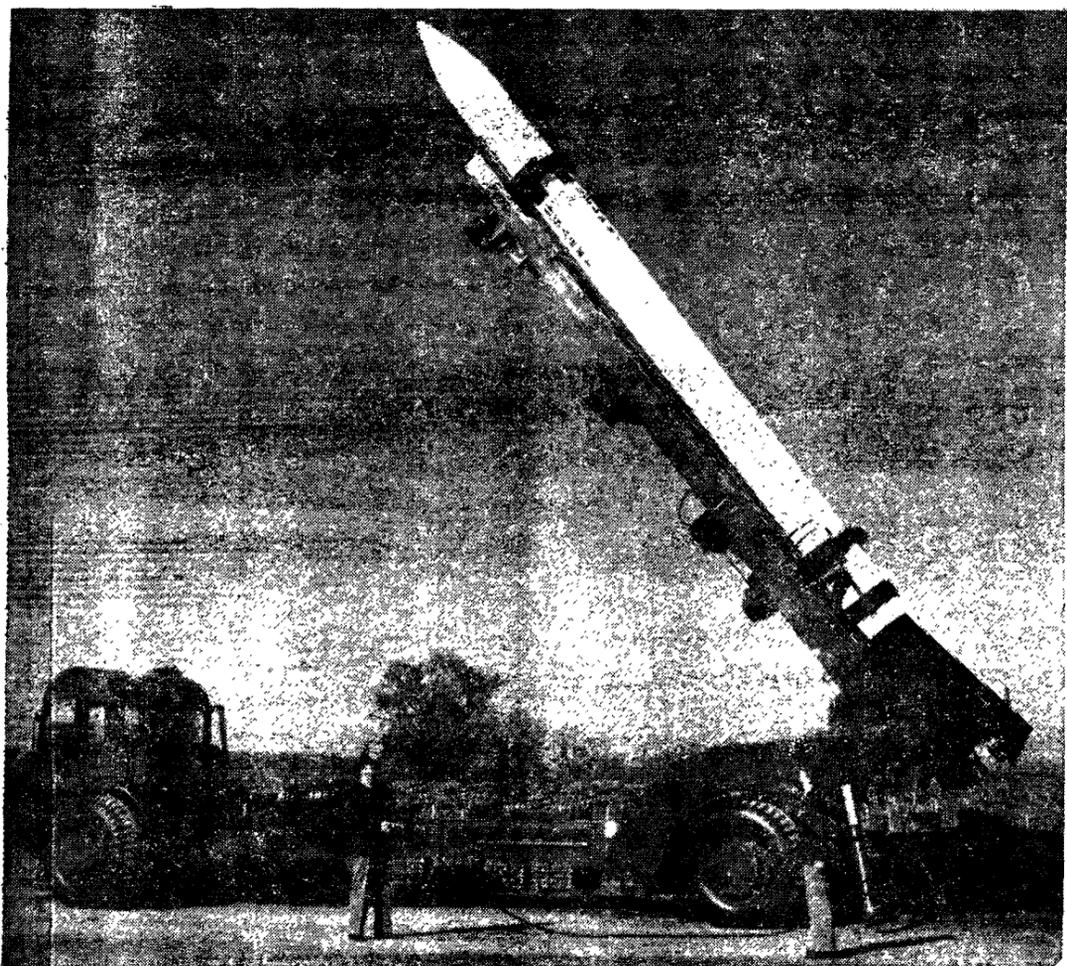


**REDSTONE BECOMES RAILBORNE** — SP2 Henry A. Henderson of the 217th Field Artillery Missile Battalion (Redstone) skillfully backs the 80-foot Redstone transporter up on two Army flat cars which will carry the huge missile to Washington for the President's Inaugural Parade. The 217th, first operational Redstone unit, is undergoing cadre training at the Army Ballistic Missile Agency, Huntsville, Ala. (Photo by Carl Pickens).



**POINTING TOWARD PARADE**—A final inspection is given this newly-painted Corporal guided missile and transporter from Redstone Arsenal before shipment to Washington for display in the Presidential Inaugural Parade. Checking the missile out are Lt. Benjamin A. Bean, left, and Lt. Alan L. Compton, both from the Arsenal's Field Service Division.

## 86 Pct. of Ballistic Missiles Procurement By Private Industry

Eighty-six percent of the nation-wide procurement for the Army's ballistic missile programs since Feb. 1, 1956, has been placed with private industry.

Maj. Gen. J. B. Medaris, commanding the Army Ballistic Missile Agency, explained the programs involved are those of the Redstone medium range and the Jupiter intermediate range ballistic missiles. The Agency is developing both.

While the Redstone's range has not been disclosed, Jupiter is to have a capability of approximately 1,500 nautical miles.

The Missile Agency issued contracts representing 2.87 percent of the total dollar volume to universities and research institutions. Nearly 5 percent went to small business. Many other small firms participate in the program through sub-contracting by prime suppliers.

Air Force research facilities received 1.05 percent of the dollar value of contracts and Navy installations received 1.57 percent. Ordnance Corps arsenals were allotted 4.02 percent.

Geographical dispersion of the procurement is indicated by the award of 60 procurement actions, representing 60.62 percent of the total since July 1, 1956, to contractors in the area served by the Detroit Ordnance District. Twenty-five percent, or 104 contracts were placed through Los Angeles Ordnance District and nearly 9 percent, or 58 contracts, through New York Ordnance District. The Chicago Ordnance District placed 38 actions, 1.46 percent of the total.

Lesser amounts in dollar value were awarded to industries in areas served by Birmingham, Cleveland, Rochester, Cincinnati,

San Francisco, Philadelphia, Springfield, Boston, St. Louis and Pittsburgh Ordnance Districts.

Gen. Medaris said that through prime contractors, first tier sub-contractors or other purchase actions, firms in all 48 states are supporting the Army missile development and production enterprise.

## 3 NEW COURSES ADDED BY OGMS

(Photo Inside)

Army officer guided missile training has taken a major stride toward the future with the addition of three new courses of instruction at the Ordnance Guided Missile School.

The three courses, representing a new approach to the training of officers in the guided missile field, fill requirements created by further developments and emphasis on this field of the future.

"There is more to pushbutton warfare than merely pushing a button," said Colonel Henry S. Newhall, commandant of the school. "The Ordnance Corps has an ever increasing need for trained officers to supervise the supply, maintenance, and repair of guided missiles, and we believe we can fill this need with our three new courses."

Brig. Gen. George W. White, Assistant Chief of Ordnance for Manpower, officially opened the courses by addressing the combined classes of 50 hand-picked student officers as well as the staff and faculty of the school. Gen. White was accompanied on his visit by Brigadier General Francis J. McMorro, Commanding General of the Ordnance Training Command, and Brigadier General Richard D. Meyer, Chief of the Plans Division, Office, Deputy Chief of Staff, Logistics, Department of the Army.

The three courses, representing an entirely new approach to guided missile officer training, will for the first time give detailed training to field grade (majors and colonels) Ordnance officers, as well as company grade (lieutenants and captains) officers in the guided missile field.

And, also for the first time, special weapons (nuclear and atomic materials), as they apply to guided missiles, will be stressed in the new Ordnance Staff Officer Guided Missile and Special Weapons Course for field grade officers.

The other two courses are Ordnance Associated Guided Missile Company Grade Officer Courses. One course specializes in field artillery guided missiles; the other in anti-aircraft guided missiles, as opposed to the higher echelon Staff Officer course which covers all Army missiles.

The Staff Officer course will prepare its graduates for duty as executive officers, operations officers, and commanding officers of battalions and groups, and staff officers of higher headquarters.

Graduates of the Company Grade Officer courses will be qualified to handle such assignments as commander of an Ordnance guided missile support unit, liaison officer, battalion staff officer, or instructor.

All three courses will be taught (See 3 NEW on Page 2)

## FUND DRIVE CHECK IS PRESENTED

(Photos Inside)

Cash and pledges totaling \$70,495.41 were presented last week to the Huntsville-Madison County United Givers Fund by Maj. Gen. H. N. Toftoy in behalf of employees of all activities at Redstone.

Gen. Toftoy, as arsenal commander and honorary chairman of the One-Time Drive, gave the contributions to Judge Ashford Todd, United Givers Fund campaign chairman.

The brief ceremony at the arsenal marked the conclusion of the installation's first One-Time Drive, in which nearly twice as much money was contributed than in nine separate fund campaigns conducted last year.

Broken down, contributions were:

\$42,554.99—cash presented yesterday.

\$833.05—cash previously transmitted.

\$19,233.97—pledge cards.

\$7,873.40—payroll deductions.

United Givers Fund will be responsible for collecting pledges Chairman Kermit Day of the One-Time Drive today urged all employees on the post to submit their pledged contributions directly to the United Givers Fund Room 202, Elks Building, Huntsville.

The payroll deductions represent donations by Rohm & Haas and Thiokol employees and the companies themselves. This money will be transmitted periodically throughout the year.

There was an additional \$5,000 raised during the One-Time Drive for the use of the Joint Activities Council at the arsenal, making a grand total of \$75,495.41 contributed for health, welfare and recreation programs by the employees of the installation.

Taking part in the drive were the five major units on the installation: Redstone Arsenal, Army Ballistic Missile Agency, Ordnance Guided Missile School, Thiokol and Rohm and Haas.

## \$3 Million Saving In 3 Months Seen From Suggestions

The Army Employee Suggestion Program is expected to save an estimated \$3,000,000 as a result of suggestions submitted by military and civilian personnel during the first three months of Fiscal Year 1957, the Department of the Army has announced.

A total of 16,989 proposals were received from Army employees throughout the world under a program which urges all civilian, officer and enlisted members of the Army to submit ideas for the promotion of efficiency and economy.

Of this number, 4,579 suggestions were adopted for an estimated first-year savings to the Army of \$3,054,244.

In return, 3,700 Army civilian employees received a total of \$102,331 for their ideas, all of which were screened by committees at various installations.

During the same period, 879 military personnel submitted adoptable suggestions. Some officers and enlisted men may receive letters of commendation and, in certain cases, be awarded the Army Commendation Ribbon with Metal Pendant.

(See \$3 MILLION on Page 3)

## Area Wage Survey Set

The Army-Air Force Wage Board, Washington, D. C., will organize and conduct a Wage Survey for the Huntsville locality to begin today according to Stuart H. Jones, director of civilian personnel, Redstone Arsenal.

The purpose of this survey is to obtain from private industrial establishments in the area information concerning any wage changes that they may have had since last Army-Air Force Wage Survey in January 1956. The area to be surveyed will include Decatur, Ala., the Tri-Cities, Tullahoma, Tenn., and surrounding areas.

It is the policy of the Army-Air Force Wage Board that rates of pay for hourly employees of the Departments of the Army and Air Force will be established at a comparable level to that paid by private industry for similar work.

In accomplishing this survey members of the survey team will make personal visits to industrial establishments within the locality and will gather wage rate information which pertains to a representative sampling of jobs. After the necessary wage data has been obtained, the Army-Air Force Wage Board will establish

a wage rate which will be applied to all hourly employees of all Army and Air Force establishments (See AREA on Page 2)

## TUITION AID PLAN IS STARTED HERE BY ROHM & HAAS

(Photo Inside)

Tuition Aid checks were handed out recently to twelve employees of the Redstone Arsenal Research Division of Rohm & Haas Company, who were initial participants in the Tuition Aid Program.

The Tuition Aid Program was established throughout Rohm & Haas Co. in September, 1956, and is designed to encourage and assist those employees wishing to obtain further education.

It is the hope of Rohm & Haas that the plan will help employees prepare themselves for greater responsibility and enable them to accept opportunities for progress as they arise.

Courses can be taken at accredited schools, colleges, universities and trade schools as well as approved correspondent courses or extension courses.

## Mello Heads Civil Service Board Here

Robert F. Mello, director of civilian personnel for the Army Ballistic Missile Agency, has been named chairman of the local Board of Civil Service Examiners.

Mr. Mello will serve for the calendar year 1957. He succeeds Stuart Jones, Redstone Arsenal civilian personnel chief.

The board meets monthly and serves both Redstone and ABMA.

# The Redstone Rocket

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

The Rocket is NOT an official or semi-official Army or Ordnance Corps publication. Policies and statements reflected in the news and editorial columns represent the views of the individual writers and are not necessarily those of the Department of the Army, the Ordnance Corps, or Redstone Arsenal. Appearance of advertisements in the Rocket does not constitute an endorsement of the advertising matter by the Department of the Army, the Ordnance Corps, or Redstone Arsenal.

The publisher will receive editorial content for publication in the Rocket only through the Public Information Office, Redstone Arsenal, Bldg. A-101, Extension 2212 or 2704. All advertising copy and payments therefor are received by Mrs. Zillah Newsome, 308 E. Holmes St., Huntsville, Ala., telephone JE-44701, as representative of the publisher.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$3 a year, or \$1.75 for six months. Mailing arrangements may be made with the publisher.

## Area

(Continued From Page 1)

within the locality. The rates resulting from this survey will not affect Classification Act (Annual Employees), as rates for these employees are established by the Congress.

## 2,300 Positions In Foreign Service Open to Citizens

Washington (AFPS) — Career appointments to 2,300 new positions in the Foreign Service of the State Department have been opened to qualified U. S. citizens over 21 years old.

Under legislation passed by the 84th Congress, starting salaries now range between \$4,750 and \$5,350 a year.

Young men and women for stateside and overseas assignments in the expanding Foreign Service Corps will be selected through annual competitive examinations to be given this year on Dec. 8 in 63 cities and U. S. possessions.

Candidates must request application forms from the Foreign Service Board of Examiners, Washington, D. C., prior to Oct. 26 in order to take the three-part tests at Civil Service Examination Centers.

According to the State Department, 250 junior officers will be named each year for a wide variety of consular and diplomatic posts offering exceptional promotion possibilities.

"New Opportunities in the U.S. Foreign Service," a State Department pamphlet giving additional information on the program, is available in all major commands to servicemen being separated from the armed forces.

Friendship is the only cement that will ever hold the world together.

## 3 New

(Continued From Page 1)

with the presumption that the students have no previous guided missile or electronics training, thus drawing outstanding officers from other fields and giving them the knowledge with which to supervise an Ordnance guided missile unit.

The Staff Officer Course opens with a week concerning the role of Ordnance in guided missiles and special weapons, followed by three weeks of electronics fundamentals, four weeks of anti-aircraft missiles, four weeks of field artillery missiles, one week of special weapons systems, and four weeks of logistics.

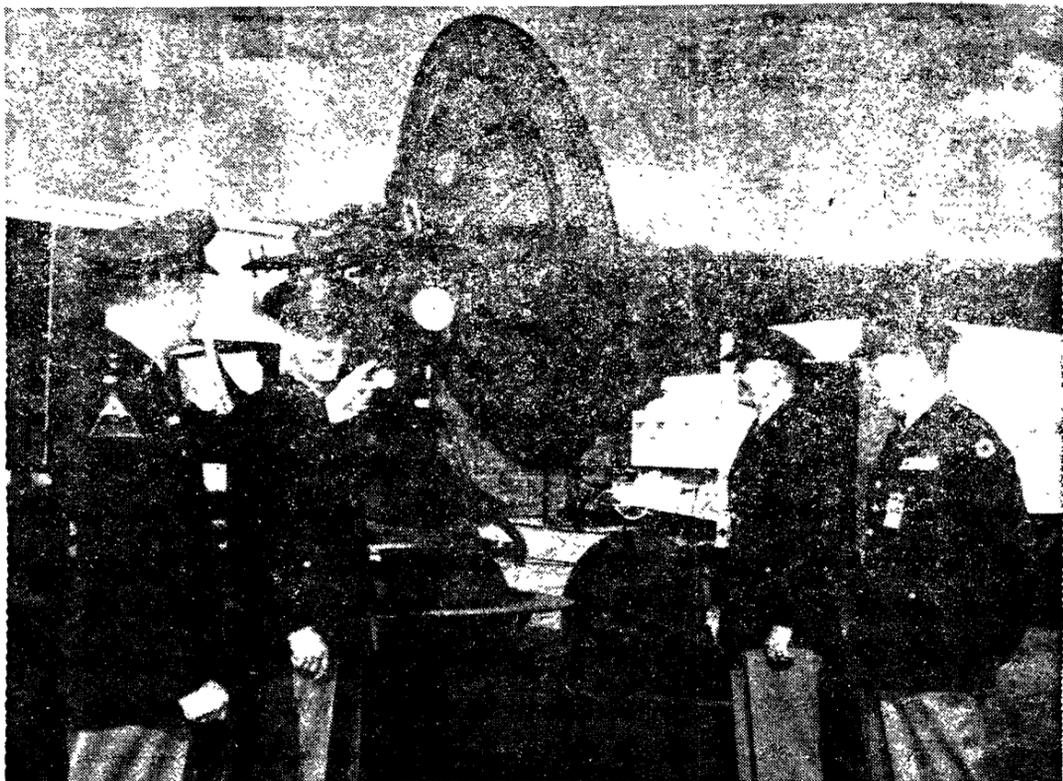
Both Company Grade courses open with eight weeks of electronics fundamentals and conclude with two and one week blocks of future missile systems and logistics. Sandwiched in between is eight weeks specialization in either anti-aircraft or field artillery missiles, depending on the course.

The class size is 15 officers in each of the Company Grade courses, and 20 officers in the Staff Officer course. Frequency of the classes is expected to be every 20 weeks for staff officer classes, and every 10 weeks for company grade classes.

Not including the three new courses, the Ordnance Guided Missile School teaches 14 other courses for enlisted men and officers and has an average load of approximately 400 students. The school teaches courses in the NIKE-AJAX, CORPORAL and REDSTONE missile systems with plans for further expansion including the NIKE-HERCULES, HAWK, DART, LACROSSE, and SERGEANT missile systems.

Business is exactly like a wheelbarrow — if you don't push it, it sure won't go.

It is much better to sit tight than to attempt to drive in that condition.



OGMS VISITORS—Brigadier Generals Francis J. McMorrow (second from left) Commanding General of The Ordnance Training Command, and George W. White (second from right), Assistant Chief of Ordnance for Manpower, inspect a CORPORAL Ground Station Radar Antenna during their recent tour of the Ordnance Guided Missile School. Explaining the equipment is Major Arthur F. Pottle, Jr., (left) Chief of the school's Surface to Surface Missile Division. At right is Colonel Henry S. Newhall, Commandant of the school.



CULPS RECEIVES CERTIFICATE—(Left to right): Maj. Gen. H. N. Toftoy, commander of Redstone Arsenal, congratulates Mr. Marvin M. Culps to whom he presented an outstanding award certificate. The award was recommended by his supervisor, Mr. Melvin W. Lawley, through the Post Engineer, Mr. Otto P. Kohler. Mr. Culps' award covered the period from Sept. 30, 1955 through the ensuing year. He has been an employe here since construction began and has been late only once in spite of living at Athens and having to allow for flooded roads after heavy rains. His one defection happened during World War II. A tire blew. He had to get a replacement in Huntsville before continuing his journey to the arsenal. The outstanding performance certificate says that Mr. Culps' initiative, leadership and analytical ability have proved him a very valuable employe. (Photo by Carl Pickens).

## Infantry School Officials Visit ABMA

Official visitors to ABMA last week were Maj. Gen. Herbert B. Powell, commandant of the Infantry School, Ft. Benning, Ga.; Brig. Gen. Earle F. Cook, assist-

ant commandant; and Col. Ortrio flew in Thursday for a brief orientation tour of the Agency.

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**TUITION AID CHECKS**—"Congratulations," says Allen Deschere, general manager, as he passes out Tuition Aid checks to 12 employees of the Redstone Arsenal Research Division of Rohm & Haas Co. These employees who successfully completed courses during the fall semester at the Huntsville Extension Center of the University of Alabama are left to right: James E. DeMore, William G. Bureson, Eugene T. DeRieux, Edwin T. Fulton, Charles H. Parr, William H. Groetzing III, Daniel Nevels, Alvie L. Hoover, Charles E. Green, Curtis Chandler, Dianne Jackson, and Cecil R. Walker.



**FIRE-WATCHING DELUXE**—The Army Ordnance Corps has put television to work spotting fires atop the 29-acre roof of its Cleveland plant. Warm and dry in the protection office, this civilian employee can control the cameras or sound an alarm with the flip of a switch. He replaces four guards at a saving of \$21,000 annually.

**\$3 Million**

(Continued From Page 1)

One of the largest cash awards within this period went to Malcolm R. Ingram (574 Cantrell, Milan, Tennessee) of Milan Arsenal, Tennessee, for suggesting certain mechanical changes in the processing of M-24 truck booster bodies. Mr. Ingram received

**TV CAMERAS ARE NIFTY FIREGUARD ON FACTORY ROOF**

Cleveland, Ohio — Seated in the basement of a windowless plant, a man watches for fires on the roof. His "eyes" are closed-circuit television.

This new wrinkle in fire protection is located in the Army Ordnance Corps' Cleveland plant. It consists of two remote-controlled TV cameras mounted on the roof of the sprawling structure and a pair of 17-inch receivers in the plant protection office.

Dreamed up by plant officials, the idea was promoted by Harry Goodwin, Cleveland Ordnance District security officer, as an economical method of giving maximum protection with minimum personnel. Fire spotting on the 29-acre roof is around the clock and seven days a week. Formerly a guard was stationed there at all times. This was a full-time job for at least four guards.

Now watching the roof fires is just an additional duty for the operator of a fire reporting and call-box system in the plant protection office. Annual savings on wages and fringe benefits—roughly \$21,000—will pay for the \$20,000 television system in less than a year, Goodwin estimates.

The two cameras are mounted on towers built on the roof at two corners of the building. The cameras are equipped with Zoomar lenses which let the operator shorten focal length for close-up pictures. They are encased in water-proof housings,

\$475 for his suggestion, which is expected to save the government \$74,000 the first year.

A cash award of \$300 was presented to Bernard Simonson (Deale, Maryland) of the Army Signal Communication Engineering Agency, Washington, D. C. He recommended the procurement of telephone protectors from the manufacturer fully equipped rather than buy them separately and install them at military installations.

have windshield wipers to clear lenses of rain and mist, and sunshields to ward off glare when shooting into the sun.

Each camera sweeps half the roof. They operate independently of each other, but controls for both are mounted on a panel within easy reach of the operator.

Operation is automatic as cameras sweep back and forth. But the operator can also stop, tilt, or focus them; shorten the focus for closer inspection of particular areas; turn on the windshield wipers; and swing the cameras around to cover the parking lot and remainder of the plant ground.

Thus far there has never been a roof fire at the plant, but if there is one, the operator will spot it on the TV screens and sound the alarm in a matter of seconds. Roof-top equipment is plentiful with hose houses and hydrant extensions.

Though there are no floodlights atop the plant, nighttime spotting is no problem. Boundary lights around the edge of the roof and lights in the two abandoned guardhouses serve as reference points.

**Citizenship Course For Foreign-Born Set By U-A Center**

A course in Citizenship for the foreign-born has been announced by the University of Alabama, Huntsville Center.

The University of Alabama, in cooperation with the Immigration and Naturalization Services, makes these classes available as a public service to persons preparing to complete requirements for naturalization as American citizens. It is to be pointed out that future citizens are not required to take these courses. They have been found helpful to many.



**"CREEPY-PEEPY"**—Or that's what soldiers are calling this hand-held television camera and back-carried transmitter. Scouts can take pictures of action a mile off with the 8-lb. camera, transmit clear images to a command post through the 47-lb., self-powered transmitter. This is a Signal Corps-RCA development.

Registration for this class begins Tuesday, January 15, at 9 a.m. at the University of Alabama Center office in Butler High School, West Clinton Street. There is no charge for this course or the text.

This class meets at 8 p.m. each Thursday beginning January 17, and continues through February 21.

Persons desiring further information may call University Center Office, Telephone Jefferson 6-1596.

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**DISCUSS HARMONY**—Mrs. Jean Martin (left) and Mrs. Charles E. Michaels discuss the harmonious color theme which Mrs. Martin chose as one of the sample room schemes she discussed at the meeting of the Officers Wives Club last Tuesday. Mrs. Michaels served as program and decorations committee chairman for the monthly event. (Photo by Sgt. Cox)

**Officers Wives Club Hears Talk About Interior Decorating**

The Officers Wives Club of Redstone Arsenal held their monthly luncheon meeting at the Officers Open Mess last Tuesday. "Winter Wonderland" was the decoration theme for the day with the club decorated with silver snow flakes and icicles. Miniature "snowmen" were prominent on the many tables set up for the luncheon.

Mrs. Robert W. Martin, of Martin Interiors of Huntsville, was the principal speaker of the day. Mrs. Martin was assisted by Mrs. Helen James. Both Mrs. Martin and Mrs. James were introduced to members of the club by Mrs. Henry Newhall, wife of the com-

mandant of the Ordnance Guided Missile School.

Mrs. Martin spoke on interior decorating in the home with particular emphasis on the coordination of colors.

Hostesses for the event were wives of the officers of the Ordnance Guided Missile School. Chairman for the occasion was Mrs. Charles Michaels.

**U. S. GIs in Germany Supply Glasses to DP**

NELLINGEN, Germany — 8-year-old Dianne Geisler is able to see much better now.

Because she can, the men of Company C, 94th Engineer Construction Battalion, couldn't be happier.

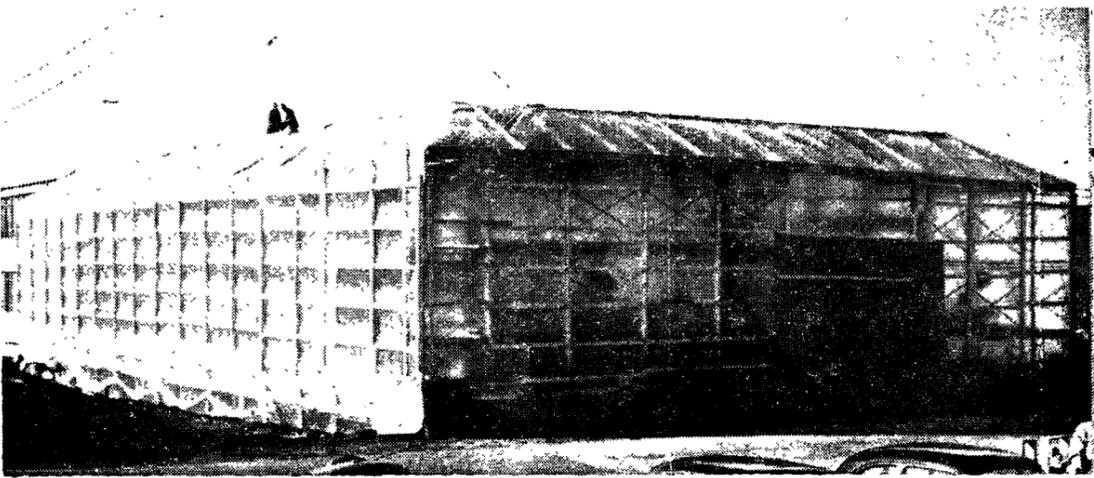
Dianne is a Displaced Person. She lives in a camp here with her foster parents, Mr. and Mrs. Hans Geisler.

Mrs. Geisler works here for American families. She mentioned Dianne's eye trouble to some of the soldier families, pointing out there was no money for an eye examination for Dianne, or for the badly-needed corrective glasses.

The men of Company C went to work immediately, raised a fund of \$110, had Dianne's eyes examined, and bought the special glasses for her.



**ARMY CHIEF OF NURSES HERE**—Col. Inez Haynes, the chief of Army nurses (second from left) visited Redstone Arsenal briefly last week. She is shown here with Maj. Gen. H. N. Toftoy and (left to right) Lt. Col. Ruby G. Bradey, who accompanied her from Washington; Capt. Christine Cox, chief of Redstone's nurses service; and Lt. Col. O. Hiram Cowart, post surgeon. Col. Haynes left Redstone to visit Ft. McClellan, Ala.



**'UNDERCOVER WORK'**—It's masonry work as usual at the Army Ballistic Missile Agency, even when the temperature skids below 40 degrees. The above building was put "under wraps" so that work could continue.

**BUILDERS THWART COLD WEATHER WITH PLASTIC 'BAG'**

How to carry on masonry work while the mercury drops below freezing is being demonstrated at the Army Ballistic Missile Agency.

The Agency is putting up a two-story addition to its Guidance and Control Laboratory. It measures 104x50 feet and is 26 feet high.

When cold weather struck northern Alabama last week, it became evident that laying of concrete block in the walls would have to stop. A temperature of 4 degrees is the minimum at which cement can be worked.

The Agency wanted the work finished as soon as possible because it is developing the Jupiter intermediate range ballistic missile on a crash basis.

Job Supt. C. B. Miller of the contracting firm of Butler & Cobbs, Montgomery, Ala., came up with the answer. He bought polyethylene film in sheets measuring 100x28 feet, rented scaffolding from an Atlanta, Ga. firm, obtained wood framing and put a crew to work. Within five hours they had completely enclosed the steel-framed structure with light, transparent plastic material.

The sun's heat, plus heat produced by an electric unit inside the greenhouse-like "building", pushed the temperature up to a comfortable working level. Though the mercury hovered at the 30-degree mark outdoors, masons continued troweling on mortar and laying up concrete block inside.

Regarding his project with a smile of satisfaction, Miller pointed out that the roof has already been tarred and that work can proceed now regardless of rain or cold.

His firm thinks so well of the plastic bubble treatment that it will be used on other construction jobs at the Missile Agency when the present work is finished.

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# Two Million Dependents Eligible For Medical Care Act Benefits

HEADQUARTERS, THIRD ARMY, Fort McPherson, Ga. — Two million dependents of uniformed American servicemen all over the world became eligible for civilian medical care at government expense recently, when the Dependents' Medical Care Act went into effect.

Wives, dependent husbands and children of active duty members of the Army, Navy, Air Force, Marine Corps, Coast Guard, and dependents of commissioned members of the Public Health Service and Coast and Geodetic Survey are now eligible for civilian medical care.

As of this writing, 42 states plus Hawaii, Alaska and Puerto Rico have signed contracts with the government under which civilian physicians will be able to attend military dependents.

The Army, which is executive agency for the dependents' medical care program, said today that contracts are still being negotiated with six states: Alabama, Texas, Rhode Island, Ohio, Maine and Idaho.

(Medical officials at Headquarters Third Army anticipate that a contract with Alabama will be negotiated in the very near future.)

The Act, which the military has described as one of its greatest career incentive boosts in many years, was signed into law by President Eisenhower on June 7, 1956, to become effective December 7th.

There are many details about the program which will resolve themselves in a matter of time, but here are the major features of the Act.

ONLY dependent wives, husbands and children of active military personnel can receive civilian medical care under the program.

Other dependents — dependent parents, dependents of persons who died while on active duty, etc.—will continue to be treated at service hospitals.

In most instances a military dependent will have to pay to a hospital \$25 for each admission. The government will pick up the tab for the rest of the bill.

Except for injuries where emergency treatment is necessary, outpatient care is NOT authorized at civilian hospitals.

Dental care can be provided only for facial injuries or as a necessary part of hospital treatments.

At the present, there exists for eligible dependents a free choice of either civilian or military medical care, although there may be exceptions later on.

However, the services will encourage dependents to continue using available military hospital facilities; the new program's basic aim is to aid those who do not have access to such facilities.

(To support this basic aim, Washington recently pointed out that about 40 percent of the eligible military dependents have found medical treatment completely unavailable in recent years, either because there were no military hospitals in their area or because the ones that were there were too crowded to accept them.)

One of the most important aspects of the program is expected to be the fact that complete maternity care for military dependents is now authorized from civilian sources.

By "complete", the Dependents' Medical Care Act means "prenatal care, delivery and postnatal care", including newborn infant care at government expense for 60 days after delivery.

If a serviceman dies while his dependent is hospitalized, government care continues. A wife in a civilian hospital at such a time may be transferred to a military hospital.

The government provides eligible dependents semi-private rooms while they are confined to civilian hospitals. If a patient desires a private room, he must pay the "difference between private room charges and weighted average cost of semi-private room charges." If the physician orders the private room, the dependent pays only 25 percent of the additional cost. If a patient desires private nursing care, over and above normal nursing care, the patient must pay the first \$100 and 25 percent of all charges over \$100.

Diagnostic tests and procedures including lab and X-ray exams are authorized at civilian facilities in connection with hospitalization.

Dependents are not authorized civilian medical treatment at government expense for normal chronic conditions, mental diseases, "elective" treatment, domiciliary care, most outpatient care, ambulance service and home calls.

Military dependents do not have to get permission from a military hospital authority to get authorized civilian medical care. They need only to present their proper identification cards (Privilege Identification Card (DA Form 999) or Dependents' Identification Card (DD Form 720) to a civilian hospital or doctor to get proper care.

HOWEVER, and Department of Defense has repeatedly stressed this point for military dependents to remember, "dependents selecting civilian physicians should insure that the physician has agreed to and will abide by the fee schedule for his area"; otherwise the dependent must pay the entire bill.

Headquarters Third Army this week announced the names of the firms in each Third Army Area state which will process bills coming to the government from hospitals and physicians in the area.

Hospitals in North Carolina will send their bills to The Hospital Saving Association of North Carolina, Chapel Hill; in South Carolina to the South Carolina Hospital Service Plan, Greenville; in Georgia and Florida to The Mutual Benefit Health and Accident

## Soldier Wins Battle Of Big Horn—Sheep

FORT CARSON, Colo. — The Battle of the Little Big Horn made history in the expansion of the West. The Battle of the Big Horn here recently made history for Specialist Third Class Leonard L. Kiser of Headquarters Company, 7th Transportation (Truck) Battalion.

Kiser went hunting for Bighorn sheep in the rugged mountains of Miller Canyon, 19 miles south of Canon City.

The 24-year-old sharpshooter from Central City, Pa., hit the first ram he saw in the neck but the sheep continued to run and disappeared across the canyon. With some fine detective work the next day, Kiser followed the blood trail to the dead animal.

When he brought the ram in he found that the measurements of its horn far exceeded the standards set by the Boone and Crockett Club, a nation-wide organization for recording game registration.

Further statistics showed the ram to weigh approximately 200 pounds; greatest spread, 21 1/4 inches; tip to tip spread, 20 1/2 inches; length of right horn, 39-3/8 inches; left horn, 38-7/8 inches; circumference at base of right horn, 15 3/4 inches; and left horn, 15 1/2 inches.

## Full-Time Soldier Has Part-Time Job As Country Pastor

FORT HOOD, Tex. — A clerk-typist for the Army during the week, Private First Class Clyde N. Austin doffs his khaki on Sunday and assumes the mantle of minister at the Church of Christ in nearby Copperas Cove.

The 23-year-old soldier from

Association, Omaha, Neb.; in Alabama to the Blue Cross-Blue Shield of Alabama, Birmingham; in Mississippi to the Mississippi Hospital and Medical Service, Jackson; and in Tennessee to the Tennessee Hospital Service Association, Chattanooga, or to Memphis Hospital Service and Surgical Association, Memphis.

Doctors in Third Army states will submit their bills for services rendered under the Dependents Medical Care Act as follows: North Carolina, Hospital Savings Association of North Carolina South Carolina, South Carolina Medical Care Plan, Greenville.

Georgia — Medical Association of Georgia, Atlanta; Mississippi, Mississippi State Medical Association, Jackson; and Tennessee — Tennessee Hospital Service Association.

(The receiving offices for doctor bills in Alabama and Florida have not been determined as of this writing. Physicians in these two states may obtain information about the Dependents Medical Care Act from their county or state medical societies).

Detailed information on the Act is available to all military dependents at any active military installation.



TRADE SCHOOL GRADUATE—Robert Mack Freeman is typical of the many area residents who have taken advantage of the instruction offered at the State Vocational Trade School at Decatur, and "parlayed" their education there into good jobs with the arsenal. Mr. Freeman came to the post last September after making a record as one of the Trade School's most outstanding students in both scholarship and leadership, according to school officials. Mr. Freeman is a resident of Falkville, Ala., and a native Morgan County. He is married and has two children. In 1933 he graduated from Falkville High School, where he participated in track, football, basketball, and baseball. A year after his graduation he joined the Navy as an apprentice seaman and served all over the world. In World War II he was on duty in the Southwest Pacific. After being discharged he entered the Trade School and enrolled in Sheet Metal. He completed the two-year course in May, 1956, and then enrolled in Drafting for four months. The School Safety Record Sign shown in the above picture was designed and constructed by Mr. Freeman.

Kenedy, Tex., became pastor of the Church when the regular minister suffered a heart attack and was forced to retire. He preaches two Sunday sermons, has a Wednesday night Bible class for adults and attends to the regular duties of a country pastor.

Austin's church work began while he was attending Abilene Christian College (Tex.). While working toward a degree in psychology he minored in Bible study and taught in the 11th Willis Congregation, working with the young people. Then, after he had moved on to the University of Colorado at Boulder for graduate work, Austin became a regular Bible teacher of a college-age group and a choral director.

The soldier-preacher gained experience in sermonizing at Boulder where he filled in as preacher in the absence of the minister. Previously he had taken the pulpit in Abilene and in south Texas upon the invitation of various congregations.

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**OUTLINING RETIREMENT PLAN**—Cecil Jackson (right) personnel director of the Redstone Arsenal Research Division of Rohm & Haas Co., outlines retirement benefits for employes completing five years of service in 1956.

**45 MORE ROHM & HAAS EMPLOYEES ENTER COMPANY RETIREMENT PLAN**

Forty-five additional employes of the Redstone Arsenal Research Division of Rohm & Haas Co. came into the company retirement plan this year upon completion of five years service. This brings the total number of people participating in the retirement plan of the local division to 39%.

The retirement and pension plan was established throughout Rohm & Haas Co. in 1943 and was one of the earliest plans adopted in this country by a major company. The plan is non-contributory, all expenses are paid by Rohm & Haas, and is designed to provide income for retired employes as well as provide income for the families of employes who die before reaching retirement age.

"The number of people participating at the Redstone Division is very gratifying", said Cecil Jackson, personnel director. "By next year 51% of our employes should be eligible to participate as compared with 57% throughout the company."

"The high percentage of employes participating is a reflection of low turnover rates and

stable employment. Our percentages on a company-wide basis would be considerably higher except for the fact that the company has expanded so rapidly and so many new employes have been added in the last few years."

**Camels Long Ago Failed to Displace That Army Mule**

Washington — The camel, indispensable as he may be in some lands, only comes into his own once a year in the U. S. — as a decorative motif on Christmas cards.

But he had his brief day long ago with the U. S. Army.

This year marks the 100th anniversary of the birth of the Army Camel Corps, which had about a ten-year dry run carrying supplies through the arid mountains and deserts of the West.

In 1856 Secretary of War Jefferson Davis pushed a bill thru Congress which appropriated \$30,000 to buy camels. The idea was to experiment with them as possible supplements or replacements

for Army pack mule trains.

The Army bought 75 of the animals in Africa and Asia Minor for about \$50 apiece. Greek and Turkish camel drivers came with them.

Headquarters for the camels was Camp Verde, about 60 miles west of San Antonio. During the next several years camel caravans helped open new wagon routes from the Gulf of Mexico

to the Pacific Ocean.

Though the animals enjoyed popularity early in their Army careers, officers later complained that they were worthless. Western townfolk and ranchers called them nuisances. They frightened children and horses and, among other bad habits, was an annoying refusal to budge from the middle of narrow mountain trails.

During the Civil War some wandered away from camp. Others died. In 1886 a group at Camp Verde was auctioned off to one Bethel Coopwood for \$31 each. Coopwood sold five to a circus and drove the rest south where he set up a camel caravan from Laredo, Tex., to Mexico City. Robberies killed the caravan idea, so Coopwood sold the rest of his animals to circuses and prospectors.

Many camels in traveling shows or menageries for several years after that were Army veterans.

So—next time you see a camel—you'll do well to treat him with

respect. It's just possible his ancestors saw service in the Civil War.

The Army Signal Corps is striving to perfect lighter weight equipment which is durable, dependable, of longer range, and highly resistant to enemy electronic countermeasures.



**MUTUAL FIRE PROTECTION TREATY SIGNED**— (Left to right) Chief Pat Pruitt, Col. Keith T. O'Keefe, Mayor R. B. Searcy, and Massey Tolen, Huntsville fire chief, sign a mutual protection treaty for the Huntsville-Redstone Arsenal area in Redstone Arsenal's Fire Station No. 1. Major Jack G. McNeil, fire protection officer for Redstone Arsenal, is not shown.



**SEW LOVELY**—Dressed for the part, blonde Larri Thomas poses appropriately on a factory-type sewing machine after she was chosen for a role in the movie, "The Pajama Game." For those interested in sew-istics, Larri measures a curvy 38-23-37.

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**COMMENDATION AND A NEW JOB**—Col. Edward C. Coffin, Jr., of Richland, Ga., Infantry Center signal officer, presents a letter of commendation to Miss Ruby Pilgrim of Douglasville, Ga., formerly head of the Signal Stock Control Section at Ft. Benning. After more than five years of service, Miss Pilgrim has recently transferred to ABMA, where she is property and supply clerk for the Signal Office. Col. Coffin commended Miss Pilgrim for her ability, tact, unusual devotion to duty, and her will to get a job done and to maintain an efficient, smooth working organization. The letter was presented last month.



**SAFE SUPERVISION PIN AWARDED**—James S. Berry is all smiles as he receives a lapel pin from Joe Rush, chief of RSA's Rocket Development Laboratories, for five years of supervision free of disabling injury. Mr. Berry is employed in the Internal Ballistics Branch, Test and Evaluation Laboratory, RDL, Redstone Arsenal. (Photo by Carl Pickens)

**ARMY SCIENTISTS CUT QUARTZ WITH NEW ULTRA-SONIC SLICER**

Fort Monmouth, N. J. — Army scientists can now cut paper-thin wafers of quartz, a super-hard mineral, with a "sound slicer" that never touches it.

They can bore microscopic square holes and round pegs in the thin crystals, or cut hooks to make radio crystals work better.

Quartz crystals are vital for radar, guided missiles, radio, TV and telephone communications. That's why the Signal Corps Engineering Laboratories here are vitally interested in the experimental slicer, designed by Raytheon Manufacturing Company.

When this ultrasonic technique is perfected to meet military standards, time and money will be saved, more exacting and complicated work can be performed, the supply of critical industrial diamonds used in the old process will be conserved, and during wartime when shipping lanes are

threatened the stockpile of imported high-grade natural quartz could be stretched.

Simultaneously cutting 21 delicate slabs from a chunk of quartz as if it were a tiny crystalline loaf of bread, the slicer gives three times as many usable quartz wafers from a block as do the best diamond saws.

Ultrasonic sound, which like some dog whistles is so high pitched it cannot be detected by the human ear, does the cutting. The slicer's bit resembles a closely stacked pack of razor blades. It vibrates like a pneumatic drill, but much faster—at 25,000 times a second.

The bit itself does not touch the quartz, though it comes microscopically close. Boron carbide flows between the slicer and the quartz. As the tool vibrates, boron particles rapidly nick out tiny flakes of the quartz.

Had the cutter been available during World War II, the U. S. could have saved more than seven and one half million dollars a year, or enough to buy 80,000 rifles. In 1943 this country imported some 3,000,000 (M) pounds of the strategic material. By war's end, the cost had almost doubled.

Quartz, like ordinary sand, is common chemical on earth. However, high-grade natural quartz needed for electronics must be imported, principally from Brazil.

Maybe money talks but ours just seems to sneak off quietly when we aren't looking.

- Opportunity is:
- ... what the strong man makes for himself.
  - ... what the industrious man asks for.
  - ... what the lazy man dreams about.
  - ... what the weak man waits for.
  - ... what the wise man sees and makes the most of.

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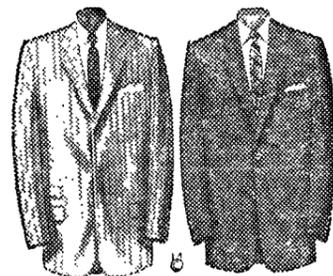
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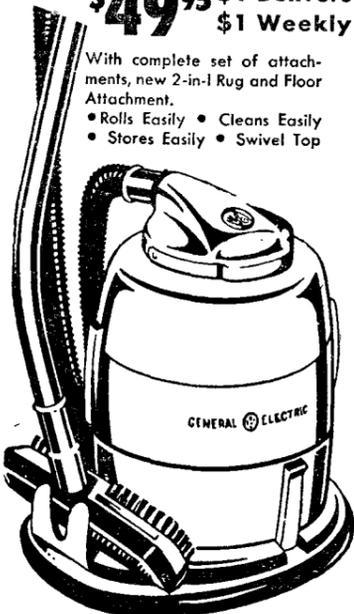
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### ARMY-AIR FORCE TRAILER REDUCES DANGERS OF MISSILE FUELING

EDGEWOOD, Md.—How to fill the fuel tanks of guided missiles and rockets at launching sites in the field without endangering military personnel has been a problem since the advent of these new weapons. A cooperative research and training effort by the Air Force and the Army Chemical Corps has produced a solution.

A group of 20 Air Force technicians recently completed training with a trailer specially designed at the Chemical Warfare Laboratories here to handle the corrosive nitric acid that serves as an oxidizer for rocket fuels. These military and civilian technicians will serve as guides to others in the special techniques required to handle the acid and clean up spills.

Special techniques are needed for handling nitric acid because its fumes are so poisonous that they cause the lungs to deteriorate, and a person affected would drown in his own body fluids. A fire or explosion might result if the acid touched any organic material. So the operator's body must be protected and spills must be flooded with water immediately.

The new 1500-gallon trailer, made completely of stainless steel to resist the corrosive effect of the acid, contains a pump of special design that allows both filling and emptying of the tanks of a guided missile. It contains a special "scrubber" system to neutralize the fumes that escape during the operation. Special packing and lubricants are used to prevent fires or explosions.

In 1953 the Air Force's Wright Air Development Center requested the Army's Chemical Warfare Laboratories to design a prototype trailer for fuming nitric acid. The resulting model was so successful that the Chemical Corps installation this year converted a number of trailers for the work.

### Army Field Radios Work Throughout Atom Bomb Test

WASHINGTON—The Army's rugged field radios worked right through a test atomic blast that burned mannequins "operating" them to a mound of ashes.

Walkie-talkie, handy-talkie and jeep radios stayed on the air though some were as close as 1000 feet to ground zero. Sets were found outwardly charred and battered at the bottom of fox holes, but internal parts remained sound.

These facts were revealed here by Jack Eggert, communications expert at the Army's Signal Corps Engineering Laboratories, Fort Monmouth, N.J., at a meeting of the Institute of Radio Engineers. They emerged after careful study of results of an atomic test at the Nevada Proving Ground.

Modern small radio parts and shock-proofing techniques were credited with giving these sets their exceptional endurance to an



**FUEL GUARDIAN** — Soldiers who "gas up" the Corporal missile wear head-to-toe protective clothing against spills and fumes of the potent nitric acid.

### RELIGIOUS SERVICES

The following religious services are held each Sunday at the Post Chapel, Building T-151, in the old Troop Area. You are invited to attend the services of your faith regularly.

#### PROTESTANT

10:00 a.m. — Morning Worship.  
10:00 a.m. — Sunday Church School for children ages 3 to Senior High.

Holy Communion is served the first Sunday of each month.

#### CATHOLIC

7:30 a.m. — Confessions.  
8:00 a.m. — Sunday Mass and

atomic air blast. The radios rapidly lost their radioactivity and were safe to handle 90 seconds after the explosion.

Buried communications lines, even those almost directly under the atomic blast, survived the explosion. An inch of earth or less is sufficient to protect almost all lines from an air burst atomic weapon.

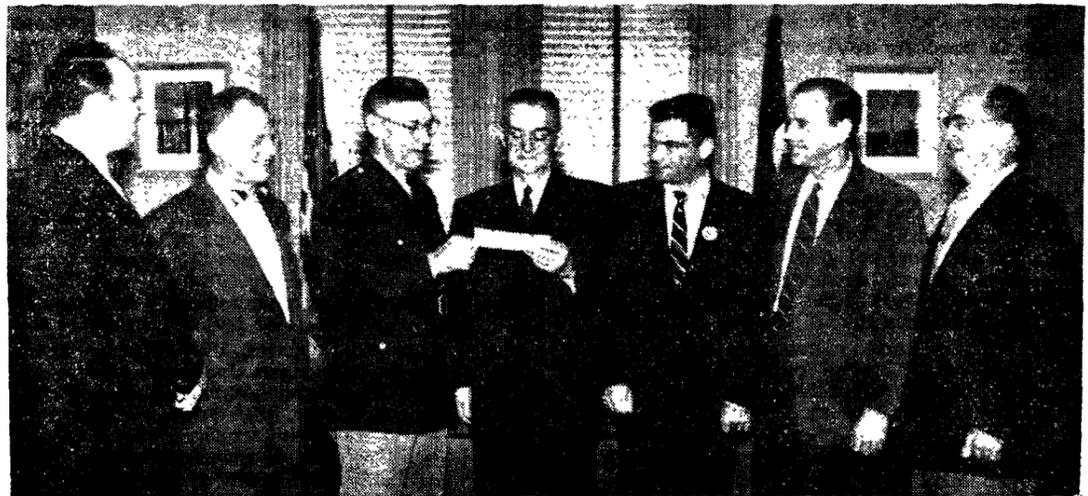
Magnetic tape, the same as used in home recorders, showed no harmful effects from radiation.

Large outdoor loudspeakers were severely damaged, and based on the test results, all types would be put out of commission if closer than 2000 feet to ground zero.

Particularly vulnerable to an atomic air burst, Eggert said, are tall radio towers and antennas. Often large radio stations remained in working order, but were temporarily useless because antennas had snapped.



**\$5,000 FOR POST ACTIVITIES**—Col. Milton Clark, chairman of the post Joint Activities Council, receives a \$5,000 check from Maj. Gen. H. N. Toftoy. The money, raised in the recent One-Time Drive, will be used to support the new Council during the current year. The Joint Activities Council was former late last year to supervise all non-government activities on the post, such as Scouts, Teenage Club, Red Cross, etc.



**\$70,495.41 TO UNITED GIVERS FUND**—Maj. Gen. H. N. Toftoy presents to Judge Ashford Todd a check which represents the major portion of the \$70,495.41 which the post's One-Time Drive raised for the Huntsville-Madison County United Givers Fund. Judge Todd is chairman of the UGF campaign and Gen. Toftoy served as honorary chairman of the installation's drive. Left to right above are: Kermit Day, post chairman; Louis Grabensteder, UGF president; Gen. Toftoy and Judge Todd; Hal Bronfin, UGF executive secretary; Loya Little, Judge Todd's assistant; and Jerry Connor, Mr. Day's assistant.

#### Benediction.

**JEWISH**  
Services are held at Temple B'Nai Shalom, Lincoln and Clinton Streets, Huntsville, at 8:00 p.m. on Friday.

Attend the services of your faith regularly. If you haven't already started, begin this Sunday. A free nursery is conducted during both Protestant and Catholic services for babies and small children.

#### CHAPEL BUS SCHEDULE

**Catholic Mass:**  
Leave Troop Area — 7:25 a.m.  
Arrive Chapel, Bldg. T-151 — 8:00 a.m.  
Leave Chapel — 8:50 a.m.  
Arrive Troop Area — 9:00 a.m.

**Protestant Service:**  
Leave Troop Area, Bldg. 681 — 9:30 a.m.  
Arrive Wherry Housing Area— 9:40 a.m.  
Leave Wherry Housing Area— 9:45 a.m.  
Arrive Chapel, Bldg. T-151 — 9:55 a.m.  
Leave Chapel — 11:05 a.m.  
Arrive Wherry Housing Area— 11:15 a.m.  
Arrive Troop Area— 11:25 a.m.

Worry, like a rocking chair, will give you something to do but will never get you anywhere.

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SOME ATLAS!—Nancy Rousseau has the world on a string in this picture and Atlas never looked as good as our Rocket Pin-up. (She has a pretty map too.) A native of Paint Rock, Miss Rousseau works as a secretary in Development Operations Division's Test Lab, ABMA.

veloped the holiday spread and decided something had to go.

Well, as we keep saying, you people should come to the Service Club and join in the activities. Things are always happening and even if you just sit and watch the others, that is always interesting. You can always find something to do, even if it's griping, so come on over.

Say fellows, we're going to Nashville to some dances on Saturday the 19th and the 26th, so don't forget to sign up. We're planning on leaving about 1300 so you'll have a little free time before the dance begins; so plan to go.

The variety show seems to be shaping up quite well. We're re-

**THE STAMP CORNER**

BY J. H. MULDER

The U. S. Post Office Department has announced five new stamps as a part of the 1957 Stamp Program. The first of these will be a 3-cent stamp honoring the Architects of America. First

cruiting all kinds of talent so even if you don't participate in the show by all means don't miss it (January 18th).

Well, enough for now, the dance is fixing to begin so I've gotta go—see you next week.

day of issue will be in New York City on February 23rd. Details of the design and color have not been announced.

The other four stamps are: the Coast and Geodetic Survey, Oklahoma Statehood, School Teachers, and, Wildlife Conservation Information relative to dates and place of issue is not yet available.

A further possibility for issue is a National Parks stamp. The Director of the U. S. National Parks Service has requested the U. S. Post Office Department to prepare a stamp for the dedication and opening of the Virgin Islands National Park which takes place later in the year.

**Service Club Schedule**

BY KATE GRIFFIN

You know, I've been waiting for the perfect moment to write about our boy, Jim Garofalo (er-listed man on our staff) and the time has come. Now, this boy Garofalo, pronounced GAR (sounding like AIR)-O (line across indicating long O—Just swivel your lips and say O—Not like when the Dr. looks down your throat and you say AH, but when he pinches you to see if you have a reflex

and you say OH!, then FAL, like a chicken fowl and another long O.) Well, now that you have been properly introduced to Jim, maybe I should stop there. He's one of these good boys, you know—the only trouble is that we just can't find out what he's good for. If I only knew before — before what? Well, the way he walks or moves or something—you see, he is a great hockey fiend (and pretty good too) (Just drop another \$5 in, boy) and when he walks or moves down the hall it is sorta of a run (sideways) and he has a tendency to push people (as though they were pucks) (pucks being those things they hit back and forth in the hockey game.)

He's striving hard for a PFC., so until he gets that, we can manage him well! Well is right—if he gets it we'll probably have to put him in a well to manage him at all.

Oh, I guess subtracting 90 per cent the other 10 per cent is possible. Seriously, Jim is a good ole boy—especially when he's on KP.

I could take off on the other Service Club personnel, but one is enough — it would only get worse, so best we take one at a time. I'd have to give Marty and Molly two weeks notice before the write up, so they could resign gracefully before being fired ungracefully.

The mistake of the year was made when we started serving coffee nightly. People come from out of the walls, through the floor, from under lamps and every other place the minute we say, "coffee's ready". Think I'll fool 'em one of these nites and serve hot tea—wouldn't that get them.

Am I behind time or something? Has there been a campaign to lose weight, are publishers building diets up? Is the American public too fat? Did the President order Get Thinner Week? I've never seen the like of people going on diets. Guess they de-

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DR. WILLIAM EMMONS

**Dr. Emmons Authors Magazine Article**

Dr. William Emmons, head of the Organic Chemistry Group of the Redstone Arsenal Research Division of Rohm & Haas Co., has reported in the Dec. 5 issue of the Journal of the American Chemical Society the first synthesis of compounds having a

well authenticated oxygen-nitrogen-carbon three-membered ring system.

In his contribution to JACS, Emmons says the compounds are active oxygen compounds comparable in many respects to organic peroxides. They are extremely reactive and undergo a variety of rearrangements and fragmentations. The compounds may be regarded as "electronic tautomers" of both amides and nitrones and may be readily isomerized to either one or both of these isomers under the proper conditions.

Applications of the compounds are at present uncertain but would appear to be oxidizing agents, polymerization catalysts, and synthetic intermediates.

Dr. Emmons received a BS in chemistry from the University of Minnesota in 1947 and a PhD in organic chemistry from the University of Illinois in 1951. Upon graduation he joined the Redstone Division of Rohm & Haas Co. He was promoted to group leader in 1952. Since coming to Rohm & Haas Dr. Emmons has been author or co-author of approximately 25 technical papers which have been published in the Journal of the American Chemical Society, or the Journal of Organic Chemistry.

**Army Helicopters Make Record Hop Atop Pikes Peak**

FORT CARSON, Colo.—"Pikes Peak or bust!"

But it was Army helicopters, not covered wagons, which updated this historic cry here when three of them landed atop the 14,110-foot peak—the first at such an altitude.

The ten occupants were intent on answering a lot of questions: In higher altitudes, would the planes be tactically practical? How well could they operate in mountain warfare? What weight could a helicopter carry at such an altitude?

Taking off in the cold at 6 a.m. dawn in order to avoid high winds, the hump-backed H-21C "flying bananas" whirled along high in the sky, sometimes creeping with an almost human caution along the sheer walls of rock and snow, often within 100 feet of the mountainsides.

**German, English Pose No Problems For Pre-School Set**

BERLIN — Master Sergeant Henry Floyd and his wife, in the process of adopting three-year-old German boys here, communicate with them through a very junior interpreter — their five-year-old daughter.

The twins, Raymond and Frank

couldn't speak a word of English when they arrived at the home of the Floyds. Likewise, Floyd, assigned to Headquarters Co., 7781 Army Unit here, and his wife knew only enough German to order a bockwurst or a Wiener schnitzel.

However, with Jo Ann, the Floyd's five-year-old daughter, it was a different story. Many of her playmates speak German so she had picked up the language quickly. Jo Ann became the go-between for the non-German speaking parents and the non-English-speaking boys.

Frank and Raymond (Raymond's name was changed from "Raymund"), however, have picked up English quickly. It's been a two-way street, too. Mrs. Floyd said, "I've learned more German in three months with the twins than I did the previous year in

Berlin. Mrs. Floyd gives the twins credit for an advanced sense of humor. Every now and then they answer one of her questions in German.

"Then," says Mrs. Floyd, "they laugh and laugh and laugh, because they know I can't understand them. At three, they're already good practical jokers."

Someday Russia will find out that our deadliest weapon is the automobile.

The spirals around the huge peak continued for 40 minutes until a series of final climbs put the ships near the south crest. The 60-foot planes dropped a mere 20 feet to land in a 10-below-zero overcast.

The record-breaking planes belong to the 93rd Transportation Company of Fort Riley, Kans., and were led by the commanding officer, Major Walter S. Makuch of (337 Herman Street) Brooklyn, N. Y.

The quarter-million-dollar choppers can carry 20 combat-loaded soldiers at lower altitudes. Technical advisers of Vertol Aircraft Corp. who made the trip said they thought it might be possible to construct a helicopter that would carry 48 men to heights of perhaps 20,000 feet.

Climbers scouting Mt. Everest could not have been more careful in checking each step of the operation. The Pikes Peak assault was preceded by a month of high altitude tests to experiment with new techniques for mountain flying and for troop supply and evacuation procedures.

This prior testing include a record landing on 12,567-foot Sugarloaf Mountain and the pickup of 15-combat-laden soldiers from the wind-blown summit. The highest previous mark for an Army helicopter was 8000 feet.



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FRENCH ARMY OFFICERS SEE "ROCKET CITY"—Eight French Army officers who were spending a week at Redstone Arsenal were honored at a luncheon and given a tour of Huntsville last week by Mayor R. B. Searcy and a delegation of "Rocket City" citizens. Here they are seen viewing the Hermes missile display and historical plaque just off Huntsville's Memorial Parkway. The Frenchmen are on a tour of the U. S. to learn more about guided missile systems. Left to right above are: Walter Eigenbrod, M. B. Spragins Sr., Col. Gerald L. Devenne, Lt. Col. Antonin Guilbaud, Col. Roger Grosgeorge, U. S. Army Col. E. J. Sweeney of Redstone, Brig. Gen. Jean de Vals, Lt. Col. Pierre Andre, Maj. Jacques Talbotier, Maj. Pierre Usunier, Mayor Searcy, and Carl Jones. (Photo by SFC Cox).

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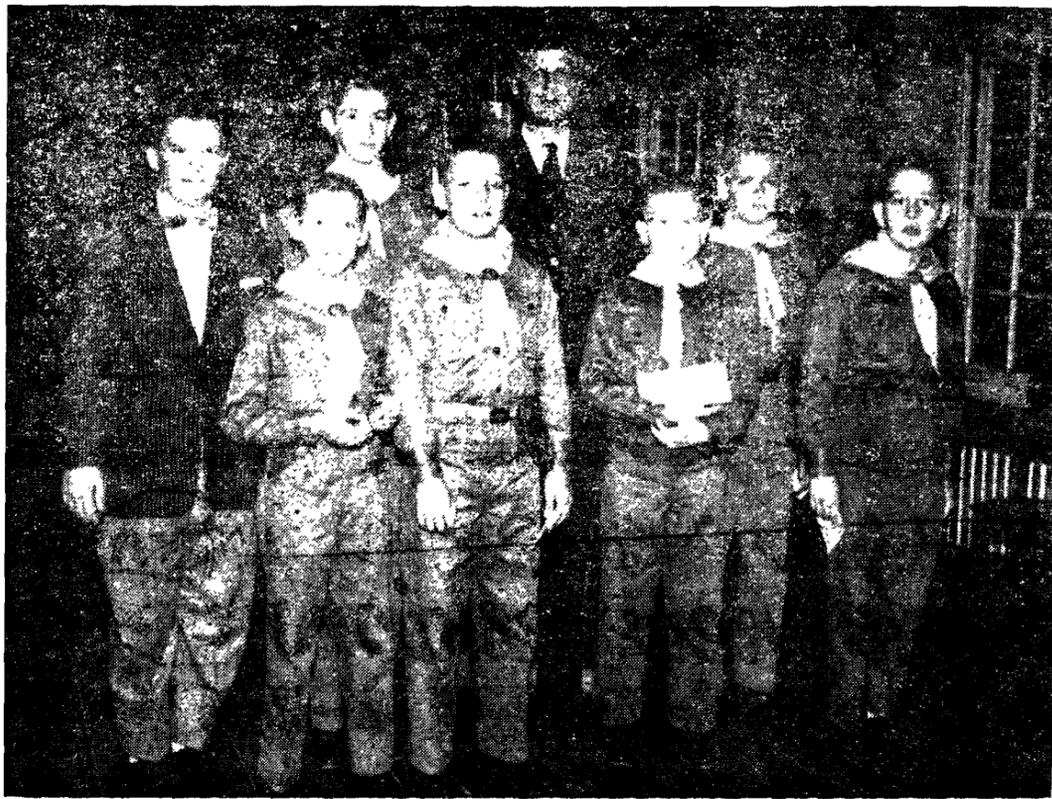
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**COURT OF HONOR**—Scouts of Troop 234 (shown above) were presented merit badges and achievement awards recently during a ceremony held at the Youth Activities Building at Redstone Arsenal. Brig. Gen. John G. Shinkle (center), RSA deputy commanding general, presented the awards to (left to right, front row) Joe Hosemann, Carl Messinger, Bruce Hallock, and Frank Ballard. In the back row (left to right) are: Billy Cowan, Bob Barthle, Gen. Shinkle, and Alan Ewalt.

**ARSENAL SCOUTS RECEIVE AWARDS**

Seven Scouts of Redstone Arsenal's Troop 234 were presented awards recently during a candlelight ceremony held at the Youth Activities Building here.

The meeting was opened by the chaplain with a prayer. A candlelight ceremony followed during which candles representing the Scout oath were lighted by Scouts of Troop 234 who recited a portion of the oath represented by the candle.

Lt. Col. R. C. Barthle introduced the guest speaker, Brig. Gen. John G. Shinkle, Redstone Arsenal's deputy commanding general, who spoke to the Scouts and their parents on the benefits to be derived from being an active member of the Scouting organization.

Awards were presented by Gen. Shinkle and Capt. Clark, chairman of the Boy Scout Council.

Billy Cowan and Frank Ballard who were advanced to the rank of Tenderfoot; Carl Messinger and Bruce Hallock, advanced to the rank of First Class Scout; and Alan Ewalt and Joe Hosemann, advanced to Second Class Scout. Joe Hosemann was also presented the den chief cord. Bob Barthle was awarded the Citizenship in the Nation merit badge. The ceremony was closed by the Scoutmaster and Scouts joining in the "Scoutmaster's Benediction."

**ARMY'S PIGEONS ARE 'GROUNDED' BY ADVANCES IN ELECTRONICS**

Washington (AFPS) — Modern electronics communications have replaced the Army's feather airwing.

Some 1,000 carrier pigeons trained by the Signal Corps soon will be offered for sale and the pigeon training depot at Ft. Monmouth, N. J. will be closed, the Army has announced.

Special provisions are being made for 18 birds whose actions saved numerous lives during combat. The Army hopes to place them with public zoos and institutions.

Progress in communications has virtually eliminated peacetime need for pigeons, but the Army has asked the Pigeon Fanciers' Assn. to be ready for any emergency which may again require the use of homing birds.

Military use of pigeons began in 1878 in the Dakota Territory. Since that time they have become renowned for carrying messages, maps and photographic material when normal radio communications were out or when human carriers were impractical. The birds were used as late as the Korean war.

Pigeon lovers will be given advance notice of sale. The birds will be sold in lots of five pairs with a maximum purchase of five lots.

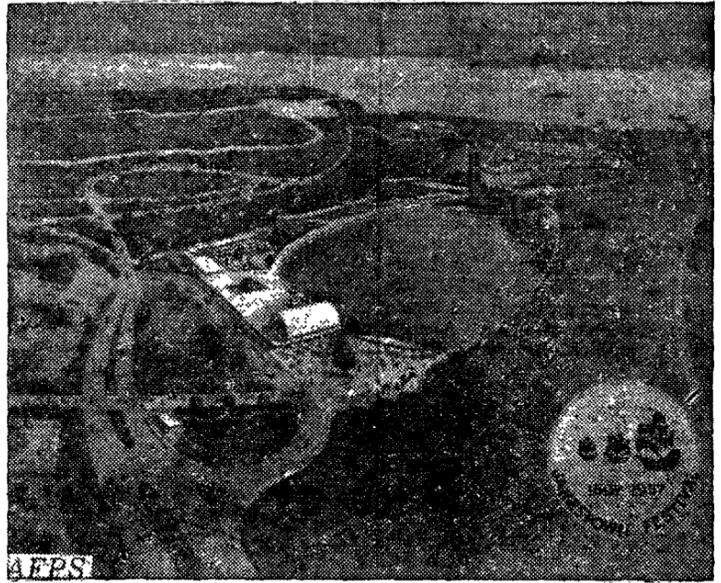
High on the list of pigeon heroes is G. I. Joe, who is credited with saving the lives of hundreds of troops at Colvi Vecchia, Italy during WWII. Joe flew a mile a minute for 20 miles carrying orders to cancel a scheduled bombing. He saved a British brigade which had captured the town ahead of schedule. He was awarded the Dicken medal by the Lord Mayor of London in 1946.



**RETIRING HERO** — Charlie, one of the Signal Corps' retiring carrier pigeons, is shown here wearing the Purple Heart he won while a messenger with the 90th Inf. Div. in Metz, France, in 1944.

Other heroes include Yank, who carried a message for Gen. George Patton 90 miles in 100 minutes, and Caesar, who bore 44 combat messages in North Africa and delivered an important order 300 miles across the Mediterranean Sea.

Pigeons were the only means of communications on 20 occasions in Mediterranean fighting. In the southwest Pacific, pigeon dispatch proved effective from small ships as well as in jungle and mountain terrain. In Burma a loft was established behind enemy lines.



**JAMESTOWN FESTIVAL** — Architect's conception of Jamestown Festival Park, being built by the State of Virginia for the Festival of 1957. At upper left is Jamestown Island, now connected to the mainland by the \$3 million Colonial Parkway of the federal government. At upper right are replicas of triangular James Fort of 1607 and the three ships, moored in the James River. The buildings include a reception center, Old World Pavilion and New World Pavilion. A pylon stands on the Mall.

**U. S. WILL OBSERVE BIRTHDAY OF FOUNDING OF JAMESTOWN, VA.**

Washington (AFPS) — The U. S. will celebrate the 350th anniversary of its first English settlement in 1957 with the nation's most ambitious observance of Colonial history in a year-long festival at Jamestown, Va.

Authorized by President Eisenhower, Congress and the General Assembly of Virginia, the festival will be centered around historic Jamestown, where the first settlement was established in 1607; Williamsburg, where Colonial statesmanship flourished; and Yorktown, the scene of our fledgling nation's victorious Revolutionary battle which brought the surrender of Britain's Lord Cornwallis.

The festival is expected to draw five million American and foreign visitors. The Army, Navy, Air Force, and Coast Guard will take part daily in the Jamestown Festival between Apr. 1 and Nov. 30.

Armed Forces participation will be climaxed with 10,000 servicemen reenacting the Battle of Yorktown on Oct. 19.

To perpetuate America's heritage, a \$25 million project will restore famous James Fort, as well as innumerable historic buildings and will establish two museums in the 19-mile area between the James and York Rivers as permanent national shrines linked by a new \$4.6 million Colonial National Parkway.

Several special events during the celebration are expected to be attended by President Eisenhower, Queen Elizabeth II of Great Britain, Secretary of Defense Charles E. Wilson, the service secretaries, top military and civilian defense officials and hosts of other national and international leaders and statesmen.

The Armed Services also will be represented with exhibits in Jamestown's New World Museum and during the mammoth International Naval Review scheduled for June 7 to 13.

**Sweeney to Attend War College**

Col. Eugene J. Sweeney, chief of the RSA Plans Coordination Office, has been selected to attend the 1957-58 course of instruction at the National War College, at Ft. Lesley J. McNair, Washington, D. C. He will begin his 10-month course next Summer.

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### Transport Colonel Invents Gimmicks To Benefit Army

BREMERHAVEN, Germany — It's finally happened. The skyhook — traditional "nothing" which Army basic trainees are sent to find—has become a something.

This skyhook, invented by Lieutenant Colonel Lawrence M. Furey of Warwick, Pa., chief of terminal operations at the Army's Port of Embarkation here, keeps cable off the ground when it's not being used to unload ships.

A queerly shaped device made of steel rods, the skyhook is mobile and can be moved about as needed.

Furey's inventive imagination didn't begin with the skyhook—nor is it apt to end there. Numerous Army citations prove his mental meanderings have improved the loading and unloading of military transports.

There was the stowage factor chart, used to determine quickly the number of cubic feet needed to stow the thousands of items sent by sea from Bremerhaven each day. It won him a commendation from the Transportation Training Command.

So did the idea to make up an information packet for men about to be shipped overseas.

Other inventions: a six-sectioned envelope; a device to snip steel

bands from around cartons; two types of steel band clamps that can be removed quickly by hand; and improvements on fork lifts and flat bed trailers.

Patents have been issued on some of his inventions but, the 45-year-old officer doesn't reap any monetary rewards from them.

Furey said most of the inventions were products of mental gymnastics during his leisure time.

"I set up a problem for myself," he said, "and then I go about solving it. For instance, the idea for the skyhook came to me

### 10 Stations Set To Check Path Of Earth Satellite

Washington (AFPS) — The first radio tracking station to chart the travels of the earth satellite scheduled for launching next Ju-

ly has been established at Blossom Point, Md.

The Navy said the station, located 40 miles south of Washington, is one of 10 planned during the International Geophysical Year for operation by Project Vanguard scientists of the Naval Research Laboratory here.

Similar stations to check the path of the satellite to be rocketed into space from Patrick AFB, Fla., will be set up at Santiago and Antofagasta, Chile; Ancon and Lima, Peru; Quito, Ecuador; Rio Hata, Panama; Havana, Cuba; Ft. Stewart, Ga.; Antigua, British West Indies, and San Diego, California.

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The Blossom Point installation,

to be known as the Minitrac Test Facility, will be used in testing instruments for the tracking systems and to train crews for the other stations.

Vanguard engineers and technicians in Maryland now are running trials on the 13-ounce Mini track transmitter, which has potential broadcast range of more than 4,000 miles.

Initial tests of this minute instrument that will send signal back from the satellite to the tracking stations "indicate a high degree of efficiency and reliability," according to the Navy.

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