

Arsenal-Wide

Spot News

Dial 112

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XIII; NO. 30

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

DECEMBER 2, 1964

Scout Roundup Scheduled Saturday At Arsenal

Guided Missile School Observes 13th Birthday

The Army Ordnance Guided Missile School yesterday became a teenager.

Tuesday marked the beginning of its 13th year of operations under the terms of Department of the Army General Order No. 17 that established the school here and assigned it a variety of missions for individual and unit training of U.S. and foreign missile maintenance technicians.

Its first classes were conducted in a hastily converted World War II ammunition loading building where one instructor and seven students helped chop down an eight-year of growth of weeds — and adopted as a mascot a king snake that liked to sleep on a rafter behind the coal stove.

Today OGMS is the Army's only school devoted to missile maintenance training. Among its almost 35,000 alumni are most of the high ranking officers who direct today's Army missile programs, as well as the officers and men of scores of units deployed throughout the free world in support of tactical missile forces.

As an inter-service and international training center, OGMS trained more than 3,500 personnel of the U.S., Italian and Turkish Air Forces on the Jupiter intermediate range ballistic missile which was developed by the Army here at Redstone Arsenal and assigned to the operational control of the Air Force.

Since 1957, OGMS has trained the pioneer missile maintenance men of 18 foreign nations. Twelve of these are members of the North Atlantic Treaty Organization, three are from Asia and three are classed as "neutrals"—Sweden, Israel and Spain.

The U.S. Marine Corps, its Navy support elements and the (See BIRTHDAY on Page 2)

Colonel Predicts Peace Between Greece, Turkey

The violent dispute between inhabitants of the Mediterranean island of Cyprus will not develop into war between Greece and Turkey, the Greek military attache to the United States predicted here last Wednesday.

"It is unthinkable that war would break out between members of the NATO alliance," Col. Demetrius Kosteletos said in a press conference before addressing graduates of the Army Ordnance Guided Missile School.

The graduates included 33 Greek Army and Air Force members of a unit trained to maintain the Hawk missile system which is a standard air defense weapon for the North Atlantic Treaty Organization.

Others completing courses were from the U.S. Army and the Belgian Air Force.

Nine students were cited as honor graduates. Foreign honor graduates were: SSgt. Dimitrios Svolos of Gelanthi Karditsis, Greece; WO George Papakostantinou of Patras, Greece; SSgt. Dimitrios Lambrou of Asopia, Thibai, (crete) Greece; SSgt. George Dukakis of Rethymnon, Greece; Sgt. Willy A. Van Hee of Lombardzide, Belgium.

U.S. honor graduates were: SSgt. Don E. Wyles of Bremerton, Wash.; Sp/5 Lemley J. Chandler of Rogersville, Ala.; Sp/5 Jerry N. Hurst of Ripley, Okla.; and Pvt. Jerome J. Kennedy of Portsmouth, N.H.



CHARLES COX

Cox To Lead Reliability Conference

A reliability expert from the Army Missile Command will serve as conference leader this week at the Reliability Training Conference at Princeton, N. J.

Charles Cox, of the Directorate of Research and Development's Engineering Services Division, was selected on the basis of work he had done with the Missile Command on reliability, maintainability and human factors engineering.

The topic to be led by Cox is "Interfaces during research and development of reliability, maintainability, and deterioration prevention."

Attendance at the conference is limited. Reliability in electronic or electrical systems will be the main conference theme.

The conference is sponsored (See RELIABILITY on Page 3)

More than 2,000 Scouts and their adult leaders from nine North Alabama counties are expected at Redstone Arsenal Saturday, Dec. 5, for the climax to the annual Frontier Roundup sponsored by the Tennessee Valley Council, Boy Scouts of America.

It will be the eighth consecutive year the awards and exhibits have been held at Redstone. Col. Thomas W. Cooke, Commander, Army Missile Support Command, is chairman of the Roundup, which is a campaign to sign up new Scouts and bring back those who have not been active.

During the day, the boys from Cub Packs, Scout Troops and Explorer Posts will tour 18 exhibits set up on the Arsenal. They will see missiles, helicopters, tanks and guns, and sentry dogs.

The program is set to get underway at 8 a.m. with assembly in Building 7434. Following several selections by the 55th Army Band, Maj. Gen. John G. Zierdt, Commanding General, Army Missile Command, will welcome the boys and their leaders.

The Scouts will tour exhibits from 9 a.m. to 12 noon. Company B, 20th Special Forces, will give an exhibit of how to descend a vertical wall, and have survival equipment and foreign weapons on display. Sentry dogs from Ft. Benning, Ga., will provide a demonstration of attack and action over obstacles.

Equipment and vehicles used by an explosive disposal unit will be shown by the 13th Demolition Ordnance Detachment. The Army Reserve's 326th Chemical Company will display color smoke grenades and smoke generators. The senior ROTC drill group from Florence State College will demonstrate basic drills with and without weapons.

The Scouts will have the opportunity to see the Army's Sergeant surface-to-surface missile and the new Sprint anti-missile missile. Helicopters from the 18th Airborne Corps, Ft. Bragg, S.C., 2nd Infantry Division, Ft. Benning, and Ft. McClellan, Ala., will be in one of the exhibits.

The day of activities will be concluded with a presentation of awards by Col. Cooke. Scout leaders who have achieved their goals during the Roundup will be recognized. A tent will be presented to the boy in each of the Council's eight districts who has recruited the most Scouts.

The Tennessee Valley Council

is made up of the North Alabama counties of Madison, Franklin, Lawrence, Jackson, Lauderdale, Cullman, Colbert, Morgan and Limestone. Dan Mitchell, Cullman, is president. Robert L. Haskins is Scout Executive, with offices in Huntsville.

Safety Starts Countdown For Holidays

Safety Division personnel of the Army Missile Support Command are laying plans to start a "Countdown For a Safe Holiday Season" in an on-post effort to influence off-post behavior during the peak accident times at Christmas and New Year.

For the past several years, personnel of Redstone Arsenal have celebrated these two holidays without serious involvement in accidents. Col. Thomas W. Cooke, Commander of the Support Command, believes this can be attributed to well-planned campaigns and the sincere efforts of all concerned in making effective application of the methods selected to create safety awareness.

The 12-day "countdown" will begin on Dec. 12 and climax on Christmas Eve. During this time, various activities are planned to encourage civilian and military personnel to think about what they can do to celebrate the holi-

(See SAFETY on Page 3)

Microcards Solve Storage Problems, Save Money

Information which normally would be printed on a six-foot stack of letter-size pages now is contained in a pocket-size library 8½ inches high due to the cost-conscious thinking of an Army Missile Command employee. The saving added up to \$683,300.

Army technicians responsible of testing components of the Sergeant missile system were faced with an immediate need for trouble-shooting information. They needed technical instructions covering testing and repairing of every component to insure that it is working properly.

This need would have been met by furnishing 38,000 printed pages of technical data if George Rudd, then manager of the Sergeant technical publications program, had not been aware of the potential of using micro reproduction methods.

The 38,000 pages of information were reproduced on 560 Microcards (3 x 5 inches) containing 40

letter-size pages on each side, thus substituting a pocket-size library 8½ inches high for six feet of letter-size pages. Not only did this provide the necessary data in a concise, convenient form which saved premium space in the compact Sergeant field maintenance test stations around the world, but it was provided at less than two percent of the cost of conventional documentation.

Each of the test stations is provided with a "deck" of the Microcards and a small, portable viewer.

"We had mountains of information on testing and repairing the Sergeant which we needed to store away and have readily at hand at the same time," Rudd said. "Sometimes we may not need it but once a month, and then maybe only want to see one line. But when we want, it needs to be there."

Rudd worked with Jack Falkner and Lynn Wright of the Sergeant Project Manager's Office, and personnel of (See MICROCARDS on Page 3)



SPACE AND MONEY SAVER—Six-foot, four inch George Rudd of the Army Missile Command at Redstone Arsenal leans against a stack of 38,000 pages it would normally take for printing technical instructions covering testing and repairing of every component of the Sergeant missile system. Several months ago, Rudd, then manager of the Sergeant technical publications program, came up with the idea of printing the data on Microcards, which added up to a \$683,300 saving. On the table is an eight-inch stack of the cards with the technical instructions on them. Peggy Austin puts one of the 560 Microcards in a portable viewer. Computers of the Missile Command's Data Processing Office are in the background.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

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

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

Rocket Ruminations

There is no room for the impurities of literature in an essay.
—Virginia Woolf

Saving Defense Dollars Can Bring Personal Profit

Most of us in the armed forces have lately read a lot about the Defense Department's Cost Reduction Program. We know the program brings benefits to each of us, both as servicemen and as taxpayers.

But some of us, although we agree that cost reduction is great, may only shrug our shoulders about it saying, "I'm just doing my job. What can I do to save money? I don't have any bright ideas for a new gadget that will save umpteen thousand dollars. An Einstein I'm not!"

Maybe so, but you don't have to be a genius to know that if everyone saved just a small amount, the resulting total would be substantial.

Suppose you saved the government just a dollar a day. In a year, your contribution would be at least \$260. Now, that's not a lot, but if each of the two-and-one-half million men and women in uniform followed your example, the amount would be more than \$650 million—a good-sized piece of change.

In case someone is still skeptical — someone still can't imagine how he could save even a buck a day—we offer some suggestions. If applied vigorously, they'll total more than a dollar a day, and do it without a lot of fuss and strain besides.

To start with, we can make sure we're on the job on time and that we start work promptly when we get there. That'll save a lot of wasted time and consequently, a lot of money.

Then we can make sure we work safely, avoiding accidents. They cost money, both in lost time and medical expenses.

We can help out our co-workers when we can. That way the job gets done sooner, saving more money.

We can do top-flight work the first time we do it and avoid costly work repetition.

What's in it for us? Plenty! We'll improve our job performance, strengthen our skills and even open the door toward faster promotion.

But, best of all, we'll develop a new sense of pride in our work, in doing a top job for our service, our country and the welfare of every American. (AFPS)

Pearl Harbor Attack Taught Lesson In Preparedness

On Dec. 7, 1941, swarms of Japanese aircraft struck at United States military installations and ships at Pearl Harbor, Hawaii. The Japanese came in five waves of dive-bombers and torpedo planes from six aircraft carriers.

Within an hour they had severely damaged all eight battleships of the U.S. Pacific Fleet. Casualties totaled more than 3,000 killed and 1,000 injured.

Many explanations have since been given for the success of the enemy raid. Among them were: inadequate reconnaissance patrols; unmanned and unarmed anti-aircraft batteries and defensive planes lined up in neat rows on the airstrips.

In short, the armed forces of the United States were generally unprepared. The Japanese warlords had every reason to believe their crippling attack would establish Japan's superiority in the Pacific for the duration of the war.

But the Japanese failed to take into account the American love of freedom and the determination of Americans to defend it. And, although the Japanese did continue to pile up victories in the Pacific for a while, any schoolboy can recount how quickly Americans mobilized for war and how doggedly they fought back until the tide was turned and the war was won.

But we did learn a great lesson from the attack at Pearl Harbor. We learned the danger of unpreparedness and we learned it well. Today, the U.S. Pacific Fleet Headquarters at Pearl Harbor is one of the mightiest bastions of military defense the world has ever known. And all over the world, similar military installations stand ready to defend the freedom of the United States and its allies.

Those of us who presently serve with the armed forces have a personal lesson to learn from the Pearl Harbor attack. No matter what our job—we all make an important contribution to the preparedness of today's arm-forges. If we do that job to the best of our ability, we'll know we have done all we can to insure there will never be another Pearl Harbor.

Our country spends billions of dollars each year to maintain the armed forces. We are the ones who ultimately must make certain each dollar counts. (AFPS)



ANOTHER MINUTEMAN FLAG HOISTED—The Directorate of Research and Development at the Army Missile Command has earned the right to fly the Minuteman Flag by having more than 90 percent participating in the U. S. Savings Bond program through payroll deductions. Looking on as the blue and white flag is raised by SFC4 Larry Romesberg and SFC John Bullock are, from left to right: Lt. Col. S. W. Josephson, R&D Director; Maj. Gen. John G. Zierdt, Commanding General, Missile Command; Brig. Gen. H. P. Persons, Jr., Deputy Commanding General, Air Defense Systems; and Col. D. A. Marcelle, Finance and Accounting Officer.

BIRTHDAY

(Continued From Page 1)

Canadian Army are participating in the Hawk air defense missile training program, and most of the European and Asiatic nations have progressed through the Nike-Ajax to the Nike-Hercules and now the Hawk. In addition, the German Army and Air Force are training on Sergeant and Pershing.

In its first years, OGMS had many commandants. Some were assigned for only a month or two while the school was in a provisional status.

The first commandant to be assigned for a normal tour of duty was Col. James P. Snooks who served from mid-1952 into 1955. Then, Col. Henry S. Newhall, now retired, served for four years. He was succeeded by Charles W. Eifler, now a Brigadier General and deputy commander for land combat systems of the Army Missile Command. After Gen. Eifler came Col. William J. Macpherson who became commandant in 1961.

Under them, OGMS has become a \$65,000,000 Class activity of the U.S. Continental Army Command, with a staff, faculty and permanent party of some 1,680 persons who train and support some 5,000 students per year.

With its closed circuit television facility, ingenious and imaginative use of new training aids and devices, development of its pioneering common block techniques for instruction in basic missile maintenance technology, OGMS has become a unique repository of knowledge of the rocket age.

The list of systems on which OGMS has trained its thousands of graduates reads like a history of Army missile development—Nike-Ajax, Corporal, Redstone, Jupiter, Nike-Hercules, Hawk, Sergeant,

Pershing.

In the future are still others — TOW for the Infantry, Shilleleagh

and Lance—and still others that will be weapons of the 1970's along the defense of the free world.

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\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

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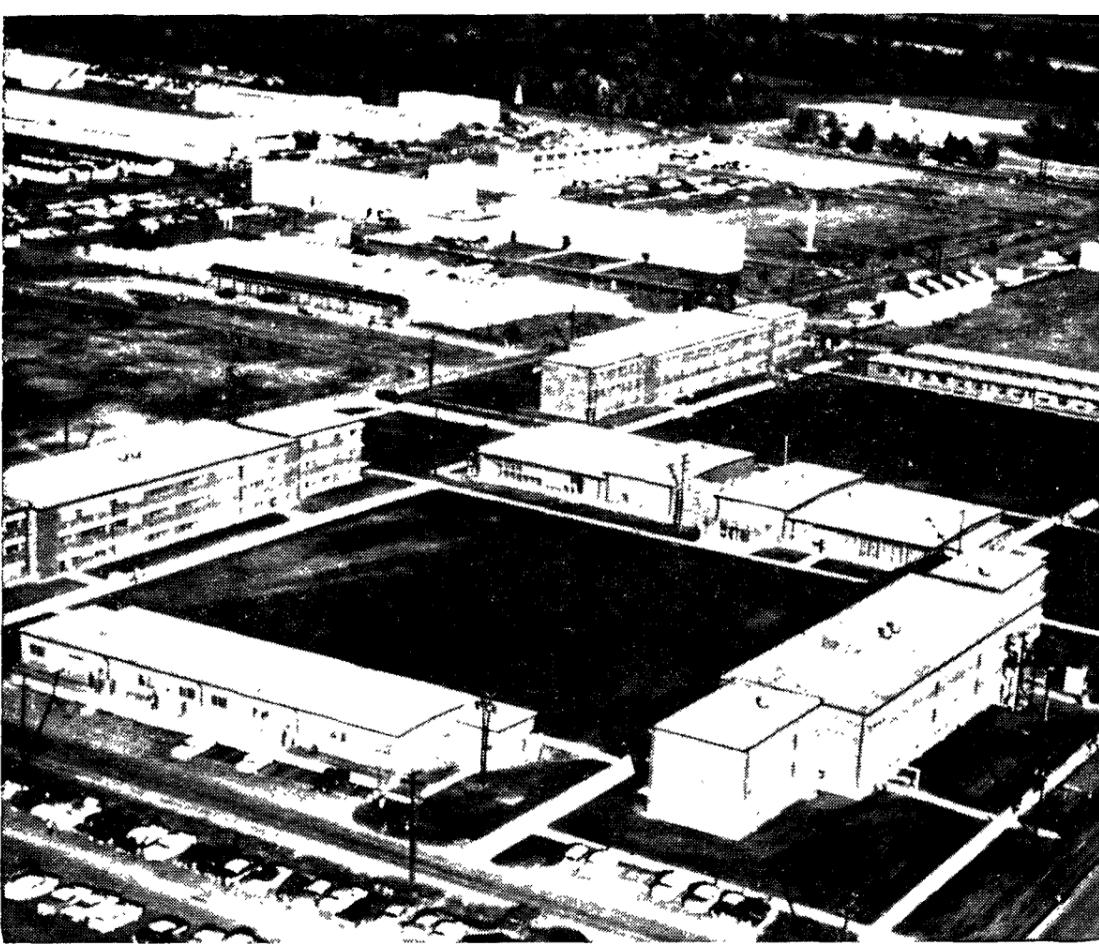
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TO TOWN-SIZED CAMPUS—Now a Class I activity of the Continental Army Command, the Ordnance Guided Missile School today uses buildings and equipment valued at \$65,000,000 to train some 5,000 students per year from 18 nations in missile maintenance technology.



ZERO DEFECTS—Brig. Gen. Charles W. Eifler, Deputy Commanding General for Land Combat Systems, participated in the Sperry Utah Division's kickoff for a Zero Defects program. With the General are J. J. Leete, (right) manager of the Utah operation and Sperry Gyroscope Company's vice president, P. Halpert. Zero Defects is a Department of Defense program of personal motivation to encourage individual workers to "do the job right the first time."

SAFETY

(Continued from Page 1)

days without an accident. Safety films will be available for showing; slogans like, "Let's All Have a Wreck-less Holiday Season" posted; and booklets on the day-by-day "countdown" passed out to all employees.

One person from each major organizational element is being selected to coordinate the safety campaign within the operating segments of his respective organization.

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RELIABILITY

(Continued From Page 1)

Control. The ASQC will hold a one-day meeting at the same location on Dec. 5.

jointly by the Institute of Electrical and Electronic Engineers and the American Society for Quality

Number of Blue-collar workers in the Federal service dropped 12 percent during the period 1952-62.

MICROCARDS

(Continued From Page 1)

Sperry-Utah, prime contractor for the missile system, in ironing out related problems. Feasibility studies are underway to determine other areas of the publications program where this form of documentation can be used for further cost savings.

Rudd, a native of Huntsville, Ala., has been employed at Redstone Arsenal for more than 10 years. A graduate of Monrovia High School, he has studied at the University of Alabama Huntsville Campus. He recently was promoted to chief of technical publications, Publications Branch, Directorate of Supply and Maintenance.

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The Training and Development Division, Civilian Personnel Office, Army Missile Support Command, is the Army's answer to the problem of keeping up with new management techniques, advances in technology, and improving the qualifications of its personnel.

It's a big order and the Training and Development Division administers one of the most extensive employee training and development programs in the Army today to fill the order. The objective of the Division is to plan and carry out a broad program of training to increase the knowledge and proficiency of employees and improve their effectiveness in the performance of official duties.

The training and development of employees will enable them to carry out their present and future assignments more effectively and thereby increase their usefulness to the Department of the Army.

Training service is provided by the Training and Development Division for civilian and military personnel of the Missile Command, the Nike-X Project Office, and the Army Ordnance Guided Missile School. In FY 1964, Redstone Arsenal personnel participated in 19,232 man-courses of training according to the records of the Training and Development Division.

Activities of the Division range from providing instruction and coordinating training courses to administering a contract with the University of Alabama for a large graduate study program. The Division also serves as a training center for the development of civilian personnel specialists to be assigned to Army Materiel Command installations at the completion of their training here.

The mission of the Training and Development Division requires a man of vitality to direct its many day-to-day activities and a man with imagination to make the plans to meet future training needs of the Arsenal. John Hinkle, with 22 years combined military and civilian service with the Uni-



JOHN HINKLE

ted States Army, is Chief of the Training and Development Division.

Before transferring to the then Army Ordnance Missile Command in 1960, Hinkle was chief of Training at Picatinny Arsenal for seven years and Civilian Personnel Officer at Camp Kilmer for ten years, where he received the Army Commendation Ribbon for meritorious service in civilian per-

sonnel activity.

Hinkle's interest in training and education is evident by his membership in many such societies and associations. He is chairman of the U. S. Civil Service Commission Regional Training Council, Board Member of the Cooperative Education Division, American Society of Engineering Education, and vice-president, Huntsville Chapter, Society for Personnel Administration.

As a lieutenant colonel in the Army Reserve, Hinkle serves as S-3 for the Huntsville USAR School. He is a member of the Joint MICOM-MSFC Graduate Study Steering Committee and serves on several other local school and education committees.

The Training and Development Division is divided into the On-Post and Off-Post Training Branches. The On-Post Branch coordinates the civilian career management program and administers training and development activities when they are conducted by personnel assigned to this installation.

William Clark, veteran of twelve years military and civilian service



WILLIAM CLARK

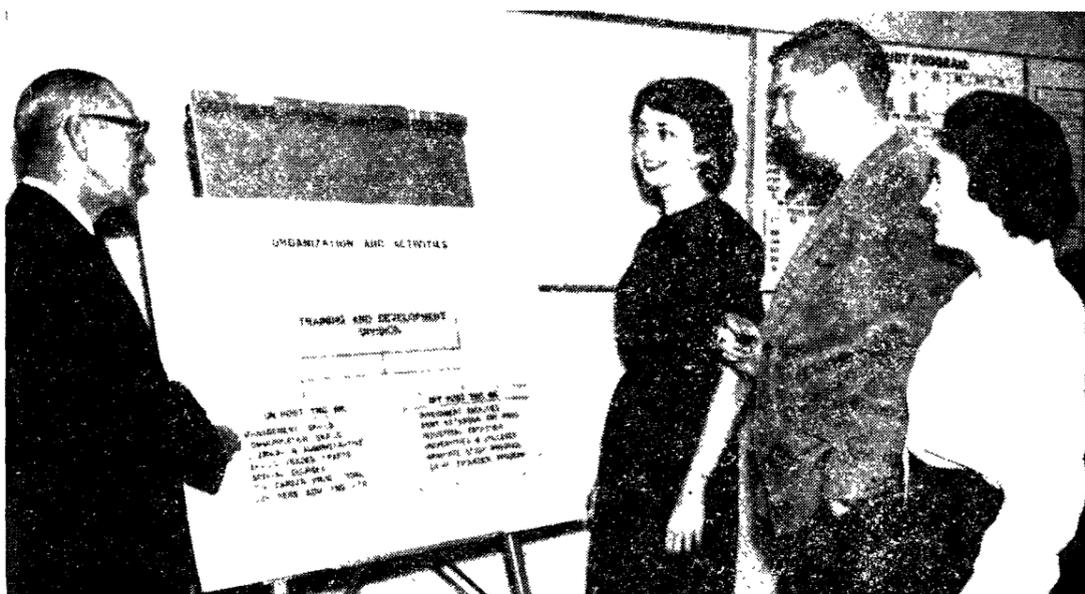
with the Army is chief of On-Post Training Branch. Clark has B.S. and M.A. degrees in the field of education from the University of Alabama and has three years experience as a public school teacher.

He came to the Arsenal in 1955 and served as the staff training specialist for the Civilian Personnel Office of the Army Rocket and Guided Missile Agency.

During this fiscal year, six employee development officers under Clark's supervision will teach or coordinate approximately 150 classes of instruction and will give direction to the civilian career management program.

The Career Management Program provides guidance and assistance to operating personnel and Civilian Personnel Office functional areas on civilian career program development, maintenance, and evaluation. The program is coordinated by Charlie Syer who has the unique distinction of being able to talk about the weather, knowingly, and make it interesting. Syer has a B.S. degree from the University of Tennessee.

He has fourteen years of service with the United States Weather Bureau at various climatological and aerological stations. Syer has taught meteorology and basic mathematics and served as Director of Academic Training, Southern Aviation School, Decatur, Ga. He was an instructor and supervisor at the Brazilian Air Force



NEW EMPLOYEE TRAINING—Charlie Syer (left) explains the organization and function of the Training and Development Division to Barbara Combs, a recent graduate of Auburn University. Miss Combs is one of three trainees who are undergoing an intensive 18-month training program in civilian personnel administration. At the completion of her training, the Atlanta native will be placed in a civilian personnel office within the Army Materiel Command. L. S. Harrison and Sue Howard, of the Division staff, will also have a role to play in Miss Combs' indoctrination.

School in Sao Paulo, Brazil. He came to Redstone Arsenal in 1961.

To be implemented soon by the On-Post Training Branch is the Army's newest program entitled, Workshop for Middle Managers. Between now and the end of the fiscal year, some 400 Missile Command supervisors are expected to complete the training.

The program, aimed at specific problems and human relations in management areas, will be directed by Harry Brandon, who recently transferred to the Training and Development Division from OGMS. Brandon has B.S. and M.A. degrees from Middle Tennessee State College and is a veteran of more than sixteen years of military and civilian service.

He came to Redstone Arsenal in 1956 after serving as an instructor with the Veteran-on-the-Farm Training Program and with the Army at Aberdeen Proving Ground.

Employee Development Officer, Russell Cooper conducts and coordinates most of the introductory and basic supervisory development courses provided by the On-Post Training Branch.

After earning a degree from the University of Florida, Cooper served three years in the United States Air Force as a navigator. He still spends many weekends flying to Europe, Puerto Rico, and Hawaii as a navigator in the Tennessee Air National Guard. He has the rank of captain.

Many courses of training are conducted for administrative, clerical, and secretarial personnel. Lucy Grace teaches correspondence procedures and office practices, preparation of teletypes, plain letters courses and coordinates training in records management, preparation of travel orders and travel vouchers, preparation of time and attendance and labor job cards, and an Advanced Secretarial Seminar.

She has a BA degree in English

from Alabama College at Montevallo, and has taught English for five years in Hopkins County, Ky. and Huntsville public schools.

One of the most popular courses taught by the Training and Development Division is reading improvement. This course and many others are taught or coordinated by Lawrence Williams and Lewis Baker of the On-Post Training Branch staff.

Williams has a B.S. degree in English from Memphis State University. He is an Army veteran and spent the last four and a half months of World War II as a German prisoner-of-war. He serves in the Tennessee National Guard and is president of the PTA at the Highland Rim School at Fayetteville, Tenn.

Baker is a graduate of the University of Southern Mississippi with a B.S. degree in history. He taught in the public schools of Mississippi for three years before coming to Redstone Arsenal in 1962 and has had eleven years military service including both the Army and Air Force.

The Off-Post Training Branch administers training and development activities when such activities are conducted by personnel and agencies outside of the Arsenal. This Branch also coordinates the Cooperative Education and the Joint USAMICOM-MSFC Graduate Study Programs.

Jack Hardin, Branch Chief, has a B.S. degree from the University of Nebraska and M. Ed. from the University of Colorado. He has eighteen years experience as teacher and principal in the public schools of Alaska, Colorado, and Kansas.

He has also served as airplane mechanic and instructor at Chanute Field, Ill., and Keesler Field, Miss., and as an Education Specialist and Training Officer in Alaska.

The Graduate Study Program is a contract arrangement with the

University of Alabama for the conduct of graduate courses on the Huntsville Campus for the benefit of Missile Command, Marshall Space Flight Center, and govern-



JACK HARDIN

ment contractor personnel. From September 1963 to August 1964, 116 classes were conducted under this contract with a total enrollment of 895 making this one of the largest graduate study programs in the Southeast.

The program is coordinated by John Heath. Heath has a B.S. degree in Mathematics from the University of Southern Mississippi and has four years experience as a teacher and principal in the public schools of Mississippi. He has had eleven years military service, completed the Associated Command and General Staff College Course, and served as staff assistant, Military Department of the State of Mississippi from 1953 to 1960. Heath is now a Lt. Col. in the Army Reserve.

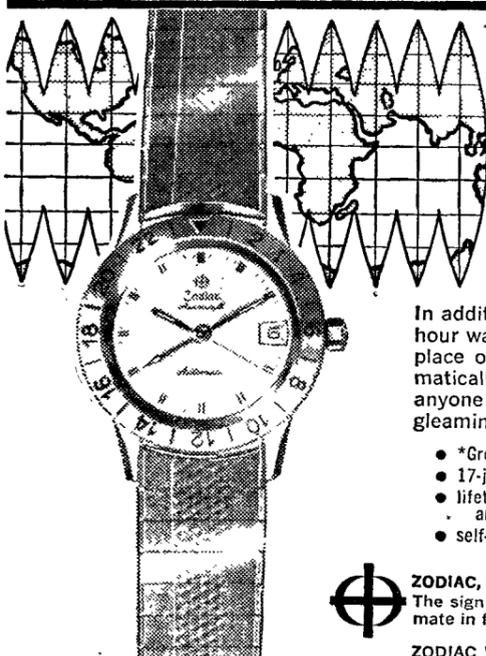
The Cooperative Education Pro-

(Continued on Page 5)

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TRAINING
(Continued From Page 4)

gram provides a combination of college study and practical work experience. College students alternate periods of academic study with periods of employment with the Army. Currently, 58 students from ten colleges and universities are participating in the program, which is coordinated by L. S. Harrison.

He has a B.S. degree in social science from the University of Tennessee and did graduate work in guidance and counseling at Memphis State University. He worked as a teacher and counselor in the public schools of Tennessee for four years. Harrison began his government career as a Civil Service Commission investigator in 1963.

In addition to the Graduate Study and Cooperative Education Programs, the Off-Post Training Branch is responsible for coordinating the attendance of civilian personnel in under-graduate, graduate, and short courses at various colleges and universities, courses provided by numerous industrial firms, Army Service Schools, and training by other Federal Agencies.

There are very few training facilities in the United States that escape the attention of this branch in their search to fulfill the training needs of the Arsenal. To meet the Missile Command's demands for training, the Off-Post Training Branch frequently arranges for the instruction to be given by an outside agency.

A number of Department of Defense, Army and Civil Service Commission courses have been taught locally, saving considerable monies by the elimination of personnel travel costs. On the other hand, Missile Command needs require training to be given at distant points.

Not long ago, corrosion control courses were arranged for personnel on the West Coast to meet missile contractor needs. Many of these special arrangements for training fall on the shoulders of Alice Cox, an experienced employee development officer with over five years at Redstone Arsenal and three and a half years with the Air Force.

Assisting in this busy activity is Ethel Morris. Mrs. Morris has a varied background of experience having worked in the Registrar Office while attending Auburn University, has taught in the Morgan County public school system, and has done radio and TV continuity writing in addition to her eight years experience with the Army at Redstone Arsenal.

In support of the training and development professional staff, is

an experienced secretarial and clerical staff made up of Sue Howard, Nita Dawson, Sue Hall and Donna Morris.

The Training and Development Division is located in the Quonset Area, sometimes referred to as "Tin City."

Within the Supply and Maintenance Directorate is a three-man organization whose mission is to plan and administer the training requirements for personnel of that Directorate in coordination with the Missile Command's Personnel and Training Office.

It is the Training Section head-



ERNEST PLUNKETT

ed by Ernest Plunkett. He is assisted by William Sparkman and Brownie West.

They plan and operate new personnel orientation programs, develop the internal training program, and administer the Army career program for all components of the Directorate.



Brownie West Wm. Sparkman

A former teacher and principal in Etowah and Cherokee Counties, Plunkett has been with the Missile Command since 1960, having transferred here from the Gadsden Air Force Depot, where he worked for 14 years.

He has a B.S. degree from Jack-

sonville State College.

Sparkman also has a background in public school education, having taught vocational agriculture and biology in Tennessee for six years after receiving his B.S. from the University of Tennessee.

He went into the Federal service at the Naval Air Technical Training Center, Memphis, Tenn., in 1959 as an instructor. He came to Redstone as a training specialist in 1962.

Many of the same educational and training opportunities provided for civilian personnel are also available to those military personnel assigned or attached to Redstone. The service is administered by the Army Education Office headed by Paul Fisher.

Through the office in Building 3210, the Army Education Office counsels and advises military personnel in all phases of educational opportunities available to them and conducts a semi-annual survey to determine the needs for educational service.

Some of the services available through the office are: guidance in enrollment for high school, college or correspondence courses; assistance in obtaining Government tuition assistance for attendance at civilian colleges during off-duty time; testing service for final examinations from both USAFI and civilian school courses; and the administration of high school and college General Educational Development (GED) tests leading to the granting of diplomas or degrees.

Assisting Fisher is Nellie Sharp, an educational advisor, and a regularly assigned enlisted man.

Another facet of military train-



JACKIE MOTLEY

ing is the military service school training program conducted by Winfield (Jackie) Motley, of the Support Command's Assistant for Operations and Security.

An Arsenal employee for almost nine years, Mrs. Motley provides military personnel with training at Army service schools, those

from other services, and civilian institutions.

Another phase of Mrs. Motley's mission is to schedule and coordinate the active duty training for USAMICOM Mobilization designees and those Reserve Officers who request training at this installation.

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Only two weeks have elapsed in the Unit Level basketball league season but already all indications point to an extremely close and hard fought race on both the team and the individual scoring fronts.

All but two of the 13 competing units have tasted defeat and only two others have yet to emerge victorious at least once.

Frank McMillan holds the individual scoring lead by a scant two point margin over Lonnie Underwood. Despite missing the last game played by the 1st ETC, McMillan has poured 56 points through the hoop for a 28 point average. Underwood has accounted for 54 of the Headquarters, STC, points.

The Officers captured their second and third straight last week to claim a half game over the MPs who made it two for two in ushering MICOM out of the unbeaten ranks.

The Officers handed the 3rd ETC cagers their first setback on Monday, 47-33, and came back the next night to waltz by A Company, 61-39. Johnny Bowen set the pace with 12 counters in the first game while Jim Wollrab claimed the honors in the other contest with 14.

The MPs outscrapped MICOM for their win in one of the most interesting games played so far, 60-52. Vike Stuart hit for 18 MP points with Tony Cerna adding

clash with B Company, 43-39, as Al Whisenhut led the scoring with 13. Dan Smith was high in the losing cause with 11.

Another first time winner emerged in the AMSC-2nd ETC go when the Headquarters five followed the lead of Mel Anderson to chalk up a 51-47 win. Anderson turned in the week's high scoring effort with

21 points and George Downing added 15 more. Ken Wyche and Don Olson collected 31 between them for the ETC cagers.

C Company went down in defeat for the first time when they dropped a 55-45 contest to 3rd ETC. Blanton and Jacobson teamed up for 28 points in the winning effort while Logan tallied 19

for C Company.

With McMillan out of the lineup, the 1st ETC utilized a well-balanced attack in taking the measure of A Company, 40-29. Larry Lewallen and Fred Stublefield scored nine apiece for the winners and Pete Carruthers collected

ten for A Company.

The final game on the weekly card saw Headquarters, STC, race to a convincing 61-43 win over 4th ETC. Lonnie Underwood collected 16 and Tom McGuire added 13 for STC, and Paul Erskin tossed in 17 ETC points.

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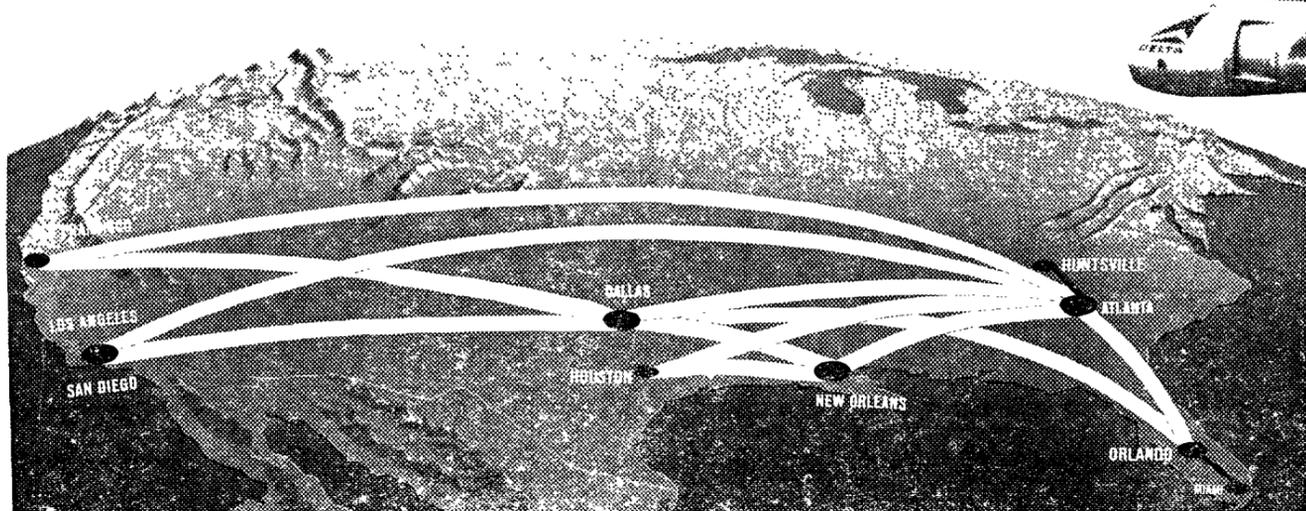
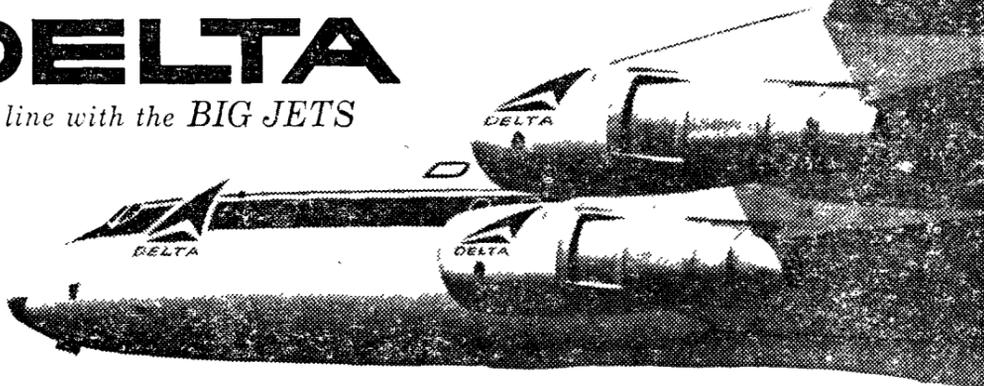
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4th ETC	2	1
MICOM	2	1
C Company	2	1
AMSC	1	1
3rd ETC	1	1
1st ETC	1	2
A Company	2	1
2nd ETC	1	2
Marines	0	3
B Company	0	3

The Big Five

	fg	f	Pts
Frank McMillan	23	10	56
Lonnie Underwood	20	14	54
Ed Logan	19	12	50
Paul Erskin	20	4	44
Harvey Spencer	16	5	37

13 and Ron Persfield hitting for 12. Bernie Bell and Larry Davis combined for 35 points for MICOM.

C Company won their second game and handed the Marines their third setback in another good battle, 44-36. Harvey Spencer and Ed Logan hit 17 and 16 points respectively for the winners while Al Leverton was once more the leading Marine point maker with 13.

The 2nd ETC entered the win column for the first time in a

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Mrs. Windell Wins Golf Fall Match Tournament

Mrs. A. A. Windell won the Fall Match Tournament played by the Golf Group sponsored by the Redstone Arsenal Officers Wives Club.

Mrs. Windell's name is now engraved on the permanent trophy on display at the Club and she was presented with a silver hollowware tray. Mrs. W. D. Lewis was runnerup in the tournament.

Presentation of the trophies was made at lunch at the Squirrel Hill Officers Club. Approximately 30 golfers and guests attended the event.

Mrs. William Wachsler was presented the consolation prize. Mrs. Lloyd Deppensmith was consolation runnerup.



MATCH WINNERS—(Left to right); Mrs. Tony Windell won the Match tournament sponsored by the Redstone Arsenal Officers Wives Golf Group. Mrs. W. D. Lewis was runnerup; Mrs. William Wachsler received the consolation prize and Mrs. Lloyd Deppensmith was runnerup for the consolation. The trophies were presented at a lunch in the Redstone Room of the Squirrel Hill Officers Club.

Golf Group Elects New Officers

The Golf Group, sponsored by the Redstone Arsenal Officers Wives Club, elected a new slate of officers to serve during the coming year.

Mrs. E. I. Donley is the new chairman, replacing Mrs. W. D. Lewis. Mrs. Jim Brownlee is the new secretary treasurer and Mrs. William Cole the vice chairman.

The entire slate presented by the nominations committee was accepted unanimously.

Ferranti Completes Management Course

FORT BELVOIR, VA.—Angelo L. Ferranti, who is Deputy Systems Manager for the U.S. Army Missile Command, Redstone Arsenal, Ala. and who resides in Huntsville, was among 54 specially selected officers and civilians from the U.S. Army and other governmental agencies who were graduated from the U.S. Army Management School recently.

The school, especially important for commanders, deputy commanders and other principal staff officers serving in senior managerial positions, presents executive level courses dealing with the development of doctrine, organization procedures, and techniques relating to the performance of managerial functions of Army installations and activities.

The modern military manager must cultivate a maturity of mind, humane wisdom and insight in thought, feeling and action. He must have the power to think accurately and incisively. The U.S. Army Management School's courses are designed to assist him sharpen these essential qualities.



NEW OFFICERS—The Golf Group of the Redstone Arsenal Officers Wives Club elected a new slate of officers for the coming year during a luncheon in the Squirrel Hill Officers Club recently.

Mrs. E. I. Donley is the new chairman. At left is the secretary-treasurer, Mrs. Jim Brownlee and right is the vice chairman, Mrs. William Cole. Approximately 30 golfers attended the lunch.

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SOCIAL and CLUB EVENTS



PACKING LAYETTES—Steven Risley, two and one-half, helps Mrs. Raymond Sandoval and Mrs. Gerald Birch, pack layettes for the Mission of the Mountain in Appalachia. Mrs. Birch was chairman for the project undertaken by the Redstone Arsenal Catholic Women's Sodality. The women prepared 25 layettes.

Sodality Sends Layettes To Appalachia Mission

The Catholic Women's Sodality shipped its second "box" to Appalachia last week. The first contained adult clothes; the second held 25 complete layettes.

The women read about the Mission of the mountain run by Rev. Ralph Baiting in the lowest per capita income area in the U.S. and communicated with him to find out how they could help. Rev. Baiting is Dean of the Mountain Missions and his parish covers areas so remote only a hiker can reach them.

The Sodality divided the layette fixing into two groups; seamstresses and packers and mailers.

Among the seamstresses were Mrs. Stanley Fragge, Mrs. Henry Asselin, Mrs. A. McDermott, Mrs. Edward Roy, Mrs. Russell Cogsville, Mrs. Joseph Bondick, Mrs. Frank Pitruzzello, Mrs. Robert Bi-

toni, Mrs. Lawrence Freeman, Mrs. Raymond Sandoval, and Mrs. Carlos Velez.

Mrs. Sandoval and Mrs. Earl Otto, Sodality president, helped in both areas. Other packers and mailers were Mrs. R. Cancel, Mrs. Edward Risley, Mrs. Richard Maroon and Mrs. David Smith.

CLUB HEARS REPORT

W. L. Berry, general manager, Thiokol Chemical Corporation's Space Booster Division, Brunswick, Georgia, last week outlined progress on Thiokol's large solid booster program to the Thiokol Management Club. They met at the Squirrel Hill Officers Club.

Describing the unique system for preparing propellant ingredients at the Georgia Plant, he told the group that rejection of ground perchlorate had been reduced to practically zero.

Christmas Tea Scheduled December 8

The Redstone Arsenal Officers' Wives Club will hold their annual Christmas Tea at the Squirrel Hill Officers Club on Tuesday afternoon from 2 to 4 o'clock.

Highlight of the event will be the donation of silver money. These donations will be given to the Lunch Aid Program to assist needy children with school lunches in the city of Huntsville.

Hostesses will be the wives of officers assigned to the Pershing Project under the chairmanship of Mrs. Edwin I. Donley. Mrs. Thomas

E. Little, Jr., is in charge of the decorations, and Mrs. Jonathan L. Holman, Jr. is handling details for the menu.

Reservations should be made by noon Friday with Mrs. C. Richards

at 877-5575, Mrs. S. Josephson at 877-4960, Mrs. C. Powell at 877-5647, or Mrs. W. Mehlinger at 877-5250. Cancellations will be accepted until noon Monday with Mrs. A. McNeil at 877-4364.

Transportation Association Plans Christmas Party

The Highway transportation industry was highlighted in the November meeting of the Huntsville Chapter of the National Defense Transportation Association, held at the Elks Lodge Nov. 19.

Charles Kolb, Regional Sales Manager of the Transcon Lines, Memphis, spoke on "Transcon's Transonic Boom."

Prior to the presentation by the guest speaker, Mayor Glenn Hearn, guest of honor, addressed a few remarks to the group, recognizing the importance of the work that can be accomplished by the organization, which has as a primary objective the securing of national defense.

Mayor Hearn was advised by the President, Lt. Col. Glenn Bass that it is proposed that the first three months of 1965 will be devoted to the establishment of plans and policies concerning Civil Defense, and requested the cooperation of the appropriate municipal offices in the effort. An agreement will be drawn between the city officials and the NDTA which will provide a firm transportation capability in the event of any type of emergency. Civil Defense planning will continue as a major effort of the Huntsville Chapter of NDTA.

Plans were discussed for a dinner-dance Dec. 17 at the Elks Lodge.

Social Scheduled December 11 At Squirrel Hill Club

The Department of Individual Training at the Ordnance Guided Missile School will sponsor the bi-monthly social Dec. 11 at the Squirrel Hill Officers Club to greet newly assigned officers at the school and honor departing officers.

Assigned officers, student officers and civilians entitled to club privileges are eligible to attend.

The social hour will be from 7 p.m. to 9 p.m. and a dance orchestra will play until 12:30 after the social hour closes.

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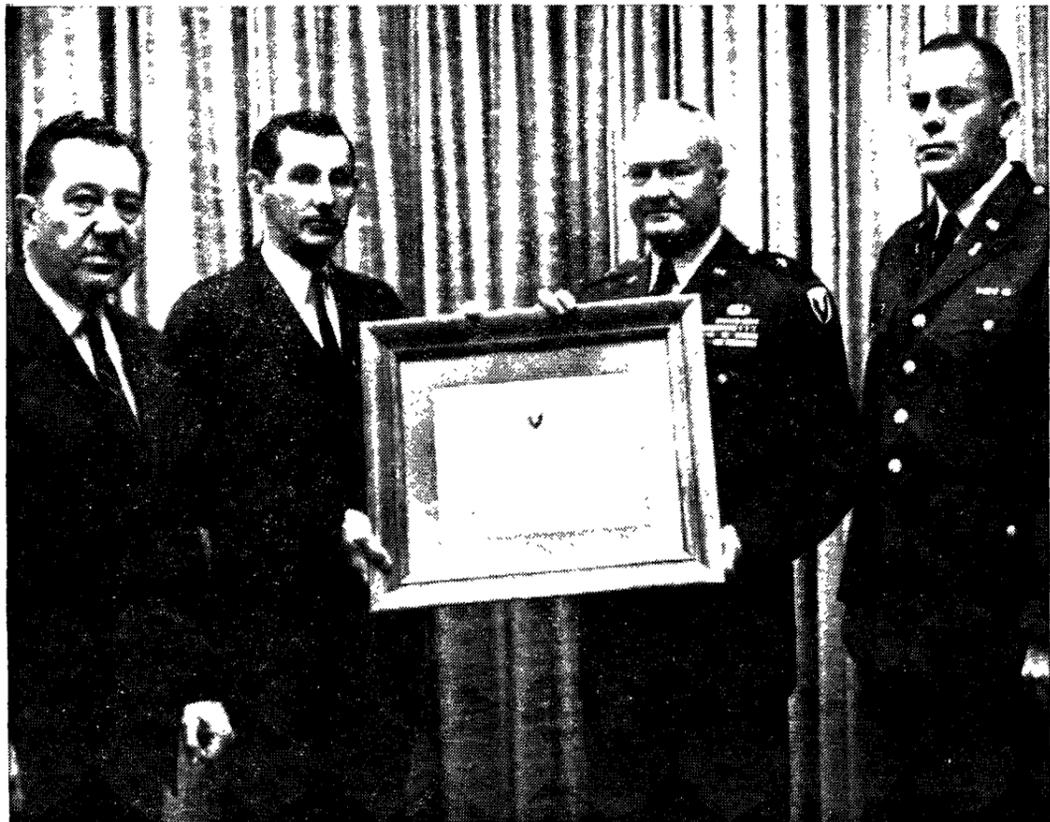
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SAFETY PLAQUE—Brig. Gen. Howard P. Persons, Deputy Commanding General of the Missile Command for Air Defense Systems, last week presented an Army Materiel Command safety commendation to the Charlotte (N.C.) Army Missile Plant. The Douglas Aircraft operated plant manufactures Hercules missile equipment. It had a per capita accident rate during Fiscal 1964 that was less than two-thirds that of the Army Materiel Command average. During the year the plant had only one Army motor vehicle accident and five disabling accidents to personnel. Shown receiving the plaque are, from left to right: G. C. Neff, Safety Engineer at the plant; A. D. Jamtaas Vice President and Acting General Manager; Brig. Gen. Persons; and Maj. Floyd Teller, Commanding Officer of the Charlotte plant.

R&D Reorganized Gains 2 Generals

Gen. Frank S. Besson, Jr., Commanding General, Army Materiel Command, in announcing an organizational change in his research and development directorate, has appointed two general officers to act as deputy directors of the AMC research and development program under Brig. Gen. W. C. Gribble, Jr., the Director of Research and Development.

Brig. Gen. Kenneth H. Bayer has been named Deputy Director of Research and Development (Operations) and Brigadier General Tobias R. Philbin, Jr., Deputy Director of Research and Development

(Plans).

Gen. Bayer as the Deputy Director for Operations is responsible for the current year research, development, test and evaluation (RDTE) program. As such he acts for the Director on all matters pertaining to the execution and accomplishment of this program.

General Philbin is responsible for the formulation of all plans for future year RDTE programs. He supervises the preparation of the five-year RDTE budget program and research and development portions of command plans and estimates. This includes mobilization plans and the long range technical planning, forecasting, and conceptual analysis of matters relating to the Army combat developments program.

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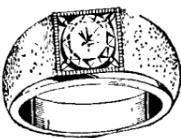
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DOWNTOWN

Mrs. Gulbranson And Col. Clark Win At Bridge

The Monday night bridge group winners last week at the Squirrel Hill Officers Club were Col. Sam J. Clarke for the men and Mrs. I. V. Gulbranson for the women.

Runnersup in each category were G. P. Dunlap for the men and Mrs. John Tyson for the women.

Nine tables were in play during the evening. The Group is open to members of the club. Reservations to play are handled by Mrs. R. U. Scott, 772-3273.

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COLONEL VISITS HOME STATION—Robert G. Libby (left), a chemical engineer with the Army Missile Command's Directorate of Research and Development, briefs two visitors from Canada. Lt. Col. Edmund W. Kreischer is a project officer for the Directorate's ARPA Division, but his duty station is the Canadian Armament Research and Development Establishment at Valcartier, Quebec, Canada. At right is Dr. Leon J. J. L'Heureux, chief superintendent of CARDE, who was here with Col. Kreischer to discuss cooperative projects of the two organizations.



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Rohm And Haas Receives Contract

Rohm and Haas Company at Redstone Arsenal was this week awarded a \$200,000 contract by the Army Missile Command for continued experimental and development work in support of solid, guided missile propulsion.

Rohm and Haas is located in government owned but contractor operated facilities at Redstone.

The contract was negotiated by the Directorate of Procurement and Production of the Missile Command.

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At The Service Club

By BETTY HAYES

Christmas is in the air!! Many of you have already purchased the first gift for that special person while others are making arrangements for transportation home for the holidays.

The Service Club Staff has planned activities for the month which are guaranteed to give you the Christmas spirit: a Holiday Revue; a German Christmas Party; a White Christmas Semi-Formal Dance; and a Christmas Pageant are only a few of our programs for the Christmas season. Wait a

minute!! Let's back up and start with this week's events.

The Enlisted Men's Council will meet today at 2 p.m. If you would like to be the representative from your company, let your First Sergeant know about it. The Council is composed of representatives from each company on post and its mission is to assist the Staff in planning and carrying out Service Club programs. Come to the meeting today with ideas for better programming.

Tonight at 8 p.m. small games will be played, which include monopoly, sorry, scrabble, parcheesi, stratego, and others. Those of you who haven't participated in the games, come out tonight and join in the fun.

Thursday, Dec. 3, has been set aside for card night, at 7:30 p.m. Hearts, pinochle, bridge, and other card games will be played. Prizes will be awarded to the winners of each of the games.

A table tennis contest has been scheduled for Friday, Dec. 4, at 8 p.m. This will be your chance to show others that you are a real champion. Remember the more we have to participate; the bigger the prize will be. Tell your friends about the contest and let's make this the best table tennis contest.

Since Saturday is your day for relaxation, why not spend the afternoon at the Service Club watching the ball game on TV; playing your favorite card game; or shooting a game of pool!! While you are enjoying your afternoon of relaxation with us, I will try to make your day more pleasant by serving coffee to you at 3:30 p.m.

On Saturday evening, Dec. 5, a Christmas decoration party has been planned for 7 p.m. Come and help us decorate the lounge for the holiday season.

Hot coffee and donuts will be served on Sunday, Dec. 6, at 9

a.m. St. Nick's Frolic is the theme for the dance Sunday evening. The Showmen, a group of Enlisted Men, will furnish music for the occasion, and they have promised to play the special dance tunes which you like. Come out and join in the fun!!

An evening of games will be played on Monday, Dec. 7, at 8 p.m. hours. Try your luck—you may win the grand prize.

Since bridge is a popular game at the Service Club, many of you have asked for instructions. Tuesday, Dec. 8 has been designated

NEW CITADEL HEAD
FORT MONROE, VA. — Gen. Hugh P. Harris, Commanding Gen-

eral, U.S. Continental Army Command (CONARC), stated recently that he has accepted an appointment as President of The Citadel. His appointment will be effective July 1, 1965. No retirement date for Gen. Harris has yet been set. He will replace Gen. Mark W. Clark, who has been Citadel president for the past 10 years. Gen. Harris has commanded CONARC since March 1, 1964. His replacement here has not yet been determined.

—Betty

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GOODLOE TAKES COURSE

John H. Goodloe, General Manager, Thiokol Chemical Corporation—Huntsville Division, has completed a nine week executive training course at Massachusetts Institute of Technology.

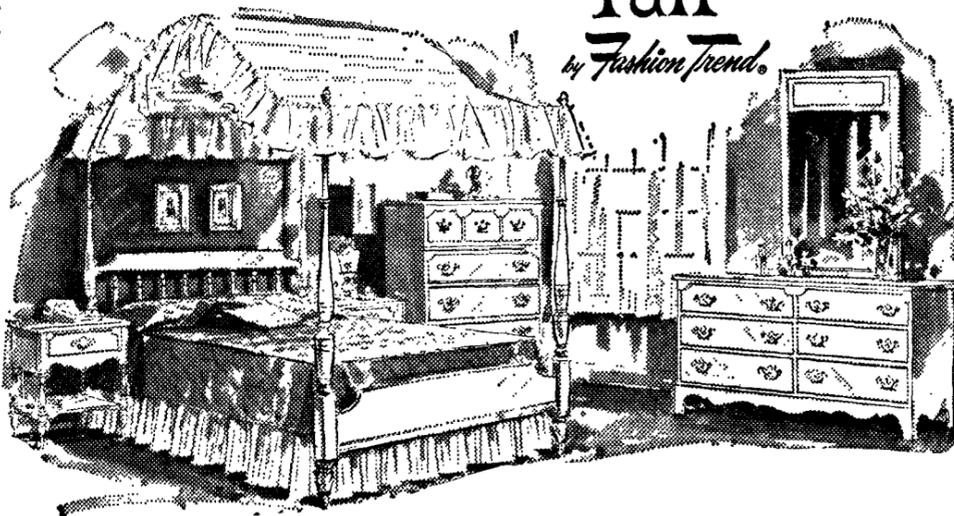
Goodloe has been General Manager of Thiokol's Huntsville Division since Jan. 1 of this year, and has been associated with the Huntsville Division in various capacities since 1953.

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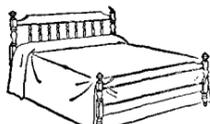
Bachelor Chest with 3 Drawers Bachelor Cabinet with 1 Drawer and 2 Doors
1-Drawer Corner Desk



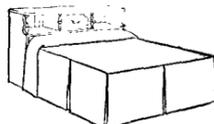
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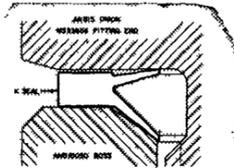


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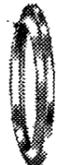
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Bixby, William, "Skywatchers: The U. S. Weather Bureau in Action."
Bracken, Peg, "I Try to Behave Myself."
Champagne, Marian Mira, Facing Life Alone.
Clark, Harold F., "Classrooms in the Military."
Duscha, Julius, "Taxpayers' Hayride."
Engle, Paul, Poet's Choice.
Feis, Herbert, Foreign Aid and Foreign Policy.
Furness, Edna L., Spelling for The Millions.
Gardner, Richard M., "101 Hand Puppets."
Gurney, Gene, The Pentagon.
Johnson, Haynes, The Bay of Pigs.
Johnson, Lyndon B., "A Time for Action."
Kennedy, John, The Burden and the Glory.
Lewis, Norman, The Honored Society.
Levine, Sol, "Appointment in the Sky."
Luce, Iris, ed., Letters from the Peace Corps.
Menzel, Donald Howald, A Field Guide to the Stars and Planets.
Mercer, Charles, "Legion of Strangers."
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Monsma, John Clover, ed., "Religion and Birth Control."
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Poe, Edgar Allen, The Complete Tales and Poems of Edgar Allen Poe.
Rupert, Raphael, A Hidden World.
Schottland, Charles I, The Social Security Program in the United States.
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Turnbull, Colin M., The Peoples of Africa.

Wimmer, Hed, Egypt.
White House Historical Association, The White House; An Historic Guide.

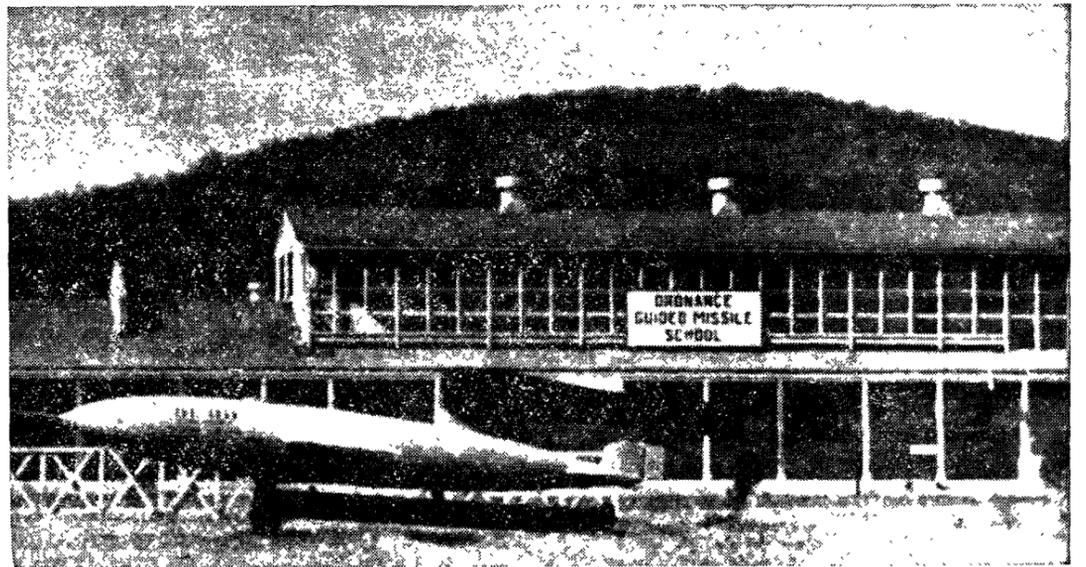
FICTION

Ashford, Jeffrey, Will Anyone Who Saw the Accident.
Behan, Brendan, The Scrapper.
Boyle, Harry J., A Summer Burning.
Corrington, John William, And Wait for the Night.
Creasey, John, The Scene of the Crime.
Du Maurier, Daphne, Jamaica Inn.
Farrell, Cliff, Return of the Long Riders.
Gardner, Erle Stanley, The Case of the Phantom Fortune.
Golding, William, The Spire.
Hodder - Williams, Christopher, The Higher They Fly.
Knebel, Fletcher, "Convention."
Knight, Damon, ed., A Century of Great Short Science Fiction.
Mason, F. Van Wyck, Rascals' Heaven.
Millar, Margaret, The Fiend.
O'Conner, Edwin, "I was Dancing."
Remarque, Erich Maria, "The

Night in Lisbon."
Roberts, James Hall, The Q Document.
Savage, Mildred, In Vivo.
Slaughter, Frank G., "A Savage

Place."
Stote, Alfred, Strangers and Comrades.
Uris, Leon, Armageddon.
Vidal, Gore, Julian.

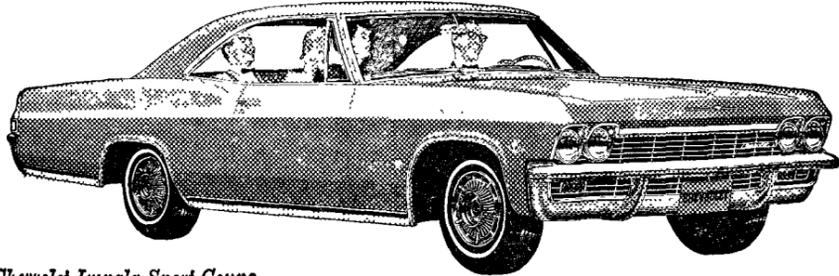
Walsh, Thomas, To Hide a Rogue.
Waugh, Hillary, The Missing Man.



FROM MAKESHIFT BEGINNING—The Army Ordnance Guided Missile School, now entering its 13th year, began in this World II ammunition loading building with a U.S. version of the German V-1 rocket as its only training equipment.

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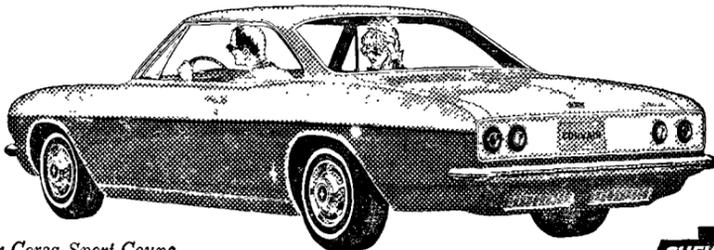
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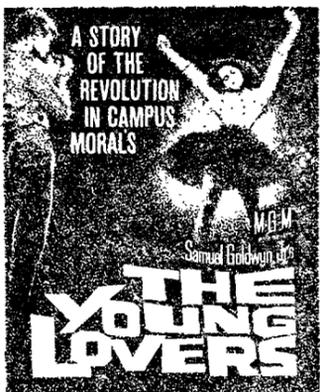
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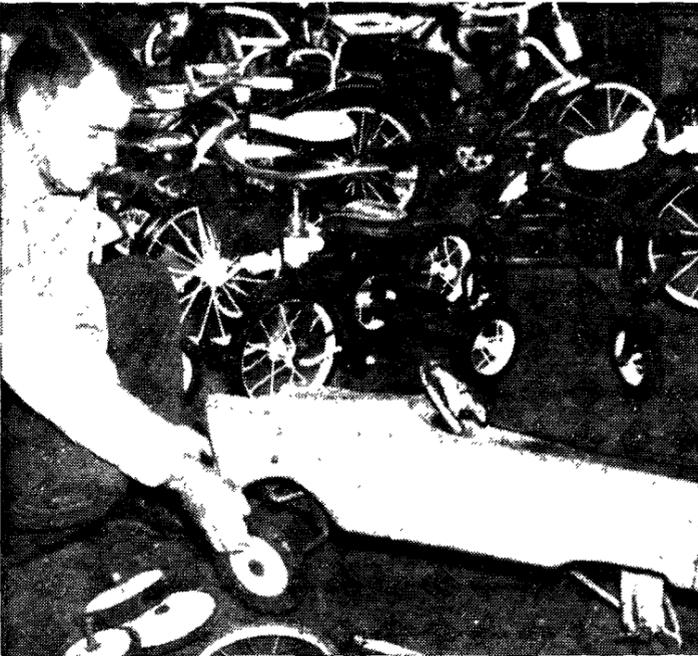
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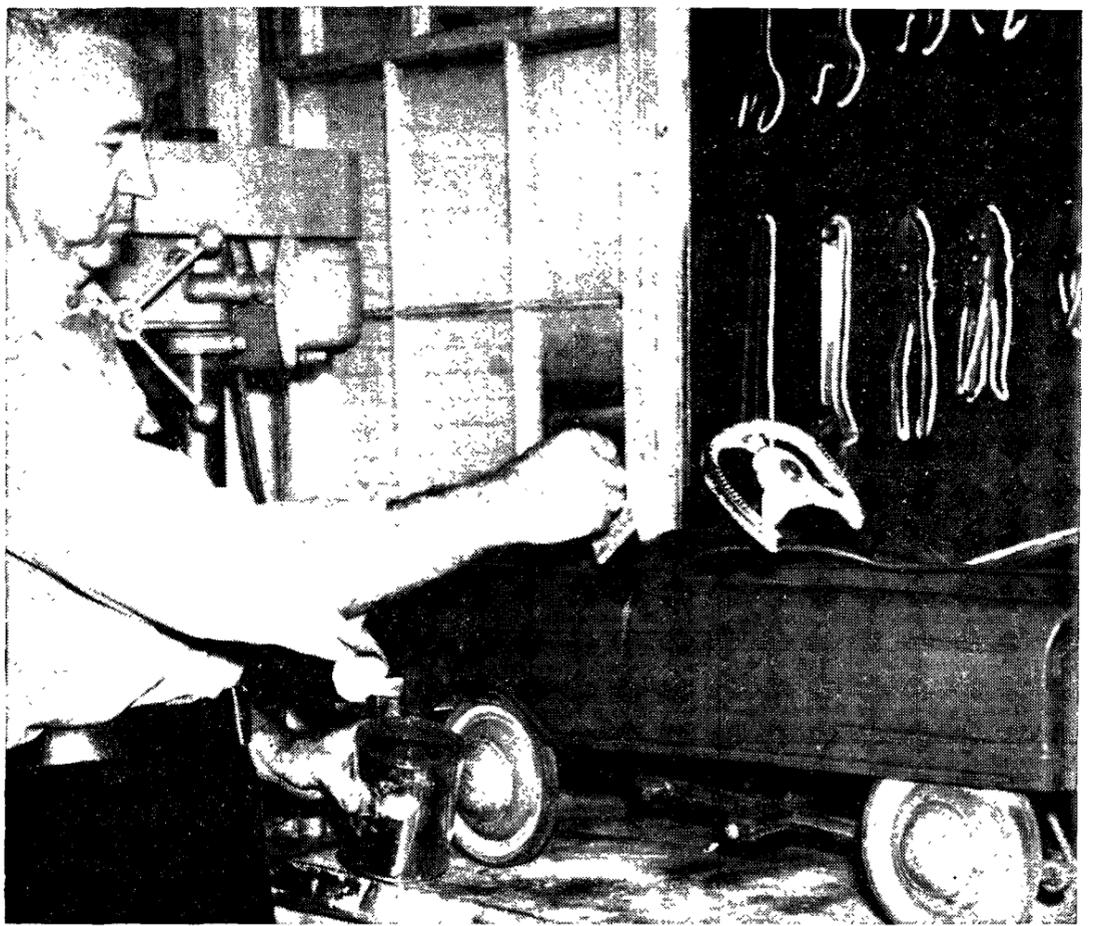
SUSAN JOBY BARBARA JAY C. OLIVER BAKER NICHOLS FLIPPEN PANAVISION METROCOLOR JOHNNY CARSON GEORGE HAMILTON WHITE MINNIEUX PRENTISS THOMAS



WHAT A MESS!!—Tricycles, wagons, racers, police cars and what-not are a mangled mess of metal when they land among Redstone Arsenal's firefighters. Like the firemen and other volunteers in Huntsville, the men lend Santa's elves a helping hand. Order is created out of chaos and the Trike Set on the Christmas Charities route will marvel at the shiny bright transportation and put it to good use. Firefighters among the repairable debris are (left to right): L. R. Landman, Ottis O. Rogers, Elmer S. Craig and John O. Broadway.



BEFORE AND AFTER—The tricycles in the background looked as "incurable" as the wheel-less car in the foreground before the firemen at Redstone Arsenal replaced the wheels and added a new coat of paint, in many cases new seats, and sometimes bells. Approximately 40 items had been repaired when this picture was taken of Elmer S. Craig assembling spare parts. Firemen are always busy with something similar. More usually the items under repair are fire extinguishers and related equipment. The finished toys go to Christmas Charities for distribution.



HELPING HAND—Homer Landman puts the finishing touches on a fire-engine red fire wagon—complete with bell at Fire Station No. 1, Redstone Arsenal. The fire engine is one of the more than 40 pieces the Arsenal firemen have renovated for the Huntsville-Madison County Christmas Charities who furnish the wheels and paint. The volunteer helpers furnish the labor to make the hearts of needy tots glad on Christmas. Of course there is a Santa Claus.

TRAFFIC SERVICE IS CONSOLIDATED

Washington (AFPS)—Secretary of Defense Robert S. McNamara has announced the formation of a new military traffic management and terminal service. The new organization will regulate surface transportation of military cargo and personnel within the continental United States, and manage all military ocean terminals except those used by the Navy in support of the fleet.

Assigned to the Secretary of the Army, the new organization is expected to cut Department of Defense operating costs by several million dollars annually, and result in substantial reductions in personnel and excess transportation facilities.

In announcing the reorganization, Secretary McNamara said, "As part of our continuing program to insure maximum defense at minimum cost, I have today (Nov. 19) approved the recommendation of the Joint Chiefs of Staff, the Secretaries of the Military Departments and the Director of the Defense Supply Agency, to consolidate the management and operation of military traffic, land transportation, and commonuser ocean terminals under the Secretary of the Army as a single manager. As a result of this decision, he will establish a jointstaffed Military Traffic Management and Terminal Service (MTMTS), under an executive director who will report directly to him."

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Page 14 The Redstone Rocket — December 2, 1964

1. For Rent

FOR RENT—Trailer space on Guntersville Lake 11 miles northeast Guntersville Highway 79. Call Guntersville 582-4702 or write Tanglewood Acres, Route 3, Scottsboro, Ala. for information. tfc

FOR RENT—4000 sq. ft. workable area office space, second floor Quick Building. Available July 1. 117 Greens St., Downtown Huntsville. Phone 534-5127 or 534-4351. tfc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial 534-6452. tfc

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

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tfc

2. Cars For Sale

1963 VW 1500 KARMANN CHA.—Blue and white, VSW tires, AM-FM Radio and Seat Belts, low mileage, \$2,250.00 See at 409 Hughes Dr. RSA or call 877-5264 1-tp

3. Miscellaneous

FOR SALE—Super "C" International tractor and equipment Excellent condition Reasonable. Hess-876-9142 or Scottsboro 574-4558. 1tp

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BARGAIN SHOE CENTER—New shipment men and women's, first quality loafers, flats, several styles women's boots. Some fur lined. Located 4 miles west of Arab on Hwy 69 at Standard Service Station. Joppa. Open Sundays. 12-2p

FOR SALE—Stuart pecans; 1 electric range, 1 gas range; good variety nursery stock. S. S. FRANCIS, Rt. 4, Box 67, Hartselle, Ala. 4 miles east of Hartselle on Highway 36. Phone 773-7652. 12-1c

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

OPENING FOR BEGINNERS or advanced Violin student, Private lessons in my home, a Conservatory Graduate, experienced teacher and musician Call 852-1834 1tc

AUTO BATTERY SALE—Nov. 24thru Dec 24th New Factory Guaranteed to fit all model cars. \$6.95 up. Also Batteries repaired and reconditioned Batteries for sale 3001 Governors Dr., just behind Auto \$ Save Phone 536-6755. ROCKETT BATTERY CO. 12-23-c

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

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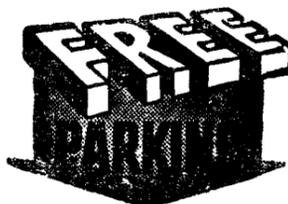
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MADE DO WITH WHAT THEY HAD—Two Army Missile Command engineers at Redstone Arsenal solved a missile age problem through ingenious use of a few inexpensive everyday items. Although H. C. Tom (left) and Bernie Cobb (right) wear the white shirt badge of professionals, they proved they could also roll up their sleeves and be first rate mechanics. Using odds and ends at hand, such as a pair of wool sox, two flash light bulbs, some old nylon stockings and a couple of springs, they fashioned a recovery system for the missile nosecone between them.

Odds and Ends Father Scientific Bloodhound

Sometimes you don't find the answer to a knotty problem in a multi-million dollar research laboratory crammed with computers. It may be in a kitchen drawer with the can opener.

Take, for example, a problem recently handed a group of engineers at the Missile Command's Directorate of Research and Development.

They were asked to come up with a cheap method for finding basketball-sized missile nosecones in the middle of a desert on a dark night. A model of the nosecone, dropped from a high-flying aircraft, had been lost for three days at White Sands Missile Range, N. M., though searchers knew within a few thousand yards of where it came to earth.

The nosecones are parts of target missiles which will be used to test "AMRAD," sophisticated measurement radar developed for the Advanced Research Project Agency by the Missile Command's Directorate of Research and Development and being operated by the MIT, Lincoln Laboratory. The nose-

cones contain miniature tape recorders with valuable information about the missiles' flight.

The first model of the recovery system was built from such odds and ends as a pair of wool sox, a couple of flashlight bulbs, a few pairs of old nylon hose, a dash of dog scent, a doughnut-shaped parachute pack and a couple of old springs. The cost? Next to nothing as such projects go.

The engineers, headed by Bernie Cobb and H. C. Tom and their Branch Chief, Erich Richert, in the Structures and Mechanics Laboratory, built their recovery system around a small radio transmitter and a timer.

It works like this: When the nosecone is roughly 2½ miles above the earth the timer starts a series of events: (1) a plate is blown off with exploding bolts; (2) a spring is released which turns on the transmitter; (3) the parachute begins to unfurl; and (4) the light bulbs begin to flash. The parachute is not only bright orange for visibility, but it has a metallic coating that can be spot-

ted on radar.

The nosecone itself is sprayed with Squalene—a "perfume" that attracts dogs like a magnet. If all other measures fail, the searchers on the ground can go after the package with their K-9 team.

Batteries to power the transmitter didn't work too well in the cold at high altitudes. So, the group purchased a pair of electrically heated men's sox from the sporting goods store; crammed the batteries to run the transmitter in the toe of one and the batteries for the sox themselves in the toe of the other.

To determine how far away their flash light bulbs could be seen at night one group took the bulbs up on a mountaintop overlooking the Arsenal while another group with two-way radios cruised the valley below. By jolting the bulbs with 18 volts instead of the normal six they found; (1) the flash could be seen for five miles, (2) the bulbs only lasted little more than a couple of hours. That was enough. They stopped work on an expensive photo-electric flash system that was being designed for the system.

To permit the transmitter to fit the hole in the doughnut-shaped parachute pack, a smooth, cup-shaped cover that wouldn't shatter was needed. A secretary was persuaded to give up some old nylons in the interest of science and these were glued together layer on-layer in the proper shape.

The springs, scrounged from a nearby machine shop parts bin, were installed to pop the nosecone loose from the wing of the airplane in high altitude test drops.

The test model nosecone was again dropped from an airplane eight miles high to check the effectiveness of the recovery system. The model was found within minutes. This recovery system is now being incorporated into the full-scale AMRAD target nosecone for

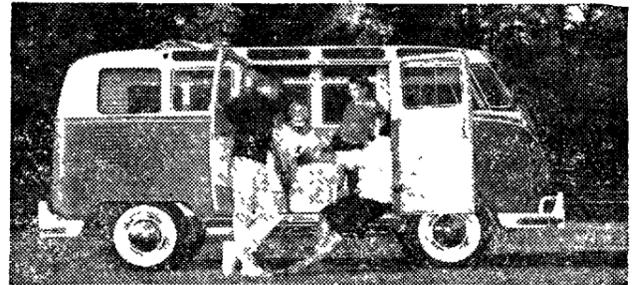
radar tests in 1965.

If this story has a moral it is that applied brainpower saves big money.

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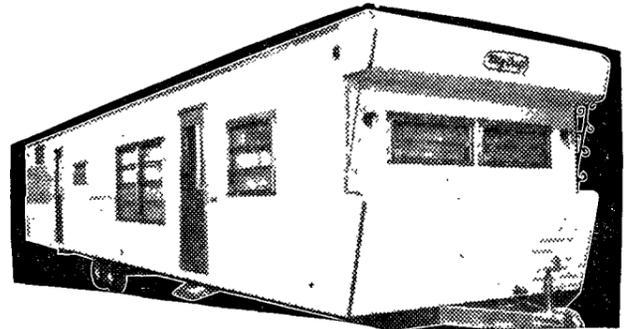


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Col. Saholsky Describes Logistics For Missiles

Describing in detail the Missile Command's logistical support program, Col. B. A. Saholsky told a Washington audience on Monday that, "By the end of this fiscal year, approximately \$600 million will have been awarded to contractors to meet our program objectives."

The Command Director of Procurement and Production made his presentation before the Seventh Annual Army Aviation Contract Services Symposium at the International Inn in the Nation's Capital.

Col. Saholsky said that the accomplishment of the Missile Command logistical support program encompasses five major areas of endeavor.

He listed these as: training instructors; furnishing maintenance technicians; preparing publications; supplying repair parts; and accomplishing the necessary repair and rebuild.

In pointing out a significant trend towards greater competition he told the contractors that the requirement to furnish repair parts provided the greatest potential for competitive procurement from industrial concerns.

To assist us in assuring competition in future procurements, the Missile Command has established a mechanized bidder's list, Col. Saholsky said.

"This system provides for the rotation of the bidder listings," he continued, "to give each company equal opportunities to participate."

It also identifies those contractors who have failed to respond on three successive invitations and those marginal contractors who have not met delivery requirements, he added.

Col. Saholsky closed his remarks with a statistical review of the procurement picture at the Missile Command.

He stated that we have on hand over 800 supply contracts in production values at slightly more than \$1.3 billion and over 300 open services contracts that total about \$3 billion.



COL. B. A. SAHOLSKY

AWARDS AND DECORATIONS

Award of Good Conduct Medal has been made to the following enlisted personnel in recognition of their exemplary behavior, efficiency, and fidelity for the indicated period.

Good Conduct Medal Clasp (fifth award) to **SFC Francis M. Pierson**, Air Defense Fire Distribution System Office.

Good Conduct Medal Clasp (fifth award) to: **SSGT Jannie L. Anderson**, USAMSC; **SSGT James T. Brown**, MICOM; and **SSgt Louis Pettigrew**, ADFDSO.

Good Conduct Medal Clasp (second award) to **SSGT Hilton L. Hess**, **SP5 Gene A. Cagle**, **SP5 James D. Evans**, **SP5 Edgar S. Fuller**, **SP6 William T. Hamilton**, all of USA-MSC, and **SP6 James J. Pittman**, MICOM.

Good Conduct Medal (first award) to **SP4 James R. Arlington**, and **SP5 Ronald L. Coleman**, both of the Medical Detachment, USAH; **SGT James C. Anderson** and **SGT Frank Tymel, Jr.**, both of the 291st

Military Police Company: **SP4 Daniel C. Ver Vaecke**, ADFDSO; **SP5 Shelby D. Eiland**, **SSGT Carter B. Ferguson**, **SP5 James S. Frazier**, **SP4 Troy L. Key**, **SP4 Thomas C. Leopold**, **SP5 William D. Montgomery**, **SP5 Larry R. Petersen**, **SP5 James A. Robbins**, **PFC Kenneth A. Saunders**, **SP5 Carl W. Schammel**, and **SP5 James O. Tom-**

linson, Jr., all of USAMSC; and **SP4 Heinz Rister**, of MICOM.

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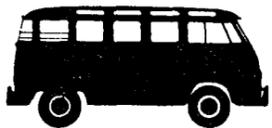


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