

The Redstone Rocket

VOL. V; NO. 45

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 5, 1957

PACKS ATOMIC PUNCH

Nike-Hercules Missile Unveiled

Developed Under Arsenal Control

An improved performance of the Nike guided missile, recently designated the Nike-Hercules with nuclear components and many times the destructive power of the original Nike, is undergoing final testing, the Department of the Army and Western Electric Company announced last week.

The missile was developed under technical supervision of Redstone Arsenal.

Known as Nike-B during the development stage, Nike-Hercules is substantially finer and has much greater range than Nike-Ajax which has guarded key cities and strategic areas of the nation for the past three years. It is anticipated that the new missile will be in the hands of operational Nike batteries around the country in the very near future.

"The development of the Nike-Hercules system is another great advancement for the Army in the missile field," Brig. Gen. John G. Shinkle, deputy commanding general of Redstone Arsenal, declared. "This weapons system has made maximum use of the wealth of experience gained by the Army on the Nike-Ajax system," he added.

"The Army's Nike-Hercules development is another example of the extensive work accomplished in the missile field by Redstone Arsenal under the command of Maj. Gen. H. N. Toftoy," Gen. Shinkle said.

(Gen. Toftoy is currently hospitalized following a recent operation.)

The Redstone organization directly concerned with the Nike-Hercules development is the Surface-to-Air Missile Branch, Projects Management Staff, Research and Development Division. The branch is headed by H. F. Vincent, Deputy Chief is Maj. R. A. Axelson. W. J. Millsap is the Nike-Hercules project director.

Although longer appearing and more than double the diameter of the Nike-Ajax the Hercules will have operational maneuverability far in excess of that capable of being reached by Ajax. Its higher velocity will permit swifter interception of the most advanced types of aircraft and its increased lethality will make Nike-Hercules one of the most

(See NIKE on Page 2)



COL. HARRY M. MURRAY

COL. MURRAY NEW ABMA EXEC

Col. Harry M. Murray has been appointed Executive Officer of the Army Ballistic Missile Agency, it was announced by the Agency commander, Maj. Gen. J. B. Medaris.

Prior to his new assignment, Col. Murray attended the Armed Forces Staff College at Norfolk. See COL. MURRAY on Page 2)

Personnel Asked To Give to Fund Drives in Own Area

It was realized during the recent One-Time Drive that several worthy agencies did not participate. It is the command policy that only one fund-raising drive be carried out on the post. However, all personnel are encouraged to contribute in accordance with their personal desires to all non-participating agencies in their own communities, including the American Cancer Association annual scheduled to begin April 1.

21½-Acre Arsenal Site Deeded To Huntsville for New School

The U. S. government has deeded a 21.5-acre school site on the north end of the Redstone Arsenal reservation to the Huntsville Board of Education.

Dr. Raymond Christian, Huntsville city school superintendent, said today a 24-classroom elementary school will be erected on the plot in the near future, an application for federal building funds having already been made.

Announcement of the land grant was made jointly by the arsenal and the school board, which received the deed last week from the General Services Administration office in Atlanta.

The site is located on the south side of Madison Pike, one-half mile west of the Madison Pike-Jordan Lane intersection.

Dr. Christian said the final ar-

Gen. Toftoy Moved To Hospital in D. C.

Maj. Gen. H. N. Toftoy, who has been hospitalized at the Redstone Hospital following surgery several weeks ago, was scheduled to be evacuated yesterday by hospital aircraft to Walter Reed Army Hospital, Washington, D. C.

The Redstone commander is to undergo two additional operations. (See GEN. TOFTOY on Page 2)

NO CHANGE ON JUPITER, SAYS GEN. MEDARIS

Maj. Gen. John B. Medaris, Army Ballistic Missile Agency commander, issued the following statement last week in connection with newspaper stories quoting Secretary of Defense Charles Wilson as saying the Jupiter Missile had been "cancelled."

"I have been authorized by the Secretary of the Army to state that published reports of a press conference held yesterday (26 Feb.) by the Secretary of Defense contain some misinterpretations."

"There has been no change in the situation."

"The Secretary of Defense reiterated yesterday that a decision will eventually be made as to the final version of the Intermediate Range Ballistic Missile. The decision has not been made and will not be made until an evaluation of the two IRBM programs has been completed."

"The current developmental work on the Jupiter IRBM will continue unabated."

21 HAND-PICKED SAILORS

OGMS Graduates First Missilemen for Navy

(Another Photo Inside)

The U. S. Army Ordnance Guided Missile School graduated its first class of sailors last Wednesday.

Twenty-one enlisted men, hand-picked from sea duty, and all Regular Navy personnel, thus became the first Navy missilemen graduated from an Army service school.

The select group which has lived "Army-style" since beginning the 14-week period of instruction, completed its training with a standard GI graduation ceremony, but with a Navy speaker.

Commander William R. Kurtz, Chief, Navy Liaison Office at Redstone Arsenal, delivered the graduation address and awarded diplomas to the graduates.

During his address Commander Kurtz told the graduates, "It is the responsibility of the members of the graduating class to be leaders and doers — to impart to others that which you have learned here. Possible future assignments might include duty in nuclear propelled submarines designed to fire ballistic missiles, or on large combat vessels whose primary offensive weapon will be ballistic missiles instead of conventional guns as we know them today."

"This is a unique occasion in the Navy, since this is the first class to complete formal instruction in ballistic missiles."

The men graduating here today were carefully screened prior to their selection for schooling in ballistic missiles. They were picked from fleet and shore based schools, carriers, cruisers, destroyers, submarines, experimental missile ships, and schools for special skills.

"Today marks the completion of four months of classroom endeavor . . . During the next nine months you men will have the opportunity to put into practice some of the formal training you have received. As you work here at Redstone Arsenal you will

(See OGMS on Page 2)



Lt. Col. Louis F. Driver, Jr.

COL. DRIVER HEADS TROOPS AT OGMS

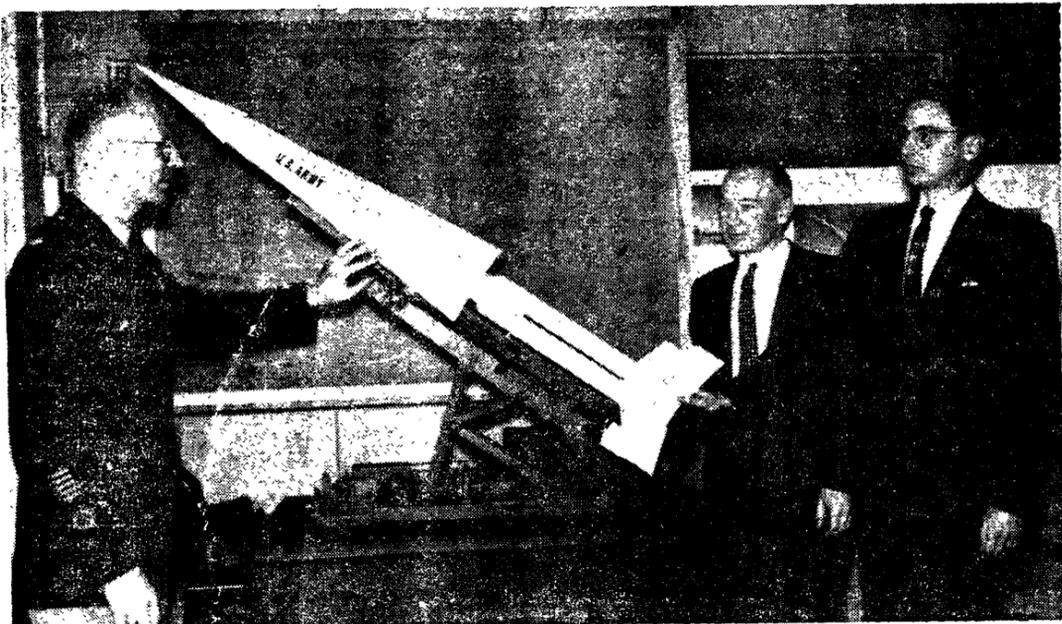
Lt. Col. Louis B. Driver, Jr., has assumed duties as the new commander of School Troops at the U. S. Army Ordnance Guided Missile School.

Col. Driver, a native of Thomasville, Ga., came to OGMS from Tooele, Utah, where he served as chief of the Ammunition Division of Tooele Ordnance Depot.

Prior to his assignment at Tooele, Col. Driver had served at Blue Grass Ordnance Depot; Ordnance Section, Fifth Army; Office of Strategic Services in the Far East; Submarine Mine Depot, Fort Monroe, Va.; Intelligence Division, Europe; Counter Intelligence Agency, Washington; Rhine Ordnance Depot, (See COL. DRIVER on Page 2)



FIRST IN HIS CLASS — Chief Guided Missileman James Grunstra (right) receives congratulations on finishing first in his class from Commander William R. Kurtz, chief, Navy Liaison Office. In center is Col. Henry S. Newhall, commandant of OGMS. Occasion was the graduation of the first Navy class from the School.



REDSTONE ENGINEERS WITH NIKE-HERCULES MODEL — Shown above is a model of the new Nike-Hercules anti-aircraft guided missile, developed under technical control of the Projects Management Staff, Research and Development Division, Redstone Arsenal, and three of the Arsenal men who were most closely connected with the weapon's development. Left to right are Maj. R. A. Axelson, deputy chief, Surface-to-Air Missile Branch; H. F. Vincent, chief of the branch; and W. J. Millsap, Nike-Hercules project director. Disclosure of the new missile was made by the Department of Defense last week.

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.

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Nike

(Continued From Page 1)
effective weapons in the American defense areas.

Certain modifications in existing ground control equipment makes it possible for Nike-Hercules to be integrated into existing Nike batteries throughout the nation. Both Nike-Ajax and Nike-Hercules can be fired with the same system. The equipment changes also add to the effectiveness of the Nike-Ajax.

Western Electric Company is prime contractor for the Nike-Hercules.

Research and development studies were begun on the improved version of Nike in 1953 by the same Army-Industry team which assumed responsibility for the original Nike missile. This included the U. S. Army Ordnance Corps, Bell Telephone Company Laboratories, Western Electric Company and Douglas Aircraft Company.

The ground guidance and control equipment and missile guidance are being manufactured by the Western Electric Co. at their Burlington and Winston-Salem plants in North Carolina while Hercules missiles will be produced initially in the Douglas Aircraft Santa Monica plant and following additional production at the Douglas-operated Charlotte missile plant at Charlotte, N. C. Components of the associated launching equipment, also, are the responsibility of Douglas.

The first prototype model of ground equipment has been released for testing at the Army's White Sands Proving Ground in New Mexico.

Col. Driver

(Continued From Page 1)
Germany; and Rhine Ammunition Depot, Germany.

Col. Driver holds the Legion of Merit, is an honorary member of the First Chinese Nationalist Paratroop Regiment, and has been awarded badges from the Polish Guard and the German Labor Service.

He is a graduate of Culver

New School

(Continued From Page 1)
architect's drawings of the proposed building are now being prepared.

A majority of the new school's students are expected to come from the rapidly-expanding military housing projects on the Redstone installation in that area. Housing either planned or now under construction will push the number of family units there to above the 800 mark.

Negotiations for the land were started last August when the Board of Education representatives made an informal request of the arsenal commander, who turned the project over to the Redstone Arsenal Education Council. The council, as the agent for Redstone commander Maj. Gen. H. N. Toftoy, gained the approval of the various government agencies involved, including the GSA, the Department of Army and the Ordnance and Engineer Corps.

Col. Thurston T. Paul of the Army Ballistic Missile Agency Support Operations Division, who is president of the arsenal education group, said the land transfer went through "in record time, thanks to enthusiastic support and cooperation at all echelons."

The school will be located on gently-rolling terrain, now in use as grazing land.

A survey recently taken at all major commands at the arsenal indicates that the new school will have a practically ready-made student body in the dependents of military personnel.

The survey revealed that the average military family here has 1.5 children enrolled in elementary school. With 800-plus families in the housing projects in the foreseeable future, the school population would then be more than 1,200, if the present per-family average is maintained.

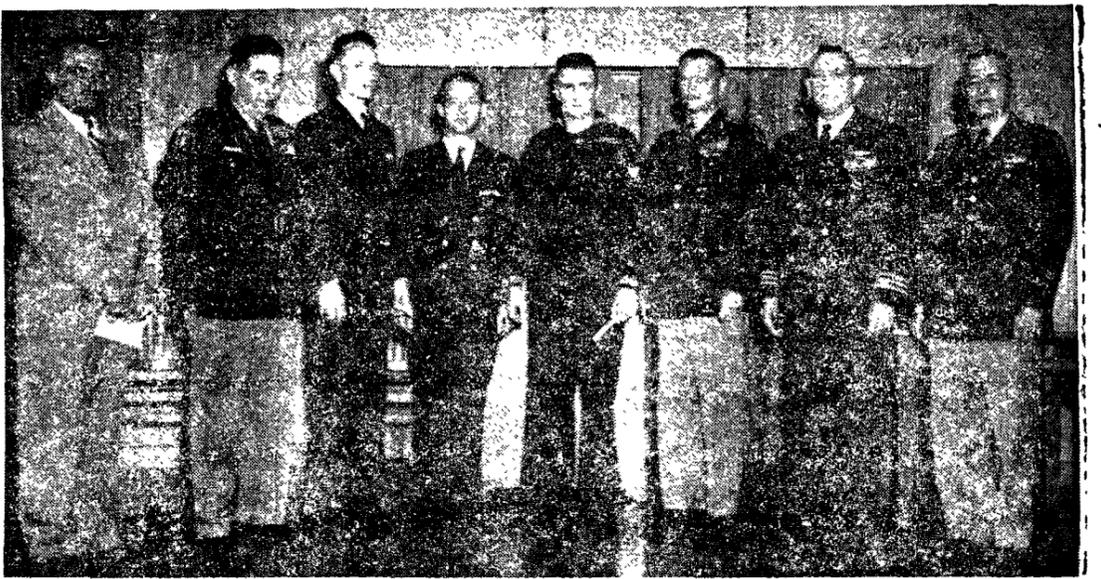
(The 1.5 average compares with .7 of the child per family on the national level)

With 24 classrooms, the school is expected to have a capacity of about 750.

Dr. Christian said this new project is a part of an overall building program to keep ahead of increasing school enrollment, brought on partially by expansion of federal activities in the Huntsville area.

Military Academy, Culver, Ind., and the Alabama Polytechnic Institute in Auburn from which he received a bachelor's degree in electrical engineering in 1928.

Col. Driver is married to the former Alice Wiles of Chicago, Ill. The couple has four children, and lives at 28 Ripley Drive, Redstone Arsenal.



A FIRST AT OGMS — On stage last Wednesday morning for the first graduation of a Navy class from the Ordnance Guided Missile School were, from left to right, Dr. C. D. Leatherman, educational advisor of the School; Col. Henry S. Newhall, commandant; Chief Guided Missileman James Grunstra, an honor student; Commander William R. Kurtz, who delivered the commencement address; Torpedoman Second Class David C. Butler, also an honor student; Col. Howard E. Von Kaenel, director of training at ABMA; Commander Victor S. Pederson, chief, Training Branch, Navy Liaison Office; and Maj. James H. Goewey, post chaplain.

OGMS

(Continued From Page 1)
have the opportunity to learn by association with a group recognized as the outstanding authority in the world today on ballistic missiles."

All 21 men in the class will work in laboratories at the Army Ballistic Missile Agency for the next nine months.

Commander Kurtz also remarked that, "The most cleverly conceived weapons, designed by the most capable scientific minds, are useless in combat unless men have been trained to maintain and use the weapon in the field."

Col. Henry S. Newhall, commandant of the Ordnance Guided Missile School, made a similar remark. He said, "We've all heard a lot about push-button warfare. And, in the past four months, you have learned the sequence of events from the time you push the button to the time the missile is launched. Just remember that there is more to push-button warfare than merely pushing a button."

The 21 students graduated as ballistic missile repairmen, all trained in the mighty Redstone missile, but different specialties.

All 21 started out with an introduction, to the Redstone, and then split up into two groups. One group of 13 went on to study a Guidance and Control Course which specializes in teaching the functioning, operation, and maintenance of the Redstone's guidance components. The other group of eight studied a propulsion and structures course which teaches the functioning operation, and maintenance of the Redstone's pneumatic and propellant system.

Honor student, or top man in the Guidance and Control Course was Guided Missileman First Class James Grunstra. First in the class on propulsion and structures was Torpedoman, Second Class David C. Butler.

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Col. Murray

(Continued From Page 1)
Va.

A native of Greensboro, N. C., Col. Murray attended high school there and later North Carolina State College, where he was graduated in 1933 in Mechanical Engineering.

During World War II, he was commanding officer of an Ordnance Battalion in the Pacific Theater of operations. Later he was assistant director of the Aberdeen, Maryland, Ballistic Research Laboratory. He was stationed at Frankford Arsenal prior to attending the Armed Forces Staff College.

Among the medals he has been presented are the Bronze Star Medal and the Air Medal.

Col. Murray replaces Col. Milton H. Clark who was recently

Gen. Toftoy

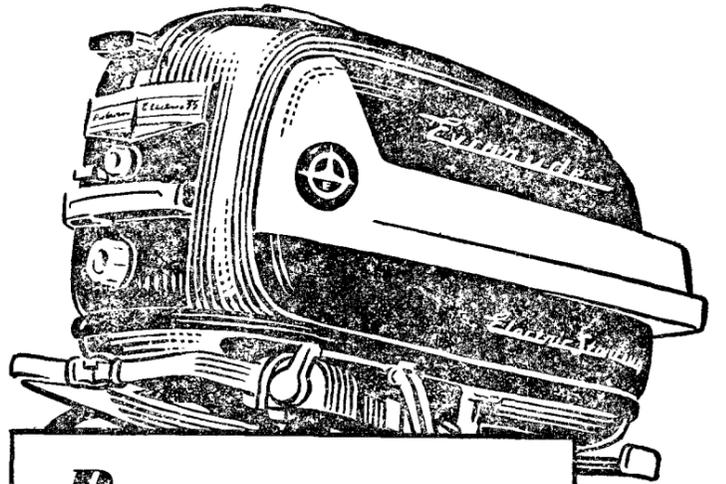
(Continued From Page 1)
tions at the Washington hospital, according to Lt. Col. O. H. Cowart, post surgeon, who was to accompany him on the flight.

Gen. Toftoy was operated on Feb. 8 for peritonitis caused by a ruptured diverticulum of the large intestine.

"A series of operations is always necessary to correct an illness like the general suffered," Col. Cowart said.

The post commander is expected to be off-duty for nine or ten more weeks. His address in Washington is: Ward 8, Walter Reed Army Hospital, Washington, D. C.

assigned as Chief of the Research and Development Liaison Branch of the ABMA Control Office.



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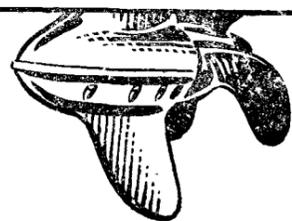
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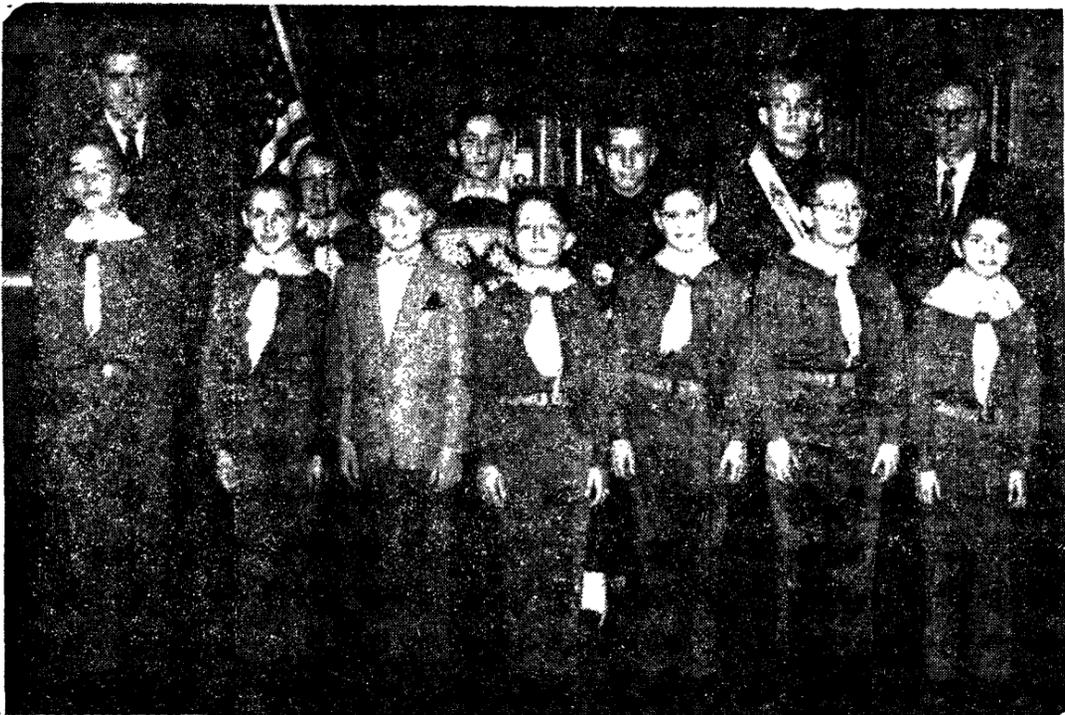
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SCOUTS HONORED FOR ACHIEVEMENTS—Redstone Troop 234, Boy Scouts of America, closed out national Boy Scout Week with a court of honor recently at the Youth Center. Youngsters who were advanced in rank or who received badges of office are shown here with their leaders. First row, left to right, are; John Davison, assistant patrol leader; Joe Hosemann, assistant patrol leader; Carl Hanson, tenderfoot; Terry Clark, tenderfoot; Johnny Diggs, tenderfoot; Bruce Hallock, den chief; and Mike Hodson, tenderfoot. Second row, left to right: Mr. Edward Human, scout executive for Madison District who presented the awards; Corky Messinger, den chief and home repair merit badge; Bartol Stone, tenderfoot; Tom Clark, pioneering merit badge; George Eilers, apprentice explorer; and Scoutmaster Stanley Frankenthaler. (Photo by Carl Pickens)

FEDERAL LAWS ON SECURITY CITED

(Editor's note: The following information was furnished by the RSA Intelligence and Security Office:)

Your responsibility under Federal laws relating to Sabotage, Espionage, Safeguarding Classified Information, Government Property or Contracts, and Photographing of Defense Installations:

You may be engaged in work relating to the national defense of the United States. In order to do this job, those of you directly connected with such work may acquire information which relates to the national defense. The purpose of this notice is to call to your attention your responsibility under the United States Criminal Code. Careless or deliberate violation of these laws may not only embarrass you but can subject you personally to fines and imprisonment.

Under these statutes:

1. You shall not take, communicate, or give to unauthorized persons any information relating to the national defense.
2. You shall not, through your own gross negligence, permit such information in your custody to be stolen or destroyed.
3. You shall promptly report to your superior the loss or destruction of such information.
4. You shall not hide or shield any person whom you believe or suspect has taken, communicated, lost or permitted any such information to be stolen or destroyed.
5. You shall not make in a defective manner any article or material which is to be used or is in any way connected with the national defense.
6. You shall not damage or destroy any building, property, or equipment used in connection with the national defense.
7. You shall not take, steal, or damage any property which belongs to the Government.
8. You shall not take, steal or

damage any property which is being made for the Government.

9. You shall not photograph or make any map or sketch of anything relating to or being manufactured for the national defense, except in the performance of your regular duties.

In addition to these statutory requirements, you must comply with the regulations of the Secretary of Defense, or his designated representatives, which relate to safeguarding of classified information.

Department of Defense

Kansas-Stationed GI Misses Ocean Diving

FORT RILEY, Kans. — Now stationed on the inland plains of Kansas with the Seventh Field Artillery Battalion, Private First Class Marvin H. Green of Cotuit, Mass., misses his summer occupation of oceanographic photography.

"Like drinking a cocktail of pure alcohol" is how the Cape Codder describes the thrill of camera work a hundred feet under. With aqualung strapped to his back, he sometimes stayed down for as long as an hour to get the shots he wanted. Submersion times were shorter when he worked for an oceanographic institute, sampling ocean bed soils for their ability to support large structures.

They were even shorter during the two years he donned a diving suit at the Navy's Arctic Research Laboratory in Alaska. It was too cold to do otherwise 300 miles from the North Pole. While there he also gathered antibiotics for a chemical company.

After his Army service, Green plans to put in his final year at Bowdoin College, Maine, where his major is—not oceanography—but economics.

The heart diseases cause more deaths in the United States each year than all other causes of death combined.

AOA Electronic Components Group To Hold Special Meeting Here

Redstone Arsenal will be host to a special meeting of the Electronics Components Committee of the American Ordnance Association Wednesday and Thursday (March 6 and 7). About 150 persons are expected to attend, including 60 from other government installations and private industries throughout the country. Meetings will be held in the Rocket Auditorium, Bldg. A-120.

The committee, which has its headquarters in Washington, D. C., will discuss problems encountered in the use of electronic components in guided missile systems. Problems will be presented by some of the Ordnance Corps' contractors, by Army Ballistic Missile Agency personnel, and by personnel of the arsenal's Projects Management staff.

Paul S. Darnell, of Bell Telephone Labs, Whippany, N. J., is chairman of the AOA committee. Local arrangements are being handled by a committee headed by Charles W. Parker of PMS.

The group will be welcomed at the initial meeting by Brig. Gen. John G. Shinkle, Redstone deputy

Cordiner Committee's Recommendations Told

Washington (AFPS)—Expanded officer and enlisted grades, rewards for productivity, and new pay scales preventing those junior to seniors in the same rank from drawing more money, are the basic recommendations of the Cordiner Committee.

The committee proposals just released by the Defense Department said the primary conclusion is that present compensation practices of the Armed Forces are "so clearly" out of step and inadequate that they can be called a "major impediment to national security."

Fundamentally the recommendations have four objectives (1) Relieve the "tight" pay structures of both officers and enlisted men; (2) Revise the present compensation system to provide rewards for merit and performance instead of longevity; (3) Place career pay grades on a competitive basis with industry, and (4) Establish "workable" procedures that will guarantee quality personnel for the Armed Forces.

Although each service will de-

termining how the retention program will be implemented for its own personnel the plan definitely would not give all members a pay raise.

Shaped to become completely effective over a four year period, the recommendations would establish an eighth and ninth pay grade for enlisted personnel and a ninth and tenth grade for officers' above brigadier general.

Under the present longevity system the Cordiner studies disclosed that 18,000 E-3s received more money than 333,000 E-4s and 100,000 E-6s drew more than 5,000 E-7s. This is equally true in various officer grades.

In the new pay proposals, although there would be in-grade pay steps every two years up to six or eight years in the new top four EM grades, no man of lower rank would receive a bigger pay check than those in the next higher grade.

The proposed "proficiency pay," equivalent to a one or two pay grade advancement, would go to a relatively small percentage of enlisted personnel, probably no more than 15 per cent of total strength.

It would be possible for an E-5 to be advanced on a proficiency basis to the lowest pay of an E-6, and in a later step move up to the bottom of the E-7 pay bracket while retaining his original E-5 rank.

While this would apply only to



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Miss Marta Medaris' Engagement To Capt. Charles Woody Announced

Maj. Gen. and Mrs. J. B. Medaris have announced the engagement of their daughter, Miss Marta Virginia Medaris, to Captain Charles Kenyon Woody, son of Col. and Mrs. Kenyon Woody of El Paso, Texas.

Miss Medaris attended schools in Cincinnati, Ohio, and the American High School of Buenos Aires, Argentina, while Gen. Medaris served as chief of the first U. S. Army Mission to that country.

She was graduated from the Washington, D. C. School for Secretaries in 1953 and the Capital City School of Nursing in October, 1956. She was president of the Student Nurses Association while in training. She is now on the nursing staff of the Redstone Arsenal Post Hospital.

Capt. Woody is a native of McKeesport, Pa. He was graduated from Virginia Polytechnic Institute in 1951 and received a direct commission in the Regular Army. He served in Korea with the 25th Division. He is a project officer in the Army Ballistic Missile Agency Control Office. He won a master's degree in mechanical engineering at the University of Southern California last year.

Capt. Woody is a member of three honorary fraternities: Phi Kappa Phi, scholastic; Tau Beta Pi and Pi Tau Sigma, engineering.

A June wedding is planned. Gen. Medaris commands the Missile Agency. Woody is director of personnel at Biggs Air Force Base, El Paso.



Miss Marta Virginia Medaris

Tea Dance to be Held At Officers Club Sun.

A tea dance will be held at the Officers Open Mess on Sunday, March 10, between the hours of 4 p.m. and 8 p.m.

From 4 p.m. to 6 p.m., Happy Hour will also be observed, followed by a buffet supper costing \$1.50 for adults and seventy-five cents for children.

Hilding Holmberg and his orchestra will furnish the music for dancing.

Lt. Col. Harry W. Stulting is chairman of the affair. Reservations can be made by calling the club office at arsenal extension 2951.

10 MILLION VETS TAKE TRAINING UNDER U. S. BILLS

Washington (AFPS)—Veterans' enrollments under four federal training programs enacted by Congress since WWII have exceeded 10 million, according to the Veterans Administration.

The first, Public Law 10 for the vocational rehabilitation of disabled WWII vets, was passed in March 1943. A total of 612,000 discharged servicemen received training under this legislation during the past 13 years.

Although training ended last July 25 for most disabled veterans, the law permits those in certain "hardship" categories to continue after that date.

The biggest program, the WWII GI Bill, was enacted in June 1944.

More than half of all veterans who served during the war, 7,315,000, took advantage of the education and training benefits of this program, which also ended for virtually all ex-servicemen last July.

Public Law 894, passed in 1950 to provide vocational training for disabled Korea veterans, has helped 44,000.

The fourth program, the Korea GI Bill, became law in the summer of 1952. During the past four years, 1,645,000 have gone to school or learned new trades under provisions of the legislation, the VA said.

Sell It Through a Wantad

'Army Hour' Radio Program to Mark West Point Founding

A special "Army Hour" radio program for the week of March 10 will be devoted to the observance of Founders Day, United States Military Academy.

The program will consist of a dramatic narrative honoring West Point, music by the West Point Band, Cadet Choir and Cadet Glee Club, and a message from the superintendent, Major General Davidson.

This program is being released to Mutual Network stations in this area. These stations include WBHP, Huntsville; WMSL, Decatur; WFMH, Cullman; WEKR, Fayetteville; and WOWL, Florence. Watch the Daily Bulletin for the date and time of this program.

Civil Service Exams In 3 Fields Told

The Board of U. S. Civil Service Examiners here have announced competition in three fields.

Announcement No. 5-35-8(57) calls for motor vehicle dispatchers at a GS-3 (\$3,175 per year).

The second announcement No. 5-35-6(57) calls for construction and maintenance inspectors at WB-18 (\$2.33 per hour) and construction and maintenance inspector lead foreman at WBS-8 (\$2.72 per hour).

The third deals with offset press operators helpers at WB-4 (\$1.42 per hour) and offset press operators at grades: WB-7 (\$1.62 per hour), WB-9 (\$1.76 per hour), WB-12 (\$1.97 per hour) and WB-14 (\$2.11 per hour). The announcement number is 4-35-7(57).

MOVIE SCHEDULE

Tuesday, 5 March — "Annie Get Your Gun" — starring Betty Hutton and Howard Keefe (Family) Time 1900.

Wednesday, 6 March — "Zombies of Mara Tau" — starring Gregg Palmer and Allison Hayes, (Mature) Time 1900.

Thursday, 7 March — "Men in War" — starring Robert Ryan and Aldo Ray (Family) Time 1830 and 2030.

Friday, 8 March — "Kelly and Me" — starring Van Johnson and Piper Laurie (Family) Time 1900.

Saturday, 9 March — "Not of This Earth" — starring Paul Birch and Beverly Garland (Mature) Time 1900.

Sunday, 10 March — "Full of



'FLOWER GIRL' — The flowers are pretty too, but they can't hold a sprig for Miss Barbara Byrne, this week's Rocket Pin-up. A Huntsvillian, Miss Byrne works in Redstone's Purchasing and Contracting Office, in Bl. 111.

(Photo by Carl Pickens)

Consumer Education Expert to Address Officers Wives Club

Mrs. Ninette Griffith, Love-man's consumer education consultant from Birmingham, will be guest speaker for the luncheon meeting of the Officers Wives Club next Tuesday (Mar. 12). The subject of her talk will be "You're Prettier Than You Think."

ABMA officers wives will be in charge of the meeting with Mrs. Duncan Hallock, chairman. Reservations or cancellations must be made by noon Monday (Mar. 11) by calling either Mrs. De Noya at 5551 or Mrs. Ballard at 2553.

The nursery will be open for this affair and reservations should be made by calling either Mrs. Hazzard at JE 4-6307 or Mrs. Weiss at JE 6-3966.

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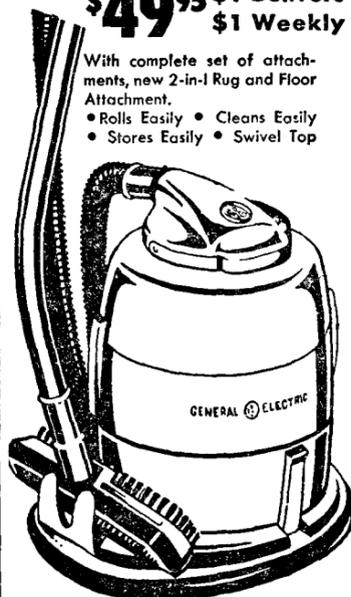
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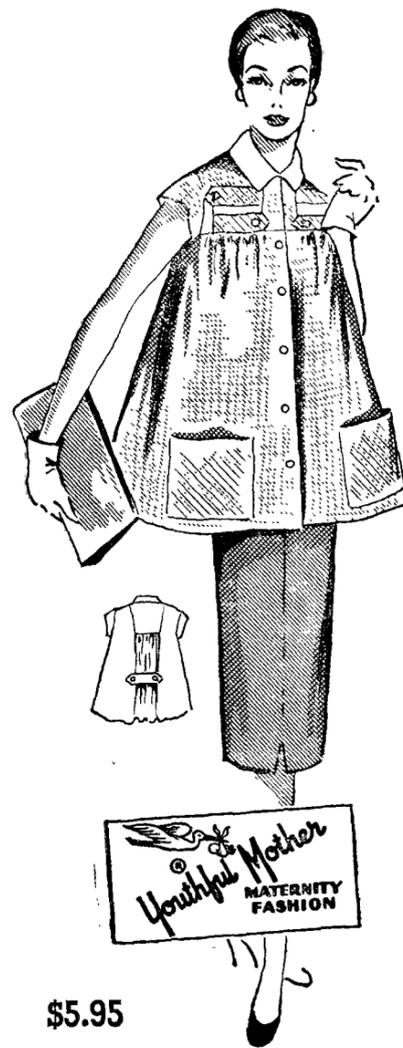


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flat tire?"

Life" — starring Judy Holiday, Richard Conte, and Salvatore Baccaloni (Mature) Time 1830 and 2030.



SAFETY FIRST—Robert Seaver, Redstone safety promotion specialist (left), and Otto P. Kohler, Post Engineer, stand beside the motto recently adopted for a safety drive in the Post Engineer Division. Mr. Kohler is working hand-in-glove with the Safety Office here to prevent on-the-job accidents that can be avoided with a little thought or caution. Mr. Seaver is one of several men from the Safety Office who keep tabs on safe-work practices and accident statistics in the Post Engineer Division. (Photo by Bill Kellar)

Former Maltese Officers Relive Old Times in U. S. Army

FORT BLISS, Tex.—“We are comrades in arms once again in

the same army,” said Sergeant First Class Henry Engerer of (3433 Balboa) San Francisco, Calif., as he and Specialist Second Class Joseph Samut of (526 W. Missouri) El Paso, Tex., got together to renew a battle-tested friendship that began on the island of Malta

during World War II. Both men had become officers in the Royal Malta Artillery. Engerer served as an instructor in light antiaircraft artillery while Samut commanded a troop of .40 mm antiaircraft guns in the defense of the Island.

When the war moved away from Malta, Samut went to England to join the Air Force Reserve. Engerer resigned his commission and came to the United States following the war.

Engerer next joined the U. S. Air Force while Samut went to Labrador from England in 1949 to become a “bush pilot.”

In 1949 Samut came to the United States and shortly thereafter joined the U. S. Army. Meanwhile Engerer had completed his tour of duty in the Air Force and transferred to the Army.

They finally met again when Samut, who had arrived here first and was assigned to Headquarters Battery, 4052nd Service Unit, heard that there was another fellow from Malta on post.

“Imagine my surprise when it turned out to be Joe,” said Engerer.

Soldiers Slug Mud Of 75-Inch Depth To Build Roadway

WILDFLECKEN, Germany — Six feet of mud, 210 days of hard work, 100,000 man-hours of labor — and what have you got?

The answer is you have a road. The soldiers who know first hand are the members of C Company, 293rd Engineer Battalion (Construction). They struggled through seven months of heavy going to build it near this village 15 miles from the Iron Curtain.

It's a four-mile long tank trail access road pushed through some of the muddiest terrain in Europe. Mud was measured to a depth of 75 inches at one time while the road inched along in the rainiest season. Germany had seen in 40 years. At one period when C Company was bucking the elements to complete the job in time for tank maneuvers there was rainfall on 27 consecutive days.

In another instance it required 200 truckloads of crushed rock to fill a washout caused by an underground stream.

Wildflecken, a secret wartime German troop training site, is now used by the U. S. Army for

WAC 'Li'l Abners' Given Extra Wear In Medical Course

FORT SAM HOUSTON, Tex.—“Li'l Abners.” That's what members of the Women's Army Corps call their field service shoes, modified versions of the soldiers' field boots. Usually they are worn but rarely after basic training is over.

But Wacs who report to Brooke Army Medical Center here for specialized medical training dig down into the old barracks bag for those “Li'l Abners.” For enlisted women, like enlisted men, now go through a few weeks of field training before taking the advanced studies that will turn them into such specialists as operating room and x-ray technicians.

Brooke, the only basic training center for combat aidmen and medical corpsmen, believes that all its graduates should have a chance to make practical application of their instruction in field medical care and hospital ward management.

Hence the participation of the medical Wacs when the problem is not too strenuous. About 75 of

some of its more rugged field training.

The area is isolated, with no major communities nearby. To relieve the monotony the engineer-soldiers formed a rifle marksmanship team and engaged the best German team in the area in monthly matches.

them have now gone through the field course—and “enjoyed” it.

Their “Li'l Abners” are getting more mileage than was originally planned, as they “practically run” in a small WAC formation to keep up with the advance group of enlisted men marching from instruction point to instruction point.



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1,200 CONTRACTOR PERSONNEL GET CHEST X-RAYS HERE DURING WEEK

OFFICERS' BOWLING NEWS

Standings to date in the third quarter of the RSA Officers' Bowling League are as follows:

TEAM	WON	LOST
Raiders (R&D-IND)	13	3
Signaleers (Sig Corps)	10	6
Alley Cats (FSD)	10	6
Kingpins (R&D)	9	7
Pencil Pushers (ABMA)	8	8
Orphans (ALL RSA)	7	9
Jupiters (ABMA)	6	10
Troopers (OGMS)	6	10
Co-ops (OGMS)	6	10
Missiles (OGMS)	5	11

TEAM LEADERS:

(Season to date)

HIGH THREE GAMES

Kingpins	2764
Orphans	2524
Pencil Pushers	2463

HIGH SINGLE GAME

Kingpins	999
Orphans	920
Pencil Pushers	888

INDIVIDUAL LEADERS:

(Season to date)

HIGH THREE GAMES

Lt. Cox	637
Lt. Welch	615
Lt. Cox	599

HIGH SINGLE GAME

Maj. Frankenstein	256
Capt. Rachmeler	243
Lt. Welch	240

The league's season has been divided into four nine-week quarters for the purpose of determining entries in the league tournament to be held at the end of the season. No team will repeat in the playoff; e.g., if the winner of the first quarter wins the second quarter also, then the second place team for the second quarter qualifies for the playoff.

The Orphans won the first two quarters. The Raiders took second place the second quarter, thereby qualifying for the playoffs.

Quarterly prizes are being given to the first place teams, to the man with the individual high series, and to the man with the individual high game. All other prizes will be given based on seasonal results. Playoff prizes will be of the "kitty" type, "donated" by the four entrants.

POST CAGERS TAKE 20-6 RECORD TO 3D ARMY TOURNEY

The Post basketball team took a season's record of 20 victories and six losses into Third Army Tournament play, opening yesterday, and continuing through March 9, at Ft. Bragg, N. C.

The Rockets wound up the season with a flourish, bringing home straight triumphs from their road trip into Georgia.

The Arsenal cagers beat Ft. Stewart twice, by scores of 75-65 and 75-63, and then did the same thing to Ft. Gordon, 90 to 79 and 80 to 75.

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Whitesburg Drive

Over 1,200 X-rays were made of contractor personnel at Redstone Arsenal last week as mobile X-ray units visited Rohm & Haas, Thiokol, Chrysler, North American, Douglas, Reynolds, and Western Electric.

Since government employees, both military and civilian, at Redstone Arsenal receive chest X-rays each year as part of their annual physical, this visit of the State Board of Health Unit has completed the job of assuring that tuberculosis does not remain undetected among the thousands of employees on the Arsenal.

"In the past we have handled chest X-rays in several ways," said Cecil Jackson, personnel director at Rohm & Haas Company. "We believe the assurance that they do not have tuberculosis or other respiratory diseases is mighty important to all of our employees. A chest X-ray is given each year as part of the physical examination."

Dr. Otis Gay reminded all employees who were absent during the visit of the X-ray units on Redstone Arsenal that they and their families can obtain X-rays any day between the hours of 8 and 5 at the old Hill's store on the east side of the square.

SPORTS SCHEDULE

Tuesday, 5 March, Volleyball
1900 — Hq OGMS (EM) vs UTC

2000 — 1st ETD vs OGMS Officers

Wednesday, 6 March, Volleyball
1800 — 217th FA Bn vs 2nd ETD

1900 — UTC vs 1st ETD

Thursday, 7 March, Volleyball
1900 — 1st ETD vs 217th FA Bn

2000 — UTC vs OGMS Officers

Monday, 11 March, Volleyball
1800 — Hq RSA vs 2nd ETD

Post Gymnasium Operating Hours:

Monday thru Friday 1400-2100

Saturday 0800-1600

Sunday 1300-1600

Crafts Shop Operating Hours:

Monday thru Friday 1730-2200

Saturdays and Holidays 0800-1630

Sunday 1300-1900

Closed Tuesday and Wednesday

At Home Or Abroad All Army Purchases Meet Rigid Tests

MANNHEIM, Germany— Tests, tests, and more tests at the U. S. Army, European Ordnance Procurement Center laboratory here—nearly 50,000 annually—serve to protect the investment America has made in locally purchased supplies in Europe and the near East.

Exhaustive checks by 28 engineering technicians insure that each item purchased meets the Army's rigid specifications.

The laboratory is divided into the chemical, physical, metallurgical, precision measurement, electrical, and jigs and fixtures sections.

Paper, rubber, wire, sheet metals, textiles, yarn and canvas are also tested here to assure that their strength will stand up under field conditions. A larger machine of the same type tests such materials as rope, chain and screws to determine that they will not snap under usage.



"O" OR "A"? asks Barbara Lyman as she fills out Thurman Pinkerton's X-ray card during the visit of the State Board of Health X-ray Unit to Rohm & Haas Company last week. Shown left to right are: Fay Frazier, Batty Alverson, and Barbara Lyman with the State X-ray Unit, and Thurman Pinkerton, William Martin, Jerry Potter, George Harbin, and Kenneth Gentile of Rohm & Haas Company.



ROHM & HAAS employees line up for X-rays outside Mobile State Unit. Left to right are: Jerry Potter, George Harbin, Thurman Pinkerton, Kenneth Gentile, Marvin Moon, and Hildred Hunter.

Accurate fit and exact measurements are essential in almost every item obtained on contract. Precision devices and machines check measurements and tolerances and surface roughness of polished parts.

Sunshine and rain alternate in the weather-testing machine to check resistance of colors and lacquer, metals and textiles. Canvas, for example, must withstand rough weather, and the tests conducted on it are extremely severe. Under laboratory conditions, it undergoes about two years of extreme temperature and weather changes in a special machine during a 360-hour run.

X-ray technicians examine cer-

tain materials by remote control turning them in all positions for thorough testing. Interior defects such as shrinkage, faults in welding seams, or cracks, are revealed here.

Before bidding on ordnance items, manufacturer's representatives study the item to be produced; Army representatives assist them by supplying plans, drawings and specifications.

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KEYNOTER — Dr. Hector R. Skifter, Research and Development official in the Department of Defense, was the keynote speaker at the missile test equipment symposium held at Redstone last week. He is being greeted above by Maj. Stanley C. Skeiber, Redstone R&D Division, who conducted him on a tour of the arsenal, ABMA, OGMS, Thiokol and Rohm and Haas. On the right is Col. John R. Swinson from Dr. Skifter's office. (Photo by Kellar)



COUNCIL PLANS 'PIZZERIA' — The post's recently reorganized Enlisted Men's Council is shown hard at work laying plans for the big "pizzeria" which was held last week. The Council, along with the Special Services staff, has the responsibility of planning for special programs. Left to right are Harold Buttrum, Irv Terry, Miss Martha Gates (of Special Services), Tom Masterson, and Don Main.

'RECORDED' PHASE OF THIRD ARMY ENTERTAINMENT CONTEST SET WED.

The "recorded phase of the 19-57 Third United States Army All-Army Entertainment Contest will be held in the Rocket Service Club 6 March at 1930 hours.

Entry blanks may be obtained from the Service Club office. All service personnel on active duty are eligible to enter.

Competition for the "recorded" phase of the contest will consist of entries in the following categories:

1. Barbershop quartet. Quartets will consist of four male or four female singers. Songs will be in accepted "barbershop" style.

2. Spiritual or rhythm and blues group (three to five members). Selections may include spiritual, gospel, blues or rock'n'roll songs.

3. Country and western group (three to seven members). Performance will include instrumental music and may or may not include vocal presentation.

4. Battalion or regimental chorus (not less than 12 members including leader).

5. Post, division, or major command chorus (not less than 20 members, including leader.)

6. Army Band Chorus (not less than 12 members, including leader, which represent a TOE Army Band.)

7. Singing platoon (not less than 20 members, including leader). Songs will be sung in unison in march tempo.

The "live" phase of this contest will be held in the Rocket Service Club 13 March at 1930 hours. Competition for the "live" phase of the contest will consist of entries in the following categories:

1. Vocal soloist. Includes all styles (popular classical, semi-classical, musical comedy, folk, etc.) Contestants may accompany themselves.

2. Instrumental soloist. Includes accompanied or unaccompanied entries and all musical styles (popular, classical, jazz, etc.).

3. Individual specialty. Includes all single acts which are non-musical; not exclusively musical; which feature both voice and instrument; or whose performance depends for primary effect upon non-musical, comic, or novelty actions (dance, comic, novelty instrumentalist, vocal impersonator, etc.)

4. Vocal group (not more than four members). All vocal groups regardless of musical style, with or without accompaniment.

5. Instrumental group (not more than five members). All instrumental groups regardless of musical style. Vocal elements may be included provided they remain subordinate to the instrumental presentation.

6. Specialty group-musical (not more than three members). All group acts whose primary elements include novelty, comedy and/or dance, in addition to vocal and/or instrumental presentation; or group acts whose vocal and instrumental elements are equally prominent.

7. Specialty groups — non-musical (not more than three members). All group acts which do not contain any vocal and/or instrumental presentations (roller skating, judo, comics, tumblers, dancers, etc.)

Versatile Traveler Turns to Army Career

FORT GORDON, Ga. — First Lieutenant Jose A. Fierro has

been a well-known swordsman in Pan-America, a concert violinist in Mexico, a driver of racing cars in nine countries, an engineer in the U. S., and a soldier in two armies.

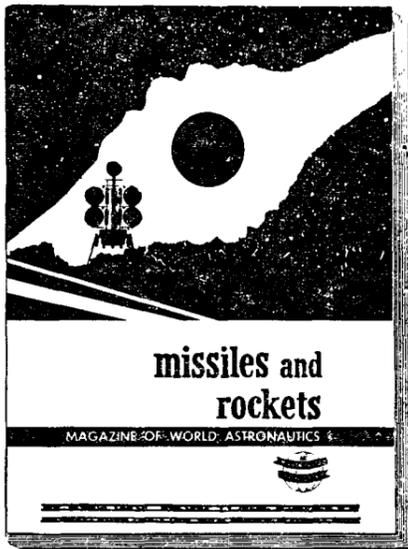
Now 29, the versatile globe trotter is assigned to the Signal Corps Training Center here for a while after a lifetime of shuttling between this country, Mexico, South America and Europe. Fierro was drafted for a year's service in the Mexican Army, where an accident to his hand cut short his musical ambitions. He embarked upon an engineering career at the University of Southern California, but once again his plans were changed by the draft — this time into the U. S. Army.

His career in the ranks included NCO Leadership School, and serving as aide to a general who once fought against the brigade his grandfather commanded in the Mexican border conflict. Fierro graduated from the Signal Corps Officer Candidate School at Fort Monmouth, N. J.

The U. S. Forest Service reports that 10 percent of commercial timberland — over 50 million acres — needs stocking.

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SPECIAL FEATURES COVER: ROCKET TRENDS, by Managing Editor Erik Bergaust.

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RR-2/57

SERGEANT GIVES SAVINGS & HOUSE TO HUNGARIANS

FORT RILEY, Kans.— A \$200-a-month Army sergeant who frequently quotes the Bible has proved that he tries to live by it too by turning over his life savings to Hungarian relief.

Sergeant Steve Bero of the 1st Infantry Division here withdrew \$1000 from Soldiers Deposits, the "Army Bank," and gave it to the American Red Cross. He is now planning to turn over to two Hungarian families a two-family house he inherited from his mother at (8307 Meyers Rd.) Detroit.

"They will be welcome to stay there as long as they want," says the armorer-artificer. "I don't want any rent. I just want them to feel welcome and to be able to get a new start."

Born 50 years ago in pre-World War I Austria-Hungary, Bero came to this country as a boy of 13. He fought as a U. S. soldier in Europe in World War II, and

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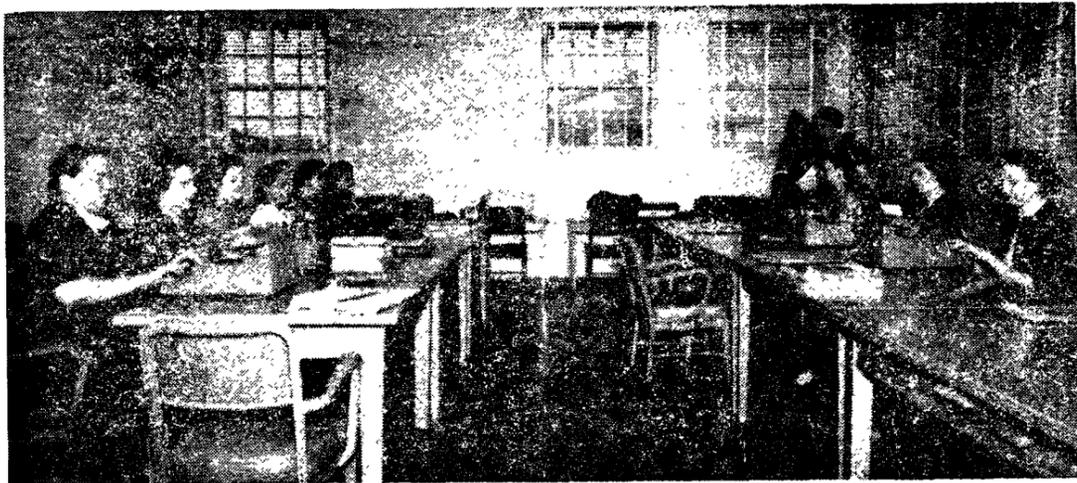
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CORRESPONDENCE COURSE INVALUABLE — Since May, 1954, more than 650 typists, stenographers, and secretaries at Redstone Arsenal have taken Correspondence Procedure Courses taught by Mrs. Lottie Clem of the Training Branch of Civilian Personnel. Results of this instruction are reflected daily in the improved appearance and clarity of correspondence.



QUESTIONS ANSWERED — In the Administrative Office of Redstone's Training Branch Mrs. Katherine Edwards, Miss Joan Posey, Guy Johnson, and Mrs. Naomi Turner spend a good deal of their time just answering phone calls about training.

'Employee Development' Objective Of Redstone's Training Branch

By John McCormick

The Arsenal's Training Branch pursues its objective of "Employee Development" on the Arsenal and off-Arsenal, during normal duty hours and after hours, with long courses and short courses — wherever there is a glimmer of a chance to develop an employee's latent ability to do a job better.

Let's lift the roof of Building T-152 for a closer look at the buzzing activity on the second floor during a typical work day.

Building T-152 houses the Redstone Arsenal Civilian Personnel Office, and the second story is honey combed with the offices and classrooms of the Training Branch.

In Classroom 5, twenty-two students are discussing communications problems. In Classroom 6, a group is learning to handle the new IBM time and attendance system. In Classroom 8, Dr. Ray Bittle is addressing a class of 18 supervisors on maintaining high morale in Arsenal organizations, large and small.

Down at the other end of the floor, two classrooms are filled with apprentices studying mathematics and physics. And, as she has been doing for the past several years, Mrs. Lottie Clem is conducting another correspond-

ence procedure course for new stenographers and typists.

While this concentrated classroom activity is going on, Co-op Coordinator Bill Merchant faces an office full of Co-op trainees back from college for reassignment at Redstone. Across the room Dr. Dennis Nead, University of Alabama Graduate School representative at Redstone, counsels a half dozen prospective students.

Next door in the Administrative Office of the Training Branch the telephone never stops ringing. People from all over the reservation are asking about off-Arsenal training, cooperative training, apprentice training, and graduate training.

In the Office of the Chief of Civilian Training, Chief E. A. Woody and Deputy Chief Jim Flanagan work in silence, indifferent to the turmoil boiling around them. It is only the audible culmination of plans they drew up from three to six months ago. Now and then a door slams and a half dozen times the walls resound with the voices and footsteps of people leaving their classrooms. All this activity is old news to Woody and Flanagan. They don't even look up. They are busy making plans for six months in the future.

By 4:30 p.m. the hectic day ends. Bill Merchant has talked to the last Co-op; Dr. Nead has counseled the last prospective graduate student. The day has ended, also, for over two hundred trainees and for most of the people in T-152. But for T-152 and for Civilian Training the day is only a little better than half over. At 4:45 a few graduate students getting in early to bone up for their evening classes are already arriving. Soon others began to drift in. By class time at 5:30, twenty-two students have appeared for Jim Norman's class in Nuclear Reactor Engineering. From 6 to 8 p.m. another course

will be in session. Only after it is dismissed will the work day be over for Civilian Training at Redstone. It is a typical day.

Training Is Continuous

Today at Redstone Arsenal, Civilian Training is a continuous process. During 1956, Civilian Training's most productive year, Training Branch personnel came into advisory or instructional contact with 4,272 Arsenal employees. This figure does not include the orientation of 2,496

new employees or the more than 750 Arsenal employees who received off-Arsenal training during 1956.

This educational achievement is all the more striking when you consider that as late as 1950, Redstone Arsenal had no Training Branch as it now functions. It is true that training programs were carried on during World War II and periodically between World War II and 1950. But these programs were geared to an earlier need. Like the new Redstone Arsenal, itself, the Training Branch has had to adjust to a radically new program, unique in many respects in the Department of the Army.

Special Needs Met

Since 1950 Redstone's primary mission has been in research and development in the field of guided missiles and rockets. In the increasingly complex environment of a research and development agency, ordinary problems like supervisor-employee relations or communications are likely to be magnified. Automatically, the need for training in very specialized areas becomes more acute. The Redstone Arsenal Training Branch has grown with the expanding research and development program, and in the years since 1950 it has been tailored to meet the special Arsenal needs. When a special training program has been required, the Training Branch has acted to fulfill the need.

As a typical example, take the Conference Leadership training program. Very soon after the reincarnated Arsenal began its new program, officials saw that communications techniques would have to be sharpened.

At Redstone on any given day more conferences — most of them on extremely important matters — are being conducted than at any other installation in the Army establishment. Yet to many Arsenal employees, the most effective methods of conference procedures were unknown. They needed help, and the Training Branch provided it. Conference Leadership has been restricted to top management and supervisory personnel; yet in the past three years around 250 people have taken the course, and the response has been enthusiastic.

The revived training program which had its formal beginning at Redstone with a chief and one typist in 1950 has blossomed into an organization numbering thirteen people of whom nine are training officers. At the present time the Training Branch is op-



COOL DOLL—While ice piled up on Lake Michigan, Joanne Boyne radiated warmth as she decorated the scene, proving that not even snow will stop pretty girls from posing in bathing suits by the shore.

erating eight important programs: Apprentice Training, Cooperative Training, Graduate Study, Introduction to Supervision, Supervisory Development, Conference Leadership, Clerical Training and Clear Writing. In addition, the Training Branch administers off-Arsenal training for personnel who may be going to such places as Rock Island Arsenal or MIT for special courses not available locally.

An article in next week's Rocket will elaborate on the Apprentice Training Program, the Cooperative Program, and the Graduate Study Program.)

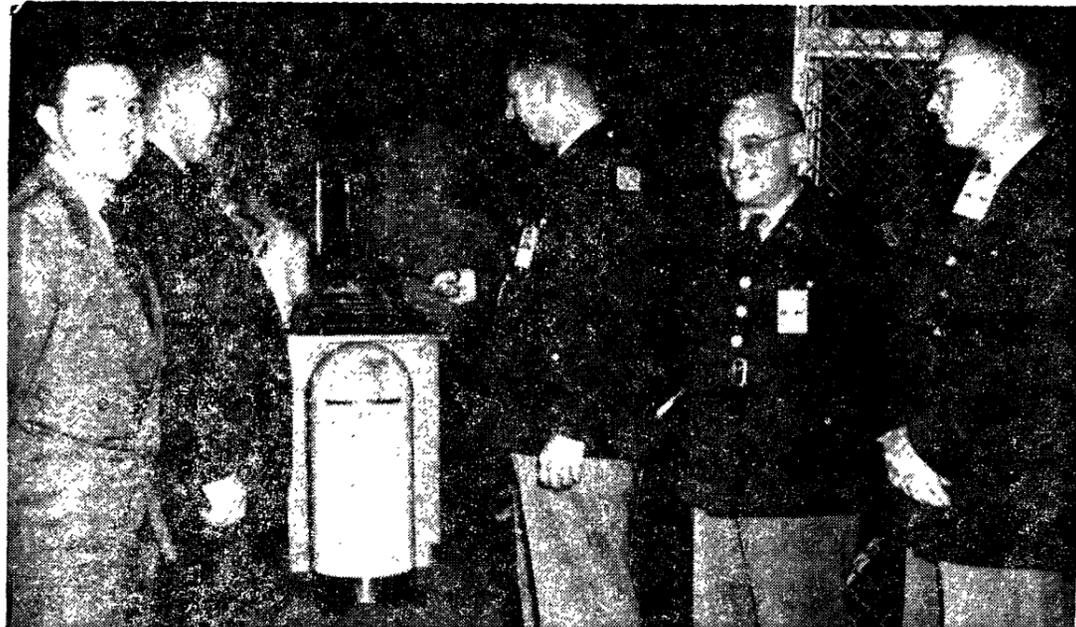
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SNACK BAR OPENS — Major William R. Cowan, (center), chief of the Technical Materials and Equipment Branch, snips the ribbon to officially open the new snack bar in Bldg. 781. The snack bar was opened for the convenience of approximately 200 people working in the TM&E area. Now they can obtain hot coffee, chili, soups, sandwiches, and other snacks during a break. With the major (left to right) are: W. E. Beck, deputy chief of the branch; Frank E. Ponton, food supervisor for the Army Exchange Service; Major Cowan, Capt. B. F. Stone, and Capt. J. H. Clark, special assistants.

Service Club Schedule

And so — we find ourselves at the beginning of a new month with a different schedule, which we would like to give you now, ole buddy. Man, I tell you, I don't know what you thought about February's schedule, but in my book — it was most active!

Well, let me see what's happening first that you should find out about today. OH! the big dance. In case you haven't heard, friend, we're having JOHNNY LONG and his big band. WHEN? March 7. WHERE? Rocket Service Club. TIME? 2000-2400 hrs. WHO? YOU. If you haven't been making our big dances, then let me tell you, YOU have missed some balls 'cause, believe you me, we've had them. We had about 500 people for our Eddie Allan dance and if we have many more at the JOHNNY LONG dance, we'll just have to enlarge his band for him and put a few things on the stage. Speaking of dances, please watch the DB's each week for the dance nite and who is playing. I'll give it to you now, but in case you forget —

According to this piece of paper which sets in front of me (that which we call the monthly program), I find first the Johnny Long dance, then — believe it or not, we finally get around to having Friday's for our dance nites. Let me tell you, it was a hard struggle, but we finally convinced some people that they would be very happy to play at the Service Club on Fridays — soon after the Johnny Long dance (which falls on a Thursday), we have a dance each remaining Friday. In case you haven't checked a calendar lately, those Friday dates are the 15th, 22nd, and 29th. Buzz Raynes will play the 15th and 29th and Charlie Lyle will play the 22nd. If it's dancing you're looking for, good buddy, we have it.

Now, if that takes care of the

dancing for this month, we'll try another (subject, that is) hmmm, yes, let's take Sundays at the Service Club. We told you that as long as we could bribe people to perform, we could continue our Sunday afternoon programs. I sound like I'm plugging the DB, but really, please watch the DB, and we'll give you the information each week about the programs to be given.

Right now, I'm not exactly sure about every Sunday (of course, I shouldn't be admitting that, since the schedule is supposed to be completed — but — we still have a few question marks that have to be changed to confirmation marks.) We'll have the entertainment if . . . (no, I won't say that). Anyhow, this much I do know. Sunday, March 10, the Huntsville Jr. High Glee Club is going to give a concert and Sunday, March 17, the Missilemen and Missilemaids are going to give us a concert. (You can come to this program as green as you like — St. Patrick's Day, you know. That reminds me of my grandfather (St. Patrick's Day, that is). For the first five years of my life, I thought my grandfather carried an apple between his forehead and mouth 'cause his nose was the biggest and most reddish I had ever seen. That was before I realized just how Irish he was. Of course, he use to wear a green suit a week before St. Patrick's Day. Oh, I wish my mind wouldn't wander around so. I'm really too busy for that. Anyway, if you haven't heard this group sing, you've missed a treat. Boy! this is a racket. I have to throw in a plug for everybody. This job should be salary plus an advertising commission. Anyway, and most seriously, I have only praise for this group 'cause they are great. I enjoy hearing them sing each Tuesday (practice nite, in case you're interested, from 7 'til 9.)

Then, the last Sunday in March (which is Mar. 31) the BARBER SHOP Quartet is going to give us a concert. They sang a couple of numbers in one of our talent shows and they, too, are very good.

NOTICE— Something very important for you people with talent. The 1957 THIRD UNITED STATES ALL-ARMY ENTERTAINMENT CONTEST is coming up and we should like to encourage you to enter. PLEASE CHECK the DB (again) and the Redstone Rocket for a separate

and special article about this contest.

Say fellows, we really have a good one for you this month. I hate to tell you about it so soon 'cause you will be a nervous wreck by the time the date gets here. But, if you promise to control yourself — here is the deal— How would YOU like to (not be QUEEN for a day) but go to Montevallo (Girl School) for a week-end? Take it easy, boy. Anyway, they are having a big formal. They are inviting between 40 and 60 for the weekend. The date is March 23. We would like to plan to get there after lunch and they have an afternoon of recreation planned and a picnic supper, weather permitting, otherwise eating in the college dining hall. Formal means coat and tie, no tux. Picnic will be at 5 and dance starts at 8. Men will have dinner at the college as guests of the girls and return to Redstone following dinner. All of this will cost a very nominal amount — \$2.00 at the

JOHNNY LONG'S ORCHESTRA TO PLAY FOR DANCE AT SERVICE CLUB THURS.

Dance lovers should check their date-books for the night of 7 March when Johnny Long will bring his orchestra to the Post Service Club for a single night's engagement.

The Long unit is noted for its library of modern dance arrangements, but also offers a program of versatile entertainers, featuring Sandee Moore, Mickey Gravine, The Long Shots, and The Glee Club.

Johnny Long, has been starred at every major college and university in the country, repeatedly playing Spring and Fall Proms in all the 48 states. Johnny aims music right at the college-age and is careful to see that his arrangements strike the proper balance for top dance music.

He is a charter member of that select circle of orchestra leaders credited with having produced a recorded composition that sold in excess of a million platters. Johnny's entry was the Decca recording of "Shanty In Old Shanty Town", made back in 19-

most and probably not that. It will be on the basis of the first desired number to sign-up so — We must know who is going by March 17.

FLASH! This one will really put you fellows in a dither. Best news in months. We are going to have either one or two bus loads of young ladies to come from Nashville to attend the JOHNNY LONG DANCE. Just think, lots and lots of girls for you to dance with — I just don't know whether you can stand all this or not. Please don't take it too hard — it would be horrible to have to recruit some more men.

Well, I close this time with this little thought —

If to the Service Club you come March seven

You'll think you are in heaven Cause the opposite sex which you adore

Will be here by the score \$50000

Ya'll come Katie

EVERYONE'S GOING! WHY NOT YOU?

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DISCUSS AWARDS — Frank H. Holmes (right) discusses the merits of the Incentive Awards program with the Arsenal commander, Maj. Gen. H. N. Toltoy, (center) and the assistant commanding general, Brig. Gen. John G. Shinkle. With the rapid increase in personnel, it was necessary to select representatives from the organizations here to help screen the suggestions of employees for merit and possible awards.

\$306,000 SAVED BY INCENTIVE AWARDS PLAN HERE, SAYS HOLMES

At the initial meeting of the Incentive Awards field representatives recently, Frank H. Holmes, executive secretary of the program, pointed out that \$306,000 has been saved the government here (without counting the intangibles), through the program since its inception on Post.

Employees have netted a total of \$7,200 in awards for their ideas — 30 per cent of which are adopted.

The field representatives include supervisory personnel from the Army Ballistic Missile Agency, Redstone Arsenal and the Ordnance Guided Missile School.

The group was organized to promote the Incentive Awards Program in the individual organizations and segments throughout this vast installation and is a part of the Ordnance Corps policy to help the individuals increase their effectiveness on a job and also to improve operations.

Cash is awarded for suggestions or inventions. Individuals may be recognized for sustained superior performances or special acts and services. Other awards are given for exceptional or meritorious civilian service. From the top (on a nationwide level), it is possible to attain a Presidential or Secretary of Defense award through this program.

Suggestions should be mailed to the Incentive Awards office rather than dropped in suggestion boxes here because there is no regular pickup from the boxes.

Holmes stressed the need for top management and supervisors to encourage participation in this program.

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Army Puts Safety Reminder on Leave Papers and Passes

WASHINGTON— "Drive Safely, Return Safely!"

This slogan, boldly imprinted on passes and leave papers, is the U. S. Army's newest tactic in an unending battle to reduce soldier-accidents on the highways. Sixty-nine percent of all soldier-fatalities occur in privately-owned vehicles.

Individual installations have stamped such slogans on these official forms in the past; this year for the first time the overprinting will be Army-wide, originating at The Adjutant General's office when the forms are made up.

As the Army knows full well, reduction of accidents on the highways depends to a great extent on the voluntary action of the individual driver. Because of the high fatality rate deriving from accidents in privately-owned—rather than Army—vehicles, a long-time educational program has been directed to the drivers of these cars.

Soldiers are urged to depend upon public transportation for

New Format, Policy For Army-Navy-AF Register Announced

The NEW Army-Navy Air Force Register has recently begun publication.

The Register itself isn't new—it's been supplying information to military men for 78 years. But the Register has had a "face-lifting" — a new format — and, according to an announcement by the publishers, a new policy: more news, better organized.

The Register, published in Washington, D. C., now features complete news coverage, plus informed analysis of all aspects of national defense by such men as Brig. Gen. S. L. A. Marshall, Robert S. Allen, Brig. Gen. Thomas R. Phillips, Walter Lippman, Col. R. Ernest Dupuy, George S. Carll, Jr., Ralph McGill, Col. John M. Virden, and Ansel E. Talbert. A two-page newsletter by H. R. Baukhage is also included.

long trips rather than make these by automobile; they are given special briefings on safety before holiday periods. Posters, exhibits and news stories in post newspapers emphasize the importance of observing traffic-safety rules.

Through these and other devices, the Army reports a marked decrease in fatalities due to off-post accidents.

In 1953, there was a 10 per cent

reduction over 1952, followed by a 20 percent decrease in 1954. During the first five months of 1955, the number of such deaths was 16 percent below the same period in 1954. However, there were still 144 military deaths due to these accidents, which, the Army figures, is too large a number.

The over-printed passes and leave papers are another way of

reminding soldiers that they take their lives in hand when they get behind the wheels of their cars. It's another step in the Army's participation in the national "Slow Down and Live" traffic-safety campaign.

Wantads Carry Many Bargains

Chevy tops all cars at Daytona officially

Coveted Manufacturers' Trophy Won By Chevrolet As Best Performing U. S. Automobile

There's no question about it now — official NASCAR* trials proved that the 1957 Chevrolet is America's outstanding performance car!

Running in the famous Safety and Performance Weeks competition at Daytona Beach, Florida, Chevrolets from all over the country piled up the largest point margin ever recorded to capture the official Manufacturers' Trophy!

Daytona is America's greatest open competition for stock cars. Claims don't count — just performance. Electronic timing equipment and keen-eyed NASCAR officials guarantee that results are impartial, that all cars are regular production models. And here are the cold, unanswerable figures:

FLYING MILE (two-way run)

CLASS FOUR (six-cylinder engines)

1. Chevrolet
2. Chevrolet
3. Chevrolet
4. Car A
5. Chevrolet

CLASS FIVE (low-priced V-8's)

1. Chevrolet (new class record)
 2. Chevrolet
 3. Chevrolet
 4. Chevrolet
 5. Chevrolet
- and Chevy won every other place in the first ten.

ACCELERATION (one mile from standing start)

CLASS FOUR (six-cylinder engines)

1. Chevrolet
2. Chevrolet
3. Chevrolet
4. Chevrolet
5. Chevrolet

CLASS FIVE (low-priced V-8's)

1. Chevrolet (new class record)

2. Chevrolet
 3. Chevrolet
 4. Chevrolet
 5. Chevrolet
- and Chevy won the first 18 places!

Even more significant for the average driver was the special competition for the "Big Three"—the definitive contest for cars in the low-price field. These were single-carburetor V-8's equipped with automatic transmissions, the most popular kind of car Americans buy. And what happens here? Take a look at the results:

"BIG THREE" CLASS (flying mile)

1. Chevrolet
2. Chevrolet
3. Chevrolet
4. Car A
5. Chevrolet

What does all this prove?

It proves — without any room for argument — that Chevrolet is the best performance buy in America. The 1957 Chevrolet is head and shoulders above everything else in its field!

Chevrolet is the best engineered car in its class. In every event — for six-cylinder cars, for high-performance V-8's, for automatic drive single-carburetor V-8's — Chevrolets piled up overwhelming margins. Note this particularly: Chevy V-8's were running against cars with larger displacement, bulkier engines. And they whipped them soundly!

This competition means only one thing to you: actual proof of performance, not fancy claims. And there's an even better way for you to sample what this means in your own terms: Drop into your Chevrolet dealer's showroom the next day or so. Drive a Chevrolet — any model that suits your taste. Whatever it is, you'll find championship performance, right across the board!

And remember this: Your Chevrolet man is giving winning deals on the winning car — you never got so much for your money!

* National Association for Stock Car Racing.

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'Fred's Folly' Becomes Important Test Apparatus

BY JOE JONES

A long metal pipe that resembles an above-ground water main has come into steady and important use here at this Army rocket and guided missile development center.

This awkward-looking home made apparatus is called a Fred Tube. Through its six-inch bore are fired rocket warheads, both "blank" and high explosive, which are undergoing exhaustive developmental testing.

Rocket heads roar out of the muzzle at vastly supersonic speeds. Their performance is recorded by a maze of intricate equipment which includes 22 electronically-controlled cameras.

Redstone scientists and engineers are testing for one or more of three possible variables: the behavior of the missile in flight, the functioning of the warhead fuze when it strikes the target, and the depth of penetration.

The Fred Tube, says Engineer William Graves of Redstone's Rocket Development Laboratories is perhaps unique in rocket business. He knows of no other like it.

The story of how its got its name is unique, for sure.

The Fred Tube (or preacceleration launcher, as it is more properly known) is the brainchild of a now-departed engineer named Fred. It never did completely fulfill the purpose of its original design, which was for use in perfecting a catapult for launching planes.

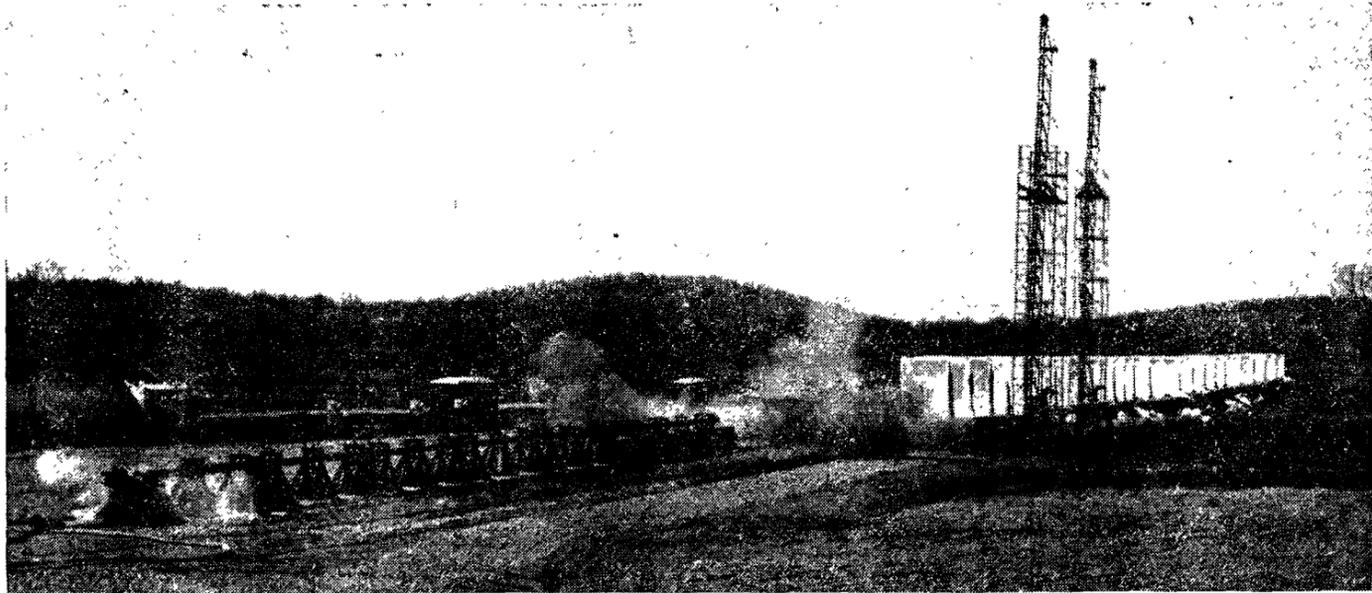
It was first dubbed by some "Fred's Folly," and, as it evolved toward its present stage, as "Fred's Project." Fred's project then became known as "Fred's Tube" and today simply "The Fred Tube."

In the case of small projectiles, such as the T214 aircraft rocket, the actual rocket is fired in the tube. Larger warheads, however, are reduced to aerodynamic models, perfect in respect to proportion and weight. Examples in this second group are warheads for the Nike and Redstone guided missiles, both of which are tested in the Fred Tube.

The warhead is fired to distances as great as 750 feet. Target material varies according to the type testing being performed: it could be nothing more than cardboard, which, when penetrated, reveals the position of the rocket at the point of impact. It could be aluminum or heavy steels.

Or, as in the series of recent tests, it could be several dozen sheets of paper, placed at 10 to 50 foot intervals down the firing range. Piercing this paper every few feet, the rocket leaves an easily readable record of its positions all along the 750-foot route. This information, correlated with pictures taken from three different angles (including from cameras foxholed directly beneath the rocket's path), furnishes the test engineer a full account of the projectile's behavior in flight.

A remarkable thing about the paper-cardboard tests is that the rocket head's velocity is not slowed by impact. Shock waves preceding the supersonic warhead actually break the surface of the target, allowing the missile to pass through with its speed unaffected in the slightest. The shock wave pattern left on



UNIQUE TESTS FOR WARHEADS — A rocket warhead zooms down the range from Redstone Arsenal's "Fred Tube", a unique facility for determining the performance of various rocket heads in the development stage.

Located on the steel towers at right are two of the 22 fast motion picture cameras that recorded the flight of this rocket from several different angles. (Photo by Carl Pickens)

the cardboard or paper, say the engineers, is as perfect as if the rocket itself had cut the opening.

Still another unusual feature of the Fred Tube is its propulsion, which is a common solid-propellant, reversed so that the backblast sweeps the rocket head down the smooth, 112-foot bore. The rocket head being tested is mounted in a tight fitting plastic carrier, which functions much as an ordinary piston. This carrier, known as a sabot (French for shoe), flies open and disperses as soon as the rocket head reaches the muzzle, while the missile continues freely down range.

The velocity of the test warhead is controlled by altering the propellant in the reversed rocket in the breech.

The method of propulsion is the main difference between Redstone's preacceleration launcher and several other located over the country. Others use either compressed air or the cannon principle.

Plans are underway to convert the Fred Tube to a vacuum operation, which will greatly increase the velocity obtainable. Successful vacuum tests have already been conducted.

ABMA Employee H. I. Smith, Wife Die in Plane Crash

An instrument-maker leader from the Guidance and Control Laboratory of the Army Ballistic Missile Agency was killed instantly on Feb. 25 when his plane crashed near Gravelly, Ark.

He was Haywood I. Smith, Jr., who had been employed at the arsenal since August, 1952.

Also killed in the crash were Mrs. Smith and Dr. and Mrs. Burton Chapman of Athens. Dr. Chapman was a chiropractor.

Smith was the pilot of the four-place Cessna en route from Plainview, Texas, to Decatur when the plane plunged down into the Fourche La Pave River. The plane was the property of the Pryor Aero Club of Decatur.

The foursome had been visiting Dr. Chapman's son at Plainview. He went to Gravelly to make arrangements for burial of his parents.

The McConnell Funeral Home of Athens returned the bodies of Mr. and Mrs. Smith to Athens. They are survived by one son, Kenneth, of Athens.

THE POST LIBRARY

BY ANNA L. FARRAR
Librarian

The new books listed are now on the shelves of the Post Library:

Poul Anderson, "Star Ways."
Kenneth Ainslie, "Pacific Ordeal."

David Beaty, "Proving Flight."
Leigh Brackett, "Tiger Among Us."

Robert Carse, "Age of Piracy."
Harold Davis, "Distant Music."
Mark Derby, "Echo of a Bomb."
Peter Field, "Guns for Grizzly Flat."

Ernest Gann, "Twilight of the Gods."

Erle Gardner, "Case of the Lucky Loser."

Hascal Giles, "Kansas Trail."
Marriane Hayes, "Bon Voyage!"

"Hi-fi Equipment Yearbook, 1957"

Kyle Hunt, "Kill Once, Kill Twice."

Shirley Jackson, "Raising Demons."

John Keats, "Crack in the Picture Window."

Joseph Krutch, "Great Chain of Life."

Russell Lynes, "Surfeit of Honey."

Magazine of Fantasy and Science Fiction, "Best From Fantasy and Science."

Charles Neider, "Man Against Woman."

Frank Norris, "Tower in the West."

Richard Powell, "The Philadelphian."

Elinor Pryor, "The Double Man."

Henriette Roosenburg, "The Walls Came Tumbling Down."

Sidney Stewart, "Give Us This Day."

Martin Russ, "The Last Parallel."

True (Periodical), "Treasury of True."

Mika Waltari, "The Etruscan."
Rebecca West, "Fountain Overflows."

William White, "Citadel; The Story of the U. S. Senate."

Eric Ambler, "State of Siege."
Shirley Barker, "Liza Bowe."
Frans Bengtsson, "The Long

THE REDSTONE ROCKET

MARCH 5, 1957

Page 11

Capt. Lieske Wins Commendation Ribb

Capt. Loren F. Lieske, Redstone's assistant inspector general, was recently awarded the Commendation Ribbon with Metal Pendant (second oak leaf cluster) for meritorious service during the period 9 March 1955 to 15 February 1957.

Ships; A Saga of the Viking Age."

Geoffrey Bibby, "The Testimony of the Spade."

Pete Brown, "Guns and Hunting."

John Dickson Carr, "Patrick Butler for the Defense."

Kenneth Dodson, "Stranger to the Shore."

Esquire, "Drink Book."

Brendan Gill, "The Day the Money Stopped."

Alfred Guthrie, "These Thousand Hills."

Alice Harwood, "Seats of the Mighty; A Novel of James Stuart."

Harnett Kane, "Miracle in the Mountains."

Emily Kimbrough, "Water, Water Everywhere."

Claire McCardell, "What Shall I Wear?"

Thomas Merton, "The Silent Life."

Ruth Moore, "The Earth We Live On."

Fulton Oursler, "A String of Blue Beads."

Monte Radlovic, "Etiquette & Protocol."

Alfred Sheinwold, "How to Improve Your Game."

Edwin Teale, "Autumn Across America."

Charles Underhill, "Slightly Psychopathic."

Joyce Warren, "Our Glad"

Edmund Wilson, "A Piece of My Mind."

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SAFETY-CONSCIOUS EMPLOYEES FORM CHAPTER OF WISE OWL CLUB HERE

Have you ever cheated blindness in an accident by wearing eye safety equipment?

If so, you can join the Wise Owl Club of Redstone Arsenal as a chapter of the Wise Owl Club of America.

W. E. Albright, Arsenal safety director, has just received a

charter establishing the club here. Any employe of Redstone Arsenal, ABMA, OGMS, or contractor firms who has saved one or both eyes in an on-the-job accident by wearing eye protection is eligible for membership.

Club members pay no dues. A single charge of \$2 is made for lifetime enrollment. Each approved member is given an enrollment certificate, and attractively-designed gold-filled lapel

pin, and a shop badge that is a daily reminder to the wearer — and to those who work with him — that eye accidents need not cause loss of vision.

The Wise Owl Club is sponsored by the National Society for the Prevention of Blindness, a leading non-profit organization for 50 years in sight conservation. It came into being in 1947 from an idea dropped in a suggestion box in St. Louis.

Today there are 10,750 Wise Owl Club members, who escaped loss of sight in a variety of accidents involving splashing chemicals, flying metal objects, sparks, burns, broken bits, and falls.

Germans Channel Wallet to Soldier

BAD KREUZNACH, Germany — A U. S. soldier who lost wallet passed through many hands before it was returned to his pocket is convinced that just about everyone is honest.

Private First Class John M. Shydowski of Burgettstown, Pa., lost his billfold in a forest while

Among the members are 128 women.

Mr. Albright has asked those who are eligible for membership or who know of others who are eligible to contact the Safety Office for information.

on a field exercise.

A week later Shydowski had it back with all his money and personal papers — and several sets of strange fingerprints.

Mrs. Hermine Knefel found the billfold while gathering wood. She turned it over to her boss, Forester Otto Mueller, who passed it on to the village mayor, Herman Paul.

Paul rushed to nearby Gessen to deliver it to county official Hermut Schmitt, who turned it over to the local Civil Affairs Office. From there the well-handled wallet was dispatched here to the Second Armored Division's adjutant. The next man in line was Shydowski.



VICTORIOUS in her fight against polio is lovely Hollywood actress Barbara Lang. Doctors told Barbara three years ago she'd never walk again. She was an invalid for several months, but her recovery is complete now, and she has the only female role in the forthcoming film "House of Numbers."

WANTADS

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-7131. tfc

FOR SALE—water front lots and water front cabins. See or call 4197, Guntersville, Ala. WORD REAL ESTATE & INSURANCE AGENCY. Office in the Marine Building. 3-12p

SEE WORD REAL ESTATE & Insurance Agency, Guntersville, Ala., P. O. Box 364, phone 4197, office in the Marine Building (City Boat Dock), before you buy or build. Join others living in the Playground of the South, live in Guntersville. 3-12p

FOR SALE—new and used boats. See HUGH WORD at the City Boat Dock in Guntersville, Ala., Phone 3226. We repair boats. 3-12p

ATTENTION, WORKING MOTHERS — I am opening a day nursery in my house for children of all ages. Anyone interested please phone JE 4-0840. Mrs. Ralph Howell, 315½ Wheeler Ave. 1tc

ROOM FOR RENT — gentlemen, share bath, located at 314 W. Oakwood Ave. Phone JE 4-6456 after 3 p.m. 1tc

LADIES — I have opened a beauty shop in my home at 800 B Ward Ave., and am prepared to do all kinds of beauty work. Will take night appointments. Phone JE 4-4975, Mrs. J. H. Anderson. 1tc

MODERN HEALTH Club Services — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy, sun lamp, swimming pool. Graduate Masseuse in charge. Phone JE 471-31. tfc

FOR SALE — Lake front lots on Guntersville Lake, near South Sauty Creek. For further information see or call, Roy Jackson, 3281, Guntersville. tfc

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