

Giant Shopping Lists Not Limited to Season

Giant shopping lists are usually limited to the holiday season for everyone except the personnel who "shop" the year around for the U. S. Army Missile Command.

"Shopping" that is important to the national defense is carried out by staff members of the procurement and production divisions of the many project and commodity offices of the Command. These procurement procedures follow essentially the same general outline for all the missile systems.

A prime example in this field is the 31-man Procurement and Production Division of the Pershing Project Office. This office has procurement management responsibilities for the largest budget of all the missile systems being produced under the supervision of the U. S. Army Missile Command.

Col. O. M. Hirsch, Pershing Project Manager, has commended the division for its excellent work on the complex project.

The Procurement and Production Division headed by Edward

Foxworthy has taken part in all phases of Pershing procurement. John Weible, deputy division chief, and David Lytle, procurement assistant, are members of the division staff.

Martin-Marietta Corporation, Orlando, Fla., is prime weapons contractor for Pershing and was awarded the initial contract on March 28, 1958.

Paul Wisner, technical advisor to the Pershing project manager, said 35 per cent of the total budget is spent with Martin-Marietta. The remaining 65 per cent is spent on 35 to 40 other contracts.

Wisner pointed out that the pro- (See SHOPPING on Page 2)



PERSHING PROCUREMENT EXPERTS—J. W. Kerr, chief of the Procurement Execution Branch of the Pershing Procurement and Production Division, is shown discussing procurement plans for the new missile system with members of his staff. Procurement analysts, pictured from the left and their responsibilities are: Frank W. Huser, analyst for Martin contracts; Robert Latta, repair parts; Mrs. Mary Huth, Bendix contracts and special weapons items from the U. S. Army Munitions Command; Kerr; and his secretary, Mrs. Ruth Taylor.

Col. Dennis Has Redeye Management

Col. Norman T. Dennis, Project Manager for the Army's Mauler missile system, is the new head of the Redeye system, another front line air defense weapon.

Col. Dennis, a veteran officer and electrical engineer, was named Redeye Commodity Manager Monday. He was assigned to the Army Missile Command Sept. 20 and took over active management of the Mauler system Nov. 5 after attending the Army's Project Manager's course at Fort Lee, Va.

As Mauler and Redeye Manager, Col. Dennis will direct the devel- (See COL. DENNIS on Page 4)



COL. N. T. DENNIS

Contract Awards On Two Missiles Total \$6 Million

Award of three contracts totaling \$6,180,796 for work on the Hawk air defense and the Pershing ballistic missile systems was announced last week.

Two of the awards, one for \$3,874,000 and one for \$1,065,500, went to the Raytheon Company, Lexington, Mass., for continued production of components to support the NATO Hawk program.

The Space Corporation, Garland, Texas, received a \$1,241,296 award to cover production of shipping and storage containers for the Pershing missile first and second stage motors.

Hawks are now being manufactured in the NATO nations, Belgium, France, West Germany, Italy and the Netherlands. It is the (See CONTRACTS on Page 3)

The Redstone Rocket

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NOVEMBER 28, 1962



DEDICATION—Maj. Gen. F. J. McMorrow, Commanding General of the Army Missile Command snips a red ribbon during dedication ceremonies last Wednesday of the new Computation Center at Redstone Arsenal. The Center is operated under the Technical Operations Office of the Army Missile Support Command. At left is Brig. Gen. H. P. Persons, Deputy Commanding General for Air Defense Systems. At right are two members of the Computation Center staff, Mrs. Rachel Baker and Miss Camilla Spencer. Mrs. Baker is a Data Processing Systems Controller, Miss Spencer a secretary.

CG Cuts Ribbon

New Computation Center Dedicated

A red ribbon, cut at the dedication ceremony for the Army Missile Support Command Computation Center, symbolized double purpose.

Maj. Gen. F. J. McMorrow, Commanding General of the Army Missile Command, said that the ribbon snipping marks a historic occasion in both dedicating the newly constructed building and in bringing the personnel and computation equipment for the Army missile program under one roof.

Before he had performed the honors of cutting the ribbon, Gen. McMorrow pointed out that the men and women working at the Computation Center had been accomplishing their mission at widely scattered points on the installation since the original laboratory had been turned over to the Marshall Space Flight Center.

The computation center gives service to both scientific and business problems encountered in the research and development of Army missiles.

Among the guests attending the open house which followed the ribbon cutting were Brig. Gen. H. P. Persons, Deputy Commanding General, Air Defense Systems for the Missile Command; Col. Foster L. Furphy, Chief of Staff; Col. T. W. Cooke, Commander, Army Missile Support Command; R. A. Harrison, Manager of the Huntsville IBM Office; and Charles Benton, Marketing and Services Federal Systems Division, IBM.

As part of the ceremony Col. Cooke presented an abacus to

Joseph B. Bennett, Chief of the Center, as a symbol of man's first mechanical means of calculation. Col. James O. Greene, Chief of Technical Operations in the Missile Support Command, was a host to the Commanding General's party which toured the plant with Mr. Bennett as guide.

Two other groups of official visitors were guided by W. A. Macomber and D. W. Popkins.

The new building contains 25,000 square feet of floor space and was constructed by Dunn Construction Company of Birmingham. The cost was \$850,000. The Mobile District Engineer administered the contract.

Three computer systems are housed in the structure to accomplish data processing for 'customers,' elements of the Missile Command. Cost of operation is met from the 'customers' budget for both scientific and business programs.

As a climax of the tour, Gen. McMorrow was presented a representative replica of the IBM 7090 computer by Mr. Benton. The other two units in use at the center with the auxiliary equipment are an IBM 1401 and an IBM 1410 computer system.

The IBM 7090 system is capable of accepting 150 simultaneous readings at a rate of 15,000 per channel per second.

During a test on a missile motor, analysis of the data is so rapid that the engineers can modify a test even while it is being conducted.

2000 Scouts To Attend 5th Roundup

More than 2,000 Boy Scouts and adult leaders will arrive at Redstone Arsenal Saturday for the fifth annual Boy Scout Rocket Roundup.

Highlight of the event will be a welcome and remarks by Brig. Gen. H. P. Persons, Deputy Commanding General, Army Missile Command. In addition, a special awards ceremony will be conducted.

Attending the Roundup will be Boy Scouts and their adult leaders of the Tennessee Valley Council of Boy Scouts of America.

(Picture on Page 3)

Chairman of the Boy Scout Rocket Roundup committee is Col. Thomas W. Cooke, Commander, Army Missile Support Command. Boy Scouts and adult leaders will attend from each Boy Scout (See 2000 SCOUTS on Page 3)



COL. JOHN E. ABER



COL. JESTER M. LOOMIS, JR.

Col. Loomis Scheduled To Become Sergeant Head

Retirement of Col. John Edward Aber, Sergeant Project Manager, and assignment of Col. Jester M. Loomis, Jr., to the Project Managership have been announced by Army Missile Command Headquarters.

Col. John Edward Aber, a veteran of 27 years as an Army missile and artillery officer, will retire from active service on Dec. 31 at Redstone Arsenal.

He has been Project Manager of the Sergeant Missile System since November, 1961. He came to Red (See COL. ABER on Page 3)

Col. Jester M. Loomis, Jr. will become manager of the Sergeant Project Office Dec. 1. With Headquarters here at the U. S. Army Missile Command, Col. Loomis will direct management of the Sergeant ballistic missile system.

A native of Wann, Okla., Col. (See COL. LOOMIS on Page 3)

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-130, Extension 876-4161.

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Rocket Ruminations

OUR OWN ALMANACK

November is when you're going to do all your Christmas shopping, and don't; and when you're not going to attend a lot of parties, and do.

The Wall Street Journal

Salute To CAP

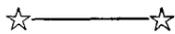
In this era of high-powered missiles and supersonic aircraft it is significant that an all-civilian manned organization that is equipped only with privately owned planes should be assigned an important mission in the military institution.

This organization, the Civil Air Patrol, is celebrating its 21st anniversary on Saturday and Mayor Searcy has proclaimed next week to be Civil Air Patrol Week in Huntsville, recognizing the dedicated duty of the Rocket City Senior Squadron of the Alabama Wing.

During the past year the local squadron has been called upon to organize search and rescue missions on some twenty occasions. Most of these missions resulted from downed aircraft in remote areas, however, the 45-man squadron is also on call in the event of a disaster such as a flood or tornado.

On each instance the squadron members, several of whom are Arsenal employes, have answered the call and spent many hours of their own time to bring relief and assistance to persons in distress.

The ROCKET salutes the Civil Air Patrol and the selfless citizens of the organization on the occasion of the anniversary and wishes them continued success in all of their endeavors.



Scout Roundup

Boy Scouts by the hundreds will be at Redstone Arsenal Saturday for an annual roundup for the fifth consecutive year.

These young men from the Tennessee Valley Council of the Boy Scouts of America will receive one of the Army's most sincere welcomes.

Of all of our visitors from the four corners of the globe, none are more important to us than these future citizens of America.

From the ranks of these young men will come the nation's leaders of tomorrow . . . doctors, lawyers, teachers, merchants, etc. . . the diversified talents that keep the United States strong in the world of nations.

Some of them may be tomorrow's soldiers, scientists and technicians . . . the people needed to assure that the U. S. Army provides its soldiers with the right weapons to defend freedom.

Those selected to attend the Annual Boy Scout Rocket Roundup have made outstanding accomplishments in Scouting to earn the privilege of attending the roundup. They can be expected to contribute to the nation's welfare tomorrow.

SHOPPING

(Continued From Page 1)
curement division has to manage its effort with 15 other government agencies in addition to the contractors and subcontractors.

While its procurement practices are similar to other missile systems, the Pershing is unique in the amount of procurements "broken out" from the prime system contractor. It is the first system to accomplish extensive breakout in the early production stages.

Plans for purchasing items for the two-stage solid propellant missile are initiated long before the start of the fiscal year. Frank Ellis, chief of Procurement Planning Branch, and his staff plan the procurement methods and time schedules best suited for existing requirements.

These methods include formal advertising, competitive negotiation and sole source buying. Ellis also includes maximum use of small business and surplus labor area firms in formulating procurement plans.

J. W. Kerr, chief of the Procurement Execution Branch, heads an eleven man group which buys the needed items called for in the procurement plan. The responsibility for the various existing contracts and placement of new contracts is spread among six procurement analysts and one procurement assistant.

Frank Huser is principal analyst for the Martin contracts and draws needed assistance from the other analysts. Huser recently completed transactions that resulted in

award of three contracts to the prime system contractor.

This was the culmination of a job that began in January of this year. Since that time, proposals have been requested, received, analyzed and revised. As team leader he arranged and coordinated long technical discussions with as many as 60 participants including personnel from Martin Company and its subcontractors, Birmingham Procurement District, other participating government agencies, and many elements of the Missile Command.

Two large competitive "break-outs" for the Pershing Missile Trainer and the Erector-Launcher-Transporter were awarded Hayes International Corporation and Universal Match Corporation respectively.

In the execution of contracts, the analysts are particularly skilled in drafting special contract clauses to satisfy unusual situations. They are responsible for processing special approvals from higher authority such as Lt. Gen. F. S. Besson, Commanding General of the Army Materiel Command, and Paul Ignatius, Assistant Secretary of the Army for In-

stallations and Logistics. The contractor's performance of the contract comes under the guidance of Charles Bevan, chief of the Contracts Performance Branch. Bevan insures that the procurement contract is performed and that deliveries are made on time. His many duties include expediting materials from subcontractors and government storage points, giving priority assistance and technical assistance.

The work of the division and the contractors is reviewed and analyzed by the Review and Analysis Branch. Kent Jones, Branch Chief, and his staff make internal and contractor reviews. This branch reviews contractor reports to analyze costs performance trends.

A "well done" received by a using unit for a successful launch is made possible by the months and sometimes years of procurement planning, execution, contract performance and review and analysis.

The efforts of the many procurement and production divisions throughout the Army Missile Command are thus tested and proved by the successful use of "their" missile system.

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Bucket O' Chicken \$3.50 15 Pieces Ky. Fried Chicken, Pint of Gravy, Rolls. Serves 5 to 7 Hungry People	Shrimp Dinner \$1.25 3 Large Shrimp, French Fries, Cole Slaw, Sauce and Rolls.
Barrel O' Chicken \$4.95 21 Pieces of Chicken, Serves 7 to 10 Hungry People WITH ROLLS AND GRAVY \$5.25	Bucket O' Shrimp \$5.25 30 Shrimp, Sauce, Cole Slaw, Rolls
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(Continued From Page 1)

Loomis was graduated from the University of Oklahoma with a bachelor of science degree in Petroleum Engineering in 1938. He completed the Command and General Staff College, at Ft. Leavenworth, Kans., in 1954.

Col. Loomis was commissioned a Second Lieutenant in the U. S. Army Reserve in July, 1938, and went on active duty at Ft. Sill, Okla., in February, 1940. He served in various assignments prior to being sent to the South Pacific Theater in 1941.

During his 28 months service in the Pacific he participated in the Central Pacific and Guadalcanal campaigns as Artillery Battalion Operations and Executive Officer.

He left active duty in July, 1945, reentered in December, 1946, and was assigned to the University of Oklahoma as assistant Professor of Military Science and Tactics. He remained in that position for three years and in 1949 was assigned to Europe where he served with the High Commissioners office on the Military Security Board during the ensuing four years. Upon his return to the United States in 1953, Col. Loomis attended the Command and General Staff College and at graduation headed the U. S. element at the U. S. Air Force Missile Test Center at Patrick Air Force Base, Fla.

In 1958 he returned once more to Ft. Sill for another tour as Commander of Field Artillery Missiles Systems Evaluation group being reassigned to U. S. Army, Europe, in October, 1961. His duty assignment in the European Command was in Turkey. It was from this assignment that he comes to Redstone.

Col. Loomis has been awarded the U. S. Army Commendation Medal and wears ribbons designating American Defense, the Asia-Pacific campaign, the World War II Victory Medal, Army Occupation Medal, National Defense Service Medal and the Army Reserve Medal.

Col. Loomis is married and the father of five children.

stone Arsenal in February of 1960 as Deputy Chief of the Control Office of the Army Ballistic Missile Agency and was assigned in December 1960 as director of the ABMA Field Support Operations.

Col. Aber was born in Fort Worth, Texas, on August 24, 1916. He graduated from Belmont High School at Los Angeles, Calif., and attended Los Angeles City College until his enlistment in 1935 in the 15th Field Artillery at Fort Sam Houston, Texas. He was appointed to the United States Military Academy at West Point the following year and graduated in 1940, with a commission in the Coast Artillery Corps.

During early World War II, he served as instructor, battery commander, and then battalion commander in the Antiaircraft Artillery Officer Candidate School. He was then assigned as Senior U. S. Advisor at the French Antiaircraft School in Tenes, North Africa.

He joined the 100th Infantry Division in Southern France, and fought with it in its campaign into Germany, as Assistant Division Operations Officer and as battalion executive of a direct support Field Artillery battalion.

He was awarded the Bronze Star in 1945.

After the war he served three years as Assistant Military Attache to Switzerland, then returned to this country for a tour of troop duty with the 70th AA Gun Battalion at Fort Bliss, Texas.

In 1949, he was appointed aide-de-camp to Gen. W. Bedell Smith, then commanding First Army. His next assignment was as an instructor in artillery tactics at the Artillery School, Fort Sill; then as Chief of Combat Arms at the Engineer School at Fort Belvoir, Va.

He studied missile sciences at the University of California from 1954 to 1956, where he obtained a Master of Science degree in mechanical engineering.

He was assigned as Director of the Nike-Ajax Division of the Air Defense School at Fort Bliss from 1956-1958, then Deputy director of Combat Developments, and as battalion commander of the 4/44th

first American developed missile system of its type to be produced overseas.

The Pershing, a two-stage solid fuel ballistic missile, is being developed to replace the operational Redstone.

The Raytheon Co. contracts will be administered by the Boston Procurement District, and the Space Corp. contract by the St. Louis Procurement District.

Both missile systems are managed from U. S. Army Missile Command Headquarters at Redstone Arsenal.

2000 SCOUTS

(Continued From Page 1)

district and division.

During the Roundup's annual awards ceremonies, a shoulder patch will be presented to each Scout who has recruited one or more youths into the Scouting program.

This also qualifies Scouts to attend the special awards ceremonies.

The program will begin at 8 a.m. Saturday when the group assembles. The 55th Army Band will play during the assembly period. During the Roundup, the Scouts will see displays presented by the Army Missile Command, the Research and Development Directorate of the Army Missile Command, Ordnance Guided Missile School, and Marshall Space

Missile Battalion (Nike-Ajax).

He is a graduate of the Artillery School at Fort Sill and the Command and General Staff College at Fort Leavenworth.

Col. Aber and Mrs. Aber, the former Miss Ann Vandenoorn, of Maastricht, Holland, have two daughters. The Aber's plan to make their home in Los Angeles, Calif.



BOY SCOUT ROUNDUP PLANNERS—Col. James O. Green, right, directs plans for the fifth annual Boy Scout Roundup scheduled at Redstone Arsenal Saturday. Others, left to right, are Robert L. Haskins, Huntsville Boy Scout Executive, and John R. Russell, facilities coordinator for the Roundup. Col. Green is project officer for the event which is designed to reward Scouts for recruiting new members into the Scouting program.

Flight Center.

Another display will be provided by the 3rd Operational Detachment, Company B, 20th Special Forces Group (Airborne) of the Alabama National Guard.

During the tour of exhibits the Boy Scouts will split into two groups.

The annual Boy Scout drive for new members was conducted this year from Sept. 1 through Nov. 24. Friday's awards ceremony will recognize and award the Scouts for their recruiting efforts.

Ten individual awards will be presented to the 10 Scouts who have recruited the greatest num-

ber of youths in each district of the division.

Leaders recognized at the awards ceremony will receive a certificate of achievement signed by Col. Cooke. Col. James O. Green, Chief, Technical Operations Office, AMSC, is project officer for the Boy Scout Roundup.

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1961 CHEVROLET \$2275
IMPALA HARDTOP 4-Dr. with whitewall tires, power steering, radio, heater, automatic shift, and blue finish with a white stripe in the chrome.

1961 CHEVROLET \$2075
BEL AIR HARDTOP 2-Dr. Sport Coupe with Economy-6 motor, nearly new whitewall tires, radio, heater, auto. shift, fenced skirts and solid white finish.

1958 EDEL \$875
HARDTOP 4-Door with radio, heater, whitewall tires and blue and white finish.

1962 CHEVROLET \$2675
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1962 CHEVROLET \$2575
IMPALA HARDTOP 4-Dr. with white finish and red trim and red interior. A really flashy car with only 5,000 miles, radio, heater and auto. shift.

1961 CHEVROLET \$2075
BEL AIR Four-Door sedan with whitewall tires, radio, heater, automatic shift and tan finish with a little touch of white.

1959 DODGE \$1275
A SNOW-WHITE BEAUTY with Hardtop design. Has excellent tires, power brakes and steering, radio, heater and automatic shift.

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1959 RAMBLER \$975
CLASSIC Four-Door with radio, heater and automatic shift.

1957 CHEVROLET \$875
BEL AIR Four-Door "6" with standard shift. It's a local one-owner car.

1958 FORD \$1075
FAIRLANE "500" 2-Door Hardtop with radio, heater and automatic shift.

1959 CHEVROLET \$1575
BEL AIR Four-Door with V-8 motor, radio, heater and auto-shift. Local one-owner car.

1956 CHEVROLET \$775
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Cost Reduction To Be Discussed

The need for reducing missile costs will be explained by W. E. Gibbons, deputy chief of the Value Analysis Office, Directorate of Procurement and Production, at a General Electric Company seminar Wednesday, Nov. 28, at Syracuse, N. Y.

He will make a presentation on the U. S. Army Missile Command's Value Analysis program which will cover the need of reducing missile cost and the methods essential to achieve cost reduction goals set by the Department of Defense.

Gibbons is participating in a

value analysis seminar conducted by the Heavy Military Equipment Division of General Electric Company. Subject of the seminar which started Monday, Nov. 26, is the Nike-Hercules High Power Acquisition Radar.

Seminar participants will conduct a value analysis review on components of the high power radar.

Gibbons was a member of the group that started the Missile Command's value analysis program and has been active in its development and expansion. The

COL. DENNIS

(Continued From Page 1)

opment of the two systems designed to give field troops in the capability of destroying low-flying aircraft.

The 49-year-old officer came to the Army Missile Command from the Ordnance Industrial Center in Europe where he was initially chief of the procurement division and subsequently commanding officer.

He is one of the three Missile

Value and Analysis Office is in the Directorate of Procurement and Production.

Command Project Managers to attend the Fort Lee course.

A native of Cleveland, Ohio, he received his bachelor's degree in electrical engineering from the Case Institute of Engineering and a master's degree from Rensselaer Polytechnic Institute.

Col. Dennis has served in the Office of the Chief of Ordnance, the Command and General Staff College at Fort Leavenworth, the Ballistic Research Laboratories at Aberdeen Proving Ground and in the Far Eastern Theater.

In the Mauler office he suc-

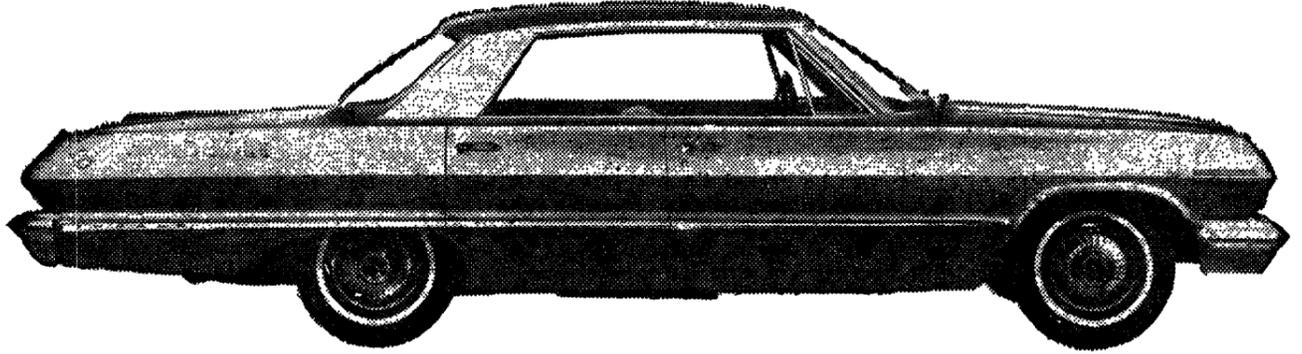
ceeded Brig. Gen. B. J. Leon Hirshorn who is now ordnance officer for the U. S. Army in the Pacific.

TUITION ASSISTANCE

The University of Alabama Huntsville Center Winter Quarter will begin Jan. 3.

Military personnel desiring Government Tuition Assistance must complete DA Form 2171 and return to the Army Education Center, Bldg. 3480 no later than Dec. 28. These forms will be available at the Education Center on Dec. 3.

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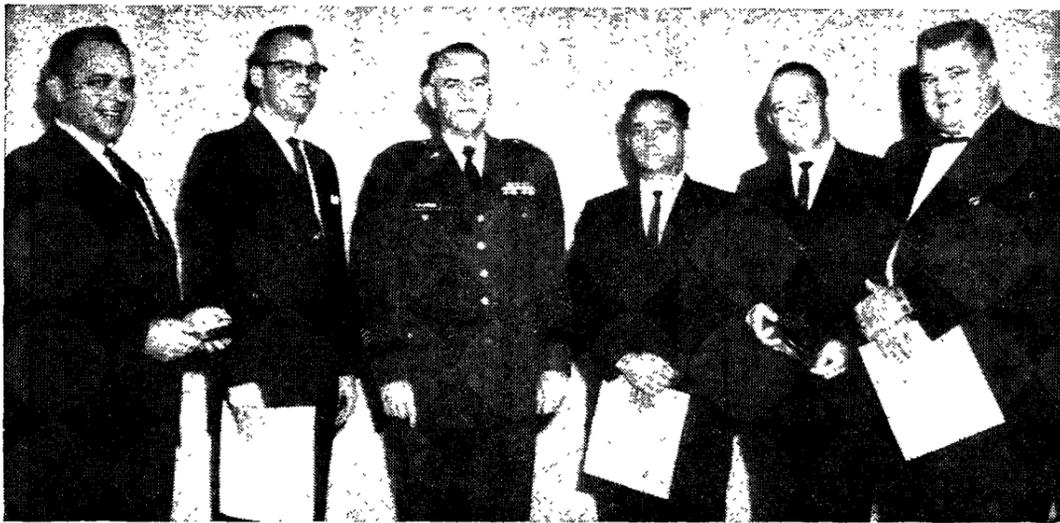
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MISSILE COMMAND EXECUTIVES HONORED—Five civilian employees of the U. S. Army Missile Command received awards for outstanding executive work in the administrative field recently in ceremonies at the office of Commanding General F. J. McMorrow. Recipients of the awards are, from left to right, O. C. Ashworth, Jr., supervisory management analyst, Directorate of Supply and Maintenance, Junior Executive Award; J. H. Cotten, supervisory accountant, Comptroller and Director of Programs, honorable mention for Junior Executive award; Gen. McMorrow, who made the presentations; Sidney J. Sweat, system planning and analysis officer, Sergeant Project Office, honorable mention for Senior Executive award; H. W. Crumrine, program planning and analysis officer, Directorate of Supply and Maintenance, Senior Executive award; and G. S. Moshkoff, supervisory missile development control engineer, Directorate of Research and Development, honorable mention for Senior Executive award.

Executive Awards Presented To Five

Commanding General F. J. McMorrow commended five Redstone Arsenal Employees Wednesday for their contributions in the administrative field.

The five employees of the U. S. Army Missile Command are recipients of the command's annual executive awards.

The Senior Executive award was presented to Howard W. Crumrine, program planning and analysis officer, Directorate of Supply and Maintenance.

Osceola C. Ashworth Jr., supervisory management analyst, Directorate of Supply and Maintenance, received the Junior Executive award.

Honorable mention certificates for the Senior Executive award went to Gregory S. Moshkoff, supervisory missile development control engineer, Directorate of Research and Development; and Sidney J. Sweat, system planning and analysis officer, Sergeant Project Office.

The two employees receiving Junior Executive honorable mention certificates were John H. Cotten, supervisory accountant, Comptroller and Director of Programs; and Zack K. Strickland, former chief of News and Features Branch, Information Office.

Gen. McMorrow made the presentations in ceremonies at his office.

The awards were given to civilian employees in recognition of exemplary achievement or notable contributions in the administrative field.

Redstone Arsenal officials present were: Col. R. W. Burkett, director of Research and Development Directorate; Col. John O'Keefe, Research and Development Directorate; Col. R. W. Van Wert, director of Supply and Maintenance Directorate; Col. J. M. Loomis, Sergeant Project Of-

Wives of the award winners and Mrs. Ed Finane, Vicksburg, Miss., Cotten's mother, attended the presentation.

Dr. William Carter, chief scientist; A. A. Stewart, deputy director, Supply and Maintenance Directorate; L. L. Aycock, comptroller; Seymour J. Faber, Comptroller and Director of Programs; Marvin F. LaPrade, Supply and Maintenance Directorate; and Franklin H. Holmes, chief, Incentive Awards Branch.

Col. William J. Newman, Comptroller and Director of Programs; Capt. C. R. Steimle, Gen. McMorrow's aide de camp.

Dr. William Carter, chief scientist; A. A. Stewart, deputy director, Supply and Maintenance Directorate; L. L. Aycock, comptroller; Seymour J. Faber, Comptroller and Director of Programs; Marvin F. LaPrade, Supply and Maintenance Directorate; and Franklin H. Holmes, chief, Incentive Awards Branch.

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Sports by Handy

By SFC Robert Handy

Miscellaneous

For football fans, a list of 15 post-season bowl game dates is published. The games are under the National Collegiate Athletic Association.

Location	Date
Mineral Water Bowl, East Springs, Mo.	Nov. 24.
Prairie View Bowl, Prairie View, Texas	Dec. 1.
Aviation Bowl, Dayton, Ohio	Dec. 8.
Cement Bowl, Allentown, Pa.	Dec. 8.
Gotham Bowl, New York, N. Y.	Dec. 15.
Liberty Bowl, Philadelphia, Pa.	Dec. 15.
Bluebonnet Bowl, Houston, Texas	Dec. 22.
Gator Bowl, Jacksonville, Fla.	Dec. 29.
National Trophy Bowl, Washington, D. C.	Dec. 29.
Sun Bowl, El Paso, Texas	Dec. 31.
Cotton Bowl, Dallas, Texas	Jan. 1, 1963.
Orange Bowl, Miami, Fla.	Jan. 1.
Rose Bowl, Pasadena, Calif.	Jan. 1.
Sugar Bowl, New Orleans, La.	Jan. 1.
Tangerine Bowl, Orlando, Fla.	Jan. 1.

Baseball

Little League baseball statistics for 1962:

Leagues	Teams	Players
Junior Pony	64	352
Pony	894	4,948
Colt	312	1,506

TOTALS 1,270 6,806 102,090
In the overall program the fig

ures represent an increase of 77 leagues, 427 teams and 6,405 players over 1961 totals. The above figures were taken from the Coach published by Wilson.

Golf

A reminder of the opening of the new Clubhouse at the Redstone Arsenal Golf Course due to open on December 1.

Santa's Column

Now that Thanksgiving is over, the "little ones" begin to prepare for their day, Christmas. So to give the adults the answers to some of their questions, a little information each week will be published in the Rocket. This week's news will be Santa's arrival at Redstone this year. Santa intends to be here Dec. 20.

Santa's visit is sponsored by the Joint Activities Council. The committee will aid him in his requests for making many youngsters happy. As in previous visits Santa is planning to be at the Post Theater and the Rocket Auditorium on Dec. 20.

Basketball

Basketball opened on Nov. 19, a rainy, chilly, and losing night for three teams. With the new arrangement of teams playing two—16 minute periods, the games are much faster and it takes much more stamina.

The first game started at 1800 hours with the last year's champions, Officers, playing HQ AMC. The Officers continued their quest for the 1962-63 Championship by defeating HQ AMC in a shaky 36-30 score. Again the Officers used last year's tactics by running up an early score and then playing good defensive ball in the latter part of the game.

In the second game, the 291st MP showed their desire to have their pictures taken with the Championship Trophy this year. The 291st MP started fast and ended fast in defeating HQ STC by the score of 62-39.

They constantly had the HQ STC off balance in shooting, or setting up plays, or even defenses. One of the high scorers of last year, Thomas, had a little trouble finding the basket. The 291st hopes Thomas will soon get into his old form. If the 291st can hold their

team together, they look like a winner. In the final game of the nite, the Davids defeated the Goliaths. HQ UTC with the tallest man somewhere in the vicinity of 6' took over the towering 6' or better HQ AMSC by the score of 44-33. The little fellers just run the big uns into the floor with their fast break and two sleepers on each play.

Next week's Rocket will publish standings; the 10 high scorers; and the members of each team.

Post Theater

Some may wonder about the building material and noise at the theater... a new lobby is being built. It will take about 45 days to complete, and the theater will have the new look. It will also save standing out in the cold while waiting for the theater to open.

Operation Stay-Alive

Almost any paper today will have a picture or story of homes and lives destroyed by fire. Fires, no matter how small, can cause grief or worry and it's mostly because a little time was not taken to check or repair or replace where it was needed.

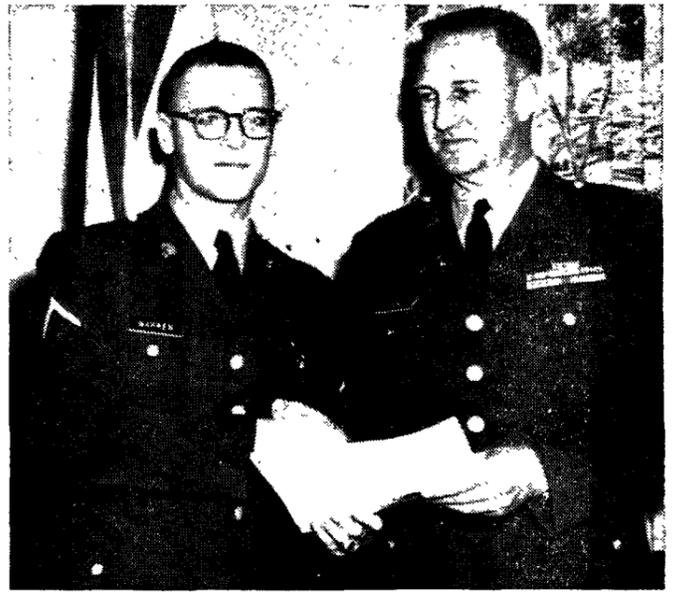
Holidays were made to be cheerful.

Why lose by carelessness? Sympathy is a good thing when used right, but would you figure sympathy pays back the loss caused by fire?

Millions of dollars, years of educations, and many more advantages are the individual's in this life, but, why do so many in their carelessness, let them go up in smoke. People can be categorized; some chase fire engines, some become fire bugs, some like the scenes in a fire, some take fire for granted. Others take precautions and think ahead. Which are you???

Vacation Aid

Those who plan a few days at Miami, Fla., and are interested in prices or places to stay now or after Dec. 15, may get information from Special Services Division, 876-4050, Bldg. 3491 Second floor.



SOLDIER OF THE MONTH—Col. Thomas W. Cooke, right, Commander, Army Missile Support Command, presents a citation to Pfc. John B. Warren, Jr., 2nd ETC, School Troop Command, Ordnance Guided Missile School, naming Warren Post Soldier of the Month for October. Warren, from Clinton Corners, N. Y., currently is serving as Administrative Clerk in the Hawk Branch Office. He is a graduate of Siena College in New York, with a degree in economics.

Missile B Is Now 'Lance'

The Army announced last week selection of the name "Lance" for its newest missile, previously known only as Missile B.

Scheduled to replace the Honest John rocket and Lacrosse missile as an Army division support weapon, Lance will significantly increase the nuclear and non-nuclear fire support capability and effectiveness now available.

The new weapon has been designated for use in general and limited war and will operate in all types of terrain and weather.

The Army announced three weeks ago that it had selected the Chance-Vought Corporation, a division of Ling-Temco-Vought, as prime contractor for the new weapon system.

Development of Lance will be managed by the U. S. Army Missile Command, an element of the

Golf Group Elects Officers For '63

Officers were unanimously elected from the slate presented to the Golf Group sponsored by the Redstone Arsenal Officers Wives Club at a brunch at the Squirrel Hill Officers Club last Wednesday.

Mrs. Frank Napper, chairman of the nominating committee, presented the slate which listed Mrs. D. F. Shepherd, chairman; Mrs. W. D. Lewis, vice chairman; and Mrs. E. O. Sentar, treasurer.

Mrs. William Kaiser, outgoing chairman, thanked all the members for the cooperation which made the past season successful.

The brunch winds up the active season for the Golf Group.

Army Materiel Command. Col. W. W. Holmes is Lance project manager.

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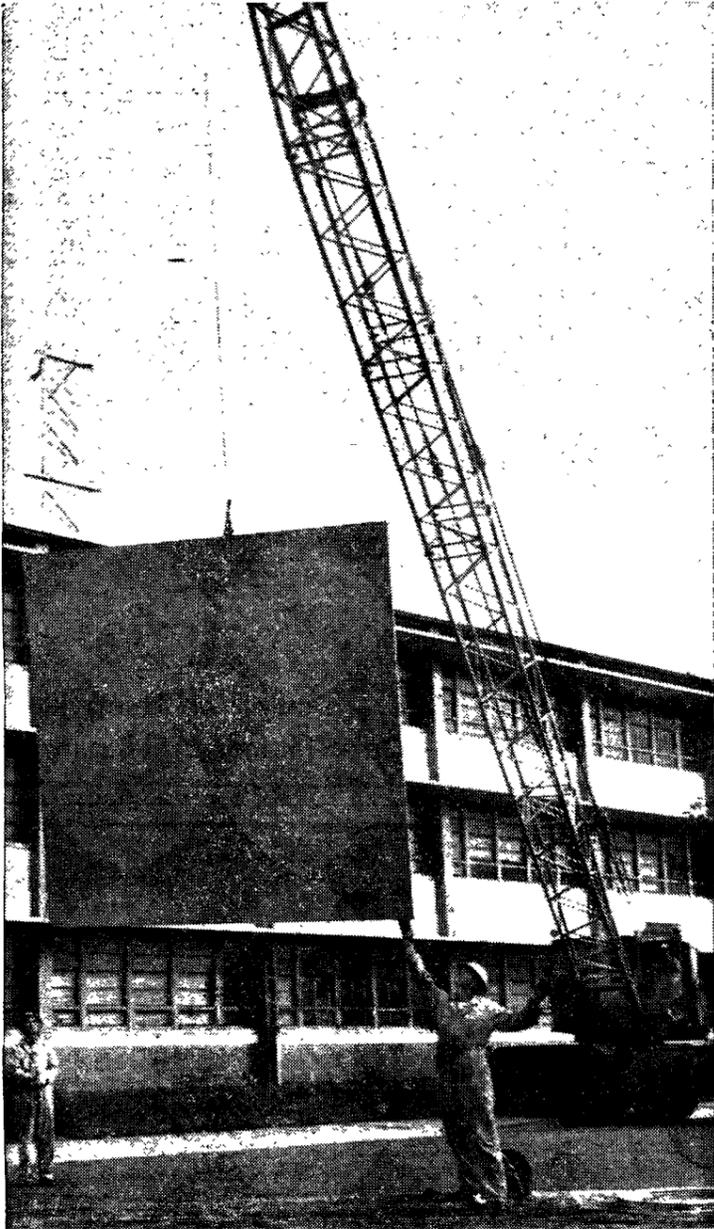
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Missilemen Bounce Pass Test Data To Computers

Army missilemen have solved a problem with an old basketball technique—the bounce pass. A large aluminum sheet strategically placed on the roof of the Army Missile Command headquarters building plays a major role in a complex data transmission system. The device serves as a reflector used to “bounce” microwaved data transmitted from rocket test stands some five miles distant to the Ar-

my's new computations center across the street from Command Headquarters. In the center, electronic computers digest the microwave data and provide test engineers the information they need almost as soon as the motor under test stops smoking.

“Reflecting microwaves is not an unusual technique,” Aubrey W. Presson, explains. Presson is Deputy Chief, Instrumentation Branch, Test and Evaluation Laboratory.



MICROWAVE REFLECTOR GOING UP—This reflector being lifted into place on top of Army Missile Command Headquarters at Redstone Arsenal is a novel new link in a complex data transmission system. Rocket test data transmitted by microwaves from an Army captive test facility about five miles away bounces off the reflector to a receiver at the Computation Center across the street from Command Headquarters where it is analyzed. Reflection technique was used because a large water tank blocked the direct path of microwaves to the Computation Center. The reflector is mounted on the stand shown on top of the Headquarters Building. Junior Watson (left), Harold Stacy, and crane operator, William Short, handle lifting the reflector to its new home.

“But the circumstances which caused us to use the reflection technique are something never encountered here,” he said.

The problem developed when missile experts, who have a reputation for cutting corners, ran into one corner they could not trim.

Strangely, the troublesome corner was round—in the form of a large water storage tank on a hill several hundred yards south of Army Missile Command Headquarters.

“Microwaves follow a straight line,” Presson said. The location of the new Computation Center

put the water tank directly in the line-of-sight path between the test area transmitters and the Computation Center receiver.

“The inevitable solution was merely to bounce microwaves off the aluminum ‘backboard’ to a dish-type receiver which soon will be erected on top of the Computation Center,” Presson said.

Previously, a time lapse of 6 to 12 hours was required before data was available to test engineers at the test site. The “quick-look” data transmission system

now makes the same information available in 10 to 20 minutes.

Complete test data reduction and tabulation formerly was not available for three to six days. The new system has the required information ready for test engineers in three to six hours.

Immediate future plans for the system include a reverse data link from the Computation Center to the test area. This will make complete primary ballistic data available to the test site within five minutes after a captive test firing.

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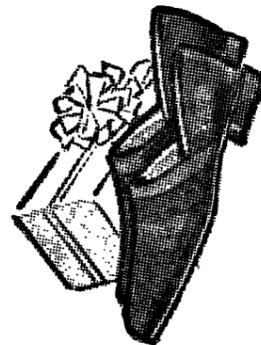
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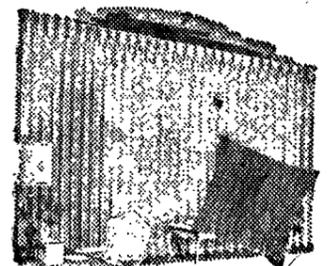
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Garden Club Plans Lunch

The Redstone Arsenal Officers Wives Garden Club will hold the annual Christmas luncheon on Dec. 4 at 12:30 p.m. at the Squirrel Hill Officers Club.

Each member is being asked to bring an arrangement (fireproof) suitable for hanging or table decoration. The arrangements will be taken to the U. S. Army Hospital.

The 55th Army Band is scheduled to present a program of Christmas music.

Mrs. F. C. Atkinson Jr., 877-4960 and Mrs. F. C. Nowell Jr., 877-4462 are handling reservations. Cancellations end Dec. 3, reservation deadline is Nov. 30.

Toastmistress

Nominate Officers

The Huntsville Toastmistress Club nominating committee for officers to serve from January through June presented the slate at the meeting at Steadman's restaurant last week.

Mrs. C. C. Briskey as Toastmistress presided over a program around the theme of Pet Theories of Gracious Living.

Topicmistress for the evening was Mrs. Meme Warren. Mrs. Briskey was selected as the best topic speaker for the evening. Mrs. C. A. Stambaugh was chosen the best speaker.

Guests at the meeting were Mrs. Amy Jackson and Miss Marianna Hearne.

23 Gray Ladies To Receive Caps

Twenty-three Gray Ladies who have completed their basic training at Bloodmobile visits, the Post hospital, and the clinics at Redstone Arsenal will be capped in a candlelight ceremony at the Post Chapel tomorrow night at 7:30 p.m.

Mrs. F. L. Furphy, Chairman for Red Cross Volunteers, has invited husbands and other guests to attend the ceremony. She has also requested all Volunteers who attend to do so in uniform.

Refreshments will be served in the Chapel Social Room following the capping.

SOCIAL and CLUB EVENTS

Lt. Col. Holston, Mrs. Washburn Win

Party Bridge winners at Monday night bridge last week were Lt. Col. Alfred Holston and Mrs. Reynolds Washburn.

Runnersup among the seven tables were Mr. Washburn and Mrs. Joseph Shewski.

Mrs. Frank Moore, 877-4171, is handling reservations.

Newcomer Defeats Older Toastmasters

A newcomer beat the past masters, all former presidents, during the speech competition of the Redstone Toastmasters 1932 at the Squirrel Hill Officers Club on Nov. 20.

John MacNicholas delivered his icebreaker with such eloquence that he defeated Robert Smith, Robert Sparks and William Green.

Toastmaster of the evening was Robert Miles and topics were conducted by Victor Williams.

SUPPORT WIVES MEET

Wives of officers in the Army Missile Support Command will hold a Coffee at the Squirrel Hill Officers Club at 10 a.m. on Dec. 3.

Reservations will be handled by Mrs. Robert N. Grove, 877-5433 or Mrs. Victor Halbach, 877-4433 until Monday, Dec. 3.

Mrs. James O. Greene will be the hostess.

MOVIE SCHEDULE

WEDNESDAY, November 28 "Tower of London" (M-YP)

THURSDAY-FRIDAY, November 29-30

"Who's Got the Action?" (M-YP)

SATURDAY, December 1

"Young Guns of Texas" (F)

SUNDAY-MONDAY, December 2-3

"Sodom and Gomorrah" (M)

First show Sunday and Monday 5:45 p.m.

TUESDAY-WEDNESDAY, December 4-5

"Escape from East Berlin" (F)

Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

At the Service Club

By Brenda Hanson

This week marks the beginning of December, the most festive month of the year. No other month can even approach December's hearty atmosphere of joy and well-being, so of course we here at the Service Club always try to put something a little bit extra in December's programs to go along with the season of cheer.

This month we start somewhat like a rolling snowball—slow at first, then bigger and faster until we burst with a shower of fun at the New Year's Eve Dance at the end of the month.

Just because the fancier programs come a little later than this week, however, don't assume that the club will be dull until then, as there's something going on that'll be fun to get into, so read over our schedule for the coming week and pick your choices.

Wednesday night the Dance Classes will meet in the Main Lounge at 1900 hrs. Mr. Virgil Norris will be on hand to give you all the tips on the latest steps, and they're sure to come in handy during those up-coming Christmas and New Years Dances.

Nov. 29 at 2015 marks the date and time for the Variety Show. This show will consist of local post talent sponsored by the Entertainment Section. Be sure not to miss this show.

Friday, Nov. 30 is the night designated as Card Night. If you enjoy playing cards, bring your op-

ponent and join in the card games. Light snacks will be served at 2030 hrs.

Saturday, marking the beginning of the most festive month of the year, calls for new decoration to get us in the swing of the approaching Holiday Season. So, being aware of this, we have planned a Christmas Decorating Party at 1430 hrs. If you would like to help decorate, we would certainly be happy to have you. Then at 1830 hrs. is Kitchen Kapers. Be sure to drop in for a refreshing hour of Kapers.

Dec. 2 is the day holding the date of the outstanding eventful evening of this weeks program. To begin the day with an enthusiastic starter, Molly will be serving you coffee and donuts at 0900 hours. Then the really spotlighted hour is 2000 hours, when the original Tony Paster Orchestra will appear here at the Service Club. So make your plans to see and hear the original Tony Paster Orchestra on Dec. 2.

Dec. 3 at 2015 hours is the hour designated as Game Hour. Two Grand Prizes will be given.

On Dec. 4, we have an Ice Skat-

ing Party planned at 1930 hrs. at the Huntsville Ice Palace. If you are interested in going to the Ice Party, be sure to sign up for this event on the Service Club bulletin board.

MISCELLANEOUS

You'd better start working on your holiday spirit right away, as you'll need it these next few days here at the Club. We'll have a Christmas Yuletide Ball featuring Tony Paster and his orchestra, an Ice Skating Party, a Christmas Semi-formal dance, a tree trimming party, various Christmas parties, record dances and buffets, and other fun-type things to do.

We'll be "decking the halls" here too, so if you really want to get into the yuletide spirit, come by and give us a hand with the decorations—there's nothing more Christmassy than getting your fingers stuck full of angel-hair. See ye soon?

— Brenda

WELDERS MEET

The American Welding Society will meet at the Kings Inn tonight at 7 p.m. to hear two speakers on beryllium.

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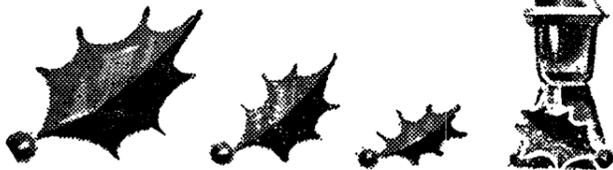
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HIGH LEVEL OFFICIALS STUDY HAWK—Deputy Assistant Secretary of State Glenn V. Gibson led a group of Department of Defense and Military Officials who studied the Hawk air defense system at Redstone Arsenal Nov. 20. The dignitaries, interested in production of the system by NATO countries, saw operation of the system and were briefed on how the Army Missile Command manages Hawk production and logistics. Shown here (left to right) are: Pvt. Joe L. Ross, an Ordnance Guided Missile School instructor; Mr. Gibson; A. Tyler Port, Deputy Assistant Secretary of the Army; Brig. Gen. H. P. Persons, Army Missile Command Deputy Commanding General, Air Defense Systems; and Col. H. M. Murray, Army Missile Command Hawk Project Manager.

RECEIVES DIPLOMA

Lt. Col. Ward T. Gilbert, Director of the Department of Individual Training, Ordnance Guided Missile School, presented a diploma to CWO Paul J. Keffer who completed the Missile Maintenance Supervisory course for the Sergeant system.

The big difference in the gradu-

ation was the absence of graduates. There was only one.

CWO Keffer was ill and unable to graduate with the class on Aug. 31. As a result, an exception was made to the general rule concerning graduations and his became the first one-man formal graduation at OGMS.

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ENTERTAINMENT SECTION

By Art Kalin

The Entertainment Section of Special Services will present a Variety Show, Thursday, Nov. 29 at 8:15 p.m. at the Service Club.

The show is a series of fast-moving skits and musical numbers. Featured in the music category will be songs from the Broadway Shows, "West Side Story," "Unsinkable Molly Brown," "Bye, Bye, Birdie," "Carousel," and many others. The skits will be performed by the "Service Club Players."

The Variety Show will also mark the return of J. Monte Temple to the Service Club stage. Those who saw "The Boy Friend" will never forget Monte's rendition of the "Tango."

So, for a fast-moving, fun-packed evening, don't forget the date, time and place, Thursday, Nov. 29, 8:15 p.m., at the Service Club. See you there.

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Bridge Classes Starting the Week of November 26th

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People at Work



SPEEDS TEST RESULTS—Malcolm V. Blackard, instrumentation Specialist in the Engineering Laboratories, Directorate of Procurement and Production, built time into the test data on the laboratory's computer cards to save himself from counting—and to speed the results of tests for analysis.

Blackard Finds:

Counting Blocks Slow; Computer Times Tests

A tedious job in missile testing has mothered invention of a new time-saving device at the Army Missile Command.

Malcolm V. Blackard, an instrumentation specialist in the Engineering Laboratories, Directorate of Procurement and Production, got tired of counting blocks and trying to decide in which portion of a 20-second lapse something happened on a test.

After considerable thought on the subject, he came up with a timer he could build into data handling equipment used to record tests on missile parts.

Blackard used spare cards (made of plexiglas and already containing the necessary information except for time) reworked the cards to record time within one-tenth to one-hundredth of a second and came up with an accurate time measurement.

He figures that he spent three normal working days wiring the connections during periods of lull on the job.

Blackard became a part of the missile business after six years at Paducah, Ky. with the Atomic Energy Commission where he was an instrument mechanic.

He signed up for three years in the Navy and was held an extra year because of the Korean conflict. Afterward he returned to the South. His original home is Union County, Miss.

His training in electronics was at the Navy Aviation School in Memphis. He spent two years at Corpus Christi, Texas, and San

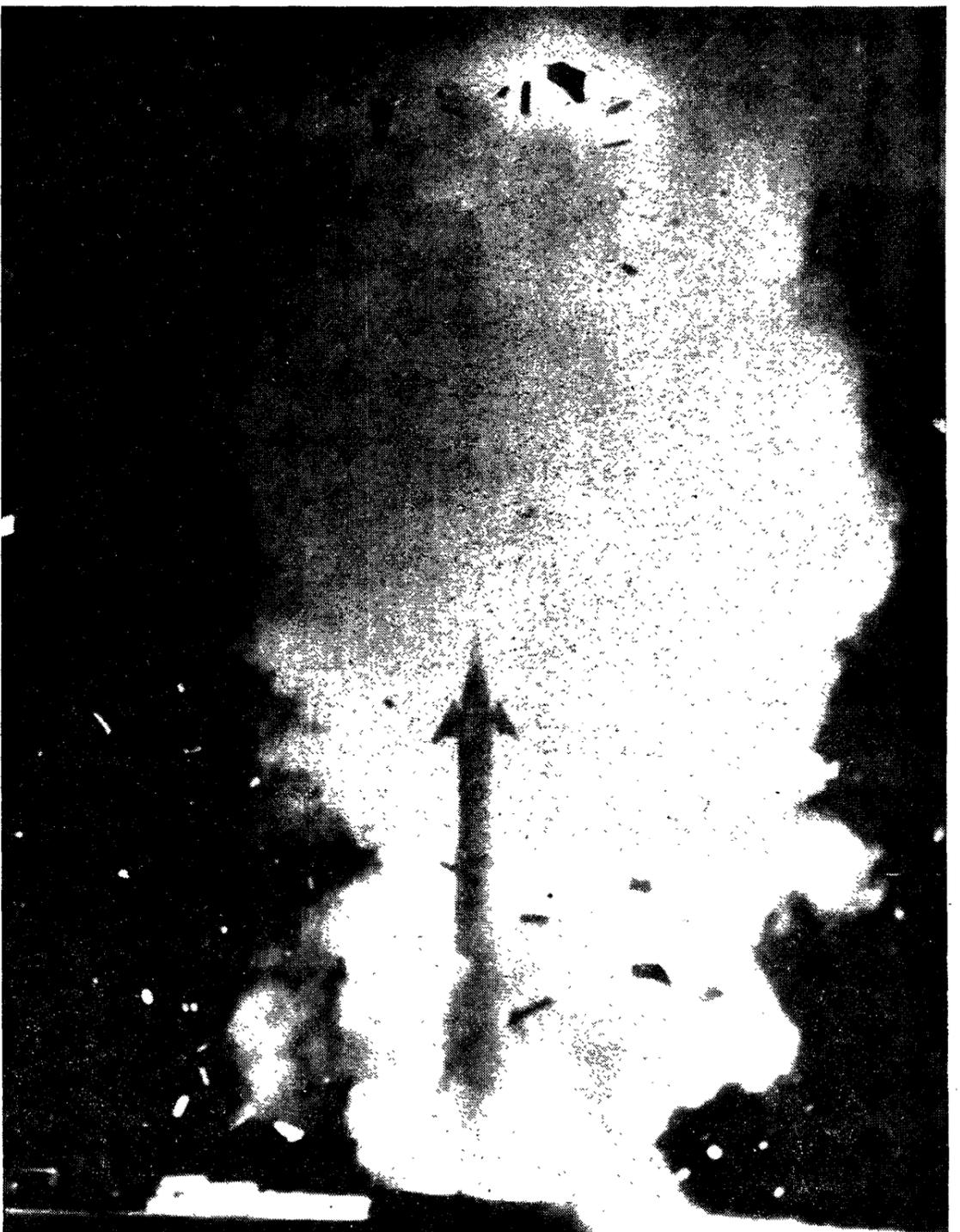
Diego, Calif. As a missileman he has been sent to California on occasion to help install instrumentation equipment such as analog digital recorders.

He and his wife, Marvene, have a seven-year-old daughter, Teresa, who shares her father's hobby of listening to early phonograph discs, recorded by such familiar old names as MacCormack and Autrey. Some of the collection includes British pressings of American songs made from American masters.

The Blackards have a newfangled electronic high-fi and an antique phonograph as a curiosity.

The Blackards prefer hill billy music—called by any name. Teresa likes to compete with the phonograph by tuning the radio to rock and roll.

So much of his time at home is spent on his music collection that Blackard hasn't had time to take advantage of the fishing and hunting the area affords—even though he has been here three years.



NIKE ZEUS . . . blows its top on command

Nike Zeus Blows Top On Command

The U. S. Army's Nike Zeus is creating its own world of individual distinction.

It is the only anti-ICBM missile system presently in advanced development in the Free World.

It also is the only missile designed to "blow its top" when given the ignition command.

Because a decision to launch the missile may require instant action, no motion can be wasted. Thus,

the Army's Zeus literally blows off its "roof"—at the same instant leaping from its underground "cell" at Kwajalein Island in the South Pacific.

The Zeus' hot temper and its constant tendency to "blow its top" is explained by Col. Ivey O. Drewry, Jr., Zeus Project Manager at Redstone Arsenal, Ala.

Housed in an underground "cell," the Zeus missile naturally requires some sort of protection from environmental conditions.

These underground cells are covered by a low-cost "roof," made of material which resembles styrofoam. It covers the cell at a slight pitch.

Viewed horizontally, the protective cover looks like any other roof at the ground level.

However, this lid may be blown to bits at any time—whenever the

Zeus is fired. Escaping motor gases which are released when the Zeus is ignited blast fragments of the light-weight "roof" into the sky above the launch complex.

After the Zeus has thundered from its cell, the missile zips past the styrofoam fragments in the air. Shattered pieces fall harmlessly back to earth around the launch area.

If, by chance, the missile hits a piece of styrofoam as it jumps from its cell, the result is negligible. The missile's course, or guidance, will not be altered.

The cover also can be rolled back, away from the cell for maintenance.

The protective cover over the cell is in line with the entire project—further advanced than any of the active missile defence systems currently being studied.

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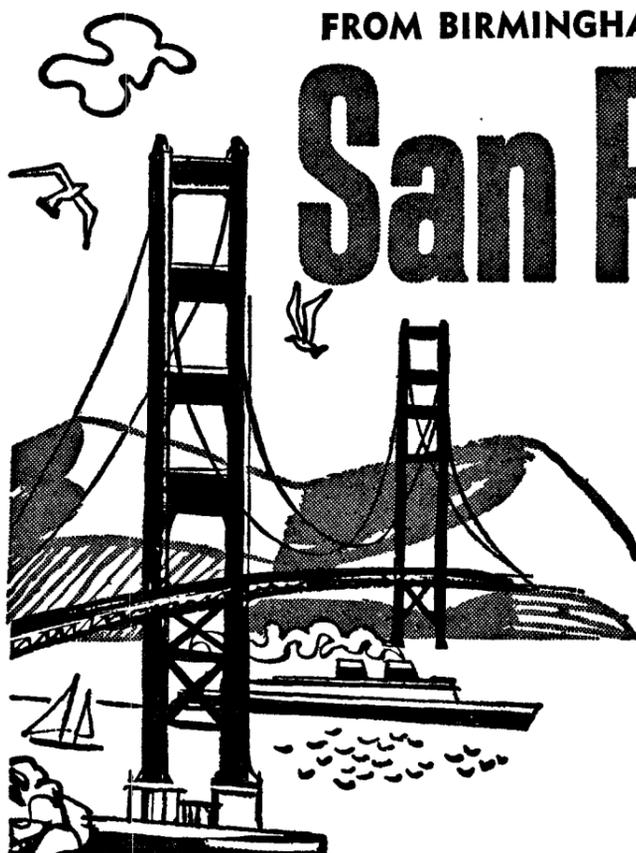
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Lively Heads Two Offices

Two offices which formerly served separate commodity managing functions for aircraft and anti-tank weapons have been combined to establish the Anti-Tank/Aircraft Weapons Commodity office of the U. S. Army Missile Command.

Lloyd L. Lively, Jr., former chief of the Anti-tank Weapons Commodity Office, is head of the redesignated organization.

Maj. P. A. Pencola is deputy chief of the new organization. Maj. Pencola was head of the Aircraft Weapons/LAW Commodity Office.

Lively stated the consolidation was made to conserve manpower and provide greater personnel flexibility.

Personnel affected by the re-organization will be assigned responsibilities similar to those held

Avoid Short Cuts Missile Class Told

There are few, if any, short cuts to proper missile maintenance, and the responsibility cannot be delegated by any member of an Ordnance missile team.

This advice was given to 38 graduates of the Army Ordnance Guided Missile School here last Wednesday by Capt. Frank B. Goodman at a ceremony in the Post Theater. He is special assistant to the chief of the ground support weapons division of the Army Missile Command's directorate of procurement and production.

"Make no assumptions as to the condition of any missile subsystem or component," Capt. Goodman warned the graduates who includ-

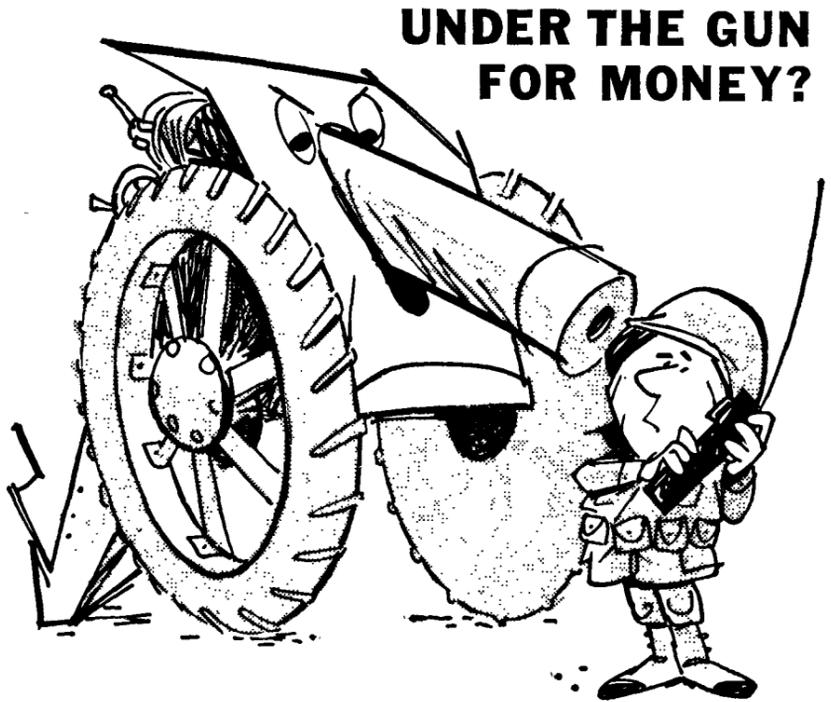
ed Swedish Army students completing Hawk courses.

before the consolidation, Lively stated. Systems under the commodity office's control are the Shillelagh, Heavy Anti-tank Assault Weapon (TOW); SS-10, Entac, M72 LAW; 2.75 Rocket; SS-11.

ed Swedish Army students completing Hawk courses.

Swedish SFC Per Erik Kraft was top man in his group. U. S. honor graduates were PFC Lloyd J. Joy-

ner, Lacrosse external guidance; L. Daviero, Corporal ground guidance; and PFC William A. Schroeder, Nike track radar.



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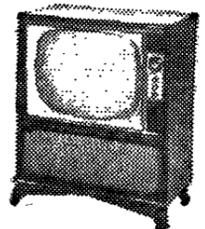


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RESEARCH LABORATORY WILL CHANGE SKYLINE

The Army Missile Command is poking another profile into the expanding skyline at Redstone Arsenal.

The new face is that of the Army Missile Command's Research and Development Laboratory—due for completion late in 1963.

First steel girders for the \$4 million research and development facility were hoisted into place last week by towering cranes—adding dramatically to the profile of the Army Missile Command skyline.

Col. Raymond W. Burkett, Director, Research and Development Directorate, toured the construction site with John L. McDaniel, technical director, and H. F. Vincent, project director.

"This is another major step toward implementation of progressive improvement in technical excellence of in-house research ac-

tivities," McDaniel commented.

Construction of the new three-floor building with its 205,000 feet of floor space was kicked off last July when Col. Burkett turned the first shovel of dirt opening the construction process.

The new research and development building will house four laboratories and provide facilities for a variety of research efforts.

Laboratories which are scheduled to be moved into the new building when it is completed are Guidance and Control, Launch and Ancillary Equipment, Structures and Mechanics and the Electromagnetics Laboratories.

The structure will be located south of Army Missile Command headquarters—directly behind the new Computation Center which recently was completed.



R&D BUILDING GOING UP—Col. Raymond W. Burkett (center), Director of Research and Development Directorate of the Army Missile Command, studies progress of the new Research and Development laboratory now under construction. With him are John L. McDaniel (right), technical director, and H. F. Vincent (left) project director. The new R&D facility is scheduled for completion late next year. First steel went up last week.

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SIMMS ADDRESSES EDUCATION GROUP

Leroy Simms, Editor of the Huntsville Times, was the guest speaker Tuesday at the Huntsville Citizens' Committee for Better Schools last week. He talked about "How Schools in Alabama Compare With Those in the Rest of the Nation."

Through his activity in the Huntsville Industrial Expansion Committee and other civic organizations, Mr. Simms had had extensive contact with college and

business administrators throughout the nation.

"How good are schools?" is one of the chief questions asked by executives considering locating branches in Huntsville, said Simms. His investigations show that, although graduates of Huntsville city schools do well in colleges, the schools are still faced with important problems. Most problems are caused by too little money for education, even though a well-planned building program has provided enough classrooms

Births at Post Hospital

Philip Vitner, 7 lbs., 6 ozs., Nov. 12, son of Maj. and Mrs. Saul Vitner.

Todd James Burnside, 6 lbs., 3 1/4 ozs., Nov. 15, son of 2d Lt. and Mrs. James L. Burnside.

Kevin Thomas Flynn, 9 lbs., 12 3/4 ozs., Nov. 15, son of 2d Lt. and Mrs. Leslie T. Flynn.

Margaret Merrill Pierce, 8 lbs., 6 ozs., Nov. 15, daughter of Capt. and Mrs. Ellis E. Pierce Jr.

Deborah Ann Swift, 6 lbs., 1 oz., Nov. 15, daughter of Pvt. and Mrs. Ralph W. Swift.

Donna Jo Clark, 5 lbs., 7 ozs., Nov. 16, daughter of Pvt. and Mrs. Eli B. Clark.

Kenneth Allen Newton, 8 lbs., 14 ozs., Nov. 17, son of 2d Lt. and Mrs. Noel K. Newton.

Tina Louise Gordy, 7 lbs., Nov. 19, daughter of Sgt. and Mrs. James C. Gordy.

Therese Ann Kress, 6 lbs., 8 1/2 ozs., Nov. 19, daughter of Pfc and Mrs. Robert S. Kress.

Delvia LaVerne Johnson, 6 lbs., 1/2 ozs., Nov. 19, daughter of Pfc

and Mrs. Pearl R. Johnson.

Mark Christopher Johnson, 8 lbs., 1 1/2 ozs., Nov. 19, son of Capt. and Mrs. Andrew C. Johnson.

Greg Anthony Luetkenhaus, 6 lbs., 5 1/2 ozs., Nov. 20, son of SSGT and Mrs. Norman F. Luetkenhaus.

lbs., 8 1/2 ozs., Nov. 20, son of Pvt.-2 and Mrs. David R. Tamplin Jr.

Scott Edward Nelson, 6 lbs., 5 1/2 ozs., Nov. 20, son of 2d Lt. and Mrs. Richard F. Nelson.

Neal Jerome Loth II, 7 lbs., 2 ozs., Nov. 21, son of Sp5 and Mrs. Neal J. Loth.

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so that double sessions have not been necessary.

Additional school funds are needed to make the necessary improvements.

One urgent need, Simms stated, is for accelerated classes for more able students. Also important are more specialized classes for students needing remedial teaching.

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Page 14 The Redstone Rocket — Nov. 28, 1962

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FOR SALE — F-85, 1962 Cutlass Olds., 6 mo. old, 11,000 miles, bucket seats, excellent condition, already financed. Call 539-5542 after 5 p.m. ttc

FOR SALE — 1960 Great Lakes Parkwood mobile home, 46'x10'. 2 bedrooms, side aisle, air conditioned, automatic washer, awning. Call 539-6212. 1tp

FOR SALE — Three bedroom brick in Guntersville, living-dining room combination, kitchen, large family room with fireplace, patio. Priced for quick sale, owner transferred. Phone Guntersville 582-4064. 1tp

BAND INSTRUMENTS — Rental Returns. Clarinets, Cornets, Trumpets, Trombones, Saxophones, Flutes, etc. Prices range from \$29 to \$79 or higher. All instruments guaranteed. Cash or Terms. Phone 536-9933, 9 a.m. to 9 p.m. ttc

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FOR SALE BY OWNER — 3 bedroom brick and drop siding home in Hartselle. Two baths, double carport, chain link fence encloses back; storm windows, termite treated. On 104x175 ft. all-shady lot in beautiful Tanner Heights, Hartselle. Call SP 3-7491. ttc

WANTED — Carpool member from vicinity of Attalla or Gadsden, Alabama. Hours 8 to 4:30. Contact Jane Gray at JE 8-7109, Attalla. 1tc

FOR RENT — Comfortable room for one or 2 gentlemen. Lavatory in room. Three blocks from downtown. Phone 534-9817. 1tp

FOR SALE — New brick home, 3 bedrooms, 1½ baths, carport. Finished outside. You finish inside. Some materials already bought for inside. Call 876-0516 or Arab 586-7212. ttc

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ON THE LAKE, LESS THAN 20 MILES FROM ARSENAL GATE — Boat storage for rent. Rooms with bath for rent. Contact W&W Land Co., 106 N. Lincoln, Phone 534-1451 or 536-3113. ttc

OFFICE AND DESK ROOM—AAA, private, phone, secretary full-time, furnished parking, central location, desk space available also. Archer, Inc., P. O. Box 1107, Huntsville, Ala., phone 539-7421. 11-28p

GUNTERSVILLE LAKE WATERFRONT LOTS FOR SALE — Lakefront business property for lease. W&W Land Co., 106 N. Lincoln, phone 534-1451 or 536-3113. ttc

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Gen. McMorrow Says

Best Weapons, Soldiers Are Our Responsibility

"It is our responsibility to see that we have the best people managing the development of the best weapons for the best soldiers to defend the best nation on earth," Maj. Gen. Francis J. McMorrow told a meeting of the American Ordnance Association last week.

With emphasis, the Commanding General of the Army Missile Command said, "We have them." Gen. McMorrow was the principal speaker during a recent meeting of the local post of AOA. His address was preceded by a report by the president, M. K. Cummings, and the election and installation of new officers.

Newby Elected

Mr. Cummings, the president of Brown Engineering, was succeeded by David H. Newby, of the Marshall Space Flight Center.

The remainder of the newly elected slate of officers includes: A. A. Demetriou, of Northrop Corp., first vice-president; P. K. Schaeppi, Army Missile Command, second vice-president; J. R. Abbott, Lockheed Aircraft, third vice-president; and Jeff D. Darwin, Army Missile Command, secretary-treasurer. Demetriou will also be the national council member.

Gen. McMorrow spoke to the meeting on "The Soldier: His Weapon Needs and What the Army Is Doing About Them."

In directing his remark to the diversified interests of the members of the Association, he opened his address with the comment, "We live and work together . . . Army, NASA, contractors."

All Pull Together

"I think it is fitting and heart-warming to find all of us pulling together in the American Ordnance Association—a professional group which has contributed so heavily to scientific advancement throughout the years."

He continued, "We have more than 20 programs in which the Missile Command has an active hand. Some of our major programs you hear a great deal about. Newer programs, and ones which are perhaps not quite so glamorous, you may not be familiar with."

The General spoke briefly about the Nike Zeus, Pershing and Sergeant missile systems development programs.

Industrial Resourcefulness

"In line with current Army policy, he said, "They were all developed by American industrial resourcefulness. The Army monitored and directed development. Many of the capabilities available at Redstone Arsenal were utilized to assure that the maximum state-of-the-art was attained in each."

He continued, "In this modern day of missiles and rockets, we may sometimes lose sight of the lone soldier. Our foot soldier still needs weapons he can carry with him wherever he needs to go. We must never forget to provide him with the best arms the state-of-the-art will permit."

"We are doing plenty about the soldier and his needs here at Redstone."

In referring to man-portable weapons Gen. McMorrow discussed the Redeye and LAW development programs, citing the former as a shoulder fired, anti-aircraft guided missile for the soldier and the latter as a "pocket" rocket with which one man could knock out a tank.

In-House Competence

"The in-house technical competence which the Army maintains at Redstone is our missile program's most precious asset," he said.

"Our contractors depend on us to be that reservoir of knowledge that must be maintained. It is necessary that we utilize scientific data which we obtained in other programs. This valuable information is passed from one system to another and benefits us both," the General continued.

"Just recently the Army announced that it was proceeding with development of a new battlefield weapon known as Missile B,"

he said. (Announcement was later made that the weapon had been named "Lance").

"There are people at Redstone who have been working for a long time on some of the concepts to be employed in this system," he said.

"It takes all kinds of creative genius to conceive, design and develop weapons for our troops within a tight time frame. The missile business is a constant race against obsolescence."

We Must Win

"We must win this race and stay within our budget. We are constantly looking for ways to do a better job at less cost. One means is a new documentation system that has already attracted wide attention in defense man-

agement circles. The Missile Command plans to inaugurate this new system in January. It will be catalogue for the first time common and peculiar use type Army missile parts in a small, readily available package.

"The new system will give con-

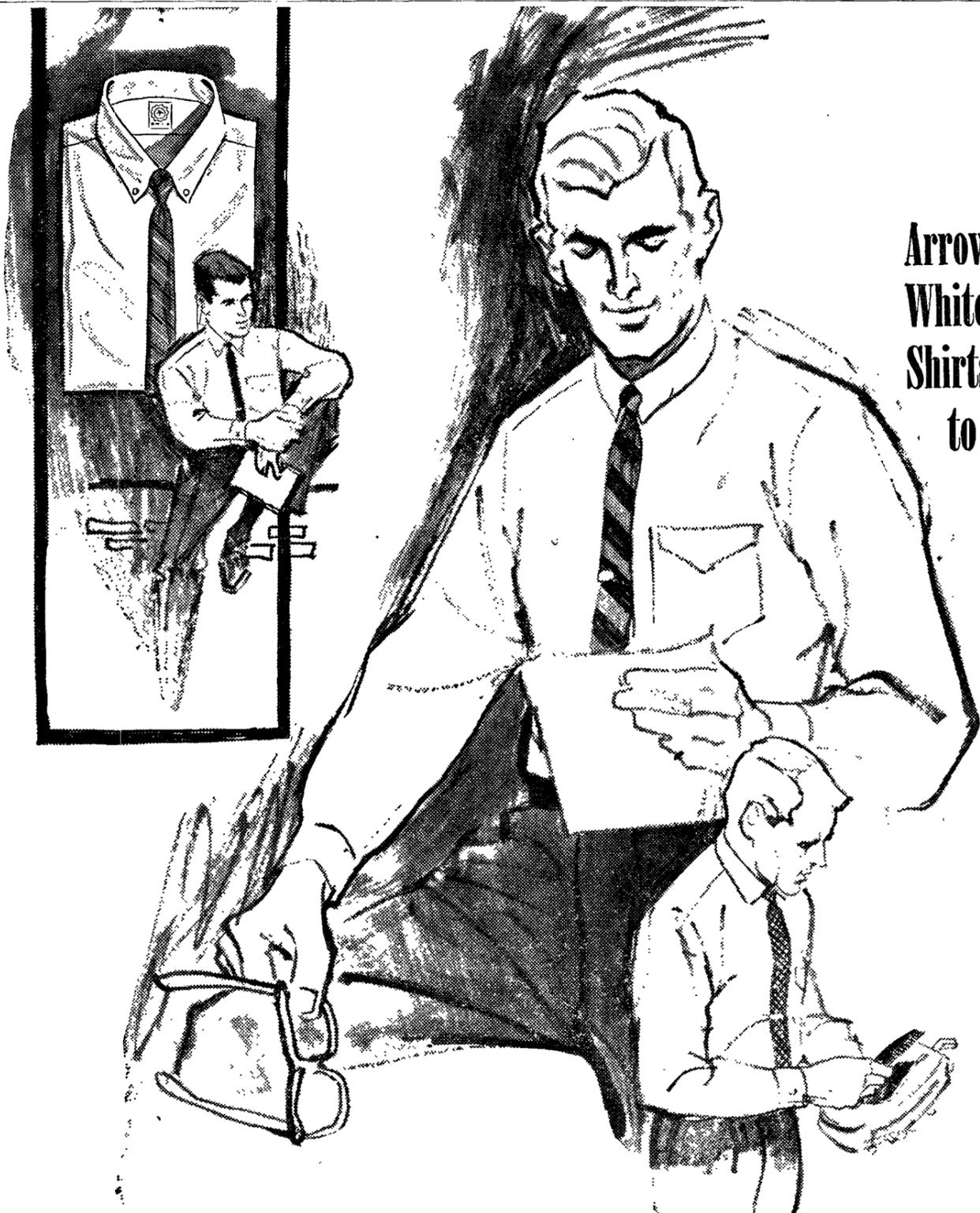
tractors a comprehensive file on Army missile parts. It will assist them in designing new missile systems or components using parts already in use.

"One of the most important contributions the new data retrieval system will make is the increas-

ed standardization in missile parts. "In the final analysis—not matter how fascinating the hardware—it's people who make it go. We are fortunate to have fine people—both military and civilian in our team at Redstone," Gen. McMorrow concluded.



AOA GETS RUNNING START FOR NEW YEAR—Enthusiastic new officers and directors of the Tennessee Valley Post, AOA, gather following a recent reactivation meeting. Left to right they are Jeff D. Darwin, Army Missile Command, Secretary-Treasurer; J. R. Abbott, Lockheed Aircraft, Inc., Vice President; David H. Newby, MSFC, President; Maj. Gen. F. J. McMorrow, Army Missile Command, principal speaker for the occasion; A. A. Demetriou, Northrop Corporation, Vice President; and P. K. Schaeppi, Army Missile Command, Vice President.



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