveland.

The Cadillac Division of General Motors has operated the plant since 1950.

Under the contract, Chrysler will produce 1200 armored reconnaissance carriers and 428 self-propelled 155 mm howitzers at the plant. The contract awards are for a year's deliveries. Twenty-seven concerns were solicited for bids on a nationwide basis, but only two proposals were received.

ture of the Year Competition, Journalism Annex, Room 27-A, School of Journalism, University of Missouri, Columbia, Missouri.

## SCOUT

(Continued From Page 1)

nessee Valley Council, presided over the awards ceremony and presented special awards to individual scouts and units for their achievements in the drive.

The most interesting exhibit was saved for last. It was a ripple firing demonstration of an Army rocket and a simulated atomic bomb blast.

## INSTALLATION

(Continued From Page 1)

paign with 93 per cent of them contributing a Fair Share.

Both Gen. Zierdt's Office and the Office of Gen. Eifler reported 100 per cent Fair Share participation with contributions that exceeded the fair share goal.

Another of the large Directorates, Procurement and Production, just missed reaching their goal. Richard Edmonds, agency chairman for P&P reported contributions of \$20,022, or 95 per cent of the goal.

Three project offices, Hercules, Mauler and Lance, each fell less than \$100 short of their respective goals.

"While the agency chairmen in these organizations are due special acclaim for their work," commented Fagan, "the successful conclusion to the drive was a team victory."

"Each person who helped in any way toward the final success has my deepest congratulations," he added.

## GEN. FUNK

(Continued From Page 1)

13 in time to attend an event hosted by the Industrial Expansion Committee. On Jan. 14 he will tour facilities of the Army Missile Command and Marshall Space Flight Center.

The annual meeting of the AOA will be held at the Redstone Officers' Club that evening. Newby said tickets sold for the November event will be honored in January.

## REP. ELLIOTT

(Continued From Page 1)

have no choice but to fully explore the pathways that Science is charting for us."

The congressman from Jasper said his committee would make "sensible recommendations" to the House of Representatives upon conclusion of its investigation.

Earlier in the day Rep. Elliott had toured Army R&D facilities with Col. John T. O'Keefe and Lt. Col. George Eblen, his escort officer. Lt. Col. James C. Miller briefed him on Future Missile Systems. William Gudaitis explained the role of the Army Inertial Guidance and Control Laboratory in coordinating inertial guidance research and development for the Army and accompanied the congressman on a tour of the G&C Laboratory.

December, 1863 — Edward Everett Hale's "Man Without a Country" published by ATLANTIC MONTHLY.

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### 1960 CHEVROLET

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### 1963 DODGE

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# Fungi Get Diet Of Potatoes And Missiles

Army Sp/4 Dick Pakulski starts his work day at the Army Missile Command by feeding boiled potatoes to his fungi spores.

Even at Redstone—where many unusual research projects are taking place—Pakulski's job is a rarity: he's a mycologist (a botanist who deals with fungi).

As a general rule, the Army doesn't look kindly on anyone who damages equipment. But Pakulski holds a special license to do a special job of attempted destruction on missile systems.

He nurses fungi from their sub-microscopic infancy to the point where they look like a water logged fur cape. He grows molds under laboratory conditions, then sets them free on missiles so he can carefully study them as they chomp away at wire, metal and plastic components.

"Tests with fungi are not foolish as they might seem at first glance," the Missile Command's mycologist says.

"The tests are a vital step in verifying that these missiles will work anywhere—from the Arctic to the tropics—or maybe in a hurricane or a desert sandstorm."

Although scientists and engineers wearing enlisted Army green are liberally sprinkled throughout research and development projects at the Missile Command, Pakulski does have a rather enviable duty section.

He runs a one-man laboratory under hospital-clean conditions. His instruments include sterilized test tubes, an amazing assortment

of odd shaped tongs, forks—and the scientists' old standby — a powerful microscope.

Pakulski deals with relatively common molds—of the same general type a housewife is apt to find on a loaf of stale bread—or thriving on the top of a jam jar.

Naturally, Pakulski's work lends itself to some good-natured joshing. He has a dozen titles — including "fungus feeder," "mold man" and "mold maker."

The soldier feeds his fungi a specially prepared diet as sensitive as a baby's. It's a gelatin-like prepared food, to which Pakulski adds cooked potatoes, carrots, or whatever food a particular fungus thrives upon.

"These hearty fungi can also subsist on the materials that Army missiles are made of," the soldier says. "My job is to determine if that material will—or will not—support fungi, or in some instances, repel it."

The "fungi factor," as Pakulski is fond of calling it, conceivably could be a critical issue if no advance preparations were developed to deal with the vicious little growths.

He gets his original mold specimens by Army mail order. "My biggest problem is keeping the fungi pure," he says. "Everything must be perfectly clean—else they'll become contaminated by other fungi."

The 25-year-old soldier is a graduate of the University of Maine, where he received a bachelor of science degree in physics. He is a native of Livermore Falls, Me.

Even though Pakulski's work with invisible fungi gives some of his associates an instant itch, the soldier has no qualms about handling molds.

Ke keeps his lunch in a refrigerator along side his fungi cultures.



**MOLD MAKER AT WORK**—Armp Sp/4 Richard Pakulski transfers fungi—the kind that like to eat missiles—into laboratory tubes for special tests at the Army Missile Command. The soldier-scientist operates a one-man laboratory, growing fungi to perform tests in verifying that the missiles will work at any location in the world, and under virtually any weather condition.

## December Military Review Features 'Limited War'

FT LEAVENWORTH, Kan., Dec. 3—Featured in the December issue of Military Review, the Army's senior professional journal, published by the U. S. Army Command and General Staff College, are: "Keeping Limited War Limited," "Normandy Revisited" and "Laos: Case Study in Civic Action."

Army Maj. Alton R. Wheelock states in "Keeping Limited War Limited" that we know more about weapons effect than we do about keeping war limited. The author says that three principles—the limited objective, the communication of intent, and political primacy—must be observed in order to keep war limited.

Maj. Wheelock is presently assigned as Chief of the Commodity Section in the Program Branch, Research and Development Directorate, Army Materiel Command. The major, a Signal Corps Officer, holds an MBA degree from Harvard Business School.

In "Normandy Revisited" Maj. Gen. H. Essame, British Army, retired, concludes that Eisenhower's decisions to use airborne units and to proceed with the landing despite the equivocal weather reports won the battle on Normandy before the first soldier set foot in France.

Gen. Essame served as an infantry brigadier in the British Second Army during the Normandy campaign. He is now a lecturer in military studies under the auspices of the Universities of Oxford, Exeter and Southampton. He

is also a member of the Institute of Strategic Studies in Great Britain.

In "Laos: Case Study in Civic Action, The Royal Lao Program" Brig. Gen. Oudone Sananikone of the Royal Lao Army gives the reasons for the program's limited success. Gen. Sananikone, commissioned General of Civic Action of the Royal Lao Government from 1957 to 1959, states that the pro-

\*\*\*\*\*  
**Movie Schedule**  
 \*\*\*\*\*  
 WEDNESDAY, December 11  
 "Go Naked in the World" (M)  
 THURSDAY - FRIDAY, December 12-13  
 "The Prize" (M-YP)  
 SATURDAY, December 14  
 "Cavalry Command" (F)  
 SUNDAY-MONDAY, December 15-16  
 "Move Over, Darling" (M-YP)  
 INCREASED ADMISSION:  
 Adults, 40c  
 TUESDAY, December 17  
 "Kiss of the Vampire" (M)  
 Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

gram's failure to meet expectations was due to a lack of trained personnel and interdepartmental interference and bickering.

Complementing Gen. Sananikone's article is "Laos: Case Study in Civic Action, The Military Program" by Maj. Charles W. Stockell, USA Maj. Stockell, a 1962-63 regular course student at the OGSAC, was the senior psychological warfare officer on the staff of MAAG/Laos during 1961-62.

Maj. Stockell begins with the civic action program in 1959 until its demise with the coup in 1960. In July 1961 another civic action program, modeled after its counterpart in South Vietnam, was begun under army control. This program also ended in failure due to the Laotian officers being unable to grasp what U. S. instructors were presenting.

The author points out the lessons we learned from these failures and says that they are valuable subjects for future study.

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| 700                 |                       | 34.30     | 64.92     |
| Life and Disability | \$40.05               | 48.76     | 92.30     |
| Insurance on loans  | 1500                  | 59.80     | 72.80     |
| at group rates      | 2000                  | 78.96     | 96.13     |
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## 'War Or Peace' Depends On Allies Capt. Nelson Says

"War or peace for our Allies today means war or peace ourselves," 42 graduates of the Army Ordnance Guided Missile School were told Friday.

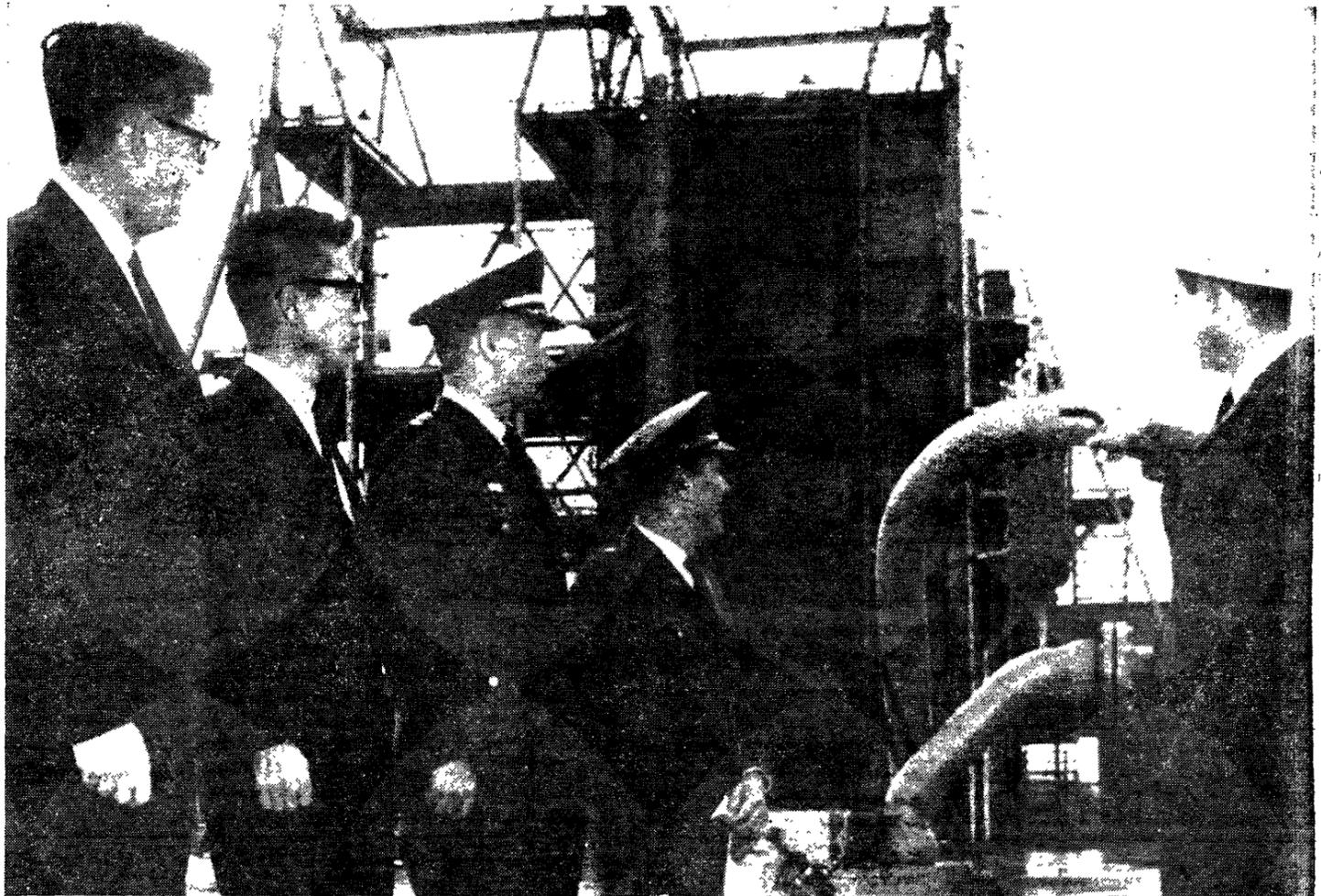
Students from Turkey and the U. S. were addressed by Capt. Roosevelt Nelson of the Army Missile Command's Hawk Project Office who was a 1960 graduate of OGMS.

Nelson urged the graduates to widen their knowledge of continuing advances in missile technology and to deepen their appreciation of the indispensable role played in missile warfare by the logistical and technical experts who may be far removed from the actual battlefield.

Lt. Kenneth D. Cobb Jr., of 2856 S. Buchanan St., Arlington, Va., was top man in the Ordnance Guided Missile Officers Course (ADM).

Enlisted honor graduates were: Pfc. James R. O'Guin of Newbern, Tenn., in Hawk internal guidance; Pfc. Frank R. Witkowski of 7153 S. Damen St., Chicago, in Hawk pulse acquisition radar and battery control; Pvt. Robert W. Pastorius of 1360 Cordilleras Ave., San Carlos, Calif., in guided missile electronics; and Pfc. Michael S. Millhollan in Nike track radar.

Maj. James M. MacDonnell presided at the ceremony in the Post Theater, assisted by Chaplain Richard G. Cook and the 55th U. S. Army Band.



**VIEW FIRE CONTROL EQUIPMENT**—Yong Yun Kim (left) and Col. Chang Lyon You, (second from left), Safety Officers for the Republic of South Korea Army, look over remote controlled fire fighting equipment at the Army Missile Command's dual position

test stand. Explaining the equipment is Sam Moore, Chief, Test Operations Branch, Test and Evaluation Laboratory, Directorate of Research and Development. With the Korean officers is Maj. Joline Choung, a student at OGMS.

## Nuclear Powermen Needed By Army

WASHINGTON (AFPS)—A need exists in the Army for qualified nuclear powermen and persons in all services may apply for training.

Additional nuclear powermen

will be required for the Army's floating MH-1A Nuclear Power Plant scheduled for completion in 1965.

In the next few months, a selection will be made of candidates to attend the March, 1964, class of the nuclear power plant operators course at Ft. Belvoir, Va.

Army personnel should apply for the training under provisions of AR 350-224. Navy and Air Force personnel should make applications through appropriate channels in compliance with individual service regulations.

Applications for the March class must reach the Office of the Chief of Engineers, Washington, D. C. (20315), before Jan. 1. Those received later will be considered for subsequent classes.

### WHEN JOBS MOVE

Civil Service Commission has made a penetrating review of its regulations which cover the rights of employees when their jobs are transferred. Recommendations for changes in the regulations have been submitted to the Commissioners for study.



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**291ST MPs MAKE CHANGES**—In recent ceremonies, Capt. Elvin J. Kidd, CO, 291st Military Police Company (Svc) presented forty-two Military policemen with NCO or Specialist's chevrons. One was converted from Sp5 to Sgt. E-5; twenty-two were converted from Sp4 to Cpl E4; four were promoted from Pfc E3 to Cpl E4, and fifteen were promoted from Pfc E3 to Sp4 E4. Kneeling in the front row left to right are: Cpl's Marvin L. Rounds, Richard L. Wehling, Al E. Glass, Jr., Danny W. Puckett, Sp4 Doug-

las R. Minton, Sgt. Allen R. Cochran, Cpl's Aubrey G. Lee, Donald R. Wade, and Jerry Menichelli. Standing left to right are: 1st Lt. Patrick L. Barney, XO, Capt. Elvin J. Kidd, CO, Sp4 Gordon E. Davis, Cpl. Charles R. Villarreal, Sp4 Jimmy C. Christello, Cpl. Robert F. Poff, Sp4 Milton E. Hicks, Cpl. Clifford D. Wright, Cpl. Jose D. Martinez, Sp4 William M. Hagerman, Cpl Norman T. Welch, Sp4 William S. Karback, Cpl Dickey Smith Jr., Cpl James J. Knox, Sp4 Thomas M. Gentry, Cpl. Murray R. Price,

Cpl Arthur A. Cadieux, Sp4 John D. Clifford, Cpl Luca Faffuri, Cpl Robert K. Houle, Sp4 Joseph G. Prinivalli, Sp4 John A. Bauer, Sp4 Arthur F. Pedreida, Sp4 John F. Streck, and Cpl. Samuel L. Price. Not shown in photograph are Cpls Buddy M. Holliday, Robert W. Lowery, William H. Brinkley, Jr., Charles W. Mitchell, Gary B. McMeen, Paul S. Puchovan, and Sp4's Charles Ptak and Lawrence J. Adams.

## Bears' Almost Bare Backs Forecast Bearable Winter

**NORTH WOODS (AFPS)** — Thousands of dollars are spent daily on forecasting weather. Balloons, missiles and planes soar into the stratosphere and bring back myriads of figures to tell you which way and when winds will blow.

Military men and women also dust off their parkas raincoats or "backdoor undies" to the tune of the weather-guesser.

All of the figure experts claim there is a cold cold winter ahead for America. However, one source contradicts the experts.

A survey — in depth — of polar bears for the autumnal activities of squirrels and the movements of hairy caterpillars point to a different prediction:

We Americans face a much milder winter than the one that nearly froze our narrow last time around.

The polar bear this year is almost extinct. A keeper of polar bears said, "If the cold weather sets in tomorrow he'd have to rent a wear-it-yourself coat."

In a park in the Washington area, another indication foretelling a mild winter was the total unconcern of the squirrel population to peanuts scattered about the park. In years when the winters were double-zero cold, these rodents carefully stored nuts in secret hideaways.

As for the hairy caterpillars, they have been strangely absent from the casualty lists on the local highways. In the years before bitter cold winters, these creatures committed mass suicide by crossing busy highways in direct opposition to all safety rules.

But the weather predictor, who watches the animals like all other weather men and all good military strategists, predicts his retreat. He says, "Reindeer have developed real plush heavy coats which will either make them the smartest animals in the woods or the most overdressed this winter."

We'll soon see.

### Welcome Mat

The ROCKET extends a hearty welcome to the following personnel who have recently been assigned to civilian positions with Army organizations.

**ARMY MISSILE COMMAND**  
**Comptroller & Director of Programs:** Donald D. Ackerman, Charlotte J. Ferrester, Betty S. Lowery, and Bobbie L. Smith.

**Management Science & Data Systems:** Jerry R. Brookshire.  
**Administrative Office:** Vera C. Freeman.

**Missile Intelligence:** Linda S. Hurst, Doris L. Laver, Bonnie A. Smith.

**Inspector General:** Shelby M. Reeves.

**Procurement & Production:** Mamie M. Adav, Lillie P. Barnes, Alfred C. Dille, Lee W. Holland, Jr., Betty B. Hugins, Howard D. Long, Joseph M. Plaxco, Linda L. Sanders, William P. Seigman, Lowell E. Smith, Linda G. Upton, Donald W. Van Brunt.

**Mauler Project Office:** James D. Brewer and Laura L. Steaklev.  
**Parshing Project Office:** Judy G. Grissom.

**MTE/Target Missile Comm. Office:** Mary N. Grimes.

**Hercules Project Office:** James W. Lamb, Jr., George G. MacCrone, Annie P. Sharman.

**Lance Project Office:** Robert L. Oliver.

**Research & Development:** Carolyn W. Edgemon, Warren R. Hall, Coy Jackson, Jr., Harold L. Pas-trick, Donald T. Rubolino.

**Supply & Maintenance:** Melvon L. Arrowood, William A. Crum, Jr., Harley E. Daniel, Lynda M. Davis, Harwood C. Hayes, William H. Jenkins, Ralph B. Lehman, Janie M. Levison, Orville K. Quillen, Jr., Patsy B. Robinett, Lorraine R. Rudder, Betty L. Shields

## Scoreboard

### SATURN BOOSTER LEAGUE "A" DIVISION

| Team                     | Won | Lost |
|--------------------------|-----|------|
| Black Forest Lounge      | 42  | 10   |
| Lockheed (RIFT)          | 30  | 22   |
| Spaco                    | 30  | 22   |
| Hayes Top Seven          | 28  | 24   |
| Hilding Holmberg         | 26  | 26   |
| Martin Co., Mfg Div.     | 26  | 26   |
| Bronson Instruments      | 25  | 27   |
| Hall's 66 Serv.          | 25  | 27   |
| Republic Aviation Corp.  | 23  | 29   |
| Garrett Airesearch Corp. | 23  | 29   |
| C. W. Stewart Machinery  | 18  | 34   |
| Hayes Ex Cons            | 16  | 36   |

290 GAMES: Matthews, 202; Drummond, 212

### "B" DIVISION

| Team                        | Won | Lost |
|-----------------------------|-----|------|
| Redstone Fed. Credit Union  | 33  | 14   |
| Pin Palace Lanes            | 35  | 17   |
| Arrowhead Products          | 32  | 20   |
| Norris-Riddle Furn. Mart.   | 28  | 24   |
| Redstone Mach. & Tool Corp. | 26  | 26   |
| All Sports Trophies         | 26  | 26   |
| Modern Machinery Associates | 25  | 27   |
| RCA                         | 25  | 27   |
| Terry Heights Cleaners      | 23  | 29   |
| Hayes Designers             | 20  | 32   |
| Progressive Welders         | 18  | 34   |
| Reba's Bowling Apparel      | 16  | 36   |

600 SERIES: Lindeman, 200, 170, 234—604

and Y. C. Whitlock, Jr.

### ZEUS PROJECT OFFICE

Georgia S. Coll

### ARMY MISSILE SUPPORT COMMAND

John F. Burford, Suzanne H. Cook, Billie R. Duke, Charlene E. Elkins, Barbara B. Elliott, Gerald F. Grice, James A. Lang, Betty L. Lashley, Harry S. Phillips, Gene W. Stewart, Ruthie W. Williams and John V. Yelverton.

### ORDNANCE GUIDED MISSILE SCHOOL

Ella H. Allen, Helen M. Cravens, Marguery A. Haynes, Lucy E. Hyatt, William E. Johnson, Billie D. Maze, Helen J. Padgett, Emily N. Pinkerton, and Roy M. Vest.

Meadows, 194, 226, 204—624  
 200 GAMES: Lindeman, 200, 234; Key, 202;

Cothren, 206; Lovell, 209; Major, 212; Vickers, 214; Meadows, 226, 204; Mallory, 233.



**THANKS TO ALL**—R. L. Haskins, Boy Scout director for the Tennessee Council in Huntsville, thanked everyone who participated in the Adventure Round Up at Redstone Arsenal Saturday. Haskins pointed out that at each of the six roundups participation and cooperation from the Army and Scoutmasters as well as from the boys themselves, the Reserves and the National Guard has helped give the boys a clear picture of the activities in the Armed Forces. Seated is Maj. A. McNeil, Missile Command Protocol Officer.

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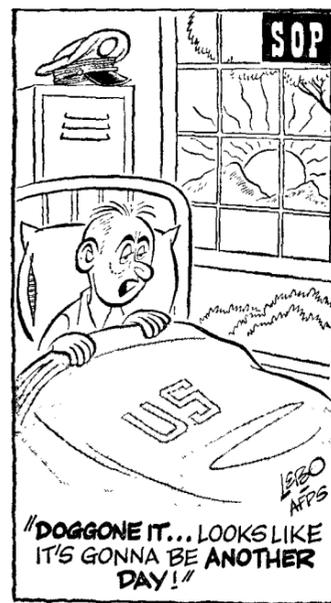
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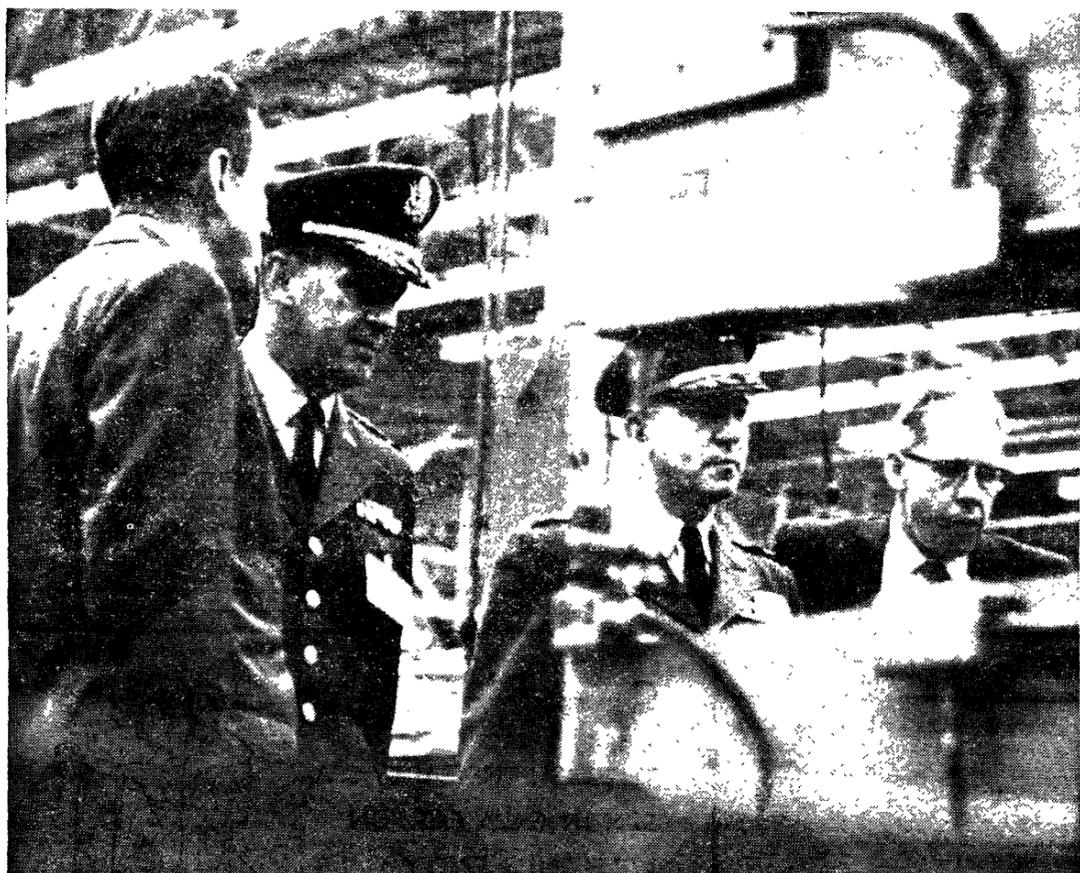


**SAFETY PINS**—Ninety-two safety pins were recently awarded in the Post Engineer for varying numbers of years on the job without a lost time accident. Twenty-one received 20 year pins; 20 received 15-year pins; 27 received 10-year pins; and 24 received five-year pins. Those receiving twenty year pins are (front row) left to right:

William M. Ricketts, Charles I. Smith, Roy E. Webster, Ernest C. Lamb, W. C. Lawhorn, Collier Lewter, Col. R. P. Davidson, Post Engineer; (back row): Rebon F. Smith, James T. Mullis, John W. Scarborough, Henry L. Fanning, Fred A. Swaim, Hugh Heatherington, and James C. Sanders.



Department of Defense civilian employees now make up a proportionately smaller part of the total Federal work force than they did eight years ago. In 1955 they numbered 47 percent of all Government workers; today, only 42 percent.



**IN THE HERC'S ROOST**—Brig. Gen. John G. Zierdt toured Hercules production areas of the Charlotte Army Missile Plant last week after presenting a Materiel Command Safety Award to Sheldon P. Smith (left), division manager for Douglas Aircraft who accepted on behalf of almost 2,000 Douglas personnel who operate the Missile Command government-owned, contract-operated facility. Accompanying the Missile Command CG and Smith were Col. B. R. Luczak, Hercules Project Manager, and W. B. Hoffman of Douglas.

**Lewis Tells Aerospace Leaders About Contracts**

Will A. Lewis, director of the Structures and Mechanics Laboratory in the Army Missile Command's Directorate of Research and Development, told Aerospace leaders how to make proposals on defense contracts at a meeting Thursday in Washington.

The speech was made to the Aerospace Industries Association of America, and included representatives from the Department of Defense, the Aerospace Research

and Testing Committee, and the National Aeronautics and Space Administration.

Lewis outlined several methods of submitting proposals for defense contracts, and told of the steps each proposal goes through in the process of being evaluated.

Lewis also discussed the behavior and applications of certain missile materials, and outlined some of the research needs in this area.

It takes six average taxpayers to provide funds to keep a secretary on the Government payroll.

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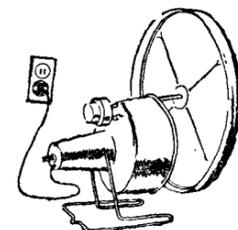
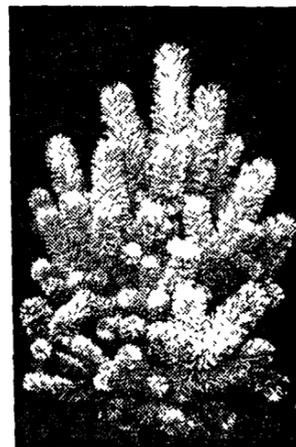


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**GATHERING OF FORMER REDSTONE OFFICERS** — together for a party. This year it was in early November of the officers who served at Redstone Arsenal at one Semi-annually Ordnance Officers serving in Europe get that they met. Lt. Col. W. F. Higgins gathered all fifty time or another together for a group picture.

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

### Electronics Engineers To Hear Dr. Buckley

Dr. Elery F. Buckley will discuss latest R. F. Shielding Techniques and Materials in an illustrated lecture on Radio Frequency Interference at the 8 p.m. tonight meeting of the Huntsville Section of the Institute of Electrical and Electronics Engineers.

Chairman Otto Hoberg announced that in keeping with the period of national mourning for President Kennedy this will not be a dinner meeting.

Dr. Buckley was born in Bright, Ontario, Canada and received the B. A. Sc. degree in electrical engineering at the University of Toronto in 1943. After graduation he

remained as an instructor on the teaching staff of the Electrical Engineering Department of the University in Toronto.

In 1946 he joined the Electrical Engineering Department of the Massachusetts Institute of Technology where he received M. S. Sc. degrees. While at M.I.T. he was active in the work of both the Research Laboratory of Electronics, and the High Voltage Research Laboratory. In 1957 Dr. Buckley joined Emerson & Cuming, Inc., of Canton, Mass. as chief electronic engineer. He is a senior member of the Institute of Electrical and Electronic Engineers and a member of the American Association for the advance of Science.

Dr. Buckley is scheduled to talk at a technical symposium tomorrow sponsored by the Professional Technical Group of IEEE, the University of Alabama Research Institute, The Army Missile Command and Marshall Space Flight Center. This is the first venture for the combined IEEE group on Microwave Theory and the group on Antenna and Propagation. The symposium, open to interested engineers, will be in Bldg. 5250, Conference Room B-200 from 1:30 to 3:30 p.m. Further information can

### Christmas Pageant To Be Presented At Service Club

The Christmas pageant will be presented at the Redstone Arsenal Service Club at 2 p.m. Dec. 15.

The pageant, directed and produced by Mrs. Carl W. Hartman assisted by the Chapel Sunday School Superintendent, SP4 David Barnes, represents the Sunday School membership from toddler to senior high students.

Mrs. T. W. Holland will be at the piano. Four will read from the scriptures: Steve Miller, K. C. Woodward, Ginger Stensby and Carl Franquet. The readers will recite between songs. Singing as angels are: Barbara Miller, Donna Robertson, Kathy Kimball, Laurie Gay, Debby Kelly, Barbara Mandille, Jane Swatzell, Gina Tinney, Marcy Tarwater and Susan Holston.

The second group of singers will be the shepherds: John Fishback, John Baker and Carl Reiner.

The wise men follow them: Richard Luczak, Ray Gradecak and Sid Bottoms. Harvey LaReau will take the part of Joseph.

Louise Hartman will play Mary. Mrs. Hartman will sing "Oh Holy Night" and the pageant will end with audience participation in "Silent Night, Holy Night."

#### DAY OF RECOLLECTION

The Catholic Women's Sodality will hold a "Day of Recollection" from 9 a.m. until noon at the Redstone Arsenal Chapel Dec. 17.

Brunch will be served after the service. Open to all Catholic women in the area, the Sodality uses the Rocket Nursery during services. Individuals make their nursery reservations a day in advance.

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#### Births At Post Hospital

Alicia Denise Pierce, 8 lbs., 15<sup>3</sup>/<sub>4</sub> ozs., Nov. 27, daughter of Sp5 and Mrs. William K. Pierce.

Joseph Michael Cacace, 6 lbs., 9<sup>3</sup>/<sub>4</sub> ozs., Nov. 27, son of Sp5 and Mrs. Joseph W. Cacace.

Scott Ford Gedling, 7 lbs., 12<sup>1</sup>/<sub>4</sub> ozs., Nov. 27, son of Sfc and Mrs. Edwin L. Gedling.

Teresa Nell Salkil, 5 lbs., 9<sup>3</sup>/<sub>4</sub> ozs., Nov. 28, daughter of Sfc and Mrs. Joseph H. Salkil.

Tina Louise Thomas, 6 lbs., 4<sup>1</sup>/<sub>2</sub> ozs., Nov. 28, daughter of Sp4 and Mrs. Homer A. Thomas.

David Briant Stowe, 7 lbs., 12<sup>1</sup>/<sub>2</sub> ozs., Nov. 28, son of 1/Lt. and Mrs. Robert R. Stowe.

Curtis Lee Cantrell, 8 lbs., 7<sup>3</sup>/<sub>4</sub> ozs., Nov. 29, son of Sp5 and Mrs. Charles L. Cantrell.

Georgia Kirkpatrick, 8 lbs., 9 ozs., Nov. 30, daughter of Sfc and Mrs. James R. Kirkpatrick.

be obtained from Lloyd W. Root, 877-2535.

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Fantasy Playhouse will present *Beauty and The Beast* Dec. 14 and 15 at Lee high school auditorium. Curtain time is 2:30 p.m. both days and 7:30 p.m. on Saturday.

With a few exceptions the cast are teen-agers.

*Beauty* is played by Diane DeLoinback a newcomer to Fantasy's stage. She is a junior at Butler High School where she is a majorette. She was born in Durham, N. C. but has lived in many states all over the eastern U. S. Her father is employed by NASA. She has aspirations to become an actress and hopes to study dramatics after high school. In her spare time, she is learning to play the accordion.

The dual role of the *Beast* and the *Prince* is played by Wayne

Suns, a native Huntsvillian who graduated from Butler School. While at the Army Language School in Monterey, Calif., he studied Russian and later did Security and Intelligence work for the Army while stationed in Germany for two years. Currently he is employed by the First National Bank.

Polly Gurley is Amos, *Beauty's* life long friend.

Don Pentz, who was recently seen as the prince in *Snow White* and *The Seven Dwarfs* is *Beauty's* father.

Also in the cast are: Pat Loughhead as Sybil, the sister of the witch who put the spell on the *Prince* 300 years before; Rick Hutson, Patrick Gannon, Rosemary Wilson and Emily Joffrion as the two teen-age couples who are friends of Amos and *Beauty*; and Wilda Linger as the *Dwarf* who is a constant companion to the *Beast*.

Bob Ware is the director. He is no stranger to Huntsville stages for he has been in several productions of both Huntsville Little Theater and Fantasy but this is his first attempt at directing a full length children's play. His experience was gained in theatre groups in Washington, D.C.; Detroit, Mich.; and Los Angeles, Calif. He currently is employed as a technical reports writer for Thiokol Chemical Corp.

**TO MEET DEC. 13**

The North Alabama Chapter of the American Meteorological Society will meet Dec. 13, at 8:30 p.m., in Room 218 of the University of Alabama, Huntsville Center. J. W. Smith of the Aero-Astrophysics Office, Marshall Space Flight Center will speak on the "Density Variation and Isopycnic Layers."

A pole-to-pole study of density deviations near the 80th meridian west is presented from the surface to 31 km altitude. Air density has always been of somewhat secondary interest to meteorologists. But in recent years aviation and missile designers have become aware of its critical importance, for air density is one of the most important factors governing the passage of high velocity bodies through atmosphere.

Thrust, dynamic pressure, aerodynamic drag, vibration, structural and guidance limitations, and heating during the re-entry phase are factors limiting vehicle performance which are directly related to air density.

Because of large seasonal and latitudinal variations in atmospheric density, no single standard atmosphere can present density data adequate for high speed vehicle operations on a global basis.



CITED BY BRITISH ARMY STAFF—Mrs. Harry L. Brandon receives congratulations and a certificate of appreciation from Maj. Gen. Roger E. T. St. John, Commander of the British Army Staff in Washington, D.C. Gen. St. John, in presenting the certificate, commended Mrs. Brandon for faithful and exemplary service to the British Liaison Officers at the U. S. Army Missile Command for the past seven years. The citation reads: "For exemplary civilian service to the British Army Staff, Mrs. Dorothy Brandon is hereby awarded this certificate of appreciation." The present British liaison officer at the Missile Command is Lt. Col. William Graham.



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HOUSTON — Oil drilling rigs, often as high as a 15-story building, are so skillfully engineered that they can lift and lower equipment which weighs as much as five railway locomotives.



**TOP RECRUITER**—Richard Scarce accepts a camping pack from Col. Thomas W. Cooke, Commander of the Missile Support Command, Redstone Arsenal, in recognition of his having been the leading recruiter in the recent Tennessee Valley Council recruitment campaign. A member of Troop 306, Madison, he attended the Sixth Annual Adventure Round Up at Redstone Arsenal on Saturday. Over 2,000 Scouts were on hand for the Round Up and awards ceremony.



**CUB RECRUITER**—Mike Flanagan leaves the stage with his award for having been the top recruiter in the Limestone District. Mike, a member of Cub Pack 237, attended the 6th Annual Adventure Round Up hosted by Redstone Arsenal last Saturday.

A House Armed Forces subcommittee was expected to give the Civil Defense fallout shelter program its first key Congressional indorsement. The committee, headed by Rep. F. Edward Her-

bert (D., La.), was reported ready to approve the administration's request for authority to give communities millions of dollars in federal aid to help build shelters. AFPS.

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No. 825. Impala convertible, V-8, automatic shift, air conditioned, power brakes, power steering. Super Sport equipment, extra nice. WAS \$2695. SALE PRICE \$2375.

**1959 CHEVROLET**

No. 861. Four door Parkwood station wagon, V-8, automatic shift, radio, heater. WAS \$1295. SALE PRICE \$1175.

**1959 CADILLAC**

No. 864. Four door, full power, air conditioned. WAS \$2195. SALE PRICE \$1950.

**1963 CHEVROLET**

No. 877. Four door Bel Air station wagon, air conditioned, V-8, automatic shift, radio, heater, power steering, white wall tires. WAS \$3195. SALE PRICE \$2875.

**1960 CORVAIR**

No. 890. Four door, automatic shift, radio, heater. WAS \$1095. SALE PRICE \$925.

**1962 CHEVROLET**

No. 905. Impala four door, radio, heater, white wall tires, straight shift, clean. WAS \$2195. SALE PRICE \$1995.

**1959 CHEVROLET**

No. 938. Four door, heater, straight shift, 6 cylinder, good economy car. WAS \$1095. SALE PRICE \$975.

**1962 FORD**

No. 945. Four door Fairlane, radio, heater, straight shift, 6 cylinder, nice. WAS \$1695. SALE PRICE \$1550.

**1961 COMET**

No. 959. Four door, straight shift, radio, heater, good transportation. WAS \$1295. SALE PRICE \$1175.

**1963 STUDEBAKER**

No. 961. Four door Lark, V-8, overdrive, radio, heater, like new. WAS \$1995. SALE PRICE \$1850.

**1962 CHEVY II**

No. 817. Nova station wagon, 6 cylinder, straight shift, heater, one owner. WAS \$1795. SALE PRICE \$1650.

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**1961 CHEVROLET**

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**1962 VOLKSWAGEN**

No. 971. ½ ton pickup, 4-speed transmission, heater, clean. WAS \$1395. SALE PRICE \$1250.

**1962 FORD**

No. 954. F-700, heavy duty with dump body, 2-speed rear axle, 5-speed transmission, radio, heater, V-8, West Coast mirrors, 900x20-10-Ply tires. WAS \$3995, SALE PRICE \$3875.

**1957 DODGE**

No. 1029. Two ton with platform body, new tires, 2-speed rear axle. WAS \$995. SALE PRICE \$875.

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**IMPROVES READING SPEED**—Benjamin H. Adams (left) of the Sergeant Project Office, receives congratulations and a certificate from Lt. Col. John R. F. Bond after completing a six-week reading improvement course under Lawrence Williams (center), an instructor from the Civilian Personnel Training and Development Division. Williams' average speed at the beginning of the course was 442 words per minute. Now he can comprehend 958 words per minute, an increase of 118 per cent.



**AIR MOBILITY**—A group of Boy Scouts get a glimpse of Army helicopters in a practice maneuver during the Adventure Round Up at the Arsenal last Saturday. The helicopter has a very important mission in the modern Army in providing mobility for combat units in areas where other types of transportation are not practical. These copters came to Redstone from Ft. Rucker for the Round Up.

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# Army's Latest Torture Test Is Rough Ride

The Army's Pershing ballistic missile system is winding up the most gruelling series of environmental torture tests ever devised to prove out an Army missile system.

It has been bounced, joggled, frozen, broiled, s a n d b l a s t e d, drenched, sprayed with salt water and harshly abused in just about every way Army scientists and engineers can dream up.

Last week at Redstone Arsenal, the birthplace of the Pershing as well as other Army missile systems, the highly reliable two-stage weapon passed a significant milestone.

Environmental tests drew to a close with what is known to engineers as a "tactical transportation test." In it, experts at missile system destruction did their best to jolt the Pershing into a heap of scrap iron.

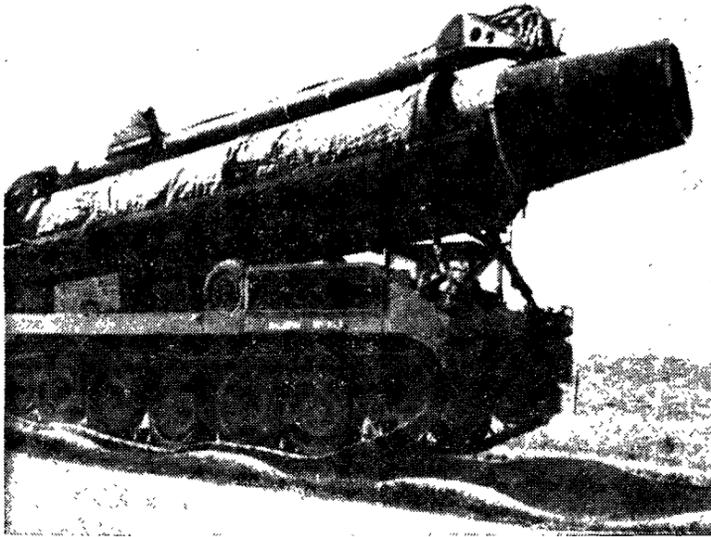
For the missile's two solid-propellant motors, it was the last out-and-out torture session at the hands of the developing agency.

The missile, mounted on its swift-moving transporter-erector-launcher tracked vehicle, was bounced over terrain that would jar an automobile to pieces in a matter of minutes.

These rugged tests are all aimed at a specific purpose, says George Harsh and Clyde McElroy, who are in charge of the endurance test.

"Pershing is designed to go anywhere the Army combat soldier can," the engineers say. "Our job in the Test and Evaluation Laboratory is to prove that it will—and that it will work when it gets there."

The Research and Development Directorate's T&E Laboratory has conducted the entire series of en-



**PERSHING JOLTED IN TEST**—The Army's Pershing ballistic missile churns through the last phase of its environmental tests at the Army Missile Command. In this endurance test, the Pershing's two solid-propellant motors proved they would withstand vicious jolting as the missile's transporter-erector-launcher tracked vehicle bounced over waded concrete obstacles. So rugged were the tests, drivers of the tracked vehicle traded off every 45 minutes. The missile system, developed by the Army Missile Command, is scheduled for deployment in Europe early next year.

vironmental tests for Pershing—as well as similar ones on other Army missile systems.

In the most recent torture session, the tactical transportation test, engineers designed the roughest road possible. Included were some 5,400 bumps especially arranged to rack the missile, and a stretch of furrowed concrete that gave the system a furious shaking.

In a related 150-mile cross-country jaunt, the Pershing challenged gullies, sharp corners and terraced, ravine-carved fields.

So rugged was the 300-mile endurance test, three drivers of the tracked vehicle could withstand the jolting for less than an hour at a time.

The object of the entire test was to confirm that the Pershing will stand up to the most rugged terrain imaginable—and work at any temperature or weather extreme once it reaches the field.

Tests completed last week tor-

ured the final missile in a series of 18. As a cap-off to the whole program, the missile's motors later will be installed in a captive test stand and fired.

The development of the Pershing is under the direction of the Pershing Project Office at the Ar-

my Missile Command. Col. Edwin I. Donley is Pershing Project Manager.

The Pershing missile system will be deployed to Europe beginning early in 1964. It is the newest of the Army's operational ballistic missile systems.

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| <b>'62 RAMBLER</b><br>CLASSIC Four-Door with radio, heater, and overdrive.<br><b>\$1475</b>  | <b>1957 DODGE</b><br>Four-Door with radio, heater and automatic shift.<br><b>\$575</b>                                       | <b>1961 CORVAIR</b><br>MONZA Coupe with radio, heater, auto shift and air conditioning.<br><b>\$1475.</b>        |
| <b>'62 RAMBLER</b><br>CLASSIC Four-Door sedan with radio, heater and automatic shift.<br><b>\$1475</b>   | <b>1962 PONTIAC</b><br>LeMann with radio, heater and automatic shift.<br><b>\$1675</b>                                       | <b>1957 FORD</b><br>STATION WAGON with radio, heater, and automatic shift.<br><b>\$675.</b>                      |
| <b>'60 RAMBLER</b><br>CLASSIC 4-Dr. Radio, heater, factory air cond.<br><b>\$1275.</b>   | <b>1963 FALCON</b><br>FORDOR . . . local one-owner car with radio, heater, automatic shift and factory air.<br><b>\$1975</b> | <b>1955 CADILLAC</b><br>HARDTOP 2-Door with radio, heater and automatic.<br><b>\$675.</b>                        |
| <b>1959 RAMBLER</b><br>CLASSIC Four-Door with radio, heater.<br><b>\$875.</b>  | <b>1957 MERCURY</b><br>HARDTOP Two-Door with radio, heater and standard shift.<br><b>\$475.</b>                              | <b>1958 OLDS</b><br>Four-Door sedan with radio, heater, and automatic shift.<br><b>\$675.</b>                    |
| <b>1959 RAMBLER</b><br>AMERICAN STATION WAGON with radio, heater, and automatic shift.<br><b>\$675</b>   | <b>1957 CHEVROLET</b><br>Four-Door Station Wagon. One you'll like.<br><b>\$675.</b>  | <b>1959 FORD</b><br>CONVERTIBLE with radio, heater and automatic shift.<br><b>\$875.</b>                         |
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Page 14 The Redstone Rocket — Dec. 11, 1963

## 1. For Rent

**ROOM FOR RENT**—1 gentleman to share house with 3 others, cooking and home privileges, convenient to arsenal, available December 15. Jimmie Traywick, 603 9th St., N.W., Call 536-0912. 1tc

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**FOR RENT**—TV's, portables, UHF-VHF, by day, week or month. Phone 536-9761. Central TV and Stereo Co., Inc., Corner Governors Drive and Parkway. Open 8 a.m. to 7 p.m. daily. 1tc

## 2. Cars For Sale

**WE DARE COMPARE** this 1962 Fairlane '500' Ford to any other car in town for being the sharpest. 28,000 actual miles. Perfect maroon exterior, matching leatherette interior, power steering, radio, heater, general whitewall tires. Phone Louie Robinson at 539-7456. 1tc

**1961 FALCON**—4 door, blue with white top, has new tires, ready to go. \$995.00. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456 1tc

**1958 DODGE**—4 door, hardtop, Coronet Power steering and brakes. The kind you would really like to have. Midnight blue with steel gray top. Financing to suit you. Phone Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. 1tc

**V. W. PANEL TRUCK**—New tires. Good mechanically, ideal for business or camper. Call Mel Elkins or Louie Robinson at Universal Motors, Inc., 539-7456. 1tc

**1963 FORD FAIRLANE "500"**—4 door wine color, smells new, has all accessories. Sold new in Huntsville. Save hundreds of \$\$\$ off new car price. Call Mel Elkins or John Payne at Universal Motors, Inc., 539-7456. 1tc

**1960 FORD FAIRLANE 500**—2 door, white, O'Drive, 6 cyl. Original blue interior, seat belts. Radio, heater, new white side wall tires. \$895.00. Call Mel Elkins or Louie Robinson at Universal Motors, Inc., 539-7456. 1tc

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**FOR SALE**—1961 Pontiac Bonneville 4-dr. HT, full power, air cond, new tires. Call Bill Broglin. Phone 539-0382 or 534-1223. 1tc

**FOR SALE**—'55 OLDS—Holiday, Super 88, hardtop, automatic shift, gray-white, radio, & heater, excellent condition. \$400.00. Call A. Elekes, Day 532-1566; After 5—536-4297. 1tpd

**1959 V. W. Convertible**, \$995.00. Phone Louie Robinson or H. B. Flowers at Universal Motors, Inc., 539-7456. 1tc

**WE DARE COMPARE** this 1962 Fairlane '500' Ford to any other car in town for being the sharpest. 28,000 actual miles. Perfect maroon exterior, matching leatherette interior, power steering, radio, heater, general whitewall tires. Phone Charles Lurie at 539-7456. 1tc

**OFF SEASON PRICE** on air conditioned 1958 Chevrolet, Bel-Air, 4 door. Has power steering, good tires, new paint, original interior. Call Charles Lurie or H. B. Flowers at Universal Motors, Inc., 539-7456. 1tc

**FOR SALE**—Volkswagen CAMPER like new. Make offer. Call 539-0382 or 534-1223. 1tc

## 3. Miscellaneous

**LET'S PLAY BRIDGE!** Join a learner's private club and enjoy learning. Sessions supervised by an experienced and qualified instructor. Register NOW for DAY and NIGHT classes. Registration limited. Phone 881-3615. 12-24

**FOR SALE**—One row tractor with 2 disc plow, planter, cultivator, stalk chopper. HJ's hydraulic lift and power take-off. Call 539-0382 or 534-1223. 1tc

**ATTENTION MOTHERS**—If you work, enroll your children in the Sunnysdale Private School—Kindergarten through grade 6. Supervision will be provided for play and home work after school until 6 p.m. Accredited teachers, reasonable tuition, special emphasis on phonics, music and speech. For more information, Call 536-8444 evenings, 5 to 10 p.m. 1tc

**WANTED TO BUY** an electric range—Free standing or classic. Must be in excellent condition. Call Mr. Ross, 876-6595 before 3:30 p.m. 1tc

**AB'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). 1tc

**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. 1tc

**FOR SALE**—Newly reupholstered couch and chair, like new condition. Phone 539-0382. 1tc

**FOR SALE**—Practically new portable Underwood Champion typewriter. Zenith console TV and about 1500 old Lincolns. Phone 773-6032 Hartselle. 1tc

**WANTED**—Nice, respectable working girl to share furnished apartment, consisting of 5 rooms in nice neighborhood. Convenient location, reasonable rates. Call 536-7319. 1tc

**ALL KINDS OF USED FURNITURE** Trade-in on mobile homes. All kinds of appliances. See at Texas Auto & Mobile Home Sales, 1003 Meridian. No phone calls please! 1tc

**FOR SALE**—CORNET: Good student horn. Telephone after 5 p.m. 536-8868. 1tp

## NEW UHF CONVERTERS \$11.97

North Alabama's largest sales and service dealer for Zenith, RCA and Motorola TV and Stereos. 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. 1tc

**CENTRAL TV & STEREO CO.**  
Cor. Governors Drive & Parkway  
Phone 536-9761

## 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. 1tc

## 5. Houses, Lots - Sale

**FARM FOR SALE**—160 acres with old house more than 1/2 mile overlooking beautiful mirror lake will sell for small down payment, balance at \$50.00 per month plus interest only \$50.00 per acre. Cornelius Real Estate Co., Gunterville, Alabama. Phone 582-3027 or 582-5313. 1tc

**HAZARDOUS PAY.** House bill authorizes the Civil Service Commission to establish a schedule of pay differentials for employees under the Classification Act who perform irregular or intermittent duties involving unusual physical hardship or hazard not involved in the usual duties or classification of their positions.

Passed House; pending before Senate Post Office and Civil Service Committee.

**FOR SALE**—6 room Brick Veneer House 3 bedrooms, with garage, 1109 Dale Dr. S.E. \$15,400. FHA loan plus \$600 down Hauessermann, 536-5616 after 5 p.m. 1tc

**GI EQUITY**—IMMEDIATE POSSESSION—3 BR, 1 bath home (4 yrs. old), with GE range and built-in oven. Air conditioning. Payments only \$86.00 per mo. Total equity \$900. Phone 852-2014. Bob Beasley. 1tc

**FOR SALE**—3 bedroom house on 1 acre lot. Priced to sell at \$3,500. Also 1 acre lot for sale at \$500. 1 mile from school. 2 miles west of Morgan City. See Billy Jones at Union Hill, Ala. 1tc

**FARM FOR SALE** in E. Morgan Co. 65 acres just off H'way 67 between Hulaco and Ryan, behind Pleasant Grove Church. Two old houses, plenty of water. W. A. Crawford, Rt. 1, Baileyton, Ala., phone 586-3343 after 4 p.m. 12-12p

**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., Gunterville, Ala. 1tc

## 6. Pets

**FOR SALE**—Long haired Dachshund puppies, just right age for Christmas. Paper trained. Price \$40.00 females, \$50.00 males, includes all shots. Phone 877-5730 or come see at 21 Ripley Drive, RSA. 1tc

### FOR SALE!

19 ACRES located 12 miles northeast of Cullman, 38 miles of Huntsville — COUNTRY ESTATES, all city conveniences. Large 3 bedroom brick home, 2 good wells, 1700 sq. ft. of living space, large oak shade tree, 2 full baths, gas heat, large patio and barbecue pit, large barn, two 10,000 capacity chicken houses, good fish pond, fallout shelter, fenced and cross fenced. All this for only \$27,500.00. 1tc

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, Real Estate Broker, phone 734-6294, Cullman, Alabama. 1tc

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POST LIABILITY INSURANCE  
\$5/10 Bodily Injury  
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All Work Fully Guaranteed  
**U. S. TIRE SERVICE**  
Across From Butler High  
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Open 7 a.m. to 6 p.m.

**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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**5/10/5 Post Liability \$10.00 a Year**  
Service men, all ranks and ages, also Civilians  
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Between Butler High and Parkway  
**REG. HAIRCUTS — \$1.25**  
Flat Top Specialists  
**OPEN 8 TO 8 . . . 6 DAYS A WEEK**

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Have that old top replaced before the cold, wet weather starts. Also, rear windows and zippers replaced. One day service in most cases. No down payment with easy financing available.  
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**Meadow Gold Dairies**  
CLINTON STREET — HUNTSVILLE, ALA.

# Cadets Taste Realism



**ALWAYS TIME TO LEARN**—Georgetown University ROTC cadets receive instruction in guerrilla warfare techniques from Sergeant Peter McDermott, a member of Company B, 2d Special Forces Group. The ROTC cadets played the part of guerrillas in an airborne-guerrilla warfare exercise at Camp A. P. Hill, Va. From left are Cadets David Magness, Arlington, Va., Robert McCaw, Arlington, Va., and Edward Bednarz, Clifton, N. J. Sergeant McDermott is from Arlington, Va.

cated at 314 Bob Wallace Avenue, SW.

Reform Jewish Services are held at Temple B'Nai Shalom, 2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE, Huntsville. Sunday School at 0930 Avenue, Huntsville. For further information or transportation, call Christian Science Armed Services Minister, Collect 776-2791.

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

**CHRISTIAN SCIENCE SERVICES**  
— SUNDAY — 1100 HRS.

Wednesday services are held at 2000 hrs. at S. White and Wells

December 3, 1948—First woman Army Officer (other than those in the Medical Department), Colonel Mary A. Hallaren, sworn into the regular United States Army.

## INCENTIVE AWARDS

### SUGGESTIONS

Wallace K. Thomas, Army Missile Command, \$300 award—this suggestion resulted in the development and use of Penetrators applicable to the radiographic inspection of solid rocket propellants.

James R. Harbin, Army Missile Command, \$75 award—this suggestion resulted in the Computation Center purchasing reels of magnetic tape of approximately one half, or less, of the present length tapes. The estimated first year savings is \$1500.

Georgios K. Jacovides, Army

Missile Command, \$625 award—this suggestion resulted in the development of a special type illuminated shade to be used on missiles which employ a Porro Prism on the Inertial Platform. The estimated first year savings is \$15,000.

SFC Warren E. Hamer, Army Ordnance Guided Missile School, \$25 prize—this suggestion resulted in efforts being renewed to obtain maps for issue to newly assigned military personnel.

Say "Merry Christmas" with U. S. Savings Bonds this year, and you'll be giving the gift that gets better as it grows older.

# CLOSING OUT!

## ALL MOBILE HOMES

### End Of Year Sale . . .

WE CLOSE OUR BOOKS DECEMBER 30TH

## Prices Have Been Cut Deep!

WE'LL TAKE ANY REASONABLE OFFER

### NATIONALS

- 57'x10' — 2 Bedrooms
- 55'x10' — 3 Bedrooms
- 50'x10' — Front Kitchen
- 50'x10' — Private Kitchen
- 55'x10' — Front Kitchen

And Others!

### ELCONA

- 51'x10' — 2 Bedrooms, Tipout Living Room
- 51'x10' — Front Kitchen, Tipout Room
- 35'x 8' — 1 Bedroom

### NASHUA

- 55'x10' — 3 Bedrooms
- 50'x10' — 2 Bedrooms

### RITZ CRAFT

- 57'x10' — Front Dining Room, Early American
- 57'x10' — Front and Rear Bedroom, 1 1/2 Bath
- 50'x10' — Front Kitchen

1 — Repossessed 55'x10' National Like new!

MANY OTHERS TO SEE

Come Make An Offer — Bank Rates of Course

# TEXAS Auto and Mobile Home Sales

1003 MERIDIAN STREET

PHONE 536-6121

## Local VW Service Manager Wins Volkswagen Commendation Award

Mr. J. W. Robison, Service Manager, Universal Motors, Inc., Huntsville, Alabama, for his outstanding accomplishments in the servicing of Volkswagen owners at Universal Motors. Mr. Robison has been recognized by Volkswagenwerk, Wolfsburg, Germany for his efforts in the field of VW Service and will be presented the Golden VW Honor Badge during the Commendation Day ceremonies to be held in Wolfsburg, December 10, 1963.

Mr. Robison has been selected among the three delegates for the service award to participate in the ceremonies and to receive his Honor Badge. Mr. Robison is scheduled to depart from Huntsville, December 7, Flight 7, for his trip to Germany.

For the finest service for Your Volkswagen bring it to Universal Motors, Inc., 2305 No. Memorial Parkway, Pho. 539-7456 for your appointment.

## Religious Services

RELIGIOUS SERVICES—POST CHAPEL—BLDG. 3714

### PROTESTANT

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 will be held weekly each Friday at 2000 hrs. and each Saturday at 1000 hrs. at 2333 Poincianna Street, SW, Huntsville, behind the Scottish Rite Temple which is lo-

# LOANS

\$325 to \$1500

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# Europeans Show Sorrow, Re-name Square Honoring President John Kennedy

A local man who was in Europe at the time of the assassination of President John F. Kennedy describes the reaction of people there as "one of the most moving and reassuring experiences of my life."

Col. George H. McBride, assistant commandant of the Army Ordnance Guided Missile School, was in the midst of a three-weeks inspection tour of missile bases in Europe when word was flashed of the President's death on Nov. 22. He returned to Huntsville Dec. 3.

McBride said he watched more than 10,000 people march in a memorial torchlight procession through the main square of Weis-Laden, Germany. At Berlin, he said, the estimates of 250,000 people who crowded the square near the Brandenburg Gate and the "Wall" were probably low. The square has been re-named in honor of the late President.

Unnumbered thousands of Italians lined up before the U. S. Embassy in Rome to sign their names in a book of condolences, and a main plaza in the city has also

been redesignated. American embassies throughout Europe were banked with floral offerings sent by private citizens as expressions of sympathy, and Americans in and out of uniform were approached on the streets and in public places by Europeans expressing their sorrow.

"It made us feel that our friends were gathering around us," Col. McBride declared.

### EYE MILEAGE

NEW YORK — If an average reader took one step for each movement of the eyes, in eight hours of reading he would walk about 33 miles, according to estimates of the Better Vision Institute.

## Military Supply Inventory Shows \$260 Million Drop

WASHINGTON (AFPS)—The Military supply inventory was reduced by \$260 million during FY '63, some \$31 million more than anticipated a year ago.

The Defense Supply Agency (DSA), which manages the inventory, also disclosed that 37,159 items were eliminated as duplicate, obsolete or unnecessary.

It costs \$100 annually to manage each item of supply, according to the Department.

Another savings was the reduction of \$900,000 in overhead costs realized by consolidating two military clothing factories into a single and more efficient operation.

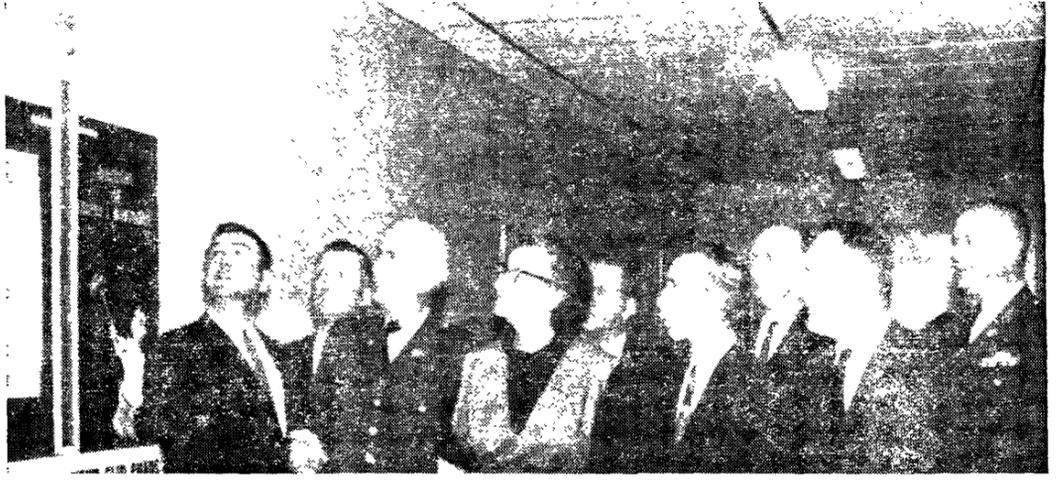
DSA was established in 1961 by Secretary of Defense Robert S. McNamara. It supplies all the services with food, clothing and textiles, medical, petroleum, chemical, industrial, electronics, construction and general supply items.

### LEGISLATIVE WRAP-UP

Under discussion are several bills which would permit Federal workers to retire after completing 20 years of service.

The House has passed a bill which would restore salaries, leave rights, and other benefits to employees improperly separated.

Hearings are being held on Civil Service Commission's request that Congress overhaul the rules covering employment of retired military personnel. At present, 40 old laws exist on the subject of dual compensation.



**FAIR SHARE GIVERS**—Col. R. W. Van Wert congratulates J. W. Linton, Directorate Campaign chairman for the Drive, as members of the Directorate staff and R. B. Rounsaville, Directorate Finance and Reports Chairman, view with pride the progress chart indicating that the largest Directorate of the Missile Command has again gone over the top in support of the United Givers Fund. The Supply and Maintenance Directorate achieved 100% participation by both military and civilian personnel, exceeding its fair share dollar goal and collected 100% of its pledges. Pictures left to right are: (front row) J. W. Linton, Directorate Campaign Chairman; Col. Van Wert, Director, Supply & Maintenance; Edith Gibbs, Chief, Data Processing Office; W. E. Fordham, Chief, Administrative Services Office; H. W. Crumrine, Chief, Management Planning and Control Office; (back row): Joe Cleere, Deputy Assistant Director, Supply Operations; R. B. Rounsaville, Directorate Finance & Reports Chairman; A. A. Stewart, Deputy Director, Supply & Maintenance; Lt. Col. Paul A. Simpson, Assistant Director, Maintenance Operations.

TOP QUALITY

# CHRISTMAS GIFTS

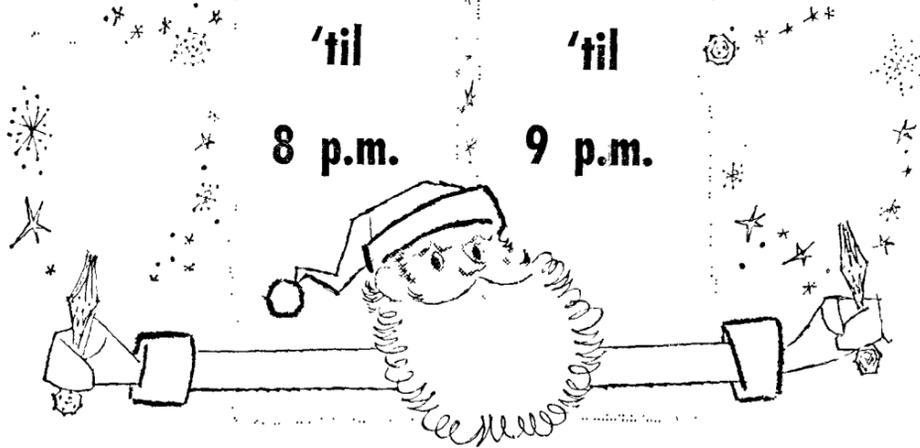
FOR EVERYONE ON YOUR LIST!

OPEN EVENINGS 'TIL CHRISTMAS



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| DOWNTOWN | MALL STORE |
|----------|------------|
| 9 a.m.   | 10 a.m.    |
| 'til     | 'til       |
| 8 p.m.   | 9 p.m.     |



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