

Arsenal-Wide

Spot News

Dial 112

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 23, 1966

Project Manager Concept Undergoing Changes

Missile Command Gives Most To Combined Fund

Army Missile Command employee participation and individual contributions to last fall's Combined Federal Campaign conducted in Huntsville were the highest in the country.

In a letter of appreciation from John W. Macy, chairman of the Civil Service Commission, to Secretary of the Army Stanley R. Resor, he pointed out that the Army's 98 per cent rate of participations and the per capita gift of \$20.54 were above any Combined Federal Campaign conducted elsewhere.

Macy recognized the outstanding leadership of Maj. Gen. John G. Zierdt which contributed to the successful drive. The Commanding General of the Army Missile Command was chairman for the campaign. It was the first time that the "one-drive for all" concept of fund raising had been conducted at Redstone.

At the close of the six-week drive in November, Gen. Zierdt commented, "Only the format for the drive was changed—the results are the same. Redstone is still the 'installation with a heart'."

He credited the Combined Federal Campaign committee, headed by Leonard Brockman of the Army Missile Support Command with an

outstanding job of educating the entire work force with the new plan and then carrying through with a campaign that netted the largest total contribution in the shortest period of time in Arsenal history.

Over \$400,000 was turned over to local, national and international fund raising agencies by the Army and Marshall Space Flight Center agencies at the Arsenal, and the Social Security Administration in Huntsville.

More than 18,000, or 93.9 per cent of the total federal personnel included, made contributions to the drive through cash donations or payroll deduction authorizations.

The Army figures were even more glowing. Contributions were received from 12,615 of the 12,877 assigned personnel totaling \$264,477.83. This is a 98 percent participation rate with a per capita gift of \$20.54.

The largest individual Arsenal gift went to the Huntsville-Madison County United Givers Fund which received \$278,202.33.

The National Health Agencies received \$64,490.40, the International Welfare Agencies received \$11,033.73 and \$46,913.64 went to fourteen other UGF agencies in neighboring communities.

Support Problems Being Examined By Officials

Department of the Army officials have begun meetings at the U. S. Army Missile Command to look closely at support problems connected with Army missile systems.

A study group headed by Brig. Gen. T. T. Paul, Office of the

(See Picture on Page 16)

Chief of Staff for Logistics, is conducting a special logistic study involving high-dollar, low-density missile systems.

The study is expected to continue for several months, the Army said.

Other committee members include Col. Erwin Graham, Commandant of the Army Missile and Munitions Center and School; Col. E. J. McGinnis, Deputy to the Deputy Commanding General for Land Combat Systems at the Missile Command; Col. Edd Lautz, Army Materiel Command; Col. J. A. Laing, Army Air Defense Command; Col. E. R. Young, Office of Deputy Chief of Staff for Logistics; and Col. Frank Wasson, Combat Developments Command.

Col. Young is chairman of a working group whose membership includes Lewis L. Gober from the Missile Command.

General Paul formerly was Deputy Commander of the Army Ballistic Missile Agency.

Contract Managers To Meet February 28

The National Contract Management Association's Huntsville Chapter will hear Mayor Glenn Hearn discuss city government at the Feb. 28 meeting. Dinner is scheduled at 6:30 p.m.

Reservations are being handled

Shillelagh Uses Studied By U.S., The Netherlands

Military and civilian officials from the Royal Netherlands Army this morning began a two-day meeting at the U. S. Army Missile Command to take a look at the Shillelagh anti-tank guided missile system.

While here, the visitors will be briefed on use of the Shillelagh system with the XM-551 which is the General Sheridan armored reconnaissance airborne assault vehicle. They also will view training equipment and will discuss with the Army present and future program planning.

The group is headed by Lt. Col. J. Van Bentham, Deputy Chief, Inspection Materiel Command, Royal Netherlands Army and includes T. J. DeCock Buning and Hendrik D. Van Nieuwkerk.

Lt. Col. Spencer R. Bean is project Manager for the Shillelagh program and directs system development from the Missile Command at Redstone Arsenal, Ala. Aeronutronic Division of Philco Corporation is prime contractor.

Shillelagh is a gun-launched guided missile system being developed for Army armored vehicles. The system's 152mm gun-launcher can fire either missiles or conventional ammunition.

by Gwen Taylor, 536-5541. Joe Brookshire made the announcement.



COL. GEORGE E. LEVINGS

FORMER DEPUTY COMMANDER DIES

Col. George E. Levings, II (Ret.), 61, a former deputy commander of Redstone Arsenal, died last Thursday at Hillsboro, N. C. of a heart attack.

When he came to Redstone in November 1953 he was assigned as (See FORMER on Page 3)

Realignment Of Manpower Will Not Reduce Force

A "refinement" of the Project Manager concept now underway at the Army Missile Command will result in some 300 authorized manpower spaces being shifted from

the originally established projects to newer projects and the Directorates of Research and Development, Procurement and Production and Supply and Maintenance.

The moves will not result in any reductions in work force, however, according to Maj. Gen. John G. Zierdt, Commanding General of the Missile Command.

The moves, being carried out gradually over a period of months, are to be basically completed by early summer of this year.

When completed they are designed to:

—Provide additional capability for growing new missile projects,

—Give the functional directorates greater depth and flexibility to support all projects, and

—Refine all project management offices to a "hard core" of managerial personnel for direction, control and management of the project.

(See PROJECT on Page 4)

Pershings Hit Target

Operating under tactical-type conditions, U. S. Army troops this week fired two Pershing missiles from the Fort Bliss-Huaco Range into White Sands Missile Range, N. M. Both missiles fell into predetermined target areas.

The firings were part of the annual service practice for "A" and "D" Batteries of the 2nd Battalion, 79th Artillery at Ft. Sill, Okla. Last year the battalion fired its service practice from Fort Wingate, N. M.

Pershing was developed by and is managed from the Army Missile Command. Martin Company of Orlando, is prime contractor.



OPENS OFFICIALLY—Mrs. Francis J. McMorrow snips the ribbon at the dedication last week of a new wing to the Army Missile Command's Francis J. McMorrow Laboratories at Redstone Arsenal. Assisting her are Jess B. Huff, Director of the Army Inertial Guidance and Control Laboratory and Maj. Gen. John G. Zierdt, the Missile Command's Commanding General. The \$2.5 million addition is being occupied by the Army Inertial Guidance and Control Laboratory one of five Research and Development Directorate labs in the building named in memory of Maj. Gen. McMorrow, a former Missile Command Commander. (Story and Picture on Page 3)

The Redstone Rocket

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Rocket Ruminations

If a man has an office with a desk on which there is a buzzer, and if he can press the buzzer and have somebody come dashing in response—then he's an executive.

—Elmer Frank Andrews

A Week To Celebrate

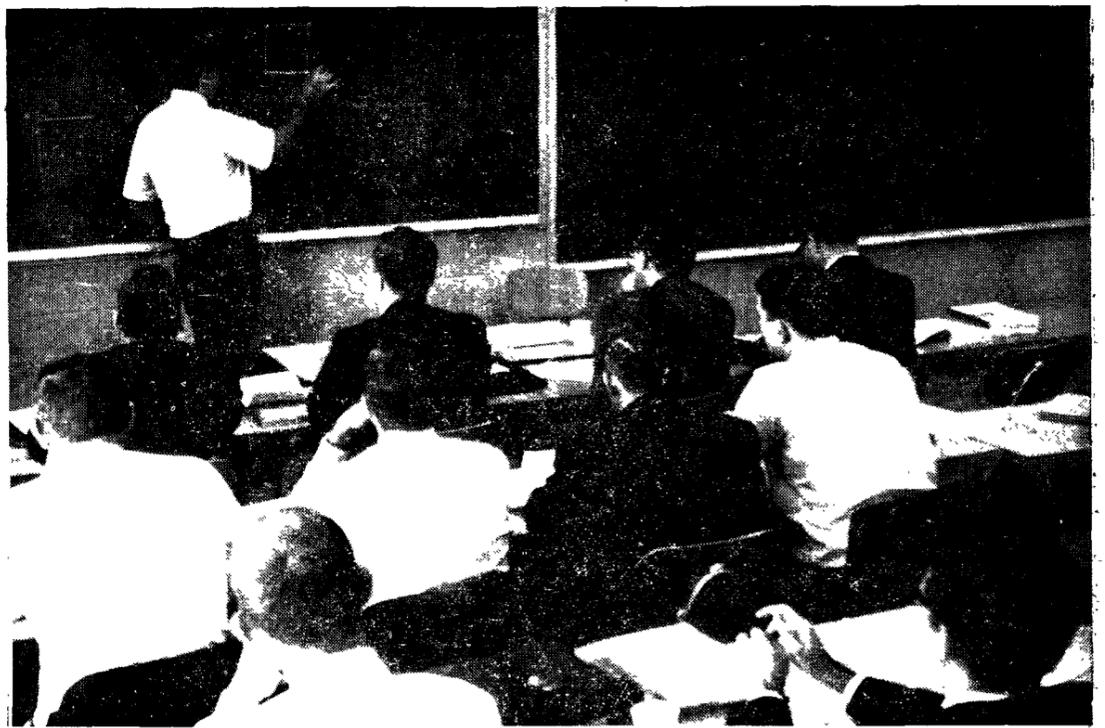
Engineers always choose to celebrate during this week in February. This is the week that one of the greatest of the American Military Engineers was born . . . 234 years ago.

He was not only an engineer: he was a farmer, a soldier, a surveyor, and the first president of the United States: George Washington.

In Huntsville this week he would not recognize the state of the art of engineering which erects multistory buildings, vehicles that hurtle along four lanes of pavement according to the time of day; an arsenal of automatic weapons and self propelled missiles; even space vehicles that go beyond the wildest dreamer's imagination in the years when the Continental Congress first drafted a Constitution for the United States.

Of course there was an earlier engineer, Leonardo da Vinci, who foresaw mankind in the air. This man was also a military machine designer. Men of vision: The Engineers!

There are approximately 1600 engineers and scientists at the Missile Command. They are participating in a speaking program this week to let school children know the role the engineer plays in technology and progress. Climax to their efforts will be in a lighter vein. They will celebrate with a dinner-dance . . . a fitting way to terminate a work week of education among those who will follow an honorable profession.



BETTER WAY TO ANALYZE—Representatives of Government agencies, colleges and universities, and aerospace industries from all over the United States listen as Eric Becker of Rohm & Haas Company explains a new stress analysis program for use in designing and evaluating solid propellant missiles. The program was developed by Rohm & Haas under sponsorship of the Army Missile Command's Propulsion Laboratory at Redstone Arsenal and has been presented at two workshops on the University of Alabama Huntsville Campus.

Propulsion Scientists Improve Stress Analysis In Solid Propellant Rockets

The Army Missile Command's Propulsion Laboratory has sponsored the development of an improved stress analysis program for use in designing and evaluating solid propellant rocket motors. Program formulation and development was accomplished by the Rohm & Haas Company Redstone Research Laboratories.

To inform other Government agencies, colleges and universities, and the aerospace industry of the new "tool" to be used in making better propulsion systems, two workshops have been held and were attended by 65 scientists and engineers from across the country.

The stress analysis is an automated one that gives engineers the ability to analyze more complex structures than was previously possible. Called the "Finite Element Method," it breaks the motor body down into small quadrilateral elements and solves the "stiffness" relations by a computer program developed with the assistance of Bobby Todd of the Army Computation Center at Redstone.

Four instructors from Rohm & Haas, Eric Becker, John Brisbane, Tom Cost and Charles Parr, taught the three-day workshop on the University of Alabama Huntsville Campus. Arrangements on the campus were provided by D. J. Kieselbach, Director of Short Courses and Conferences, and his staff.

This new tool and its dissemination to Government and industry has been termed a "significant enhancement of our ability to analyze and correct structural problems in solid rocket motors" by William B. Thomas of the Research and Development Directorate's Propulsion Laboratory, under whose direction and funding the analysis was developed at Rohm & Haas.

Reading Improvement Is Popular—Early and Late

Some sort of an attendance record for on-post training courses has been established by two Reading Improvement classes that have been conducted for Army employees during non-duty hours.

The opening class was held following the close of work every day for six weeks ending in mid-December. The latter class was held prior to work, running from January 10 through February 18.

The classes were scheduled at the request of Army employees who decided they could not spare the time away from their work to attend during duty hours.

The training is conducted by Bernard Reynolds of the Communications Skills Company in coordination with the Training and Development Division of Civilian Personnel.

Members of the second class were: Col. B. R. Luczak, until recently the project Manager of the SAM-D system; Ross Vinson, Michael Shuput, Nellie Underwood, Dorothy Rowe, Samuel Burns, Myra King and Katie Pettis, all of Hercules; Robert Moore and Carl Johnes, of Hawk; Harry Palmer, Donald Cooper and David Doyle, from Procurement and Production Judson Griffin and William Whitenor, of Research and Development; Jean Walker from the Support Command's Assistant for Communications; and James Jager, Gladys Mood and Leanne Barnett, all from USAMMCS.

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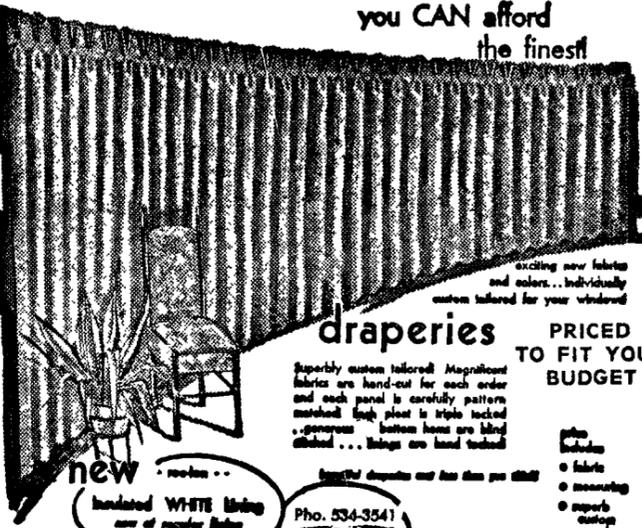
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THE LAB IN OPERATION—Jess B. Huff, Director of the Army Inertial Guidance and Control Laboratory at the Army Missile Command, explains computer operations to Mrs. Francis J. McMorrow (center), and to her daughter, Mrs. Paul Ruud, and son, Capt. Thomas F. McMorrow, during a tour of the new wing to the Francis J. McMorrow Missile Laboratories. At right is Charles L. Lewis, a

lab engineer. The A.I.G.&C. Lab is housed in the new wing which was formally opened last Tuesday afternoon, and is the fifth Research and Development Directorate laboratory to be located in the building. Mrs. Ruud resides in Bryan, Texas, and Capt. McMorrow is stationed at the Presidio of San Francisco, Calif.

FORMER
(Continued From Page 1)

assistant chief of the National Procurement Division. He moved to the deputy commander post in July 1955, and left the Arsenal later that year for assignment in France.

He was a 1927 graduate of the United States Military Academy and held a degree in law from the University of North Carolina. At the time of his death he was a partner in the law firm of Graham and Levings in Hillsboro.

Survivors include his widow, a daughter and son, and one brother. Funeral services were held last Saturday in Hillsboro.

**'DEVELOP DESIRE'
GRADUATES TOLD**

A trait important to missile technicians cannot be formally taught at the U. S. Army Missile & Munitions Center & School.

"The desire or motivation to do ones very best in maintaining complex electronic equipment cannot be taught but must be developed by each individual," according to Mr. Leslie Sanders, Chief of the Test Equipment Branch, Sergeant Division, Land Combat Department, DIT.

He emphasized that each technician must fight laziness and attempt to learn all he can in order to do his job properly. He indicated that the missilemen were the hope of the free world to keep its defenses "on the air."

The honor graduates were: S/Sgt. Frederik Ten Brink of the Netherlands in the Nike Hipar Acquisition Radar and Radar Simulator course; PFC Peter J. Berest in the Nike Missile Repair course; Cpl. Orville J. Bittner of the United States Marine Corps, in the Hawk Internal Guidance and Launcher Electronic Repair course; and Sp5 Morris L. Clopton in the Ballistic Missile Internal Guidance control Repair Sergeant course.

New Wing Now Occupied In McMorrow Laboratories By Inertial Guidance

The new three story wing to the Army Missile Command's Francis J. McMorrow Missile Laboratories was officially opened last Tuesday when Maj. Gen. John G. Zierdt, the Commanding General, made the dedicatory remarks, and Mrs. McMorrow cut the ribbon at the main entrance.

million addition houses the Army Inertial Guidance and Control Laboratory of the Missile Command Research and Development Directorate. The wing provides 80,600 square feet of floor space for office and laboratory use, and is of reinforced concrete construction

with masonry panels and window panels.

Gen. Zierdt said that completion of the new wing is a tribute to the people who have made the Army Missile Command a world leader in guidance and control technology.

The General recalled that almost two years ago the other wings of the building were dedicated, and said that as with those wings, he now was officially dedicating this one to the memory of Maj. Gen. Francis J. McMorrow, a former Missile Command Commander.

Mrs. McMorrow, the general's widow, snipped the ribbon. With her for the ceremonies were the McMorrow's daughter, Mrs. Paul Ruud of Bryan, Texas, and son, Capt. Thomas F. McMorrow who is stationed at the Presidio of San Francisco, Calif.

The Director of the Research and Development Directorate, Lt. Col. Robert M. Pearce, presented a painting of the new facility to Mrs. McMorrow.

Jess B. Huff, the A.I.G. & C. Laboratory Director, conducted a tour of the new lab following the ceremonies. He pointed out and ex-

plained some of the important features which include isolation platforms, clean rooms, and many other specialized facilities used in developing and testing ultra-sensitive guidance components of the Army missiles and navigation systems.

This laboratory provides the Army Missile Command with the most up-to-date facilities to support research and development in the field of inertial guidance and control for newer, more advanced rocket and missile systems.

In addition to functioning as the Army's primary in-house facility for research on missile inertial guidance and control, the laboratory also acts as the Army's Inertial Guidance Management and Technology Center. The Center's responsibility is coordinating and providing technical and program support to all Army research and development of inertial systems and components used for guidance, navigation, stabilization and control.

The Laboratory was formerly located in buildings Gen. Zierdt described as "Considerably less than ideal." He praised the approximately 150 lab staff members for results they had achieved in the past saying that sometimes they approached the spectacular.

The move of equipment and personnel to the new wing started in December and has now been completed.

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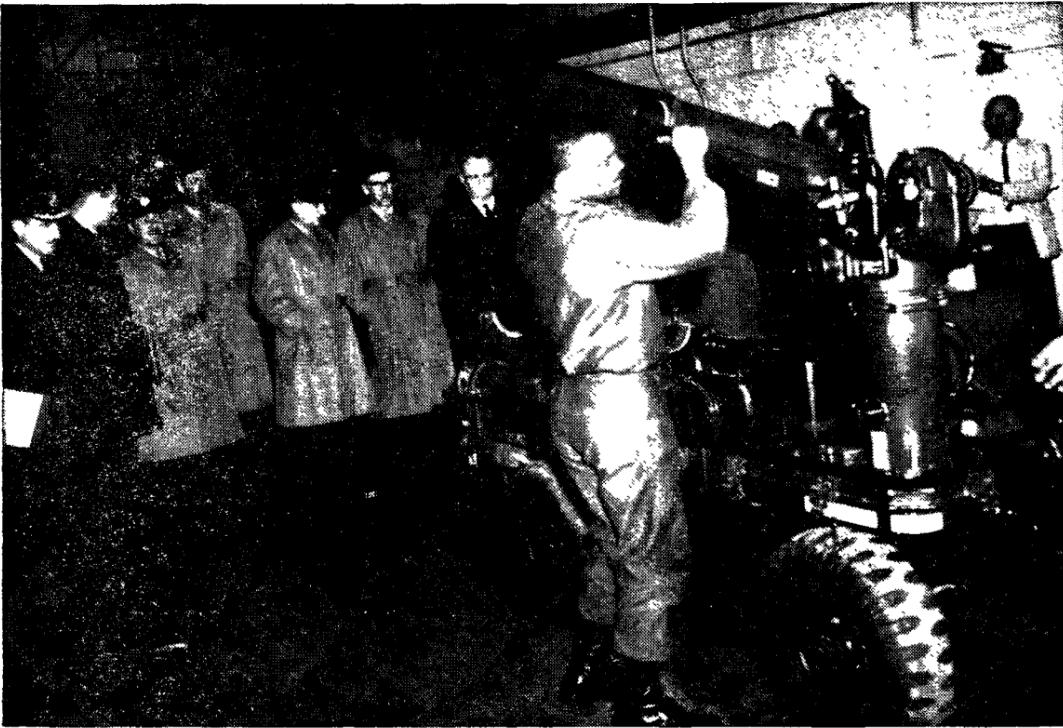
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CANADIANS SEE "TOW"—A soldier demonstrates to Canadian forces how quickly the Army's TOW anti-tank weapon system can be mounted on the Army "Mule." TOW was one of the weapon systems shown the Canadians this week during a tour and briefing on missile systems at the Army Missile Command.



A SOLD SALESMAN—Army career counselor M/Sgt. J. B. Barnwell testifies to his belief in his product by reenlisting for another three years that will boost his total service to three decades. Lt. Col. Robert C. Long, commander of the School Troop Command at the U. S. Army Missile & Munitions Center & School, swears in Sgt. Barnwell. A recruiter for nine years, Sgt. Barnwell was named the Top Third U. S. Army counselor for December, and will take over those duties at MMCS. His father is James C. Barnwell of Ninety Six, S. C.

PROJECT

(Continued From Page 1)

This adjustment, according to Missile Command management planners, will entail the shifting of many functional personnel (such as those involved in procurement and production and system support activities) to the functional directorates.

The Pershing, Hercules, and Sergeant Offices will yield most of the manpower authorizations involved in the shift.

While the Directorates will receive most of the spaces, the newer project offices which will be filled out by additional manpower authorizations include Shillelagh, Redeye, TOW, MAW, SAM-D and to a lesser extent Lance.

Missile Command officials say almost two years have been spent in studying and planning the move.

They note that the move involves shifting of manpower spaces, (job positions). Since some of these job positions are not presently filled, fewer individuals will be affected than the total number of shifts planned.

For those individuals affected, however, the refinement means a physical relocation from one office to another and in some cases from one building to another.

For example, 60 persons transferred from the Sergeant and Pershing Project Offices to the Supply and Maintenance Directorate on Feb. 14. Approximately another 60 are scheduled to make the same move from the Hercules Project Office within a month.

Among the functional directorates, Supply and Maintenance will receive the most spaces, followed by Procurement and Production and Research and Development in that order. Approximately thirteen persons have already been transferred to R&D.

Nearly all divisions of the affected Project Offices will be subject to some readjustments, including the Project Field Offices.

Missile Command management personnel say the refinement is the first major adjustment to the Project Management concept since it was instituted for Missile Command projects in 1962. They emphasize that it resulted from a thorough study by a steering committee set up by Gen. Zierdt more than a year ago to analyze the project management concept as applied in the Missile Command and make recommendations on how it could be made more effective. The

February 15, 1964 — The ENIAC (Electronic Numerical Integrator and Computer), the world's first electronic automatic computer, was dedicated at the Moore School of Electrical Engineering of the University of Pennsylvania. The computer was sponsored by the Ordnance Department for use at Aberdeen Proving Ground, Maryland (now an installation of the U.S. Army Material Command). Its advent started a new multi-billion dollar industry.

steering committee was divided into task groups involving many personnel from the Directorates and Project Offices who studied specified functional areas, such as systems engineering, procurement and production and supply and maintenance.

From these studies came the recommendations that various functional personnel in some of the original missile project offices could be transferred to the functional directorates and to newer project offices without any derogation of project manager authori-

ties and responsibilities.

This would result in project offices made up of a small, dynamic force of key personnel which would perform managerial work relying on the three Missile Command functional directorates for in-depth support in their respective areas of responsibility. The studies further emphasize that such an arrangement promises to enhance the Project Office operation by concentrating attention on the important managerial aspects of the job.

The transfers were planned so

as to take place on an orderly basis with no major disruptions in the efforts of the directorates or project offices.

In some cases a Project Manager may retain various functional Directorate personnel under his own control for a special reason over a short period. An example, here is a 10-man contingent from the Supply and Maintenance Directorate which will remain located in the Pershing Office for the time being to carry out a system

modification program.

Of the originally established projects, Hawk will be the one least affected because of its current logistics buildup. Lance, which lies somewhat between the management arrangement of the new and old project managed systems, will also be relatively untouched because its staffing buildup was purposefully confined to management type personnel in line with the new organizational concepts being considered.



A CANADIAN LOOKS AT REDEYE—Maj. Gen. Roger Rowley (center) of the Canadian Forces examines a Redeye air defense missile during his recent visit to the Army Missile Command for a discussion on U. S. Army missiles. On the right is Brig. Gen. Clarence

C. Harvey, Jr., Missile Command Deputy Commanding General, Air Defense Systems. Col. Arthur W. Reed, Redeye Project Manager, is at the left.

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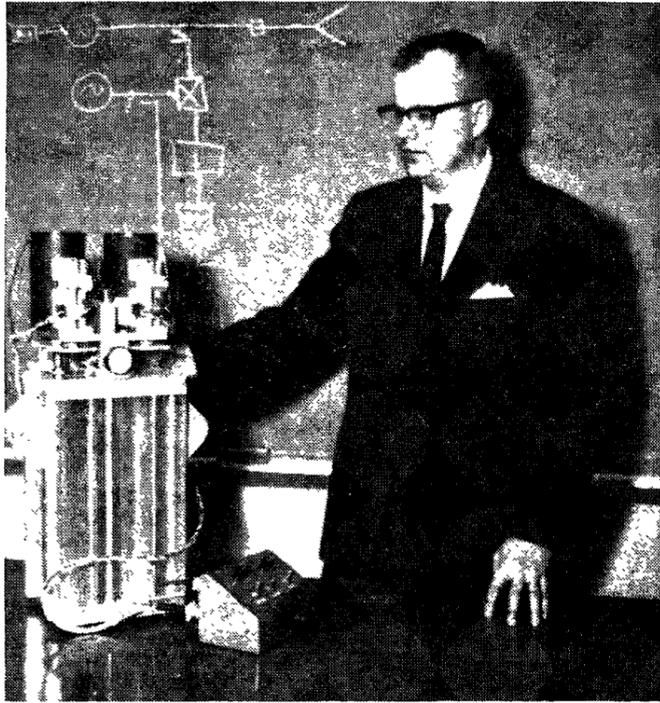
Lloyd W. Root, Jr., of the U. S. Army Missile Command, is just that. He has received a patent on a device that can be used to measure energy generated by such unrelated means as light or microwave. The device is a variable electromagnetic short circuit which provides an accurate means for varying and monitoring the electrical length of any circuit capable of transmitting energy.

Root's ability to produce and measure energy in the laboratory carries over into his everyday activities.

He came to Redstone Arsenal in 1956 as an Army lieutenant, single and full of vim and vigor. Before reverting to civilian status he served as North Alabama editor for the Live Wire Magazine for the Institute of Electrical and Electronic Engineers. At the same time he designed and built Huntsville's first television station, now Channel 31.

Since then he married and involved himself in community activities. He is a neighborhood commissioner for Boy Scouts, a member of the Board of Directors for the Madison County Tuberculosis Association, has served in many capacities for a number of organizations and began working toward his Master's degree in physics at the University of Alabama Huntsville campus. His Bachelor's degree from the University of Dayton, (Ohio), is in electrical engineering.

Root is serving as a member of



SHORT CIRCUIT—The variable electromagnetic short circuit designed and built by Lloyd W. Root, Jr., of the Research and Development Directorate at the U. S. Army Missile Command, is an extremely accurate means for varying and monitoring the electrical length of a circuit. A live wire at his work in the Electromagnetics Laboratory, Root's energy carries over into active participation in a wide variety of community projects in Huntsville.

an International Task Group under the direction of the Subcommittee of Basic Standards and Calibrations for the Institute of Electrical and Electronic Engineers.

His job in the Electromagnetics Laboratory of the Research and Development Directorate, U. S. Army Missile Command includes acting as a consultant engineer for the Advanced Research Projects Agency.

Root is not a dry scientific type who immerses himself in another world, but is closer to the father

next door who delights in surprises from and for his family. The Roots have two adopted sons, Michael two-and-a-half, and Christopher, 9 months. They hope to get three more children one day.

Root himself is a bouncy young man who meets each day with a great deal of pleasure. Being a Reserve Officer with a ready MOS, he could be recalled to serve somewhere — perhaps Redstone Arsenal or even Vietnam. But first he has to write the specifications

for another patent which are now notes in a book.

Mrs. Root is not to be outdone by Mr. Root. He may be the bread winner, but she does the bread baking. Twice she has had the blue ribbon presented for the bread she entered in the Madison County Fair.

She works with the Athens Pike

Home Demonstration Club.

In collaboration with another prizewinning bread baker, (she is writing a book on the subject.)

Together or apart, the Roots lead a busy life. When they are not committed to community or social activities in Huntsville, they go to Anniston to visit . . . Mrs. Root's hometown.



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Barney Edges Stewart To Take Weekly Honors

THE PARADE OF STARS

Supply Management League: Fred Stewart, 619 (236-201-182), Mike Shakelrides, 559 (268), Tom Lindsay, 557 (215), John Montana, 552 (210), Tom Patterson, 544, Roy Whalen, 542, Jack Bailey, 539, Henry Vaughn, 535.

Field Services League: Paul Barney, 641 (223-210-208), Troy Faulkner, 563 (224), Al Sarge, 557, Nick Sparks, 557 (226), Mike Shuput, 538, Sam Boda, 534, Ed Bledsoe, 530.

Redstone League: Ed Murrah, 574, Vic Passavant, 556, Jim Gulley, 553 (225), Jack Harris, 535, Bob Adams, 533 (234), Jim Denk, 529.

AMC League: Howard Roop, 573 (222), Larry Walker, 562 (210), Eulas Gilbert, 554, Roger Hodgdon, 543, Woodie Rush, 539, Jim Gulley, 539, Bill Crews, 532.

A strong third game gave Paul Barney the advantage he needed to outdistance Fred Stewart and grab civilian bowler of the week honors last week.

Bowling in the Field Services League, Barney, put together games of 223, 210 and 208 for a 641 while Stewart fired a 619 in the Supply Management League on games of 236, 201 and 182.

The big series by Barney, his second Honor Roll count of the year, gave the Crackers the boost to a three to one win over the Spoilers. They fired a 1046 game and a series total of 3012, both highs for the week.

Actually the big game was only eight pins better than the Spoilers who had the misfortune of losing despite a 1038 count.

The win also boosted the Crackers to within a half point of the leading Guided Muscles who were losing three to the Expeditors.

Stewart's efforts led the Maulers to three wins over the Satellites. The Brick and Tile five took a trio of wins to add another point to their lead over the All-Sports Trophies. The latter crew was held to a split by the third

place Debuggers, who got two points out of a 1055 game.

The Redstone League saw another shuffle at the top of the standings with the Six Shooters moving into a tie with Dean's Trailer Court. Dean's lost a trio to Burketts while the Shooters were sweeping Valley Cleaners.

Ed Murrah led the Six Shooter attack and the league with a 574 while Vic Passavant rolled a 556 for Dean's

The league is in for another possible shuffling this week with a position night. The series of matches bring together two teams tied for first, another pair sharing third, and still another pair who are all even in fifth place.

Eulas Gilbert and Bob Brand combined their talents to leading the Bombers back to the lead of the AMC League. Gilbert collected 554 sticks and Brand contributed another 523 for a 3 to 1 win over the Skippers.

The Maulers, who had the lead were jolted by a clean sweep dealt out by the Alley Cats led by Larry Walker's 210 and 562.

Howard Roop took individual honors for the league with a 572 that lead the Thunderbirds in a clean sweep win over the Packers. In other sweeps the Panthers swarmed past the Stars and the Ramblers took the measure of the Gladiators.

Riflemen Compete In Florida Meets

The Redstone Arsenal Small Bore Rifle Team recently returned from a very successful trip to Florida for the Mid-Winter shooting circuit, from which the group won 23 first places in the sharpshooter class.

The team traveled over Florida from the 4th-13th of this month, hitting meets in Miami, Hollywood and Winter Haven, Fla., including the preliminary tryouts for the 1966 World Shooting championships.

The members of the team are: S-Sgt. Adolpho Salazar, captain; S-Sgt. Joseph Galipeau, co-captain; S-Sgt. Lewis Marler; Sp.5 Cecil Fain.

All the members of the rifle team are instructors at the missile school and do not practice except when weather, work and time permit.

Rounders Set New High Game Record

A wholesale standings shuffle may be in store for the MMCS Officers bowling league tomorrow night with a pair of crucial matches.

In one of these the front running Rocket Rollers will put their half game lead on the line against the second place Black Jacks, and in the other the fast rising Satellites will try to continue their winning streak at the expense of the third place Bad Gnus.

Last week the Rollers saw their lead reduced by two points in losing three out of four to the Missilemen while the Black Jacks were winning three from F Troop.

While these matches were relatively quiet from the individual view, the match between the Bad Gnus and the Rounders was just the opposite.

In this one the Gnus took the first two games only to see the Rounders square the match with a rousing 1042 (965 scratch). The 250-pin win was enough to give the Rounders the fourth point.

Al Leonard shot a 211 in the final game and ended with 585 while Bob Percy fired a closing 231 to end up with 571. Milt Fogel pitched in with a 520 for the Rounders while Al Cox led the Gnus with a 540.

The final match saw the Satellites chalk up another sweep at the expense of the Squirrel Hill Mob as Hugh George put together a 540 set.

CIVIL SERVICE OPENINGS

The U. S. Board of Civil Service Examiners has issued three announcements of openings:

Announcement AT-35-7(66) is for reproduction equipment operator and pays W-4 to W-7 rates which range from \$2.02 to 2.44 an hour.

Announcement AT-35-8(66) is for photographer, offset at W-9 or \$2.78 an hour.

Announcement AT-35-9(66) is for film assembler-stripper at W-9.

C Co. Favored To Grab Unit Level Cage Title

Shaking off the affects of a late season slump, C Company took over the role of favorite as the Unit Level basketball tournament went into the final stages this week.

The school cagers, with three straight wins under their belts, are the lone remaining unbeaten team left out of the eight that opened play last Wednesday. The Military Police, the Officers, the Medics and MICOM are fighting it out for the right to take on C Company in the tourney finals.

After suffering defeats in each of their last three regular season games, C Company opened the post season tournament with a 63-50 win over the MPs. The following night the Officers fell 57-50, and on Friday the Medics were the victims of a 62-42 licking doled out by C Company.

Vern Bonlander and Harvey Spencer, with a big hand from Dan Cole was the offensive pattern for the C Company five in each of their wins. Bonlander fired 56 points in the games and Spencer tossed in 51 more.

Only in the second game was C Company pressed very hard. The Officers held at 30-27 lead at the half but two quick baskets by Spencer as the second half got underway gave C Company a lead that they never relinquished.

The Officers had opened the tourney trail with a 58-55 win over the Support Command after having been on the short end of the score until the last couple of minutes.

The top Officer gunner, Bob Murphy was held to six points as the Support Command took a 33-24 lead into the dressing room at the half. However, the second half was a different story as Murphy started hitting. He hit a 20-foot jumper to give the Officers their first lead with three minutes to go, and a driving lay up to clinch the contest. Bill Flynn scored 33 points for the Officers, one more than Murphy.

The MPs, playing for the first

time without the league's top scorer, Mike Stuart, came back from their opening round loss to score wins over Fourth ETC, 50-13, and over Headquarters, STC, 55-47.

Larry Bunge, Bob Lekovich and Jerry Rusnak took up the brunt of the scoring load left by the loss of Stuart. Lekovich, however, injured his ankle in the final game and is a doubtful starter the rest of the way.

The Medics, also hard hit by recent releases, only had five men available for their opening round game but they made the most of it with a control type offense and won 35-16. The following night the Medics handed STC a 42-30 setback.

John Brown took over the scoring lead from the departed H. C. Duncan with 38 points in the three wins.

MICOM took a 36-33 loss from STC in their opener but stayed in the running with a 50-13 victory over Fourth ETC.

•General William C. Westmoreland, Commander of U. S. forces in Vietnam has been named by the editors of **Time Magazine** as the 1965 Man of the Year. According to the magazine, Westmoreland was chosen because he was the "personification of the American fighting man in 1965 who, through the monsoon mud of nameless hamlets, amidst the swirling sand of seagrit enclaves, atop the jungled mountains—served as the instrument of U. S. policy, quietly enduring the terror and discomfort of a conflict that was not yet a war, on a battlefield that was all no-man's land."

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Team Strength Tops Individual Heroics

Les Dotson and Joe Churan put the two best individual totals in the A-B-C Officers bowling league together last week but it wasn't enough to keep the Black Jacks from losing three out of four points.

The Pin Splitters didn't have anyone who could match either of the Black Jack Stars, but they did turn in the weeks top team total with 2722.

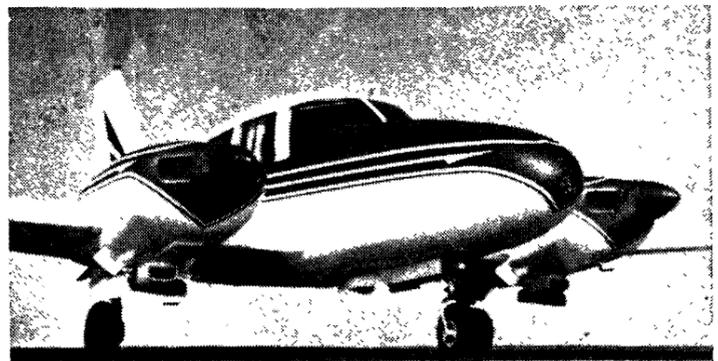
Dotson spilled 589 sticks while Churan accounted for 544 more.

The Saturn V quintet got a pair of 500s from Trev Dumitru and Bill Martin to outlast the S Wonders who got 500 efforts from Gerald Hicks, Eric Mauerhoff and Paul Boyer.

The only other match rolled last week resulted in a 3 to 1 win for the Hopefuls at the expense of the Wheezers as Otto Thamasett set the pace with a 532 total.

The loss dropped the Wheezer lead to a single point over the Saturn V and Hopeful teams. The Lucky Strikes are only two points off the pace and they have a postponed match with the Stump Knockers to make up.

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Montgomery

Arr. 9:30 a.m. - 7:30 p.m.
Dep. 7:00 a.m. - 5:00 p.m.

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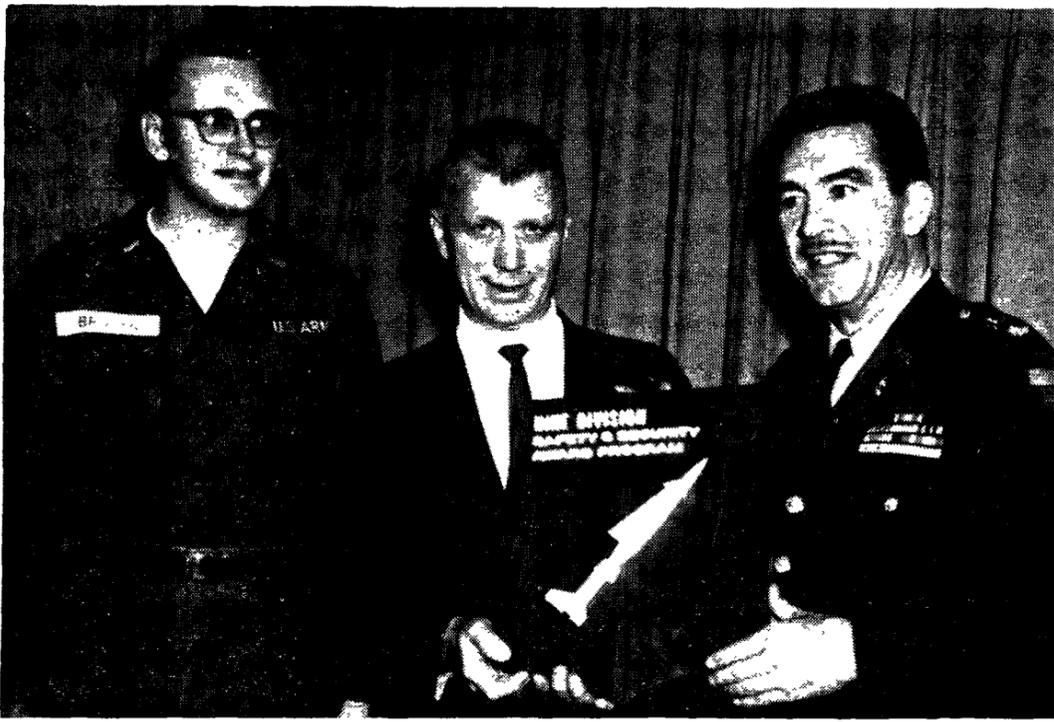
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SAFEST OF THE SAFE—A Nike studded safety and security award is presented to the safest training Branch in Nike Division of the U. S. Army Missile & Munitions Center & School. The plaque is given by Lt. Col. Gordon T. Fearson, Air Defense Department chief, to James Fox, Chief of the Acquisition and Computer Branch as Lt. Arthur Brauer, Deputy Branch Chief watches. Nike Division has pioneered the Safety and Security Program at MMCS and other divisions plan to initiate similar programs in the near future. Given on a quarterly basis, the Nike award goes to the Branch achieving the best safety and security record during the period. It was reported that inspectors had difficulty finding violations in their scrutiny of the Nike Division area, thus attesting to the program's success.



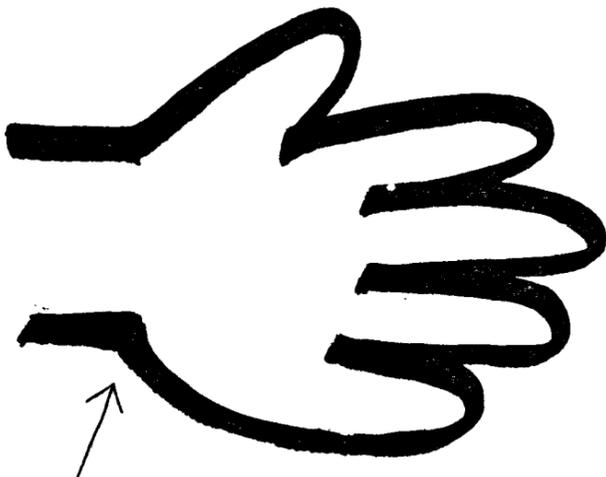
CLASS LEADERS—Instructor Robert Provost (center) is pictured with the two leading students of his recently concluded Work Methods and Standards course during graduation ceremonies for the class. Sam Powe (left) was the leading graduate in the class of 20 with Bobbye Farris next in line. Each of the Department of Army agencies at the Arsenal were represented in the class that was conducted here to satisfy an urgent need for qualified work measurement personnel. The course is normally conducted by the Army Management Engineering Training Agency at Rock Island, Ill. The Arsenal class was developed by the Management Science and Data Systems Office and the Civilian Personnel Office.

Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 and Sunday matinee at 2:00 p.m.

February 8, 1881 — Major George N. Sternberg, Army Surgeon, discovered pneumococcus germ as result of long research.

Movie Schedule

WEDNESDAY, Feb. 23
 "Jesse James Meets Frankenstein's Daughter" (F)
 THURSDAY-FRIDAY, Feb. 24-25
 "The Rare Breed" (F)
 SATURDAY, Feb. 26
 "Wild, Wild, Winter" (F)
 SUNDAY-MONDAY, Feb. 27-28
 Walt Disney's "Old Yeller" (F)
 TUESDAY, March 1
 "To the Shores of Hell" (M)



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SOCIAL and CLUB EVENTS

Bridge Draws Seven Tables Of Players

The Bridge Group sponsored by the Redstone Arsenal Officers Wives Club had seven tables in play at the Redstone Officers Open Mess Thursday.

Winners were Mrs. E. L. Foote, first; Mrs. William Mattis, second; and Mrs. Leonard Flank, third.

Mrs. A. V. Garrabrant handles reservations to play with the group. Members and associate members of the Wives Club are eligible to play.

TOASTMISTRESS CONTEST GOES ON

Mrs. R. P. Hearn won the second round of the Huntsville Toastmistress Club speech contest Wednesday evening at the Russel Erskine Hotel.

Mrs. Hearn selected Power as her topic, her speech was entitled *Eve Had Only an Apple*. Others competing were Mrs. John Ford, Mrs. Wayne Gough, and Mrs. Eileen Hennessee.

Judges were Miles R. Hardenburgh and Mrs. Hardenburgh, Mrs. Douglas Pamplin and Eugene Walters.

Miss Nell Curtis served as toastmistress of the evening. Topics were led by Miss Dollie Wiginton who used the theme of necessary untruths to set the speaking situations. Six members participated with a spontaneous response limited to two minutes.

Preliminary competition will continue until all eligible members have had the opportunity to compete. The winner of the club's final speech contest will compete in the International Toastmistress Council Eight contest scheduled in Huntsville, April 16. The local clubs are hosting the spring coun-

Waterways Employees Get Together At Open Mess

Seventeen former employees of the U. S. Waterways Experiment Station who are now working at Redstone Arsenal got together Friday for a luncheon at the Redstone Officers Open Mess.

The meeting was arranged by Col. George E. Meaders, Assistant for Logistics at the Army Missile Support Command.

The Waterways Experiment Station is operated by the Army's Corps of Engineers at Vicksburg, Miss. The 17 men have a total of more than 400 man years of federal employment.

In addition to Col. Meaders, the group included James F. Nixon, Jr., of the Hawk Project Office, and John F. Hand, of the Sergeant Project Office.

From the Army Missile Command were John W. Bolin, Jr., John B. Clark, Lloyd H. Daniels, Charles V. Davidson, John Mills, Willard R. Sheppard, and Walter B. Slay.

From the Marshall Space Flight Center were Ben Guyton, James B. Leslie, William E. Marsalis, John E. Owens, Everett D. Price, Owen R. Rice, and George B. Smith.

SAVE Meets Tonight

The Redstone Chapter of the Society of American Value Engineers (SAVE) will meet tonight at 6:30 p.m. at the Goldenrod Restaurant, Memorial & Governor's, SW.

The program will be a film covering Sec. McNamara's "Cost Reduction Program". The film will be followed by a round table discussion led by Steve Zelobowski, Nike-X Value Engineering Manager.

Guests are welcome. For reservations or information call Marvin Wasserman, Brown Engineering Co., 532-1632.

oil meeting which will include representatives from clubs in Georgia, Tennessee and northern Alabama.



KATHLEEN JONES—NDTA REPRESENTATIVE

KATHLEEN JONES ATTENDS MEETING

Kathleen Jones, a member of the Outbound Freight staff in the Transportation Division of the U. S. Army Missile Support Command, represented the local chapter of the National Defense Transportation Association at the territorial meeting in Macon, Ga. last week.

Mrs. Jones will report to the Huntsville Chapter at the meeting Feb. 24 at Gulas Rib Room. Starting time is 7 p.m.

Mrs. Jones is a charter member of the NDTA Huntsville Chapter and is a candidate for executive vice-president of the chapter for the coming year. At present, she is membership chairman.

Nominations for new officers will also be on the program at the Feb. 24 meeting.

The National Defense Transportation Association is a professional military/civilian organization of over 13,500 members located in chapters situated in major transportation hubs throughout the world. The 21-year-old organization

is dedicated to promoting strength and vitality of all segments of transportation to meet any emergency.

Symphony To Give Student Concerts

The Huntsville Civic Symphony, under the direction of Russell Gerhart, conductor, will present four free concerts on Saturday, February 26 for the school children of Huntsville and Madison County.

Three concerts will be given at Huntsville High School at 1:00, 2:00 and 3:00 p.m., and one at Calvary Hill Junior High at 10:00 a.m.

Sponsors for the concerts include: The Boeing Co., Brownie-Center Drug Companies, Meadow Gold Dairies, Dunnivant's and the Huntsville Coca-Cola Bottling Co.

Selections to be played by the orchestra are: "Roman Carnival Overture" (Berlioz); "Symphony No. 1, in C Major"—first and 4th movements (Bizet); and the "March Militaire Francaise" from Saint-Saens' "Algerienne Suite." All junior high and senior high

TOOL ENGINEERS TO MEET TUESDAY

The American Society of Tool and Manufacturing Engineers will have William O'Mara of Bell Aero-systems Company as guest speaker on Ladies Night March 1 at the Russell Erskine Hotel Ballroom. The meeting begins at 6 p.m.

O'Mara is assistant manager/ chief engineer of an instrument laboratory. His talk will cover "Project Progress Reporting Techniques."

Reservations are being handled by W. L. Maddy 872-7521, Tim Jose 852-1321 or Ted Fior 536-2829. In Decatur the contact is Lee L. Thompson 353-6307.

WINS MONDAY BRIDGE

Monday night bridge winners at the Redstone Officers Open Mess last week found Mrs. Morton Sherzer at the head of the list followed by O. W. Wilson and Mrs. R. U. Scott.

Six tables were in play. Reservations to play with the group are handled by Mrs. Peter Kostoff and Mrs. Thomas Lynch.

students in Huntsville and Madison County public and private schools have been invited to attend. All fifth and sixth grade students are studying the music to be presented and becoming familiar with the instruments of the orchestra to prepare them to become good listeners and members of an audience. Educational materials, including recordings, films, wall charts of instruments and library books are being used for study. Several members of the Civic Symphony are playing selections in various schools.

●Brig. Gen. Robert R. Linvill has been named Deputy Commanding General of the Inter-American Peace Force, Dominican Republic, succeeding Lt. Gen. Bruce Palmer, Jr. General Palmer will return to his previously assigned duty as Commanding General, XVIII Airborne Corps, Fort Bragg, N. C. (ANF)

Births At Post Hospital

Infant Female Overkamp, Feb. 14, daughter of 2/Lt and Mrs. Richard T. Overkamp, Redstone Arsenal.

Andrea Maria Wilkins, Feb. 12, daughter of Sp6 and Mrs. Leon Wilkins, Huntsville Ala.

Arthur Franklin Cornish, Feb. 11, son of SFC and Mrs. John F. Cornish, Redstone Arsenal.

Mark Robert Arrigo, Feb. 9, son of Lt. (US Navy) and Mrs. Anthony D. Arrigo, Huntsville.

Kevin Robert Bales, Feb. 15, son of SSgt. Robert E. and Mrs. Bales Huntsville.

Jimmy Wayne Duke, Feb. 13, son of Sp5 and Mrs. Jimmy J. Duke, Huntsville.

Mary Ann Higdon, Feb. 9, daughter of 2/Lt and Mrs. Richard D. Higdon, Redstone Arsenal Ala.

Deborah Ann Thesz, Feb. 11, daughter of 2/Lt and Mrs. Joseph M. Thesz, Jr. Redstone Arsenal.

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KOREAN ART GIVEN HCIV—Strikingly beautiful Korean art objects are presented to the Huntsville Council for International Visitors by Major Chil Jin Ho, Korean Army Liaison Officer at the U. S. Army Munitions Center & School. The international gift included a black lacquered vase with Mother of Pearl overlay, a Korean doll in national dress, and an example of traditional Korean foot wear. Accepting the decorative art are left: Mrs. W. C. Smith, president of the Grace Club Auxiliary, the sponsoring organization for the Korean students at MMCS, and Mrs. Jean Payne, also a member of the Grace Club Auxiliary and HCIV Board Member.

Chemical Society Will Honor Arizona Professor

The North Alabama Section of the American Chemical Society will give Dr. Carl S. Marvel of the University of Arizona the annual Madison Marshall award in June, according to Charles B. Colburn, chairman of the awards committee.

Dr. Marvel is a native of Illinois who taught at the University of Illinois. During World War II, he was among the pioneers in synthetic rubber research and directed production of the first sodium-catalyzed polymerization of styrene-butadiene rubber in the United States.

At present he is working with a number of post doctoral research associates on polymers for high temperature service and other government-sponsored projects.

Dr. Marvel has received a number of awards and honors in the past including having Marvel Hall in the American Chemical Society headquarters building named for him. He is a former president, director and councilor-at-large of the Society. The Madison Marshall award was established in 1963 to honor Dr. Madison Marshall, head of the Athens College Chemistry Department.

'Can Do' Attitude Asset Graduating Class Told

"A 'can do' attitude is the best aid to advancement a soldier can possess," according to Col. Raymond H. Bates, commandant of the Southeastern Signal School at Fort Gordon, Ga.

"Having a reputation as a 'can doer' will place you in much demand when promotions come around," he told 142 graduates of the Army Missile & Munitions Center & School Friday. "Your presence here today indicates that you have that attitude," he added.

Col. Bates told the missile and munition specialists that many of them would be placed in supervisory positions upon their arrival in the field and advised them not to stop their supervision after giving an order. He emphasized that making sure the order was carried out was 90 percent of the job of supervision while giving the order was a mere 10 percent of the task.

"Don't be a 10 percenter," urged Col. Bates. "They get into trouble, and they don't get a 'can doer' reputation."

Commandant of the Missile & Munitions Center & School, Col. Erwin M. Graham, Jr., introduced the Signal School chief to a packed auditorium.

William T. Weissinger III, First Vice President, Tennessee Valley Chapter of the Association of the United States Army, presented the highest academic award given at MMCS to two students. They were Capt. John F. Geiger, in the Ammunition Officers course and S/Sgt. Tae Joo Song of Korea in the Hawk Internal Guidance and Launcher Electronics Repair

five courses represented were: SFC Roy E. Fosnight, Hawk Pulse Acquisition Radar and Battery Control Repair; Pvt. Jack T. G. Meyer, in Ballistic Missile Rocket Motor and Structures Repair (Sergeant); Pvt. David R. Mabry, Ammunition Storage; Pvt. Lamoine A. Olson, in a second Ammunition Storage class; and Pvt. Steven L. Wingad, in the Ammunition Record course.

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Westinghouse Research Develops Laser Pump

The Westinghouse Research Laboratories, working partially under a contract with the U.S. Army Missile Command, has announced the development of a new high-energy laser "pump" for energizing these revolutionary amplifiers of light.

Dr. W. E. Shoupp, vice president-research, described the new pump as "an efficient, shock-resistant, high-energy light source that

will simplify the design and construction of high-power laser systems."

A laser pump furnishes the short, brilliant bursts of light which stimulate a laser to produce narrow, coherent light beams millions of times brighter than the pumping light itself. A typical pump consists of one or more electrically fired flash lamps placed alongside (linear pump) or spirally around (helical pump) the ruby or glass laser rod in which the beam originates.

One limit to the strength of a laser beam is the safe amount of electric power that can be dumped into the pump. The electrical pulses—typically a few thousandths of a second or less in length—create shock waves that tend to shatter the flash tube.

Therefore, to withstand this shock, the flash tube must be mechanically strong; and it should be efficient, to reduce the required power and shock in the first place.

"A typical Westinghouse pump 36 inches long repeatedly handles 150,000 joules of electrical energy," Dr. Shoupp reported. "In more familiar terms, during the time the pump is 'on,' the peak power input to it is about 100,000,000 watts. This is roughly equal, for that brief instant, to all the electrical power needs of a city of some 100,000 people. "In addition to this high power capability, the pump does away with the bulky and expensive reflecting cavities needed by conventional flash tubes to focus light onto the laser rod. The new coaxial tube acts as its own reflector."

Essentially, in one form, the Westinghouse coaxial pump consists of two tubes of different diameters, one inside the other. The outer tube is ceramic; the inner tube is quartz. A metal electrode holds the two tubes together at each end. The laser rod fits inside the transparent inner quartz tube.

At The Service Club

By Betty Hayes

Mark your calendar for travel adventures tonight at 7:30 p.m. See you then.

Attention bridge players! The little lounge will be reserved for you on Thursday at 7 p.m. Refreshments will be served, and a prize will be given for the highest score.

The monthly pool contest will be held Friday night at 8. The more who enter; the bigger the prize.

Relax Saturday afternoon at the Service Club with a cup of coffee and light refreshments at 3:30 p.m. Pleasant aromas will come from the kitchen on Saturday evening when tasty snacks will be served. The time for the snacks will be 6 p.m. Don't be late.

Dance to the Go-Go Beats of the Novelles Sunday night at 8. The group promises to play the music which you enjoy.

The big event of the week will be Monday at 8 p.m. The 55th Army Band will present an hour's program called Parade of American Music. This will be delightful

ferent diameters, one inside the other. The outer tube is ceramic; the inner tube is quartz. A metal electrode holds the two tubes together at each end. The laser rod fits inside the transparent inner quartz tube.

The electrical discharge takes place between the two tubes, forming a hollow cylinder of light that completely surrounds the laser rod. The outer ceramic tube, chosen for its strength and reflectivity, acts as a reflector behind the cylinder of light.

During the shock of firing, the inner quartz tube undergoes only forces of compression, which tend to push it together rather than tear it apart. These forces of compression the quartz material can more readily withstand.

The result is an exceptionally strong and rigid structure that wraps the laser rod in a solid blanket of light. In effect, the rod is surrounded by many linear flash tubes, all close together and having a diffusely reflecting surface behind them.

Coaxial flash tubes up to three feet in length and of different design have been constructed and tested during the laser pump development. Neodymium-glass laser rods were used in these experiments because ruby rods of such size cannot be fabricated.

"The basic design of these new pumps is now established," the Westinghouse research executive said. "A laser pumped with a new coaxial tube shows a slope efficiency in converting electrical input to coherent light output of 4.7 per cent. Typical operation is with an input of 22,000 joules of electrical energy and an output of 800 joules of coherent radiation. Roughly 5,000 joules of the input is used in reaching the threshold level of the laser rod. This efficiency is higher than that attained with other laser pump geometries."

Nursing Program Open to Students

Young men and women wishing to enroll in the Walter Reed Institute of Nursing Program for 1966 have until March 31st to submit their applications, according to an announcement received from the Army's Surgeon General at the Missile & Munitions Center & School here.

The 135 applicants considered best qualified will receive the pay and allowances of a private first class during two years of general education at the college or university of their choice and also dur-

ing two years of study and clinical work at the University of Maryland School of Nursing and the Walter Reed Army Medical Center. For a student with one dependent, this can amount to as much as \$268.00 per month.

The program leads to a Bachelor's degree in nursing and officer's commission in the Army Nurse Corps Reserve. Participants then serve a minimum of three years of active duty.

The Army Recruiting Office in Huntsville at 101 Holmes Ave., phone 534-1722, has full information on details of the program and will assist in preparing and mailing applications.

entertainment which you won't want to miss.

Let's hope that you have signed up for the tour to Holiday on Ice Tuesday night, March 1. The bus will leave the Service Club at 4 p.m. for Birmingham. For additional information contact the Service Club 876-4531.

Robert Foster, 4th ETC, was the chess champion for February. See you at the Service Club.

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Children: 2 O'Clock Show Mon. thru Fri. \$0.50
Children—All Other Times \$1.00
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LOCAL RESERVES TO TRAIN UNITS IN LOGISTICS

The Huntsville Army Reserve School will conduct all Quartermaster training for a number of other units who will assemble at Fort Lee, Va., during the annual two-week active duty period of the reserves this summer, according to Col. Angelo L. Ferranti, commandant.

Assisted by the Orlando, Fla. Reserve School, the local 3392nd Reserve School will conduct the specialized Quartermaster training from Aug. 14-28 for students from some 65 other schools from the Third, Fourth, Fifth and Sixth Army areas, he said.

The instruction will center upon a recently developed common block of training developed to give all reserves a broader knowledge of the Army-wide supply requirements.

With more than 300 Reserve officers involved, the session will be the largest single USAR session ever held at Fort Lee, he said.

The Orlando School is commanded by Col. Richard H. Cooper, a judge in private life. Lt. Col. Stanley E. Kreger, Comptroller of the Army Missile & Munitions Center & School at Redstone Arsenal here is assistant commandant.

PERSONNEL ADMINISTRATORS HEAR TWO GUEST SPEAKERS

Mrs. Donna Seay, of the Rehabilitation Research Foundation of Alabama and Walter Bamberg, of the Draper Correctional Center, Elmore, Alabama, were speakers last night for the meeting of the Huntsville Chapter, Society for Personnel Administration.

They spoke to about 65 members and guests of the organization, describing the state's experimental project in education and human relations conducted at the Draper center.

Graham Shovelton introduced the speakers.

Three society members were appointed by President John Hinkle to serve on the planning committee for the University of Alabama's Twelfth Annual Personnel and Industrial Relations Conference to be held in December, 1966. Named to the committee were Howell R. Riggs, Deputy Chief, Personnel Office, Marshall Space Flight Center; James E. Self, Personnel Branch Supervisor, SPACO, Inc., and William W. Clark, Chief, Employee Development Branch, Training and Development Division, U. S. Army Missile Support Command. The Society for Personnel Administration is one of the sponsoring organizations for this annual conference held on the Tuscaloosa campus of the University.

Thomas T. Lindley, society membership chairman, announced the following new members in the Huntsville Chapter: L. C. McMillan, Executive Director, Association of Huntsville Area Contractors; Mrs. Delia Black, Miss Barbara Combs, Mrs. Lucy Grace, and Mr. Jesse Stutts, all of the Civilian Personnel Office, Missile Support Command.

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LEARN ABOUT REDSTONE—Two Washington, D.C., visitors at the U. S. Army Missile Command are shown films and given a tour of Redstone Arsenal during an orientation of activities and personnel programs. Left to right are: Martin Davis, Personnel Management Assistant, and Jack McConaha, Chief of Civilian Personnel, hosts from the Missile Command; Jack Olmsted, Director

of Labor Relations for the Deputy Chief of Staff for Personnel and William Vassil, Army Materiel Command Personnel Office—Labor Relations. Olmsted was a speaker at the Civil Service Anniversary banquet sponsored by the local chapter of the American Federation of Government Employees recently.

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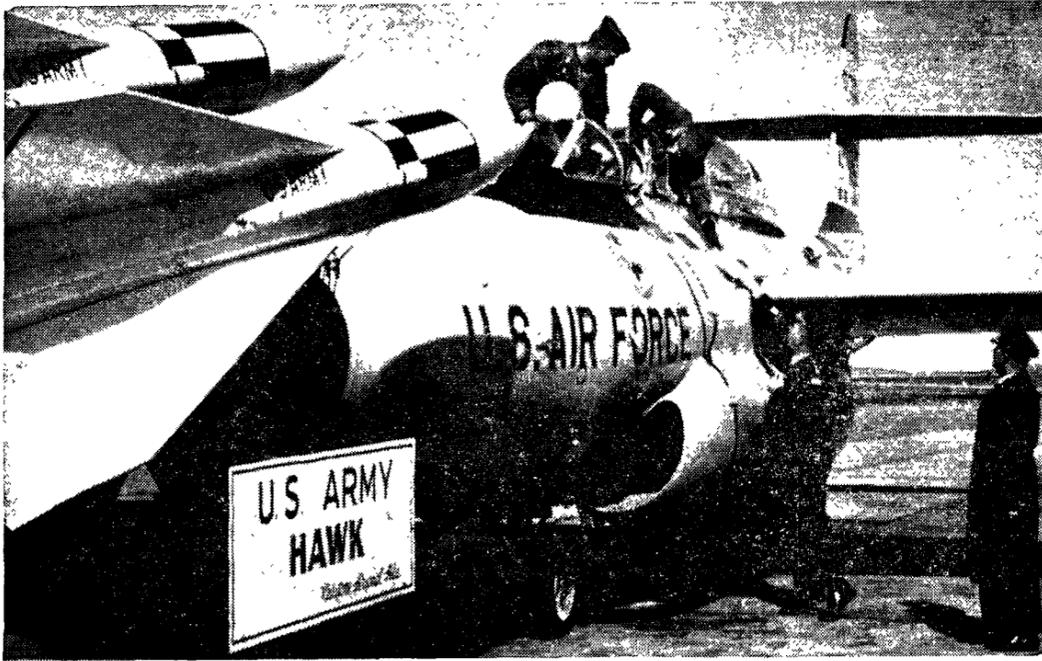
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TRAINER ARRIVES—Pilots of a F-89 "Scorpion" jet fighter hand over their aircraft's papers to officials of the Army Missile & Munitions Center & School. Lt. Col. Richard Barb, Chief of the Explosive Disposal Arsenal Division of MMCS accepts the paperwork as Col. Ralph Newman, Redstone Arsenal Air Force liaison officer, watches. The pilot of the Air National Guard all-weather interceptor is Maj. Junior Lane, and his co-pilot, stretching from the rear cockpit, is Lt. Dennis Wood, both of the Iowa Air National Guard based at Des Moines. (Huntsville Times Photo by Dudley Campbell)

DIANA Was First Communications Satellite Experiment

January 10, 1964 — Project DIANA, conducted by the U.S. Army Signal Corps (one of the technical services which is a forerunner of Army Materiel Command) at Fort Monmouth, New Jersey, began the era of space communications by sending and receiving radar signals via the moon. It took approximately 2½ seconds for the signals to travel the 477,000 mile round trip distance from the Signal Corps radar antenna named DIANA after the mythological moon goddess. By employing the earth's natural satellite, the moon, as a signal reflector or passive satellite, Project DIANA was the first satellite communications experiment. Its impact is reflected in the fact that six communications and weather satellites have been developed within 50 miles of the DIANA antenna site. These include the communications satellites SCORE and COURIER and the weather satellite TIROS I (all developed by the Army Signal Corps Laboratories at Fort Monmouth and respectively launched in 1958, 1959, and 1960); and the ECHO I (1960), TELSTAR I (1962), and RELAY I (1962) communications satellites. In addition, the Army Satellite Communications (SATCOM) Agency, an AMC Project Management activity at Fort Monmouth, developed and procured the land and shipboard stations employed with SYNCOM II and III launched in 1963 and 1964, and conducts the communications tests with these satellites.

•The United States Military Academy was host to more than 200 student delegates from 96 colleges and universities in the U. S. and Canada for the 17th annual Student Conference on U. S. Affairs, a forum for the discussion of national security problems. General Maxwell D. Taylor, special advisor to the President, delivered the principal address.

•An improved battery of tests has been adopted by the Army for evaluating potential aviators. Developed over the past several years, the new battery replaces three previous aptitude tests. Individual personality, leadership potential, receptiveness to flight training and other factors are measured by the test which is a prerequisite to approval for flight training.

Munitions Center Receives Second Air Force Trainer

A brace of the Army's Hawk anti-aircraft missiles met a F-89 "Scorpion" jet fighter last week at the Redstone Arsenal Airfield.

The three missiles of the U. S. Army Missile & Munitions Center & School were bidding the Air National Guard plane welcome, however, a role not familiar to the deadly weapon.

The F-89 is the second of the three aircraft to be acquired by MMCS for use by the Explosive Disposal Division of the Directorate of Unit Training to train and test explosive ordnance disposal units in the safe disarming of bombs, rockets, nuclear weapons and other explosive items encountered in a crashed aircraft. A B-47 jet bomber, obtained recently from Pease Air Force Base in New Hampshire will be employed similarly.

Flown in from the 136th Fighter Group, Iowa Air National Guard based at Des Moines, the Craft

taxied to a halt only feet from three Hawk missiles drawn up to greet the Air Force plane. The meeting symbolized teaming up of the two services for munitions and missile training of U. S. and Allied soldiers.

The pilot of the twin-jet all weather interceptor was Major Junior Lane, Norwalk, Iowa, and the co-pilot Lt. Dennis Wood of Des

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Moines, Iowa. Their aircraft proudly wore an emblem as the best unit in the Iowa Air National Guard. The last of the MMCS "air force" will be a C-119 "Flying Boxcar" scheduled to arrive later this month. The giant transport will be used to train ammunition loading techniques.

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First Sergeant Finishes 30, Re-Ups For No. 3



AIMING AT ZERO DEFECTS—Getting the job done right the first time is an axiom for Mrs. Bobbie Mashburn, Clerk Typist in the Army Missile Command's Hercules Project Office. During a seven month period, she typed approximately 1153 documents averaging 200 words each, for a total of 230,600 words. In addition, she typed three brochures. Remarkable thing about this is that Mrs. Mashburn had an accuracy rating of about 98 per cent on her work. She is employed in the Project's Maintenance Management Section, Logistics Management Branch, System Support Division. Shown with her is her boss, Robert E. Neely.

Usually after 30 years of Army service, or any other kind for that matter, the individual retires.

Not so First Sergeant William C. Merrell of the Headquarters and Headquarters Company, U. S. Army Missile Support Command.

The Sergeant completed his first 30 years of service Wednesday and "re-upped" for three more.

First Sergeant Merrell was in Germany during World War II and again during the Korean war. He has also served in Korea which he remembers with warmth. His family was able to share the tour with him at the Korean Military Army Advisory Group headquarters in Pusan.

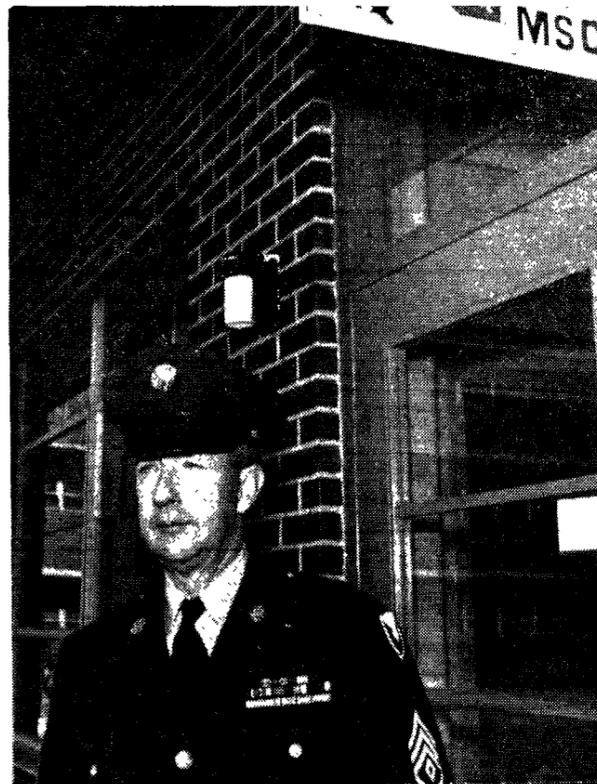
In the span of 30 years, the First Sergeant has served with the Infantry, with the Military Police and in Personnel as well as in company work.

One of his World War II assignments helping shuttle prisoners of war from Europe to the U. S.

First Sergeant is a native of Fairview, N. C., his wife Betty, a native of Sharon, Penn.

When the family returned from KMAAG in June, 1964, they were assigned at the Army Missile Support Command. He likes the Arsenal, but remembers nostalgically the assignment at the Oakland Army Terminal where he didn't experience the extremes of winter and summer that Alabama offers.

He has plans for the time he does retire. He, his wife Betty, and their three children, Patricia, 8; Karen, 6; and William, Jr. 5, will head West. They plan to stop



FIRST SERGEANT WILLIAM C. MERRELL

somewhere in the San Francisco Bay area, where her brother already lives, and begin a less peripatetic life than the Army offers.

The wild hills filled with game, the warm but seldom hot weather, and the friendliness of small western towns were the deciding factors.

Though the First Sergeant likes all sports such as bowling and baseball, he isn't an active participant at present.

The family lives on post at 1322-B, LaCrosse Road.

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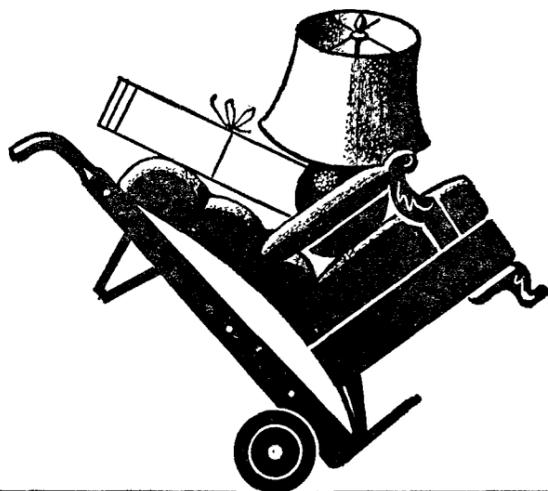
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\$50	\$9.23	\$5.02		
75	13.84	7.53	\$5.45	
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200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Cash You Get	MONTHLY PAYMENT PLANS		
	12 payments	24 payments	30 payments
\$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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Page 14 The Redstone Rocket — February 23, 1966

1. For Rent

FOR RENT—Arab, 304 Cambridge Road. Rent, lease or sale, new 3 bedroom brick, central air and heat. \$135.00 mo. Phone Ty Dorman, Guntersville, 582-3654. 1tc

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FOR RENT—3 bedroom brick home, 2 minutes from Arsenal, 1 1/2 baths, central heat and air condition, attached garage, built-in range and oven 3304 Avery Ave S.W. Phone Shamrock Real Estate Inc. 536-6276 ro 881-5397. 1tc

2. Cars For Sale

FOR SALE—1965 Oldsmobile Luxury Sedan, all extras, 10,000 miles, no down payment to qualified person, assume payments of \$141.00 per month. Call Ty Dorman, Guntersville 582-3654.

3. Miscellaneous

WOODHAVEN CAMP Girls and Boys, 7-16. Horses, swim, canoe, rifle, sports, etc. 10% discount prior May 1st. 764-0210 3-9-p

4. Mobile Homes

OAKWOOD TRAILER PARK, Athens, Ala. Days 232-1394 Nights 232-4698 or 232-4818 —spaces for rent \$25.00 per month, first month free, large play area for children. ttc

1960 Nashau 2 bedroom, middle kitchen, auto washer, air conditioned, priced to sell. Phone 539-8762. 1tc

5. Houses, Lots - Sale

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FOR SALE—3 bedroom 1 1/2 bath, central air condition, 5 blocks from Gate 5. Built-in range. Phone 881-5412. 2-16c

SPEED BOAT—Century "Coronado 21" '63 model, 300 H.P. Buick engine, Vinyl Top, list \$10,500. Will sacrifice for \$4,000 or trade for anything of value, terms. Ty Dorman, Guntersville, 582-3654. 1tc

FOR SALE—5 bedroom home, (2) full baths, carpet, built-in stove, 200x180 foot lot. 3% down, or pay equity and assume 4% loan. Call Guntersville, 582-3027 or 582-5313 Cornelius Real Estate Company. 2-23-c

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In addition, you can make money with groceries, sundry items, fishing equipment and gifts of all kinds. It is the kind of business that provides a great way of living. It is a wonderful type of family business. You can acquire it at auction where you set the price; so mark the calendar now.

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SALE ORDER

Personal property will sell February 26, at 10:02 1/2 a.m., the real estate at 1 p.m., the automobile at 11 a.m. All sales on the premises. Possession of real estate with deed; stock and fixtures, cash; all personal property cash; real estate 1/3 down sale day, the balance 1, 2, 3, years. A bankable note of 6% or cash.

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NEAR ACCIDENT WARNING

Near-accidents on the job should serve as a warning. A condition that almost causes an accident can easily cause a real accident the next time when you are not so alert, or when your reflexes aren't working so well.

Remember — near — accidents are signs that something is wrong. For example, your piling may be poor, housekeeping sloppy, tools in poor condition, guards not operating correctly. Near-accidents indicate inefficient or unsafe work habits.

So let's keep our eyes open for the little things that go wrong. Let's not just shrug them off as "close ones". Let's do something about them—correct them or report them. Let's treat near-accidents as if they were serious accidents—root out the cause while we have a chance.

February 24, 1949 — The U.S. Army was the first to penetrate outer space. A composite 2-stage rocket fired February 24, 1949 at White Sands Missile Range, New Mexico, reached an altitude of 259 miles, a record not equalled for eight years.



FIRST SHILLELAGH DELIVERY—Pointing at a Shillelagh missile, the first production-line missile delivered to the Army, are officials who took part in the ceremony recently at the Iowa Army Ammunition Plant. Accepting delivery for the Army was Col. B. A. Saholsky (second from left), Director of the Army Missile Command's Procurement and Production Directorate. Others left to

right are John B. Lawson, vice-president of Philco Corporation and general manager of its Aeronutronic Division, Shillelagh prime contractor; Lt. Col. Spencer R. Baen, Project Manager who directs the Shillelagh program from the Missile Command; Robert B. Katkov, director of tactical weapon systems at Aeronutronic.



Naval Reserve To Observe Fifty-First Anniversary

The United States Naval Reserve has been observing its Fiftieth Anniversary during the past year. The observance terminates with the March 3 observance of the Naval Reserve's Fifty-first Anniversary.

Lieutenant A. D. Arrigo, Commander of the Naval Reserve

Training Center in Huntsville, points out that citizen sailors have played a large part in every military action in which our country has been involved since its birth. The 1915 law establishing a federal United States Naval Reserve provided a force of officers and enlisted personnel which have made mighty contributions to our Navy's ability to carry out its mission in World War I, World War II, and the Korean War, the 1961 Berlin crisis, the 1962 Cuban Crisis and the current operations in Viet Nam.

Sixty per cent of World War One Navy personnel were Reservists. Eighty-seven per cent of World War Two Navy personnel were Reservists. Many thousands served in Korea, and during the Berlin and Cuban crisis. The active fleet today includes, on a continuing basis, almost one hundred thousand Naval Reservists on active duty for two year training periods or for longer periods.

Rear Admiral D. C. Lyndon, USN, Commander Naval Reserve Training Command, on the occasion of the end of the Fifty-year Anniversary observance says: "The history of the Naval Reserve is characterized by major contributions and significant achievements. Today in the worldwide operations of the United States Navy, the Reserve is continuing its support by maintaining a trained and ready pool of personnel and by participation of Reservists on active duty in the Viet Nam area. The Naval Reservists here in North Alabama deserve the support and appreciation not only of their friends and relatives but of the community which they serve."

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Current Overseas Vacancies

CIVILIAN PERSONNEL OFFICE
U. S. Army Missile Command
Redstone Arsenal, Ala. 35809

January 1, 1966

CURRENT VACANCIES

JOB TITLES	SERIES & GRADE	Location
Administrative Asst (Mgmt Anal)	NM-341-9	CZ
Administrative Off (Budget & Programs)	G-3341-11	O
Auditor, Supv	GS-510-11	K
Auditor	GS-510-11	K
Auditor	GS-510-9	J
Budget Analyst	GS-560-11	K
*Cartographer	GS-1370-11	Brazil
*Cartographer (Photo)	GS-1370-11	CH
*Cartographer (Photo)	NM-1370-7	CZ
*Cartographic Draftsman	NM-816-5	CZ
Central Office Repairman	M-2502-12	CZ
Chemist (Analytical)	GS-1320-9	A
Civil Engineer, Supv	GS-810-13	K
Civil Engineer, Supv	GS-810-12	G
Civil Engineer	GS-810-12	K, G
Civil Engineer	GS-810-11	K
Classification & Wage Spec, Supv	GS-221-12	K
Classification & Wage Specialist	GS-221-11	Viet Nam
Contract Price Analyst, Supv	GS-1102-11	K
Contract Price Analyst	GS-1102-11	K
Contract Negotiator	GS-1102-9	K
Digital Computer Systems Analyst	GS-334-11	K
Digital Computer Systems Oper, Supv	GS-332-7	J
Education Specialist (Language)	GS-1712-12	K
Electrical Engineer (Gen)	GS-850-12	F
Electronic Engr (Data Processing)	GS-855-13	G
Electronic Engineer (Gen)	GS-855-12	G
Electronic Engineer (Radio)	GS-855-12	O
Electronic Equipment Inspector	W-2615-11	O
Electronic Equipment Insp Ld	Fmn WBS-2615-6	K
Employee Development Officer, Supv	GS-235-12	K
Employee Development Officer, Supv	GS-235-11	K
Employee Development Officer	GS-235-11	K
Engineering Technician	GS-802-9	A
Equipment Spec (Electronic)	GS-1670-12	K
Equipment Spec (Missile)	GS-1670-12	K
Equipment Specialist (Gen)	GS-1670-11	K
Foreign Info Spec (Anthropology)	GS-1085-13	O
Foreign Info Officer (Audio)	GS-1085-11	K
General Commodities Spec, Supv	GS-1901-11	K
General Engineer, Supv	GS-801-12	G, J, F
General Engineer (R&U)	GS-801-12	K
General Engr (Deputy Post Engr)	GS-801-11	G
General Engineer, Supv	GS-801-11	G
General Supply Specialist (Ammo)	GS-2001-12	K
General Supply Specialist, Supv	GS-2001-9	K
General Supply Specialist (R&U)	GS-2001-9	K
Geodesist/Cartographer	NM-1372/1370-5/7	CZ
Geodetic Technician	NM-1374-7	CZ
Geologist (Engineering)	GS-1350-14	A
Geophysicist (Earth Physics)	GS-1313-14	G
Health Physicist	GS-1306-12	A
*Housing Project Manager	GS-1173-9	A
Industrial Engineer	GS-896-12	F
Industrial Property Officer	GS-1103-9	K
Industrial Specialist (Gen)	GS-1150-9	K
Intelligence Research Specialist (Anthropology)	GS-132-11	O
Intelligence Research Specialist (Social Psychology)	GS-132-11	O
Inventory Management Specialist	GS-2010-9	K
Inventory Mgmt Spec (Stock Control Property Act)	GS-2010-9	G
Maintenance Management Specialist	GS-301-12	K
Management Analyst	GS-343-11	K
Management Analyst	GS-343-7	K
Mechanical Engr (Instrumentation & Testing)	GS-830-13	A
Mechanical Engineer, Supv	GS-830-12	G
Mechanical Engineer (Util)	GS-830-12	G
Mechanical Engineer	GS-830-11	O
Mechanical Engineer (Util)	NM-830-11	CZ
Mobile Ind Maint Equip Insp Ld	Fmn WB-5801-6	K
Nuclear Reactor Power Plant Oper	WB-5401-12	A
Personnel Security Specialist	GS-080-9	K
Personnel Management Spec, Supv	GS-201-12	A, Viet Nam
Personnel Officer	GS-201-12	Viet Nam
Personnel Management Specialist	GS-201-11	Viet Nam
Personnel Staffing Specialist	GS-212-9	Viet Nam, K
Personnel Staffing Specialist	GS-212-7	K
Position Classification Spec	GS-221-11	O
Preservation & Packing Spec, Supv	GS-2032-10	K
Procurement Agent (Fresh)	GS-1102-11	Hague
Production Controller, Supv	GS-1152-13	K
Production Controller (Aircraft)	GS-1152-11	F
Production Controller (Eng)	GS-1152-11	G
Production Controller (Gen) Supv	GS-1152-9	K, G
Quality Control Spec, Supv	GS-1901-12	F
Quality Control Specialist	GS-1903-11	K
Recreation Spec (Music), Supv	GS-188-10	K
Recreation Specialist (A&C)	GS-188-7	A
Recreation Specialist (SA)	GS-188-7	A
Recreation Leader (SAS)	GS-188-7	A
Refrigeration & AC Mechanic	WB-5306-10	A
Research Geographer (Phys)	NM-150-14	CZ
Research Meteorologist	NM-1340-13	CZ
Safety Officer	GS-018-12	K
Safety Officer	GS-018-11	K, O, G

Fruits & Vegetables, Supv Netherlands
 Production Controller (Aircraft) GS-1152-12 F
 Safety Officer GS-018-9 O
 Sanitary Engineer GS-819-12 K
 Shift/Hand Reporter GS-312-7 G
 Steamfitter WB-4207-10 A
 Supply Mgmt Systems Analyst GS-2001-12 H
 Supply Mgmt Representative GS-2003-12 H
 Supply Mgmt Representative GS-2003-11 H
 Supply Officer (Stock Act) GS-2040-10 K
 Technologist (Chem, Textiles & Paper) GS-1390-12 J
 Traffic Management Specialist GS-2130-9 K
 Training Spec (Mil Liaison) GS-1712-11 O
 Transportation Specialist GS-2101-11 K
 Teletypist GS-385-4 O
 Electronic Engineer (General) GS-855-13
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 I Italy
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 MN Managua, Nicaragua
 O Okinawa
 T Turkey



GROUP STUDIES SUPPORT PROBLEMS—Brig. Gen. T. T. Paul, Office of the Chief of Staff for Logistics, heads a working group now meeting at the Army Missile Command to study support problems connected with Army missile systems. With the general are Lewis L. Gober (left) and Col. E. J. McGinnis, both from the Missile Command, who are working with the study group. Gen. Paul, then a colonel, was formerly Deputy Commander of the Army Ballistic Missile Agency.

END OF MONTH . . .

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