

# The Redstone Rocket

VOL. VI; NO. 25

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

OCTOBER 16, 1957

## GUARD TO MAN NIKE POSITIONS, ARMY REVEALS

Washington (AFPS)— National Guard anti-aircraft gun battalions protecting cities across the nation will be trained to fire Nike missiles, Secretary of the Army Wilson M. Brucker has announced.

Equipment for these units is at Nike sites now manned by active Army crews, Mr. Brucker said, and the switch of personnel will be made as conversion training of Guardsmen is completed.

During the past three and one half years while Regular Army organizations converted to Nike, the National Guard took over conventional gun sites, operating 101 batteries of WWII anti-aircraft-type weapons defending areas in 10 states.

In announcing the conversion Mr. Brucker said "Army National Guard units will become the first . . . United States Reserve Forces to be equipped with modern surface to air guided missiles."

Army Guardsmen, by their success in manning air defense gun positions, have demonstrated their capability to take over a portion of home defenses, he added.

Although most Guard members will be trained at Nike sites, about 140 officers and enlisted men from each battalion will be given additional missile instruction ranging from 12 to 57 weeks at the Army Air Defense Center, Ft. Bliss, Texas.

## COL. EWBANK WILL ADDRESS RESERVE OFFICERS

Lt. Col. Ernest W. Ewbank, assistant commandant of the U. S. Army Ordnance Guided School, will be the guest speaker at Friday night's meeting of the Reserve Officers Association at the Russell Erskine Hotel.

Col. Ewbank will present a talk on the Ordnance Guided Missile School, with special emphasis on courses available to Reserve Officers who wish to come on active duty for training.

## LUSSER GRANTED PATENT FOR NEW LAUNCHING IDEA

Robert Lusser, guided missiles reliability coordinator at Redstone Arsenal, has received a patent for his invention of a new launching stabilizer for missiles.

The device can be used for the launching of missiles from ships or from the ground. It increases the safety and stability of the launching operation by applying a calibrated retarding force to the rear of the missile fuselage during launching. This counteracts undesired deviations of the missile in very early flight. The stabilizing force is applied by means of a thin cable which is payed out from the launcher.

Lusser, the man who headed the project that developed the German V-1 "Buzz Bomb", has been a member of the Redstone Arsenal research and development team since July, 1954.

He came to this country under a Navy contract in April, 1948, after distinguishing himself in such diverse endeavors as piloting racing planes and designing piloted aircraft.

He later transferred to Army Ordnance where he became reliability coordinator for Army guided missiles.

"Making complex military equipment reasonably reliable is of top importance," Lusser says of his work. "New concepts and methods must be created and their application must be coordinated with scores of government agencies, industrial contractors, subcontractors, and vendors."

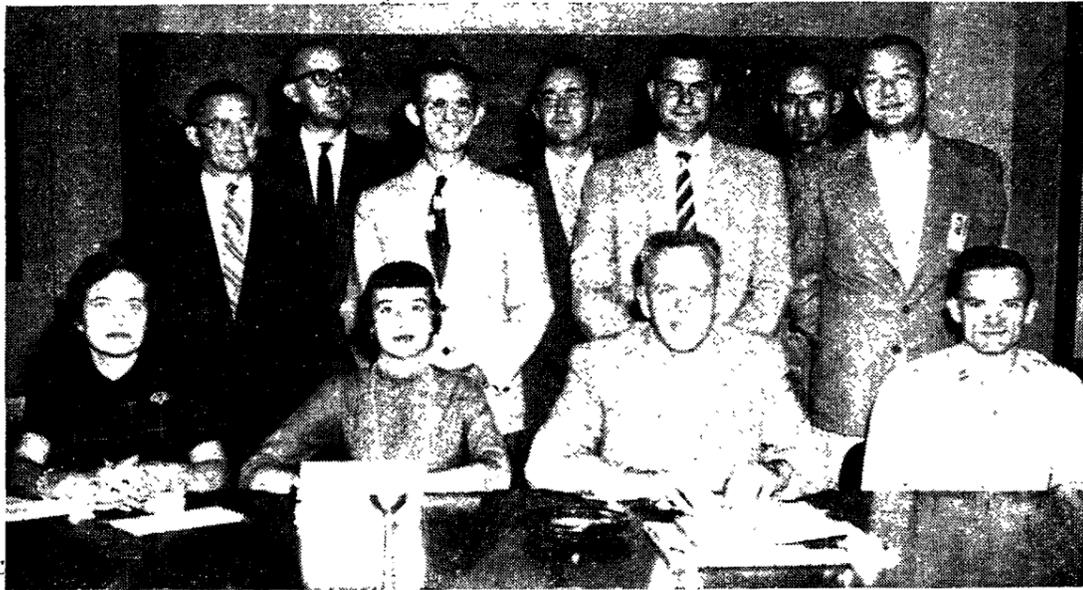
## Post Nursery Open For Westlawn Event

Anyone desiring to use the Post Nursery for the Westlawn School Halloween Carnival and other events on Oct. 31, from 4 p.m. to 11 p.m., may call any of the following for reservations: Mrs. M. F. Gatwood, JE 4-6027; Mrs. Herbert Leland, JE 6-1115; or Mrs. David Swearingen, JE 2-8135.



GO, GO, GO FOR UGF — Besides the conventional helium, these balloons must have also been filled with the enthusiasm aroused at the blast-off meeting of the Arsenal's United Giver's Fund drive Monday. Shortly after this picture was taken the balloons "blasted-off" with the UGF banner from their moorings in front of post headquarters. Incidentally — holding the balloons are Mrs. Betty Stanley, left, and Miss Anneleise Eisenhardt, right, both of whom are employed in Building A-101.

(Photo by H. L. McCrary)



UGF TEAM FORMED FOR ABMA — Arthur M. Tenney has been named chairman of the 1958 United Givers Fund drive for the Army Ballistic Missile Agency, and a group has been selected to assist him. Those in the group are, seated, left to right: Mrs. Sylvia McConaha, Miss Doris Smith, Mr. Tenney, and Chaplain Percival C. Lovseth. Standing are Carl Moeller, Ralph Jennings, Harry Williams, Walter Wiesman, Jack Blackburn, Capt. Frederick L. Young, and Mack Jennirs.

## LONG-RANGE PROSPECTS OF ELECTRIC PROPULSION USE FOR SPACE TRAVEL 'ENCOURAGING,' SAYS STUHLINGER

The long-range prospects of electric propulsion systems for outer space travel are "most encouraging," Dr. Ernst Stuhlinger of the Army Ballistic Missile Agency told the Eighth International Astronautical Congress, which met last week in Barcelona, Spain.

Dr. Stuhlinger is chief of research projects in the Missile Agency. He presented a paper entitled "Design and Performance Data of Space Ships with Ionic Propulsion Systems" to the Congress.

While the practical engineering of electric ships is "far in the future," Dr. Stuhlinger pointed out the payload such ships can carry is much greater than that of

chemically propelled vehicles.

He described a rocket motor in which exhaust particles are first electronically charged by ionization, then accelerated by electrostatic fields. A trip to Mars would take about 400 days in a ship powered by this means. A chemically powered ship would require 260 days.

Travel time between planets, Dr. Stuhlinger noted, "depends only slightly on the acceleration of an electric ship since the greater part of the ship's velocity is contributed by the earth's velocity around the sun."

The electric ship envisaged by the research scientist would move very slowly at first, about eight

## 'GO, GO, GO' SPIRIT

# UGF Drive Gets Underway Here

Three helium-inflated balloons, trailing a streamer with the slogan "Give to the United Givers Fund", demonstrated the "Go, go, go" spirit aroused in Arsenal UGF solicitors at the blast-off meeting held in Rocket Auditorium Monday morning.

The balloons, anchored to the 105-millimeter howitzer in front of Redstone Arsenal Headquarters building, tore loose shortly after the meeting and rapidly disappeared skyward over Huntsville.

More than 400 solicitors, team captains and drive chairmen from all agencies on the installation heard brief talks at the blast-off meeting by Judge Harry Pennington, city-county UGF drive chairman; Maj. Gen. John B. Medaris, commanding general of the Army Ballistic Missile Agency; Col. Henry S. Newhall, commandant of the Ordnance Guided Missile School; and Col. Keith T. O'Keefe, representing the commanding general of Redstone Arsenal.

C. W. Huth, chairman of the executive committee, introduced the speakers.

Judge Pennington appraised the work of the 17 agencies represented by the UGF from the standpoint of the judge's bench in circuit court. By using a hypothetical couple, John and Jane, he illustrated how one agency after the other steps in and assists the family with problems which they find too difficult to cope with individually.

"The services performed by these agencies are two-fold," Judge Pennington said. "They are preventive, as well as corrective, if called on in time."

Col. O'Keefe pointed out the installation's obligations to the community. "The UGF is an important facet in the discharge of these responsibilities," he said. He ex-

pressed the belief that the Arsenal employees would enthusiastically lend a helping hand, as in the first united fund drive last year, to surpass the goal of \$94,000.

Col. Newhall discussed "What Is a Fair Share?" and explained how the pledge system could make a generous contribution easier. "The amount you give rests with you," he said. "But remember—needs of the agencies have expanded with the growth of Huntsville, and the amount you give will be your way of helping meet these increased needs."

Gen. Medaris spoke directly to the solicitors, whom he termed the "key" people on whom the success or failure of the drive rested.

"Be informed, be interested, and know your prospect," he said. "What each person gives is his own choice to make, but he may be groping in a vacuum when you approach him. It will take friendly, positive salesmanship on your part to get him to listen to his own conscience. By starting early and with personal contacts you can open his eyes to the needs of the community, and the quota of \$94,000 which was set jointly by the Arsenal and the UGF will be quickly exceeded."

Huth introduced the following visitors:

Hon. R. B. Searcy, mayor of Huntsville; Roy Stone, chairman of Madison County Board of Commissioners; Roy Blackburn, president, Huntsville-Madison County UGF; Dr. W. M. Mebane, manager, Thiokol Chemical Corporation; and Allen R. DeSchere, manager, Rohm and Haas Chemical Co.

Division chairmen introduced were: Norman Harberger, Rohm and Haas; W. G. Jeffrey, Area Engineer Office; Arthur Tenny, ABMA; Col. John Woestenbergh and John Hyer, Redstone; Dr. C. D. Leatherman, OGMS; Charles Babcock, Thiokol; and Mrs. Sarah Hyner, Rohm and Haas.

## Classes for Red Cross Instructors Scheduled

Qualified first aid instructors are advised that a completely new Red Cross First Aid manual has been published, the first in 12 years, according to Miss Corrie Knight, Red Cross Field director at Redstone Arsenal.

Classes for instructors will be held at the Huntsville-Madison County Chapter Field House at 209 Green Street October 21, 22, and 23 from 7 to 10 p.m., according to Miss Virginia Miller, director.

Refresher courses will be administered Arsenal personnel soon, according to the Safety Office. These will be based on the new manual and will be given to the teams of personnel directly connected with the safety program such as the firemen, guards, electricians, maintenance men, and others.

The basic course to qualify for a Red Cross first aid certificate has been cut to 10 hours. The advanced course is 16 hours.

## Greenwood to Show Paper at IRE Meet

Thomas L. Greenwood of the Army Ballistic Missile Agency Test Section will present a paper at the Third Institute of Radio Engineers Instrumentation Conference in Atlanta Nov. 11-13.

Greenwood is a supervisory aeronautical engineer. He will present his paper "Electronic Techniques in Liquid Level Measurement" on Nov. 12. The headquarters for the IRE conference is at the Atlanta Biltmore Hotel.

miles per hour after a propulsion period of one hour. After one day it would have attained a speed of 200 miles per hour. But after three months, the speed would have built up to 20,000 miles per hour.

Dr. Stuhlinger explained that the ratio of take-off mass to payload mass favors the electric ship.

"A ratio of the order of four to one," he added, "can be obtained for ships traveling to Mars and back."

In Dr. Stuhlinger's opinion, the best propellant material would be cesium because it easily ionizes on contact with hot (See LONG RANGE on Page 2)

# The Redstone Rocket

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**ARRIVE FOR ORDNANCE CONFERENCE** — Frank H. Higgins (left), Assistant Secretary of the Army, and Lt. Gen. E. L. Cummings, (center), Chief of Army Ordnance, chat with Redstone Arsenal's deputy commander, Brig. Gen. J. G. Shinkle, on their arrival at the post for a three-day Army Ordnance Industrial Conference. The meeting began Tuesday (Oct. 8), attended by a 90-odd representatives of the Ordnance districts, commands, and arsenals in the U.S.

## LONG RANGE

(Continued From Page 1)

platinum surfaces. "The most influential figure in the design of an electronically propelled space ship is the specific power, defined as the available electric power divided through the mass of the complete power plant," he explained. "The specific power is measured in kilowatts per kilogram. Based on existing technologies, it is estimated that a specific power of about 0.1 kilowatt per kilogram could be obtained.

"A second figure of decisive influence is the specific mass of the thrust chambers, defined as the total mass of the chambers as a function of the total ion cur-

rent and of the current density.

"These two design parameters depend on available technologies and on engineering capabilities. Their exact values must be found in design studies and from experiments. Once they are established, all the other design and performance data of electric space vehicles can be derived as functions of payload, total propulsion time, and specific charge of the propellant element."

"Unless a scientific breakthrough in the lightweight generation of electric power is made, it should not be expected that vehicles with electrostatic propulsion systems can be designed which have much higher accelerations. However, accelerations of this order are entirely sufficient for interplanetary travel."

## Dummies Obstruct Bayoneting Troops In Assault Course

BERLIN, Germany — "Most realistic I've ever seen" was the comment of more than one of the U. S. soldiers who ran, waded and thrust their way through a bayonet assault course at the NCO Academy of the Berlin Command.

Harassed all the way through the 600-yard course by concertina and double apron barbed wire, by tear gas and artillery simulators, the soldiers were nevertheless told to use their bayonets in an offensive spirit and technique, and under time competition conditions.

It wasn't so bad attacking the lifelike dummies found in fox-holes and behind trees and bushes. The trouble came about halfway through, after they had jumped into the cold Grunewald stream and waded, waist-deep, against the current.

At the exit point, "Big Bull Moose," largest if least lifelike of the dummies, came sliding down the steel cable at the student while he was scrambling up the bank.

Dr. Stuhlinger's proposal requires a nuclear reactor as the power source. It produces steam to drive a turbo-electric generator. The steam condenses in a radiation cooler from where the liquid is pumped back to the heat exchanger. The electric energy accelerates ions and electrons in a system of thrust chambers.

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**TWO-GALLON DONORS** — Photographed with Miss Corrie Knight (seated, second from right), the Red Cross field director here, and Maj. Russell A. Bergmann (seated, right), chairman of the Arsenal Bloodmobile program, are some of the donors who have given two gallons or more of blood to the Red Cross blood bank. The Bloodmobile is scheduled to return to Redstone on Oct. 15. The two or more gallon donors seated are B. J. Elswick (left), and Col. Keith T. O'Keefe. Standing (left to right) are: Theo J. Combel, James Farrow, Martin Williams, Charles W. Nestor, Homer F. Wilbanks, Leon Towery, William W. Howard, and Maj. Robert A. Fuller. There are five others on post who have donated at least two gallons who were not present when the picture was taken. They are Sgt. Edwin Gedling, Sgt. A. S. Briggs, Ralph Adams, SP3 Kenneth Bean, and Richard M. Cantrell.

If he thrust correctly, he pushed the dummy back. If not, it was the soldier who went catapulting back into the water.

Another fighting dummy, on the end of a pole held by an instructor, whacked everyone in the face (or, strictly speaking, in the gas mask) if he didn't defend himself properly. The soldier was enmeshed in concertina wire at the time.

Yet another dummy emerged from a bush just as the soldier thought he had safely crossed a foot-wide log bridge over the stream.

"It was wetter the second time in," was one unlucky student's laconic comment.

First Lieutenant Dandridge M. Malone, academy commandant, of (2210 Glencoe Rd.) Winter Park, Fla., believes in keeping his 39 students on their toes. They were rewarded after supper with a stiff inspection, to make sure

boots had a high polish and weapons were spotless.

That was part of one day in the six-week student life of the specialists and privates who aspire to non-commissioned officer status.

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**WHERE'S THE TROUBLE?**—That's the electronics problem facing Private First Class William E. Schill (left) of West Albany, N.Y., and Private Frederick G. Wettick of Pittsburgh, Pa., students at the Army's Ordnance School course for fire control repairmen at Aberdeen Proving Ground. They are working with a tracking console of the radar system for antiaircraft defenses.

**Army Training Led Soldier to Life's Work**

CHIEMSEE, Germany — When a screaming siren summons a startled speeder on the New Jersey turnpike one of these days, he can blame it all on the Army if the trooper's name turns out to be Cook.

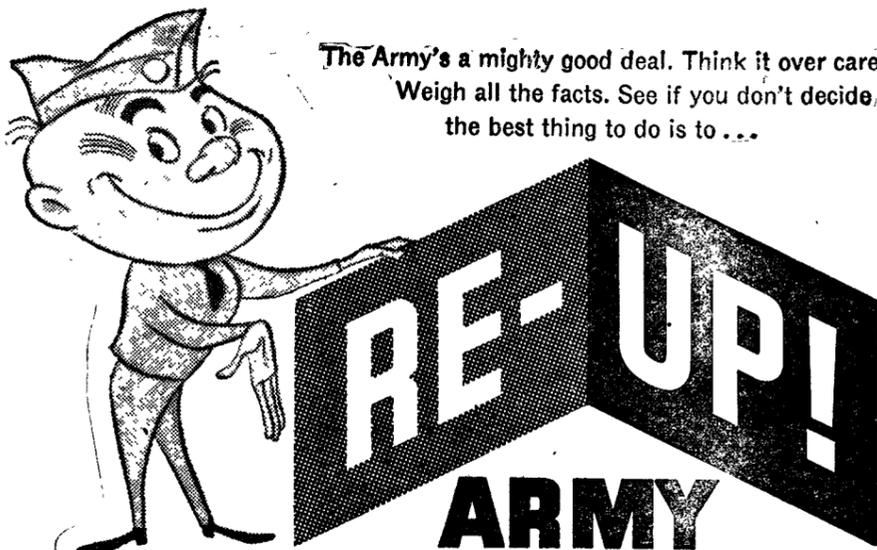
It all started back in April 19-56, when Private First Class Charles S. Cook of 122 Prospect St.) Elizabeth, N. J., enlisted with an expressed preference for

MP duty. So after basic training he was sent to Fort Gordon, Ga., for an eight-week course at the Military Police School.

Assigned to Germany, Cook was soon patrolling the famous Autobahn Highway. This gave him valued experience in all phases of law enforcement.

In anticipation of the termination of Army service, Cook recently wrote the New Jersey Turnpike Patrol. The reply was prompt and all but promised that he would be donning the uniform of a State Trooper if he would resubmit a letter of application three months before discharge.

There are 35 schools in the Army's educational system, with a total of 500 courses from which more than 140,000 students were graduated last year. These schools also train allied military students from 48 foreign countries.



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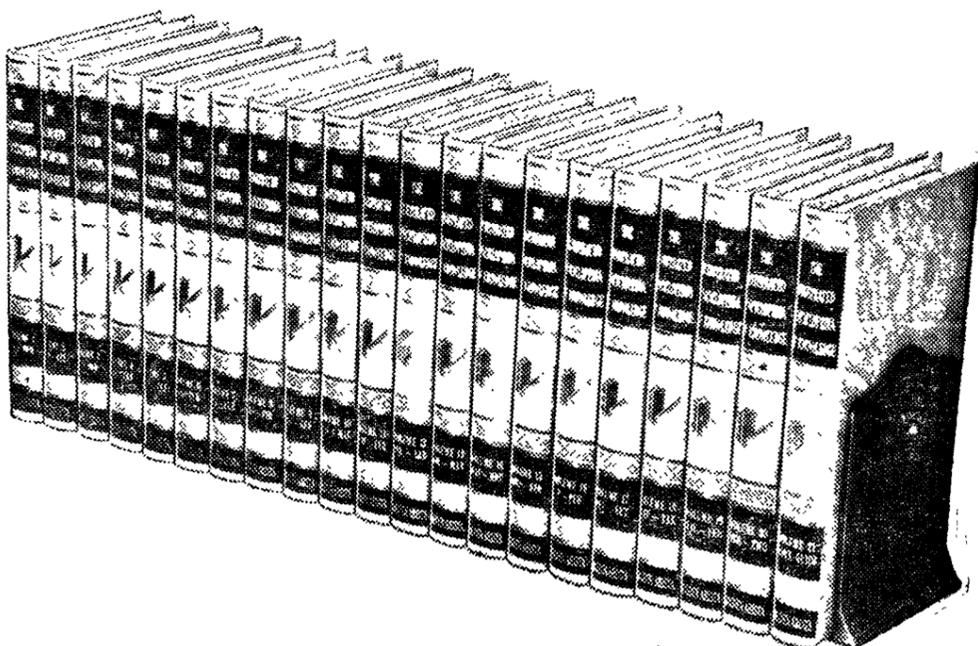
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**REDSTONE TOASTMASTERS INSTALL OFFICERS** — Webb Mayfield (third from left), new president of the Redstone Toastmasters Club, is shown with guests and officials of the club at recent installation ceremonies. Left to right are Bill McAulley, Area 5 Governor of Toastmasters International, who conducted the ceremonies; Lt. Col. Charles Michaels, who represented Col. Henry S. Newhall, commandant of the Ordnance Guided Missile School, at the meeting; Mr. Mayfield; Maj. William Lingenfelter, representing Maj. Gen. H. N. Toffey, Redstone Arsenal commander; Huntsville Mayor R. B. "Spec" Searcy; and Lt. Col. Nathan Reiter, representing Maj. Gen. J. B. Medaris, Army Ballistic Missile Agency commander.

**Demetriou Named Best Speaker at Toastmaster Meeting**

Tony Demetriou was elected "best speaker" at the regular weekly meeting of the Redstone Toastmasters Club Oct. 8. His subject was "Tax Equality."

Other speakers on the program were: Maj. Jack Caryi, who pointed out heart disease as the largest killer of men today; Lt. Col. Henry Clanton, who reviewed the progress and causes of inflation and its cost to the public; Bob Cramer, who discussed the price

of success; and Bill Greene, who pointed out the threat implicit in the Russian satellite. Toastmaster for the evening was Walt Barney.

In place of the regular table topics, Bill Doxey of the Signal Corps establishment at Ft. Monmouth, N. J., showed some color slides of Moscow and other cities in Russia. He gave his impressions of the people and industry in the USSR. Doxey recently returned from the International Conference on Standardization held in Moscow, where he represented the Signal Corps. He was introduced by Lt. Don Swartwout.

Herb Adcock served as general evaluator, T. C. Burns acted as grammarian, and A. A. Stewart as parliamentarian. Toastmaster Burns introduced an "Ah-scar" award for the member guilty of the largest number of vocalized pauses during the evening.

Guests for the meeting were Bill Doxey and Frank Southerland.

The first United States demonstration of troop transport by air was held Sept. 7, 1918, when several planes carried 18 enlisted men from Chanute Field to Champaign, Illinois.

**Frugal Engineers Bring 'Household' Economy to Army**

WASHINGTON — A campaign to cut operating and maintenance costs of utilities and real property at Army posts and stations has saved taxpayers \$357.4 million since the end of World War II, according to estimates made by the Office of the Chief of Engineers.

In 1956 the program made possible a reduction of \$71.3 million in specific high cost areas such as coal stockpiling, heating, electricity, fire protection, woodland management, outleasing of land, refuse collection and utilities contract rates.

The attack on waste is spearheaded by post engineers, whose jobs are roughly comparable to that of a city manager of a medium-size metropolis.

Specific examples of savings made despite increased costs of materials and wages are cited in the report of the Assistant to the Chief of Engineers for Repairs and Utilities.

The use of electricity, costing about \$43 million yearly throughout the world, has been reduced by limiting lighting intensities to designed standards; eliminating unauthorized electrical appliances; turning off equipment when not needed; scheduling electrical loads to off-peak periods when practical; reducing exterior lighting to the lowest level consistent with security and safety.

Woodland management, a program of orderly harvesting of timber and protection and care of forests on Army stations, has provided an estimated savings of \$15 million through 1956.

By outleasing land not needed for peacetime operations, post engineers have chalked up cumulative savings of \$26 million, according to the report. This average increased from 200,000 in 1949 to 955,000 in 1956. The land was leased mainly to farmers and stockmen.

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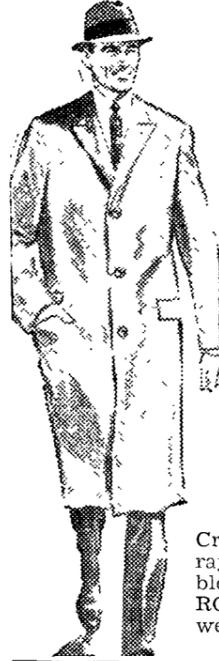
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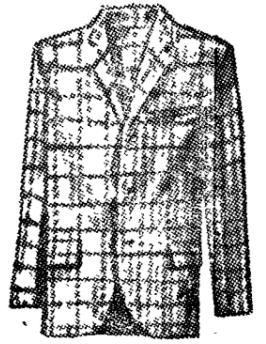
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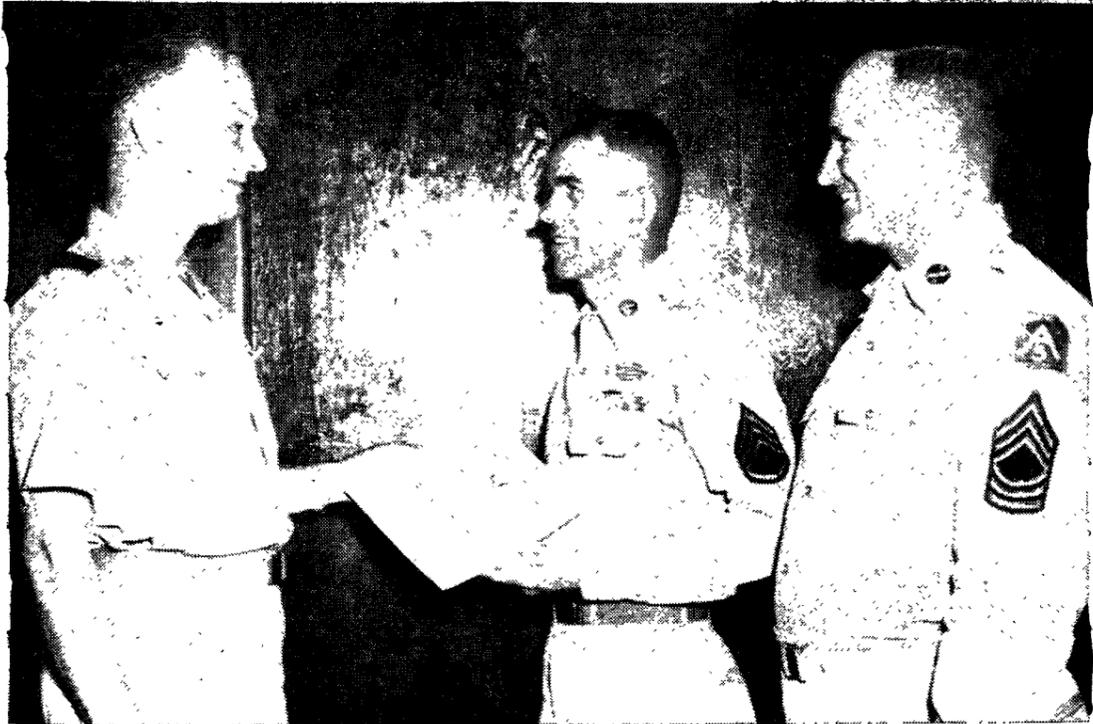
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FIRST RE-ENLISTMENT IN NEW UNIT—Sgt. Harry Wigglesworth (center) receives his honorable discharge and promptly re-enlists for six more years to become the first man in the recently activated 40th FA Missile Group (Heavy) to "re-up." Presenting the discharge papers and congratulating the sergeant on his re-enlistment is Col. Robert C. Gildart, commanding officer of the unit. Looking on is M/Sgt. Johnny M. Martin, unit recruiting sergeant. Sgt. Wigglesworth, a native of Covington, Ky., has been in the Army almost 15 years. He presently is assigned to the supply section of the 40th Group.

**AVERAGE GROSS EARNINGS OF ABMA CIVILIAN WORKERS \$7,504 IN '57**

The average gross earnings of Army Ballistic Missile Agency civilian employes during Fiscal Year 1957 amounted to \$7,504.

Maj. Gen. J. B. Medaris, the commanding general, announced the civilian payroll of the Agency in the year ended June 30 totaled \$25,836,177. The average number of employes on the payroll was 3,443.

Gen. Medaris said a portion of the average earnings represented overtime necessitated by the 'crash' programs involved in weaponization of the Redstone Ballistic Missile Systems and development of the Jupiter Intermediate Range Ballistic Missile.

The 2,152 Class Act employes paid on annual basis averaged \$7,404 gross earnings while the 1,291 Wage Board employes averaged \$7,504. Civilian employment had leveled off at 4,100

when FY 1958 opened July 1.

Deductions and withholding from earnings in FY 1957 for Federal and State income taxes, retirement, group insurance and

FICA amounted to \$4,277,242. Thus the net earnings were \$21,558,935.

In addition to the civilian work force, which includes a high percentage of scientists, engineers, and technicians, the Agency requires the services of several hundred military personnel. Cap-

**Camera Club Slates Its Second Meeting**

The second meeting of the Huntsville Camera Club will be held at Steadman's Restaurant at 7 p.m. Wednesday.

Eighteen photographers attended the organizational meeting two weeks ago. A steering committee was selected at that time. Officers will be elected later.

John Kubulis, an illustrator in the Industrial Division at Redstone Arsenal, says that anyone interested in photography is welcome to attend the dinner at 7, or

Almost a year before Nike missiles are manned at the site, qualified soldiers arrive at the U. S. Army Air Defense School, Fort Bliss, Tex., for a 42-week technical school course of instruction.

to come to the business meeting afterwards.

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able of pursuing a long-range missile project from design through prototype production, it is the only organization of its kind in the United States.

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**ON NEW RIFLE TEAM** — The above trio, headed by Lt. Benjamin M. Phillips, OGMS, are the nucleus of the newly activated Redstone Arsenal M-1 Rifle Team that recently won their first awards by copping eight medals in competition held at Knoxville, Tenn. Members, from left to right, are Pvt. Paul D. Poe, ABMA; SP/3 Carl Kastner, ABMA; and Lt. Phillips.

**21 Shooters Compete In NRS Pistol Match**

The monthly approved NRA pistol match was held at Redstone Arsenal on Sunday afternoon, 13 Oct., with 21 shooters competing from Redstone, Huntsville, Guntersville, and Birmingham. Weather was ideal - clear, pleasant, and no wind.

Individual winners were as follows: M/Sgt. Johnnie Martin, 40th GM Group - High aggregate winner 45 National Match Course; 1st Master in 22 NMC, Center

Fire NMC and 45 cal timed fire match. Capt. George Adams, RSA - Winner, 22NMC; 2nd Expert, 45 cal timed fire. Pfc. Thomas E. Rickman, ABMA - Winner, 22 Center Fire NMC; 1st Sharpshooter, 22 NMC; 2nd Sharpshooter, 45 cal NMC and Timed Fire. Wesley Grant, Birmingham - Winner, 45 cal Timed Fire Match; 1st Expert 45 cal NMC; 2nd expert, 22 cal NMC. CWO George M. Seeley, OGMS - 1st Expert, 22 cal NMC and 45 cal Timed Fire. Robert E. Ekins, Redstone Arsenal Pistol Club - 1st Expert Center Fire NMC. Sfc. Robert Burkett, OGMS - 2nd Expert Center Fire NMC and 45 cal NMC. SP2 Richard McKee, OGMS - 1st Sharpshooter, 45 cal NMC and 45 cal Timed Fire. SP3 Donald R. Watkins, ABMA - 1st Sharpshooter. Center Fire, NMC and 2nd Sharpshooter, 22 NMC. CWO Daniel Cogswell, OGMS - 2nd Sharpshooter, Center Fire NMC. Pfc. Carl E. Kastner, ABMA - 1st Marksman, Center Fire NMC; 45 cal NMC and 45 Cal Timed Fire. Pfc. Fred E. Newton, OGMS - 1st Marksman, 22 cal NMC; 4th Marksman, 45 cal NMC and 5th Marksman, 45 cal Timed Fire.

Capt. Milton Young, OGMS -

**Service Club Schedule**

**Post Gymnasium Operating Hours**  
Monday thru Friday 1400 - 2200.  
Saturday and Sunday - Closed.  
**Golf Driving Range and Archery Range Operating Hours**

3rd Marksman, 45 cal NMC and 4th Marksman, 22 cal NMC, Center Fire NMC and 45 cal Timed Fire. Robert Martin, Redstone Arsenal Pistol Club - 5th Marksman, 22 cal NMC.

Mrs. Daniel Cogswell was Statistical Officer and Lt. Col. Bruce Pierce was Range Officer.

The Army's new infantry and airborne divisions have advantages over their older counterparts in increased front-line fighting strength, increased mobility thru Army aviation and cross-country vehicles, atomic capability in the artillery, and greatly improved firepower.

Monday thru Friday 1700-2130. Saturday 1300 - 2100. Sunday and Holidays 1400-2100.  
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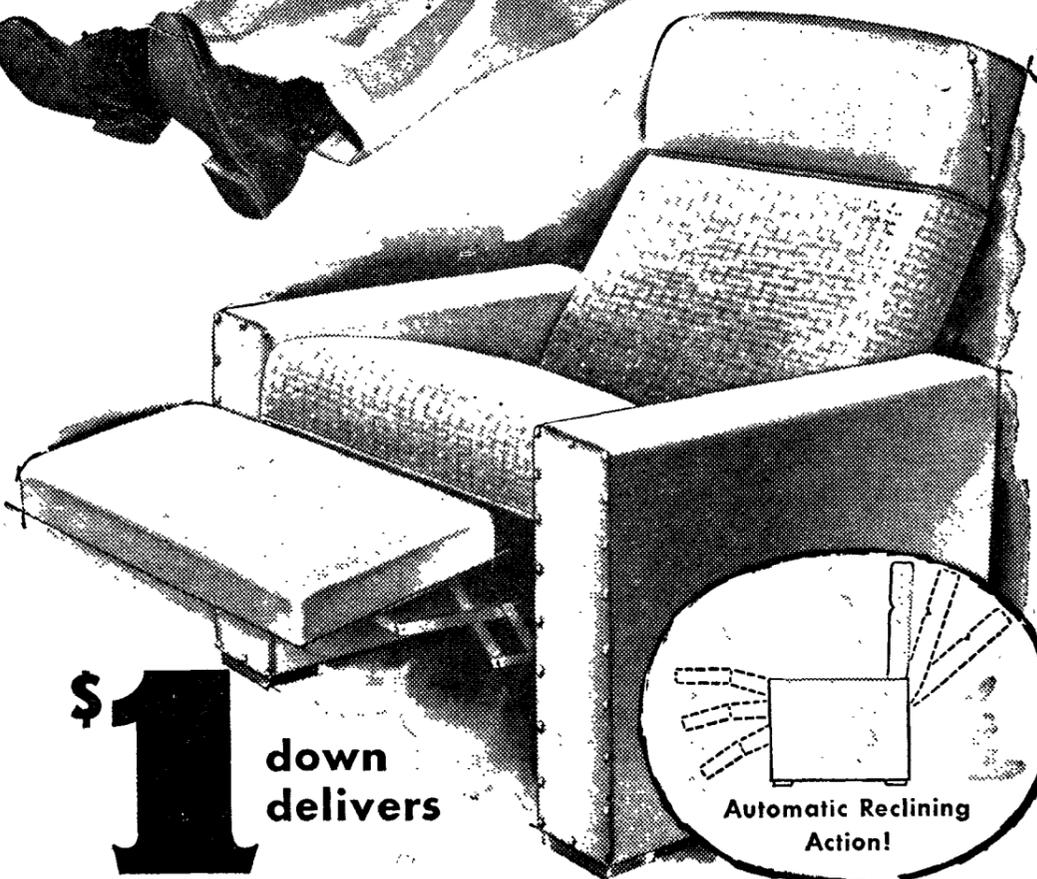
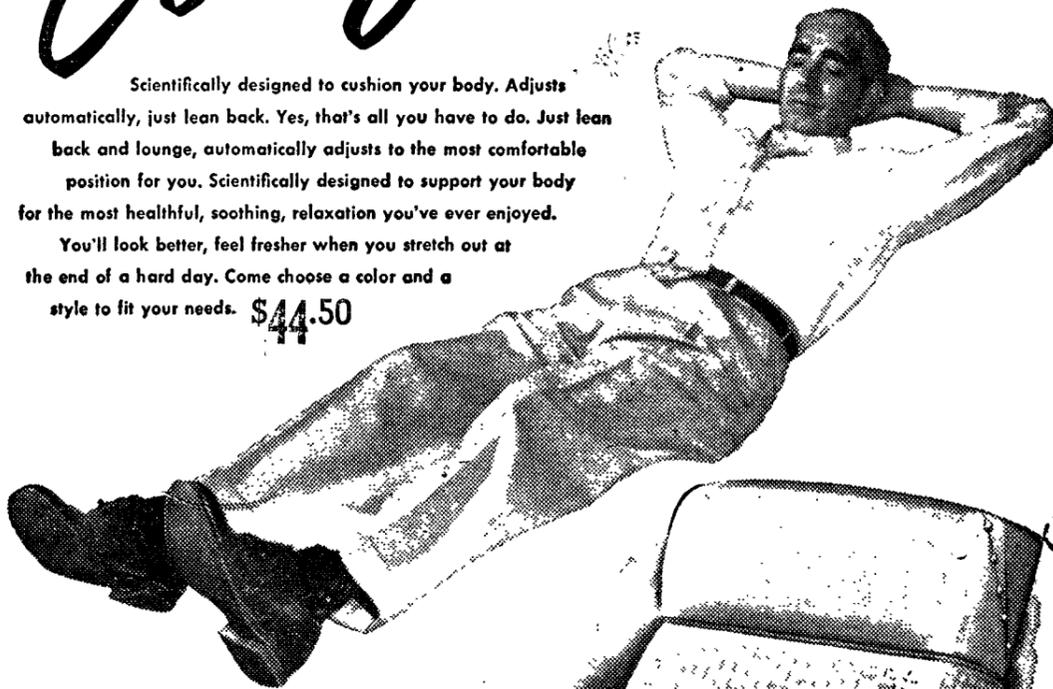
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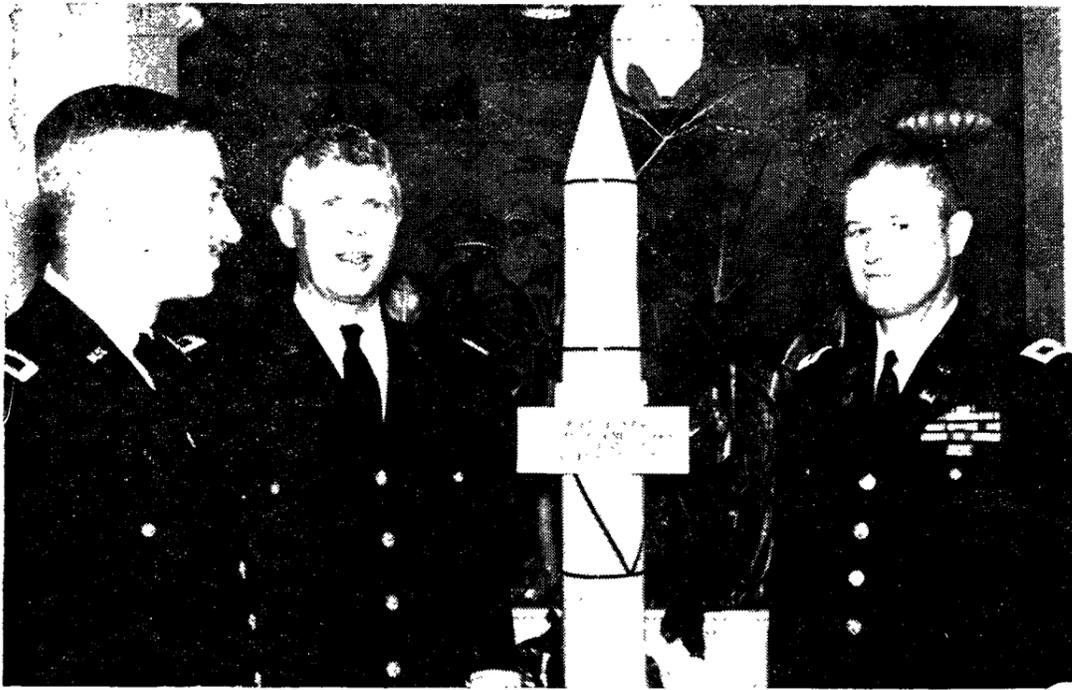
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'REDSTONE ROOM' OPENED — Speakers at the official opening of the new social center for officer activities in Bldg. 111 recently were Maj. Gen. J. B. Medaris, commanding general of the Army Ballistic Missile Agency, left above, and Brig. Gen. J. G. Shinkle, deputy commander of Redstone Arsenal, center. Col. H. H. Northington, right, was chairman of the committee directing the redecoration of the facilities of the Mess Annex in Squirrel Hill, and converting them to their present use. (Photo by Bill Kellar)



NEW OFFICERS' CLUB ENJOYED — Shown above are a few of the couples who crowded the dance floor and partook of the refreshments served at the opening recently of "Redstone Room," social center in Bldg. 111 for members, associate members and guests of the Officers Club.

**502ND AIRBORNE TEAM DEFEATS ROCKETS, 22-0**

Scoring once in the first, third, and fourth periods, the 502nd Air-

borne team from Fort Campbell, Ky., defeated the Redstone 'Rockets' 22 to 0 Saturday night at Linton Field. The Airborne also tallied a safety in the fourth.

In the first period, fullback Slaten went over from the four-

yard line as the Airborne capitalized on the first break of the game, a Redstone fumble on its own 38. In the third period, half-back Rushton went 60 yards on a reverse for the second TD of the game to make the score 13-0.

At the opening of the fourth period Redstone was bottled up on its own 22 and went into punt formation. A bad pass from center went into the end zone to give the Airborne another 2 points. Later in the fourth another bad pass from center resulted in Airborne taking over on Redstone's 35 from where they drove for the final TD. The tally was made on a 3-yard plunge by fullback Slaten.

Redstone was unable to get moving on the ground but did well in the air, completing 50 per-

**FIELD SERVICE BOWLING LEAGUE STANDINGS**

Team	Won	Lost
Crackers	15	5
Guided Muscles	12	8
Peens	11	9
Buzzards	10	10
Hawks	9	11
Honest Johns	9	11
Expeditors	8	12
Blue Streaks	6	14

200 Games: Carol 210, Herndon 212.  
High individual game: Kutz—233.  
High individual series: McCroban—561.  
High team game: Crackers—941  
High team series — 3 games: Crackers—2514.

**COMPANY LEVEL BASKETBALL LEAGUE**

16 October 57, Officers -vs- 32nd Ord Det, 1830. 217th (a) -vs- Det "A" USAOA, 2000.  
17 October 57, 217th (b) -vs- Hq & Hq USAOA, 1830. 91st Ord Det -vs- Det "A" ABMA, 2000.  
18 October 57, 580th Eng -vs- 630th Ord Det, 1830. Sig Elec Tng Det -vs- 32nd Ord Det, 2000.  
21 October 57, 89th Ord Det

cent of their passes. The Rockets threatened twice, but were unable to score. They trailed in first downs, 9 to 5. There were only three penalties during the game, two offside against the Airborne and one delay of the game against Redstone.

This Saturday Redstone plays host to Southern Union College from Wadley, Ala. Game time is 7:30 and place is Linton Field.

**THE STAMP CORNER**

BY J. H. MULDER

The fourth set of commemorative stamps issued by the United States was the Louisiana Purchase Exposition Issue. This set was issued in 1904 to commemorate the Louisiana Purchase Exposition held in St. Louis, Mo., from April 20 to December 1, 1904. These are five stamps in the set: 1c, 2c, 3c, 5c, and 10c. Scotts Stamp Catalogue sets their value unused, from \$2.00 to \$20.00, used \$.30 to \$6.00.

The only error found in this set occurs with the 2c, which was found imperforate horizontally. The value of these is set at \$1,000.00 a pair.

The U. S. Post Office Department has just announced that a wildlife stamp, picturing a whooping crane, will be issued on 18 November 1957 in three colors.

The first day of issue will be in Corpus Christi, Texas and New York City. Corpus Christi is the site of the whooping crane refuge in Texas. The whooping crane almost became extinct, however, every effort is being made to preserve the species. The last count showed 30 birds and three eggs in the refuge.

-vs- Det "A" USAOA, 1830. Officers -vs- Hq & Hq. USAOA, 2000.

22 October 57, 217th (a) -vs- Det "A" ABMA, 1830. 217th (b) -vs- 91st Ord Det, 2000.

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After all a watch is a phenomenal engineering achievement, ticking off 18,000 times an hour, 432,000 times in a single day, 156,000,000 times in a year!

The wear, as a result of the tremendous friction of this remarkable machine, can render a mass-produced watch virtually useless, causing it to lose time or stop altogether. The reason is in the quality of the metal parts and the precision of their machining. For example, a balance screw is so tiny that several thousand can fit into a thimble!

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### Tea for 50 Given By Mrs. Medaris And Mrs. Woody

Quarters Number One, the residence of Maj. Gen. and Mrs. John B. Medaris at Redstone Arsenal, in its beautiful woodland setting was the scene last Thursday of a tea given by Mrs. Medaris and her recently married daughter, Mrs. Charles Kenyon Woody, for about 50 of their mutual friends and neighbors at the Arsenal, who called between 3 and 5 p.m.

The tea table in the dining room was covered with a white lace and embroidery cloth from China, complimenting a centerpiece of pink roses, asters, and carnations. Pink candles glowed in tall silver candelabra; a color scheme of pink and green was carried out in the tea cakes, mints and dainty sandwiches and cookies. A silver coffee service was at one end of the tea table, and a handsome silver tea service, brought by Mrs. Medaris from Argentina was at the other. Pink flowers also decorated the other rooms.

Ladies who poured were Mrs. Duncan Hallock, Mrs. Clifton F. Nooncaster, Mrs. Arthur Lahlum, Mrs. Hartsell H. Northington, Mrs. Glenn P. Elliott, Mrs. Burleigh B. Drummond, Mrs. John T. Newman, and Mrs. John T. O'Keefe.

### Col. C. G. Patterson Guides Ft. Benning Missile Symposium

FORT BENNING, Ga.—A guided missile symposium was held at Fort Benning yesterday for students attending the U. S. Army Infantry School's officers advanced and associate classes.

Future developments in the guided missile field were discussed. Eight hundred students participated in the meeting.

Guiding the symposium was Col. C. G. Patterson, chief of the Department of the Army's Staff Office, Army Ballistic Missile Agency, Huntsville, Ala.; Maj. Alan R. Toffler of the U. S. Army Artillery and Missile School, Fort Sill, Okla.; and a representative of the U. S. Army Air Defense School, Fort Bliss, Texas.

### OGMS Wives Boss Of Party at Club

The Redstone Arsenal Officers Wives Club held its monthly meeting Friday afternoon, Oct. 11, in form of a party at the Officers Club.

Fall decorations were used in the club. The table featured a centerpiece of dried flowers and fresh mums in yellow and bronze tones. Fruit punch, sherry, assorted party sandwiches and cookies were served.

Wives of the Ordnance Guided Missile School officers were in charge of the event. Those serving during the afternoon were Mrs. Lowell Twitchill, chairman; Mrs. W. B. Hawkins, Mrs. H. V. Smith, Mrs. S. F. Bunn, Mrs. J. D. Pratt, Mrs. R. W. Fyfe, Mrs. H. C. Hansen, Mrs. H. R. Jones, Mrs. L. G. Walker, Mrs. R. S. Kinch, Mrs. W. Harrison, Mrs. J. Berry, Mrs. W. F. Diggs, Mrs. R. Elder, Mrs. B. Phillips, Mrs. G. Pickering, Mrs. W. R. Gilbanks, and Mrs. J. Wall.

Mrs. C. D. Letherman won the door prize, which was the main centerpiece. About 120 members and guests attended the party.

### ROCKET CITY BAND ELECTS OFFICERS

At its regular weekly meeting last Wednesday evening, The Rocket City Band elected its staff of officers for the ensuing year. Selections for the various positions were made from the corps of majorettes (ROCKETTES, as they are called), as well as from the ranks of musicians, and comprise the following: Jesse W. Wilson, president; Viva Garrett, vice-president; A. S. Drummond, treasurer; A. J. Broome, secretary.

The band's director, Horace (Hodd) Smith, was also named as librarian; Kaye Burrus, historian; J. N. Pogue, supply officer; Foster Haley, publicity director, and L. E. Walter, business manager. Daniel Della-Calce, director of St. Mary's School Band, serves also as associate director of the Rocket City Band.

The group meets regularly each Wednesday evening at 7:30 in the band auditorium of St. Mary's School on East Holmes Street, except the third week of each month when it meets Tuesday evening instead.

A vigorous campaign for associate and commercial, or supporting memberships is being conducted by the band members. Membership comprises three categories, namely: active members (musicians, Rockettes and vocalists); associate members, (citizens of Huntsville, generally), and commercial, business establishments of all kinds.

The band soon will be outfitted with natty uniforms, and a schedule of public appearances is to be announced in the very near future. Musicians or drum major-



THE 16TH ANNIVERSARY OF THE MILITARY POLICY CORPS, U. S. ARMY, was celebrated at Redstone Arsenal recently by a birthday cake cutting. Left to right are Brig. Gen. J. A. Barclay, deputy commander, Army Ballistic Missile Agency; Col. C. F. Nooncaster, ABMA Headquarters Commandant; Lt. Col. A. J. Hogan, Redstone Provost Marshal; Lt. Col. N. I. Reiter, Jr., assistant ABMA Headquarters Commandant; M/Sgt. Grimes, senior MP noncom on the post; Maj. L. W. Sheeran, ABMA Security Officer; Maj. Gen. H. N. Toftoy, Redstone Arsenal commander; and Col. K. T. O'Keefe, deputy post commander.

### Mason-Dixon Club Installs Officers; Dr. Clapp Director

The Mason-Dixon Toastmasters Club No. 2186 meeting October 7 featured installation of officers.

This meeting, being a special occasion, was a ladies night. The ladies were entertained by three "fearless bachelors". Their courage is best portrayed by the titles of their speeches. Toastmaster "Skippy" Sherrill introduced: Bachelor Dr. Roger Clapp who spoke of ladies fashions in a speech entitled "The Slack Waisted Sack Sheath"; Bachelor Graham Shovelton who spoke on "The Perfect Wife"; and Bachelor Gaines Graveler who spoke on "The Perfect Husband." Graham Shovelton was voted best speaker of the evening and awarded a fascimile of the "Smedley Cup."

At the conclusion of the meal, the impromptu speaking portion of the program was conducted by Dick Ely. Following the speaking portion of the program, William McAlilly, Area Governor of the Toastmasters International, installed the newly elected officers: Dr. Roger Clapp, president; Charles Cockrell, educational vice-president; Dr. Richard Haskins, administrative vice president; Ed Buchanan, secretary; "Skippy" Sherrill, treasurer; and Lee Cropp sergeant-at-arms.

ettes wishing to join the organization may inform the band president, Jesse W. Wilson, 110 West Clinton Street, or the business manager, L. E. Walter, at the Russell Erskine Hotel, and arrange to be present with baton or musical instrument at the band's meeting on Tuesday evening.

### It's Time to Buy New Tag—And Tell The Provost Marshal

It's again time to buy new car tags. And there's one associated action that you don't want to for-

get. Be sure to let the Provost number, etc.

Marshall Office know the new registration number. Telephone calls will not be accepted. Either visit the office at Building 1021, or send a memo. The Provost Marshal should also be notified if the car has been repainted, has a different motor get. Be sure to let the Provost number, etc.

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# At The Service Club

Come out, come out, wherever you are. Take that talent out of hiding, dust it off, and bring it down to the SC tonight for the Talent Scout Night. Auditions are in progress to select the best talent for the Big Variety Show in November. We are planning a program of tremendous proportions and a great prize will be given to the individual or group judged to be the best. Everybody will have a chance to try out whether or not you are enlisted personnel. Call the Service Club and make a date for a try-out. This may be your big opportunity.

Our enthusiasm about the dance classes increases every day. The first beginner's group has been promoted, and a new one will start on the 22nd. Registration for these classes will begin on the 22nd for the Beginner's Group and the Advanced Class. Tangoes, waltzes, rhumbas, foxtrots, and other simple and intricate dances will be taught. Did you ask about the price? It's hardly worth mentioning, but we will. There will be slight charge of 50c per person for the individuals and 75c for couples. These lessons are still open to girls who work at the arsenal. Under the expert direction of the instructor all your fears about never being able to move to the music will melt away.

Reservations are being taken for the Back to the Good Old Days Hamburger Supper on the 26th. 10c hamburgers and 5c coffee will bring back memories to some of you, while for others it will be an entirely new experience. You'll never find out from me what I know about prices of yesterday, but I'm anxious to buy a hamburger at that price. All enlisted personnel and their families are invited, but reservations must be made in advance. Bring along that small change for a bang-up burger feast.

They're off—the winners of the Small Games Tournament are leaving Saturday for the tournaments at Ft. Benning. Sfc. Edward Reese and Sfc. Robert Bishop will carry the banner for Redstone in the horseshoes tournament. The table-tennis champs are Pfc. Charles Lewis and Pfc. Conrad A. Pederson. Sp. 3 Donald Redmon and Pvt. Phillip Ormsby will ably represent us in the badminton competitions. Best of luck and have a good time for all of us.

An appreciative group got together last Wednesday night to see Marty's color slides of her recent trip to the West Coast. Civic pride got out of bounds when some of the viewers sighted the old home towns. Look around on the 23rd and join us for another tour via the Color Slides.

Are you interested in space travel, satellites, little green men dashing madly about? Naturally you are—who isn't these days. Now, we're not talking about science fiction. This is the real thing. Charlie Lyle and Orchestra will furnish appropriate music for the Annual Convention of the Broomstick Flyers on the 25th of October. We are observing an old traditional mode of space travel on this date. 75 delegates will be here from Chattanooga for the revelries. The higher light of the occasion will be the awarding of a prize to the person with the most original costume. You'll be hearing more about this so watch the Rocket for more details.

See you at Coffee Call. Muriel



FOR OUTSTANDING PERFORMANCE — Mrs. Lorraine Wiswall, a clerk-typist in the Ballistic Missile Branch of the Ordnance Guided Missile School, receives an award for Sustained Superior Performance from Col. Henry S. Newhall, commandant of the School. Mrs. Wiswall, a native of Boise, Idaho, now residing at 436 Karter Avenue, Huntsville, received a monetary award of \$100 and a Department of the Army Certificate commemorating the event.

If an aggressor believes that he can be beaten in war he is not likely to start one. But to be convincing, this deterrent capability must actually exist. It cannot be talk, or bluff, or threat. It must be supported by visible, tangible evidence of military, economic, political, and moral strength in being.

Rear Adm. Richard E. Byrd made his historic first airplane flight over the North Pole 31 years ago. He flew a tri-motored Fokker monoplane.

Time 1900.  
 Sunday, 20 October 1957, "Funny Face" starring Audrey Hepburn, Fred Astaire, and Kay Thompson (Family) Time 1830 and 2030.  
 Monday, 21 October 1957, Closed.  
 Tuesday, 22 October 1957, "Under Fire" starring Rex Reason, Henry Morgan, and Steve Brodie (Mature) Time 1900.

## GRAND THEATRE

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**ROCK AROUND THE CLOCK**  
 with JOHNNY JOHNSTON

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IN GEORGE SIDNEY'S  
**Jeane Eagels**

co-starring AGNES MOOREHEAD  
 with CHARLES DRAKE - LARRY GATES - VIRGINIA GREY - JENNE LOCKHART  
 Screen Play by DANIEL FUCHS, SONJA LEVIN and JOHN FANTE  
 Story by DANIEL FUCHS - Produced and Directed by GEORGE SIDNEY

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## MOVIE SCHEDULE

Wednesday, 16 October 1957, "The Giant Claw" starring Jeff Morrow, Mara Corday (Family) Time 1900.

Thursday, 17 October 1957, "Jailhouse Rock" starring Elvis Presley and Judy Tyler (Mature) Time 1830 and 2030.

Friday, 18 October 1957, "The Tijuana Story" starring Rodolfo Acosta and James Darren (Mature) Time 1900.

Saturday, 19 October 1957, Matinee "Dagnet" starring Jack

Web, Ben Alexander, Cartoon and Serial, Time 1000.

Saturday, 19 October 1957, Regular Movie, "Enemy From Space" starring Brian Donlevy (Family)

## PARKWAY THEATRE

LAST TIMES TONIGHT  
**"RUN OF THE ARROW"**  
 with ROD STEIGER

WEDNESDAY & THURSDAY

70th Anniversary presents  
**RICHARD EGAN**  
**DEBRA PAGET**  
 and introducing  
**ELVIS PRESLEY**  
**LOVE ME TENDER**

FRIDAY & SATURDAY

ROBERT RYAN  
 VIRGINIA MAYO  
 JEFFREY HUNTER  
**THE PROUD ONES**

Plus

Linda Darnell  
 Dale Robertson  
**DAKOTA INCIDENT**

STARTS SUNDAY

alone on a Pacific Island...  
 Deborah KERR  
 Robert MITCHUM  
**Heaven Knows Mr. Allison**

pride got out of bounds when some of the viewers sighted the old home towns. Look around on the 23rd and join us for another tour via the Color Slides.

Are you interested in space travel, satellites, little green men dashing madly about? Naturally you are—who isn't these days. Now, we're not talking about science fiction. This is the real thing. Charlie Lyle and Orchestra will furnish appropriate music for the Annual Convention of the Broomstick Flyers on the 25th of October. We are observing an old traditional mode of space travel on this date. 75 delegates will be here from Chattanooga for the revelries. The higher light of the occasion will be the awarding of a prize to the person with the most original costume. You'll be hearing more about this so watch the Rocket for more details.

See you at Coffee Call. Muriel



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**THE BIG BLUFF**  
 JOHN BROMFIELD  
 MARTHA VICKERS

THURSDAY & FRIDAY

The Spirit of St. Louis  
 THE STORY BEHIND THE STORY!  
 JAMES STEWART  
 ROBERT BURTON - SHEILA BOND - BARTLETT ROBINSON

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**GUN BELT**  
 starring George MONTGOMERY

Plus

ECSTASIES AND EXCITEMENTS!  
**ZARAK**  
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 AUDREY HEPBURN  
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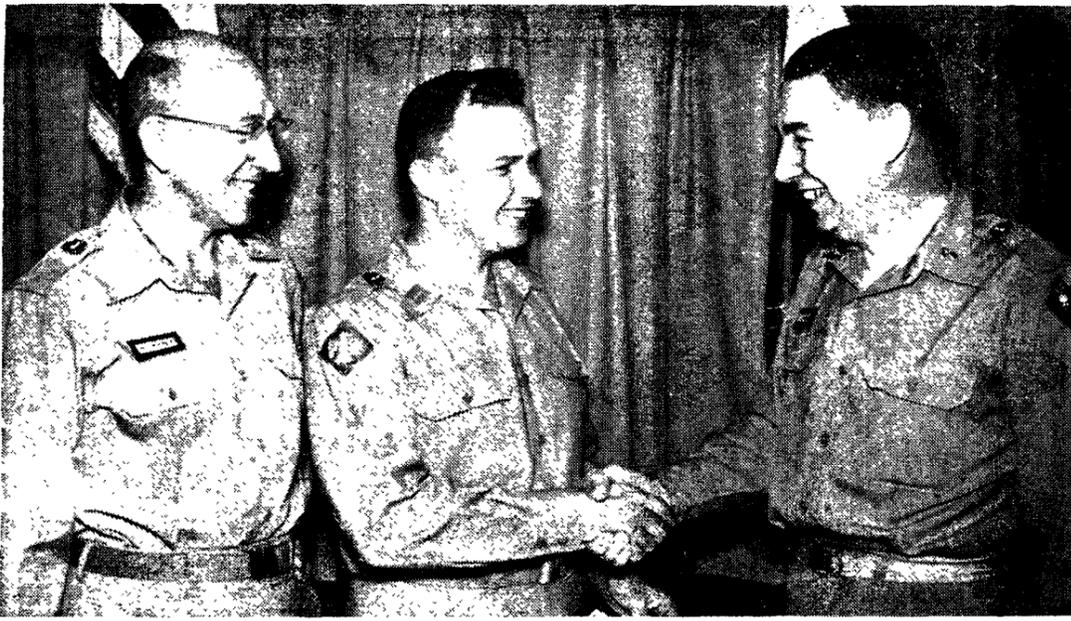
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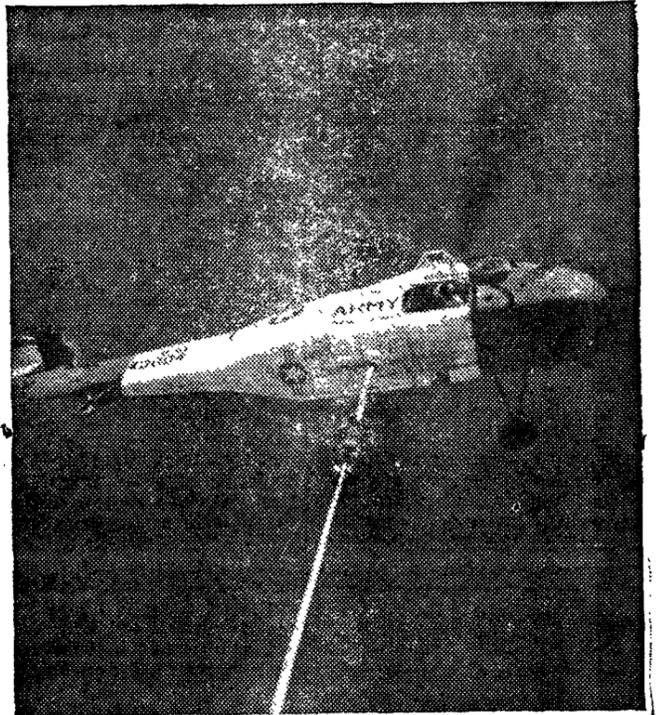
Huntsville, Alabama  
 Tel. Jefferson 4-6458



**TANKS ALOT** — Capt. William R. Gilbanks (center) receives the Armor Center's Certificate of Achievement from Col. Henry S. Newhall, Commandant of the U. S. Army Ordnance Guided Missile School. At left is Lt. Col. Charles E. Michaels, chief of the School's Research and Curriculum Division where Gilbanks is currently assigned. Gilbanks, formerly the Maintenance Officer at the Armor Center, Fort Knox, Ky., received the award for his suggestion and publication of a training manual on the M48A2 tank.



**THE 'ROCKETEEN' BAND** — This group was glad last Spring when school let out, but as summer wore along they looked around for a project and wound up with a band. Organized approximately two months, the "Rocketeers," who have no director, have played engagements at the Service Club, the Noncommissioned Officers Club, and the opening of Lily Flag Acres Swimming Pool, and are auditioning again on the Service Club variety Show Oct. 16. Joan Womack, vocalist (center), recently won a contest on the Atlanta TV program "Stars of Tomorrow." The band members range in age from 13-15. From left to right are: Jim Michard, Harold Womack, Jr.; Ron Selthofer, (a soldier who sat in until they were organized); Joan Womack, Larry Lankford, Mack Birchfield, and Wayne Lankford. With the exception of Selthofer, their parents are military or civilian personnel here.



**STEEPLE-JACKING**—When a 40-mile wind whipped the old rope from the flagpole at Fort Greely, Alaska, and made it impossible to climb the pole to thread a new one, a helicopter was pressed into unusual service. Sergeant First Class George A. Richter, ex-paratrooper, of Chagrin Falls, Ohio, descends for the job.

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9. Change engine oil. (5 quarts).
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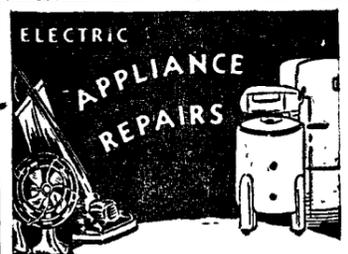
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**BOARD AND TRAINING** of bird dogs \$35.00 per month. Registered pups for sale, pointers and setters. Highway 67, 15 miles east of Decatur. **Russell Johnson**, Somerville, Ala. 1tp

**FOR SALE**— 21 ft. 1957 Bietmore Trailer, full bath, tub and shower, air conditioner, 10 ft. GE Refrigerator, priced at only \$1,950.00. See any time at lot 13 Uptown Trailer Court, Decatur, Ala. 1tc

**FOR SALE**— 7 room brick Veneer house, 2 car attached garage, stone chimney, corner fireplace, situated on 4 acres of land, Highway 72 W., approximately 3 miles from city limits. Phone JE 2-5930 after 5 p. m. 1tc



**SPECIAL SERVICE AWARD** — E. K. Fowler (center), area engineer, receives a special service award from **Col. Arthur Lahlum**, staff representative of the Mobile District Engineer, while **Isaac K. Stewart**, assistant district engineer, listens to the citation. Fowler has been here for seven years. Before that, he spent six years at Memphis and two years at Birmingham as a staff member of the Mobile District Engineer offices. In addition to the engineering duties that normally he handles, his tact and common sense have helped to keep contractor-labor relations smooth on the jobs coordinated through his office. (Photo by Bill Kellar)

**FOR RENT** — Nice, large twin bedroom, private bath, private entrance, gas heat, gentlemen only. Phone JE 4-1594 after 5 p. m. 1tc

**FOR SALE**— 1947 Mercury 4 door sedan, reasonably priced. Call JE 6-3834. 1tc

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14 to choose from located in 100% white community.  
25-acre farm just off Highway 49 between Eva and Cullman. 5 room house with bath, basement, and out buildings, on two school bus routes. \$6,500  
118-ACRES with 40 open land, balance in young timber with old house and barn. Good for summer hideout or hunting lodge with plenty game to hunt \$4,000.  
80-ACRE farm with almost new 2-bedroom house, 1-4 mile off new state Highway 49, with 35 acres open, balance in nice pine timber, spring in pasture. \$6,500  
If interested in a quiet place to live or retire, see me.  
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### Attendance Awards Given to Accountants

At a recent meeting of the North Alabama Chapter of the National Association of Accountants, several members were presented awards for perfect attendance at all technical sessions held last year and in prior years. Those recognized for one year of perfect attendance were, **J. G. Thomas**, Huntsville; **M. W. Freeman**, J. T. Jones, J. W. Turbyfill and **G. A. Moore**, Decatur; **R. Z. Hinz** and **J. F. Wylie**, Sheffield. Having two years of perfect attendance were **S. A. Veatch**, Huntsville; **H. P. Henderson**,

**Sheffield**; and **N. M. Graham**, Florence. Three years of perfect attendance—**J. G. Shaw**, **F. J. McLaughlin**, and **C. H. McBride, Jr.**, Decatur; and four years of perfect attendance—**F. W. Hayes**, Huntsville, **R. B. Sampson**, Florence, **C. D. Reeves**, and **H. E. Burleson** from Decatur.

**LADIES**— For your Luzier's cosmetics consult with **Mrs. Geneva Boyd**, Phone JE 4-4701. 1tc

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## NATIONAL SCIENCE FOUNDATION SENDS 800 TEACHERS BACK TO SCHOOL

As the Fall school term opens this year, some 800 high school teachers of science and mathematics themselves are returning to school for a concentrated year of study.

Under the sponsorship of the National Science Foundation, 16 universities geographically distributed throughout the country will be offering specially designed courses to bring selected high school teachers up to date in the various fields of science and in mathematics.

The program, costing approximately \$4½ million, has been developed by the Foundation in response to the express desire of Congress that the Foundation make a broad frontal attack in meeting the need for improved teaching of science and mathematics at the high school level.

Universities participating in the program are as follows: Chicago, Colorado, Harvard, Illinois, Ohio State, Michigan, North Carolina, Oklahoma State, Oregon State, Pennsylvania State, Stanford, Texas, Utah, Virginia, Washington University at St. Louis, and Wisconsin.

Within a very general framework prescribed by the Foundation, each university has planned and developed the type of institute best suited to its own staff and facilities. In addition to the special year of intensive training, the courses in most instances also carry full academic credit.

High school teachers selected to participate in the institutes will receive stipends of \$3,000, plus an allowance of \$300 for each dependent, up to a maximum of four. Additional allowances include travel, up to a maximum of \$60 for each of two trips from the teacher's home to the institute, and funds for tuition and books. Financial assistance of this type represents the only means by which the majority of high school teachers can take time off for their own improvement.

Most of the participating universities are offering courses for the teachers in biology, chemistry, mathematics, and physics, plus some supplementary work in education. Some of the schools are also including courses in the history of science. In addition to regular lectures and laboratories, many of the institutes include seminars and special series of lectures by distinguished scientists and mathematicians. Lectures will be devoted to such current topics as the International Geophysical Year, progress in the conquest of disease, utilization of nuclear energy, and others. In one university, opportunity will

In laboratories and similar enterprises the Army last year placed almost 2500 contracts of \$10,000 and over to support the research and development requirements of the Army of the future.

The Army was established, under the direction of Gen. George Washington, June 14, 1775.

be afforded the student teachers to observe modern teaching methods in one of the regular courses of the university.

Many teachers will be introduced for the first time to modern, large-scale research facilities including the cyclotron, van de Graaff generator, radiotelescope, mass spectrograph, high-speed computer, electron microscope, cryogenic laboratories, and so on.

The 800 teachers who have been selected to participate in this first large-scale program of academic-year institutes were chosen from among teachers with at least three years' experience in teaching. Consideration was given to their ability and general aptitude for teaching.

The growing demands for scientists and engineers have served, in recent years, to focus public attention on the critical need for effective preparatory work in the nation's secondary schools. Studies of the situation have revealed that many high school teachers are being called upon to teach the sciences and mathematics without having been ade-

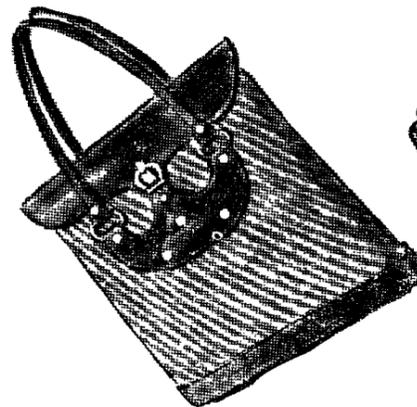
quately trained in these fields themselves; in some instances teachers are called upon to teach subjects in which they have had no previous training. Heavy teaching schedules and endless demands upon their time for extra-curricular activities have left teachers little time to improve their own knowledge of science. Low incomes have forced a great many high school teachers to supplement their incomes with summer work, usually unrelated to their teaching programs.

The academic-year institutes sponsored by the Foundation are in addition to its larger program of summer institutes. During the summer of 1957, some 5,000 high

school teachers attended 91 summer institutes at colleges and universities throughout the U. S., averaging between six and eight weeks. These institutes, also, were designed to bring to secondary-school teachers some of the recent developments in science and mathematics. The participating teachers have indicated enthusiastic appreciation for the opportunity thus afforded for renewed contacts in their fields.

The Foundation is also sponsoring, for the first time this fall, a series of 21 in-service institutes, to be conducted by a number of colleges and universities, after hours, for teachers in the vicinity.

# Accessories in the "SPOT" light



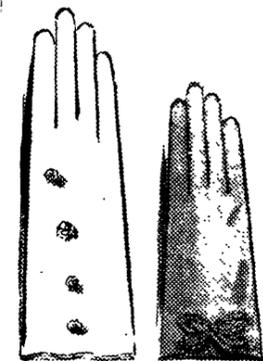
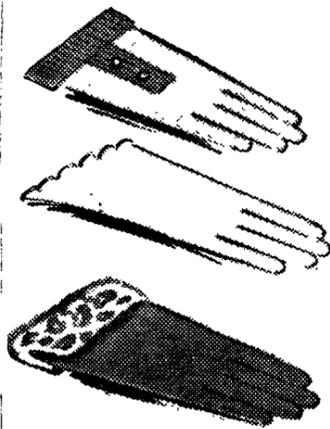
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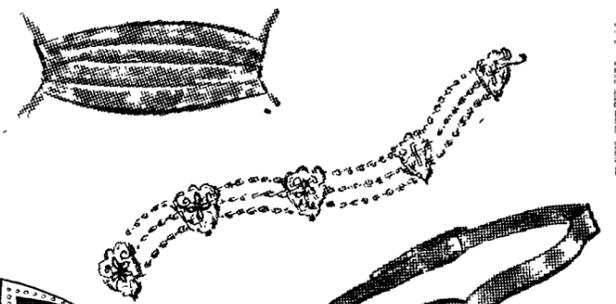
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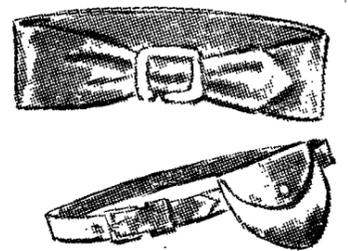


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