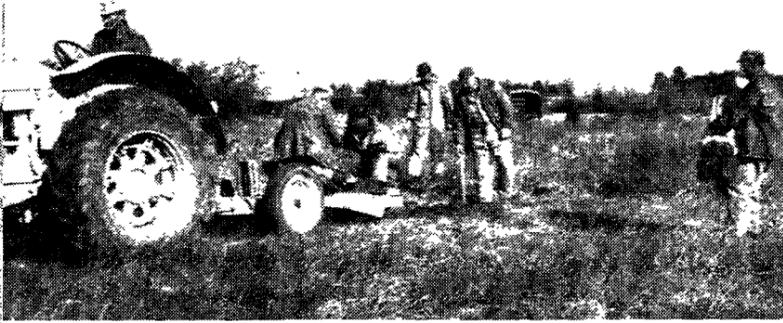


It's Seedling Planting Time



REDSTONE REFORESTATION—More than 400,000 pines, poplars and red cedars will be planted on the Arsenal this year through an extensive reforestation program by the Post Engineer Roads and Grounds Division. Left, Silas Vickers drops seedling pines from a machine that can plant 8,000-10,000 a day. Center, the field east of Bldg. 4505 will be a pine grove in a few years. Right, Milas Buford inspects a two-year-old seedling in the OGMS area. The plantings vary from 2,400 to the acre for pines and cedars to 1,200 to 1,800 for poplars. Not only will the trees beautify the grounds, but they will be valuable for pulpwood and timber. There are 2,000 pines in the bundle shown in the center panel. They came from Auburn University. A total of 365,000 pines and about 35,000 poplars will be planted this year.

The Redstone Rocket

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

VOL. XI; NO. 40

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 20, 1963

**FRIDAY
IS A
HOLIDAY**

TRAFFIC PATTERN CHANGES

Redstone Arsenal motorists using the new Martin road extension from Whitesburg Drive are traveling at a faster, smoother clip this week without a bottleneck at the point of merging traffic, according to the Provost Marshal office.

Monday, Martin Road from Whitesburg Drive to the Patton Road overpass was opened to one-way traffic during the one and one-half hours before 8 a.m.

The Arsenal Provost Marshal's office said that drivers from Whitesburg Drive are urged to move into the left lane before reaching the Memorial Parkway overpass to help speed traffic from the Parkway onto the overpass. Both lanes are open to West-bound traffic.

Outbound traffic is not allowed on this stretch of Martin Road from 6:30 a.m. until 8 a.m. during week day mornings.

Army Association Recruits Members

A drive to retain its position as the largest single chapter in the nation is being started this week at Redstone Arsenal by the Tennessee Valley Chapter of the Association of the U. S. Army.

The chapter enrolled some 4,000 members last year and received a special award at the annual convention in Washington last October, Joseph C. Moquin, president, pointed out.

The number of civilians and military directly connected with Army installations at Redstone is sufficiently large to permit the chapter to retain its place as the nation's largest if new memberships and renewals can be obtained in volume, Moquin said.

Application blanks for new memberships and renewals are now being distributed throughout the Army Missile Command, Army Missile Support Agency and Ordnance Guided Missile School, he said.

Annual membership in AUSA costs \$5, which includes 12 copies of the organization's monthly magazine, ARMY, he noted.

Nike Zeus Flies High

The Army conducted another successful development test of its Nike Zeus anti-missile missile Friday night at White Sands Missile Range, N. M.

All three stages of the 48-foot missile were fired during the test. Climbing nearly vertically out of an underground launching cell, the missile was flown to high altitude.

Col. I. O. Drewry, Nike Zeus project manager, said all test objectives were met.

Western Electric Company is the Army's prime contractor for the Nike Zeus system. Bell Telephone Laboratories have the design and development responsibility. The missile is built by Douglas Aircraft Company. Thiokol Chemical Corporation's Alpha Division here makes the missile's solid fuel rocket motors.

COMPANY CLERKS STUDY THEIR AR'S

The changing of DA Forms often has far-reaching effects. This is certainly true of DA Form 1, the Morning Report.

Company clerks of the Army Ordnance Guided Missile School have completed a special 24 hour course on the form and the entries, as prescribed in AR 335-60.

The classes were conducted in four-hour blocks on six nights by (See COMPANY CLERKS, Page 3)

Former OGMS Commandant Is Named Commander Of Land Combat Systems



COL. CHARLES W. EIFLER

Col. Charles W. Eifler, former Commandant of the U. S. Army Ordnance Guided Missile School here, will return to take a key post in the U. S. Army Missile Command, Brigadier General H. P. Persons, Jr., Commanding General, said Friday.

Gen. Persons said Col. Eifler, currently Commanding Officer of Frankford Arsenal at Philadelphia, Pa., will assume duties as Deputy Commander, Land Combat Systems, in Missile Command Headquarters sometime in April.

Col. Eifler, a 48-year-old native of Altoona, Pa., was recently nominated for promotion to brigadier general.

Col. Oliver M. Hirsch, who has been acting Commander, Land Combat Systems, since last October will continue as Project Manager for the Pershing Ballistic Missile System and Commodity Manager for the Lacrosse Guided Missile System.

Col. Eifler has a broad background in Army missile and rocket work. In his previous assignment at Redstone, he commanded the nation's only school devoted to training highly skilled military personnel in rocket and missile maintenance from July 1959 through August 1961, during a period in which the school underwent rapid expansion.

As Deputy Commander, Land (See FORMER on Page 3)

Bloodmobile Nets 540 Pints

The Bloodmobile collected 540 pints of blood from Redstone Arsenal donors at last Wednesday's visit.

The travelling plaque for military units went to Headquarters and Headquarters Detachment, Unit Training Center, at the Ordnance Guided Missile School.

Dr. Charles Moss and Miss Gwynn Fisher were in charge of

the Bloodmobile operation; Mrs. I. O. Drewry is Bloodmobile Chairman for Redstone Arsenal; Maj. A. G. Fellers is the Redstone Arsenal coordinator; and Mrs. Clyde Smith heads the Madison County Canteen Unit.

Reportedly the Marshall Space Flight Center civilians contributed the lion's share of blood during the February visit.



JOINT FUND DRIVE—Brig. Gen. H. P. Persons, Commanding General of the Army Missile Command, turns in the first contribution to the 1963 Joint Fund Drive to Mrs. Margaret Thrasher, coordinator for the Air Defense Systems. Col. Thomas W. Cooke (left) and Gus Brown, (right) are witnesses. Col. Cooke's staff is handling the drive. Brown is overall chairman. The drive will end April 1.

Joint Fund Drive Enters Second Week

Additional solicitation materials have been distributed as the 1963 Joint Fund Drive enters its second week at Redstone Arsenal.

Thurman C. Burns, executive secretary of the campaign, noted that the original supply of 16,000 sets of envelopes and pamphlets had to be augmented to achieve full distribution. All military and civilian personnel of the Missile Command, Missile Support Command, Guided Missile School, Thiokol and Rohm & Haas will be reached during the drive.

This year's drive, which ends (See JOINT FUND 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-136, Extension 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication. The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

Rocket Ruminations

You might as well fall flat on your face as lean over too far backward.

—James Thurber

George Washington And A Holiday

Friday will be a holiday for most military and civilian personnel at Redstone Arsenal.

Feb. 22 is one of the eight days during the year which the President and Congress designate for special observation by Federal employees and the District of Columbia.

(There are no national holidays in the United States. Each state has jurisdiction over the holidays it will observe and they are designated either by legislative enactment or executive proclamation.)

But what does Feb. 22, 1963, mean to us except a day for which we will get paid without working and the beginning of a long weekend?

Since a holiday for Federal employees costs the Government a great deal of money, it might be well for us to reflect a bit longer on the occasion which prompted official action to designate it as a holiday.

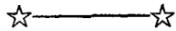
Most everyone knows that Feb. 22 is George Washington's birthday and that he was the first President of the United States. But, how far do we think beyond that?

Do we remember that there might never have been a United States if a George Washington had not come along at the right time to serve as a symbol of unity for a very loosely organized group of people fighting for individual rights.

Victory for the American Revolutionists in a war filled with hardships was largely due to his leadership. He was resourceful, a stern disciplinarian, and the one strong, dependable force for unity.

Following the war he favored a federal government and subsequently became the first president of the United States. It was during his eight years in this office that the Federal Government was firmly established and precedents were set which have had authoritative influence for nearly 175 years.

We would do well to review more often the accomplishments of, and the heritage we have from this man named George Washington.



Brotherhood Week

This week, Feb. 17-24, is being observed as Brotherhood Week throughout America.

It was first observed in 1934. President Kennedy, as Honorary Chairman of Brotherhood Week, has said that "human brotherhood is not just a goal. It is a condition on which our way of life depends." He called on his fellow Americans to "have the strength and the will to make the brotherhood of man the guiding principle of our daily lives."

A long time before our President, Goethe wrote, "A mystic bond of brotherhood makes all men one."

What better place to observe brotherhood week than Redstone Arsenal where the mixture of homogeneous ancestry and creed exemplifies the beginnings of America and the men who sought freedom from bigotry and tyranny.

Safety Office Tells How To Drive And Stay Alive

With the approach of George Washington's Birthday and a three-day weekend, a plea for safe driving has been issued to Redstone Arsenal motorists by D. K. Womack, Safety Director, Army Missile Support Command.

Womack emphasizes the need for "defensive driving" on the part of good drivers. It is ironic, he says, that so many responsible, safe drivers are involved in accidents caused by the mistakes or negligence of others.

In order to make this a safe holiday weekend, Womack offers these suggestions to motorists:

1. Avoid the "death hours." If night driving is a necessity, get off the road by midnight. Half of all holiday traffic fatalities occur during the hours between midnight and dawn.

2. When starting on a long trip, add air to rear tires. Extra weight on rear wheels affects steering, and additional air pressure in rear tires will correct this.

3. Be cautious during the first 50 miles or so of driving. An accident can occur close to home just as easily as far away.

4. When driving a heavily-loaded car, keep a 10-car gap at highway speeds. The extra weight makes stopping distances greater, and the old "one car length for each 10 miles of speed" is inadequate.

5. Avoid "death-pocket" passing. The car in front may slow down suddenly, causing you to clip it. Or, a faster car may try to pass you as you are pulling out. Always begin to pass a good distance back, and signal.

6. Keep your speed up where conditions permit. "Slowpokes" are in the greatest danger in thick holiday traffic. Every car that overtakes you is a potential hazard.

7. Never make left turns across heavy traffic.

8. If heading west, be cautious during the last 45 minutes before sunset. Glare from the sun can

blind easily. Similarly, be careful of the first 45 minutes after sunrise when driving east.

9. When driving in cities and urban areas be constantly alert. Be prepared for an emergency stop at all times.

10. Check to be sure that your car is in good mechanical condition, and that all safety equipment, such as brakes, lights, windshield wipers and horn, are in good operating condition. Use seat belts if possible. They won't prevent an accident, but they may save a life if one occurs.

A driver who not only sticks to the rules, but who compensates for the mistakes of others, will be safer, Womack says. And his holiday will be more enjoyable.

Army And Air Force Plan Electrical Missile Tests

The Army and Air Force will conduct a series of research tests at the Ordnance Guided Missile School here in the next few days to determine the effect of sudden electrical power surges on missiles and supporting equipment.

Col. William J. Macpherson, commandant of the Missile School, said the tests will seek to duplicate and study variations in electrical power that might be experienced during severe thunder storms.

The tests will be conducted intermittently through the month in a wooded area in the northeast section of Redstone Arsenal and may produce occasional electrical flashes and accompanying noises "not much louder than ordinary shotguns," Col. Macpherson said. Safety officers of the

AUSA Award Goes To Pvt. Casperson

Pvt. David E. Casperson, of Garner, Iowa, received an outstanding student award from the Tennessee Valley Chapter of the Association of the U. S. Army at the Army Ordnance Guided Missile School Friday.

An average of 97 in the ballistic missile helper course clinched the honor. The award was made by Carl E. Duckett, vice president of the local AUSA chapter.

Casperson and 30 other graduates in courses dealing with Sergeant, Lacrosse and ballistic missile maintenance heard Holm Hinrichs, chief of the Army Missile Command's structures and mechanics laboratory, urge them to continue their technological education, even in off-duty hours.

"Within 20 years, people will be shaking the dust of other planets off their feet as the technological revolution continues," he declared, adding that only those who understand the new advances in science can reap benefits from them.

Capt. Paul M. Fenech of the Officer and Special Training Division of OGMS, presided at the ceremony.

Army Missile Support Command will work with the Air Force and Army researchers throughout the testing period.

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Hughes Has TOW Order

Last week the Army announced that Hughes Aircraft Co., Culver City, Calif., has been awarded \$2,100,000 for continued development of the TOW weapon system.

TOW is a tube-launched, automatically optically tracked, wire command linked heavy assault weapon.

The work will be performed at the Culver City plant of Hughes Aircraft.

Technical supervision of the project is under direction of the Army Missile Command.

The Los Angeles Procurement District will administer the contract.

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JOINT FUND

(Continued From Page 1)

on Apr. 1, seeks funds to support the National Health Agencies and the Federal Service Joint Crusade.

Burns announced the names of the organizational drive chairmen, who work directly under overall Chairman Gus Brown. On the installation-wide level are Brown, Burns, finance and reports chairman Jack Wise and publicity chairman Ralph C. Perrill, Jr.

Chairmen of individual elements are: Mrs. Lucille Price, Missile Command Staff; Sheridan Moyers, Procurement & Production Directorate; C. W. Hussey, Research & Development Directorate; Joe C. Cleere, Supply & Maintenance Directorate; W. R. Henry, Missile Support Command;

Mrs. Margaret Thrasher, Air Defense Systems; Mrs. Jane Mitchell, Hawk Project Office; Lewis R. Dorris, Nike-Hercules Project Office; Ned Bedsole, Nike-Zeus Project Office; Ronald Wicks, Mauler Project Office;

Lt. Col. Robert C. Leech, Guided Missile School; P. T. Campbell, Rohm & Haas; W. D. Fiser, Thiokol; James F. Stewart, Area Engineers; R. A. Malone, Land Combat Systems;

Paul Wisner, Pershing Project Office; A. M. Lederman, Sergeant Project Office; Lt. C. H. Tatham, Lance Project Office, and Joseph G. Muller, Missile Intelligence Directorate.

Organizations supported through the Federal Service Joint Crusade are CARE, Radio Free Europe and the American-Korean Foundation. The National Health Agencies include the Arthritis and Rheumatism Foundation, Muscular Dystrophy Associations of America, National Multiple Sclerosis Society, United Cerebral Palsy Associations, American Cancer Society and American Heart Association.

Contributors will note on envelopes that they may indicate the

FORMER

(Continued From Page 1)

Combat Systems, Col. Eifler will supervise work on many of the Army's major missile programs including the new selective range Pershing, a field Army support weapon now nearing operational status, and the shorter range Sergeant ballistic missile now phasing into the Army's inventory of operational weapons.

Other projects in his charge will include the Lance, Redstone, Corporal and Lacrosse missile systems, the Honest John and Littlejohn rocket systems, anti-tank and aircraft weapons.

A 1936 civil engineering graduate of Pennsylvania State College, Col. Eifler received a Master's Degree from the Massachusetts Institute of Technology in electrical engineering and is also a graduate of the Industrial College of the Armed Forces.

His missile and rocket experience included a three year tour of duty at White Sands Proving Ground, N.M., ending in 1951, then four years in the Office, Chief of Ordnance, first as Chief, Guided Missile Section, Research & Development Division, and later as Chief of the Division's Rocket Branch.

Col. Eifler's wartime service included assignments with various echelons of the Army's ground forces in Europe and successive tours as Ordnance Officer for the XXVIII (Airborne) and VII Corps.

He commanded the 57th Ordnance Group, Seventh Army in Europe from 1956 until he became Commandant of the Missile School in 1959.

His decorations and awards include the Bronze Star and the European-African-Middle East Service Medal with three battle stars.

Col. Eifler is married to the former Julia Knight of Buena Vis-

manner in which they wish their donations to be divided among the supported associations.



WATCH ROCKET TEST—Frank Bunn, Chief of the Test Operations Branch, Test and Evaluation Laboratory, explains the problems of rocket testing to a group of West Point Cadets on a recent visit to the Directorate of Research and Development. Bunn's group is responsible for testing small missiles in actual flight, and captive testing large missile motors on the Army ranges and test stands of Redstone Arsenal.

COMPANY CLERKS

(Continued From Page 1)

the S3 section of School Troop Command.

Fifteen unit clerks completed the course and were awarded certificates by Capt. W. O. Aden, School Troop Commander.

Finishing the course were Sp4 Dennis Pittson, Co. C, PFC Joseph Preiksaitis, Co. C, Billy Caplin, Co. A, and Pvt. Louis Rogers, Co. C.

Also Pvt. Joseph Gioioso, Hq. Co., Sp4 Ronald Smith, 1st ETC, PFC Gary White, 2nd ETC, Sp4 Lawrence Lee, 3rd ETC, Pvt. James Nix, 3rd ETC, Pvt. Alexander Blair, 4th ETC, PFC Samuel Boozer, 2nd ETC, PFC John Swierz, Co. B, and Pvt. David Barnes, Co. C.

ta, Va. The couple has three children, Julia Ann, 18; Mary Elizabeth, 13; and Charles W. Eifler, III, 12.

JANUARY'S LOCAL EXPENDITURES TOTAL \$400,000

More than \$400,000—the equivalent of an average size hospital—was spent with southeast business firms during January by the Army Missile Command.

The money bought the "nuts and bolts" and the "beans" that support the Army's missile and rocket programs.

Bulk of the purchases—approximately \$275,000—was made with firms in the Huntsville area. Birmingham firms received \$48,000, and \$56,000 worth of goods were purchased in Paint Rock, Florence, Decatur, Sheffield, Madison,

Gadsden and Anniston.

Approximately \$20,000 covered orders in Tennessee and another \$25,000 went for local purchases from business concerns scattered elsewhere across the southeast.

Smallest order was \$1.70 for a machine repair part, and the largest was \$14,683 for dairy products.

These orders are in addition to the contracts for a million dollars or more paced with the prime contractors for the Army's missile and rocket systems.

The awards generated by the Army at Redstone are administered by the Purchasing and Contracting Division of the Army Missile Support Command, and Local Purchases and Formal Advertising Offices of the Command's Procurement and Production Directorate.

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1962 CHEVROLET BEL-AIR 4-DR. Radio, heater, white tires, auto. trans., white with blue interior \$2195.00

1959 KARMANN GHIA Bronze Cpe. Extra nice one owner. \$1395.00

1962 VW Sedan Convertible. Black. A nice one. \$1895.00

1959 SIMCA. Blue, 4-dr. Ready to go. 27,000 miles. R&H, very good tires. Looks new. \$695.00

1955 T-BIRD. Red and white, power steering & brakes, 41,000 actual miles \$1995.00

1956 PORSCHE "N Coupe 1600". White with five new tires. Perfect mechanically. Clean inside and out. Red interior. \$1645.00

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People Develop Careers Through Planned Studies

Courses varying in length from one hour to five years are included in the more than 400 training and development courses being taken by civilians working for the U. S. Army Missile Command.

John S. Hinkle, Chief of Training and Development Division, Civilian Personnel Office, said that 3,629 Missile Command employees were enrolled in courses in 72 training agencies during the first half of this fiscal year.

Hinkle said civilian employees take the educational courses to develop skills necessary to the government and to keep better informed in their fields.

The shortest course in extensive program is a one-hour Supervisor Review Position Survey Method course given by the Post Engineer of the Army Missile Support Command. Seventy-two supervisors participated in the lectures designed to give the supervisors guides in determining tasks and understanding their responsibility in personnel management.

Dr. Burton S. Shook of the Army Occupational Health Service did post graduate work in heart diseases. Dr. Shook took a one week course on cardiopulmonary diseases at the American College of Chest Physicians, Chicago, Ill.

Seventy students are taking a continuous alternating work-study program between the Missile Command and seven colleges and universities. The students are alternating in 35 spaces in a five year Cooperative Education Program.

Students in engineering and scientific fields are studying at Alabama, Auburn, Florida, Georgia Tech, Virginia Polytechnic, Mississippi State and Snead Junior College.

A total of 112 employees completed guided missile electronics and orientation courses at the Ordnance Guided Missile School. These courses included training in the Nike, Hawk, Sergeant and Pershing missile systems.

Thirty-two illustrators are taking a three-year correspondence course in commercial arts. The illustrators—15 from Supply and Maintenance Directorate — complete 24 home study lessons in illustration and design offered by the Famous Artists School, Westport, Conn.

Graduate and undergraduate study at the Huntsville Center of the University of Alabama has attracted hundreds of Army ci-

vilian workers. A total of 139 students are taking Army-sponsored courses to further their technical education in mathematics, physics, chemistry and engineering.

The Civilian Personnel Office is conducting training and development courses in many subjects

Pilot Training Offered Warrants

The Army is issuing an urgent call for its warrant officers to volunteer for training as helicopter pilots, Col. William J. Macpherson announced today.

The Commandant of the Ordnance Guided Missile School made the announcement as the local

including oral communications, supervision, management, plain letters, office practices, reading improvement and telephone manners.

representative of the Continental Army and Third Army Commands, of which the school is an element.

He said the Army is asking all local commanders to intensify a recruiting campaign to obtain sufficient volunteers to match an accelerated build-up of Army aviation forces. The 1964 budget calls for 6,500 new aircraft of all types to provide close support and airlift on modern battlefields, he noted.

Changes have been made in several Army regulations to speed up the flow of applications, he said.

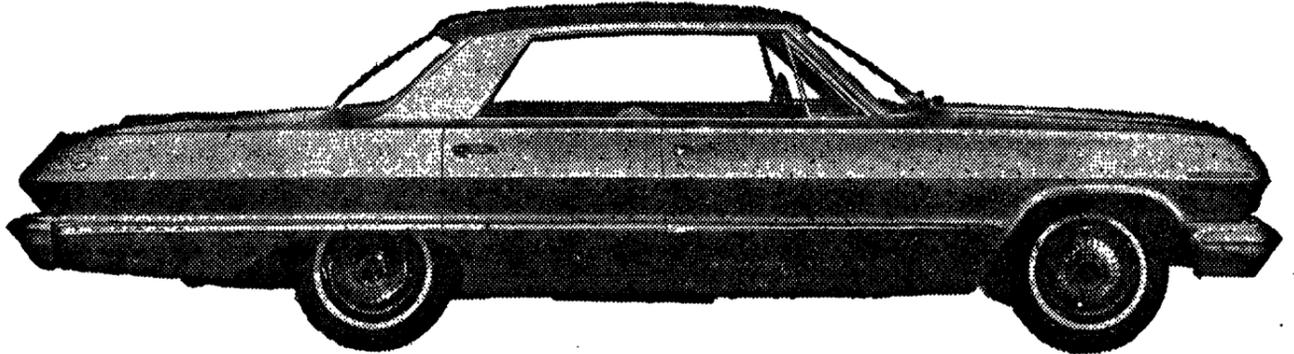
Age limits for warrant officer

pilot volunteers are now from 18 to 30 years. A warrant officer ranks between a second lieutenant and a top sergeant in the Army.

Another change allows warrant officers now serving overseas in so-called "long tour area" (three years) to come home for training upon completing half of their foreign service, Macpherson said.

Local Army commanders are urged, he said, to consider that the loss of helicopter pilot applicants from their units "is a relatively minor consideration compared to the advantages of swiftly building an effective Army aviation program."

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Monday Thru Friday
Phone — — — 876-4879

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Monday Thru Friday
Phone — — — 876-6464

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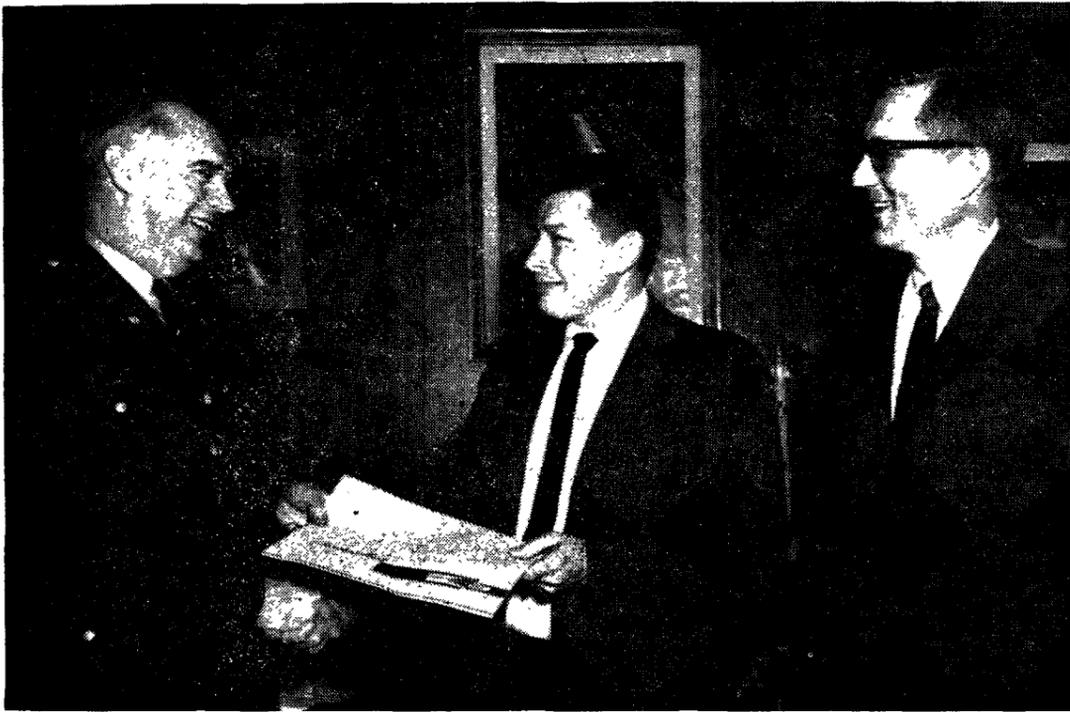
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SUGGESTION AWARD—Col. R. W. Burkett, left, Director of the Army Missile Command's Research and Development Directorate, congratulates Robert A. Jensen, center, after presenting him a \$190 cash award for a suggestion adopted by Marshall Space Flight Center. Looking on is John P. Hallows, Jr., director of the Physical Science Laboratory in R&D. The space agency, which paid the award, had immediate application of the Army electronic technician's suggestion to use high-pressure air jets to cool infrared heat lamps and reflectors during high-temperature tests of materials. Jensen received his award through a cooperative MSFC-Army program. The suggestion is estimated to save \$3,775 during the first year of use.



LT. COL. W. J. NELSON

Nelson Schedules Nashville Speech

The Nike Zeus project controls its vast operations through the use of three missile age management techniques, Lt. Col. William J. Nelson, the Assistant Project Manager will tell a group of en-

gineers in Nashville Saturday. The colonel will talk to the Joint Middle Tennessee Engineers Conference. The title of his speech will be "Management Techniques in Missile Development."

Col. Nelson will describe the PERT (Program Evaluation and Review Technique) System, and Configuration Control, two of the many management techniques used in development of the Zeus system.

PERT is an automated system using a computer and programming charts to manage planning and time. Configuration Control enables the project to keep a tight rein on the continuous changes in a system, such as the Zeus, which is still in the research and development stage.

CARTOON OF THE WEEK



"I DON'T DISPUTE ARTHUR MURRAY'S SYSTEM OF INSTRUCTION, SGT. BUT WHEN IT COMES TO DRILLING WE HAVE OUR OWN METHODS!"

INCENTIVE AWARDS

Awards and Decorations

Recent awards at the Army Missile Command included the following Commendation Medals:

Col. Cecil H. Fuller, Chief of the Installations and Services Office, Army Missile Command received an Oak Leaf Cluster before his transfer to Washington, D. C.;

Lt. Col. James W. Spellman, Chief of Logistics in the Army Missile Support Command, who recently retired.

Maj. F. M. Conway, Provost Marshall now serving in Europe;

Capt. C. Richard Steimle, for-

Suggestions Plaque Goes to P&P Again

The Procurement and Production Directorate of the Army Missile Command has been presented the Command's suggestion award plaque for the seventh time out of eight presentations.

Receiving the award for the directorate was Col. E. V. Lau, Director.

The plaque is presented quarterly to the element of the Army Missile Command which submits the most suggestions.

The suggestion award plaque is presented as a part of the Army's Incentive Awards Program.

vanced Officers Course. M/Sgt. James C. Hendrix, formerly in the Missile Command Military Personnel Office. Sgt./Maj. Henry J. Hingenitz, who retires Feb. 28. He was assigned in the Missile Support Command. Maj. Willis H. Clark, who re-

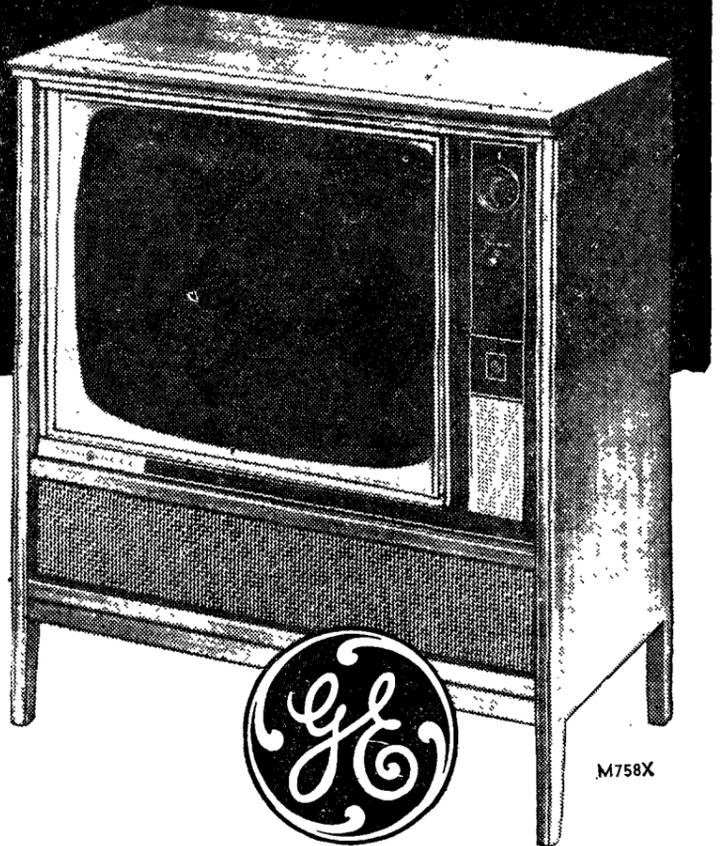
ceived his commendation for work on the ADVENT Management program at Ft. Monmouth, N. J.

Capt. P. J. Gaustad, Missile Intelligence Office, received a Certificate of Achievement.

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Bowling Score Board

Dec. 7, 1962 June Handy became the first lady bowler to bowl a 600 scratch series at the Redstone Arsenal Lanes. Last week — two months later, to prove it was not accidental — she bettered this performance. This time with games of 175-215 and 230 for a 620 total, 692 with handicap.

Another member of the Ladies Thursday Morning League was very much in the limelight. Bernice McClure, came up with an all spare game. She will receive an accomplishment patch.

Redstone Officer's Wives have given notice to the bowling world that in the next City Tournament they will have to be reckoned with. After the smoke and din cleared away from the Playmor Bowling Lanes and the City Tournament, Jan. 26 through Feb. 3, five women from the Officer's Wives League went into the record book.

Betty Lau with a 158 scratch average ended in the money in three events, Fifth in singles with a 560 scratch and 88 handicap for a total of 648. Betty ended in the doubles with a 483 series scratch and 88 handicap totaling 1166 with Ann Means, as a partner.

Means, not to be out done by Lau, took fourth place in the singles with a 449 series scratch and a handicap of 102 making a total of 651 pins. In partners with Lau they rolled twenty-fourth. Means continued to match Lau with finishing tenth in the "all events" with 1808 pins.

In the doubles event,* where it takes team work (plus a "little" handicap), Pat Jackson and Marion Deppensmith took fifth place. Jackson has an average of 134 and Deppensmith has an average of 135. A handicap of 273 made a total of 1213 pins. Ann Holmes bowled her way to twenty-first place in the singles. Carrying a 157 average. With a handicap of 90, she came up with a 612.

In the March of Dimes Tournament held January 2 through 31 the following participants from Redstone Arsenal Lanes won prizes: Sgt. Alwynne L. Maier, 16th place, Mrs. Vern Lauer twenty-first place and Mrs. Lillie Lewis, 22d place. Remember next year's March of Dimes Bowling Tournament. This is a handicap tournament and nobody has to be a "pro" to enter or even win. Win or lose it is for a good cause. We hope to see more entries next year.

RSA Bowling Leagues Standings

OGMS OFFICERS		
Team	Won	Lost
ADM	43	25
Researchers	42	26
Bohunks	35	33
OSTD	32½	35½
UTC Tiplers	27	37
Commoners	20½	43½

THURS. MORN. LADIES		
Team	Won	Lost
Off 'N' On	44	32
Hit 'N' Misses	43	33
Up 'N' Down	36	40
Misfits	29	47

EM MIXED		
Team	Won	Lost
Kirby & McClure	57	27
Bennett & Fisher	48	36
Belt & Ryan	45	39
Hartwell & Welch	43	41
Krieger & Foster	40	44
Cooley & Chervanik	38½	45½
Jones & Maier	33½	50½
Mounce & Louis	32	54

OFFICER'S WIVES LEAGUE		
Team	Won	Lost
Merry Mrs.	47	25
Jumpin Jacks	47	25
Hi Fi's	37	35
Alley Cats	36	36
Gamblers	34½	37½
Team No. 8	32	40
EZ Rollers	29½	42½
Happy Bowlers	25	47

RSA OFFICERS		
Team	Won	Lost
Slowburners	57	29
Robes	48	36
Bandits	47	37
Spoilers	44	40
Alleycats	31	53
Medico No. 5	25	59

OFFICERS MIXED		
Team	Won	Lost
Bowl Weevils	110	70
D-Yanks	105	75
Bombers	100½	79½
Pin Droppers	97	83
D-Doms	91	89
Red Stones	84½	95½
Hi Counts	70	110
Baby Splits	67	113

ARMY AIR FORCE OFFICERS		
Team	Won	Lost
Lucky Strikes	106	54
King Pins	104	56
Black Jacks	100	60
Pin Splitters	99	61
Raiders	91	69
Jupiters	68	92
AF Juplos	38	122
Hopefuls	34	126

TROOP COMMAND		
Team	Won	Lost
Ohms	51½	20½
Raiders	51	21
Rats	43	29
S & E's	42	30
Curvals	40	32
Jockeys	38½	33½

RSA BANTAMS		
Team	Won	Lost
Lucky Strikes	30	12
Wildcats	20	22
Jetsons	19	23
Strikeouts	15	27

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JANET LEIGH · ROSSANO BRAZZI
MARY ASTOR

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SCHOOL TROOP COMMAND

Team	Won	Lost
Deuces	67	21
Electrons	61	27
Aces	59½	28½
Strikes	46	42
Ten Pins	40	48
Spares	33	55

SATURN BOOSTER LEAGUE A-DIVISION

Team	Won	Lost
Brown Engineering	54½	33½
Martin Co.	53	35
Hilding-Holmberg	49	39
Norris Riddle Furn.	46½	41½
Redstone Mach. & Tool	43½	34½
Arrowhead Products	42	46
Tenn. Valley Oxygen	42	46
Republic Aviation	38½	49½
Huntsville Trailer Ct.	36	52
Push-Overs	35	53

200 Games: F. Weckwarth — 257, 202; P. Meadows — 255; A. Leigh — 246; Lewallen — 230; Trombley — 220; King — 219, 202; Hafner — 219; Shahan — 212; Dobbs — 205; Musgrove — 205; E. McKenzie — 202.

B-DIVISION

Team	Won	Lost
Murphree Mort. Co.	54½	33½
Lockheed	53	35
Redstone Fed.	52½	35½
Credit Union	46½	41½
Tri-Lanes	46	42
C. W. Stewart Mach.	46	42
Modern Mach.	46	42
Hayes Top Seven	41½	46½
Progressive Welders	40½	47½
Hayes Designers	39	49
Hayes Ex-Cons	20½	67½

ARMY-AIR FORCE OFFICER'S BOWLING

Team	Won	Lost
Lucky Strikes	112	56
King Pins	110	58
Black Jacks	102	66
Pin Splitters	101	67
Raiders	93	75
Jupiters	74	94
AF Juplos	46	122
Hopefuls	34	134

200 Games: Kelly — 214, 203; Green — 208; Vanderheyden — 204.

The U. S. Marine Band has played at every presidential inauguration since Jefferson's time.

Speaking Of Sports

By SFC AL LAMBERT

Basketball

The Redstone All Stars defeated the Huntsville Swishers last Tuesday night 83 to 77. The game was played in the Redstone Arsenal Gym.

It was a fast moving game victory for the Rockets. They lost a game to the same team recently. It was probably defeat that made our boys realize they would have to hustle to win.

High point men for the All Stars were Jim Baker, 25; Bob Woeltz, 19 and Bill Jordan with 15. Paul Blackburn was high for the Swishers, scoring 34 points. This gives Redstone a 5-3 record. Their next game will be with the Kelly-Summers team.

Post Level Basketball Standings

Team	Won	Lost
Officers	14	3
291st MP Co.	12	5
Co. B OGMS	11	6
Co. A OGMS	10	5
Hq UTC	7	9
Hq AMSC	6	9
Hq AMC	5	14
Hq STC	1	15

Top Ten Scorers

Name	Points
Hudson	244
Jordan	204
Gentry	183
Baker	174
Kilpatrick	169
Gray	137
Thomas	135
Neals	135
Turner	123
Miller	113

Post Level Volleyball Standings

Team	Won	Lost
3d ETC No. 1	8	0
1st ETC	6	2
Hq AMSC	6	2
Co. B OGMS	5	4
3d ETC No. 2	2	7
Co. A OGMS	2	5
Officers	2	7

The Polaris-firing submarine Henry Clay (SSBN-625) was launched recently at the Newport News Shipbuilding and Drydock Company, Newport News, Va. She is 425 feet long and has a 27-foot, 9-inch beam.



1,000TH MEMBER—Raoul Quantz, Jr., 7, son of Maj. Raoul Quantz, Zeus Project Office, practices his curve in preparation to bowling competition at the Redstone Arsenal Bowling Alley. He is the 1,000th member on the books of the American Junior Bowling Congress. The Huntsville chapter is one of three in Alabama. Over 100 sons and daughters of Redstone Arsenal personnel are competing. Raoul is in the second grade at Evangelical Elementary School.

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	\$20.47
Plus Local Sales Tax	1.03
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7.50x14 Nylon Tubeless	\$21.25
Less 10%	2.13
	\$19.12
Plus Local Sales Tax	.96
Total Cost to Customer	\$20.08

5.60x13 Black Tubeless	\$16.10
Less 10%	1.61
	\$14.49
Plus Local Sales Tax	.72
Total Cost to Customer	\$15.21

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SAFE DRIVERS—Twenty-seven members assigned to the 291st MP Co (Svc), were awarded the Department of the Army Safety Award for outstanding safety performance in the operation of motor vehicles for the period, 1st January 1962 through 1st January 1963.

Shown above is Mr. Dillard K. Womack, Post Safety Division, presenting the award to Sgt. Bernice Wilson, with Capt. Farley D. Thompson, CO, observing the presentation.

Others receiving the award, left to right, front row are; S/Sgt. Edward W. Riley, (Wilson), Sgt.

Robert A. Dorton, Sgt. Cecil H. Oliver, Sgt. Emmett J. Ward, Sp4 Howard G. Harp, Sgt. Doyle A. Seagroves, Cpl. Lee A. Rose, Sp4 Willie B. Kenner. Second row; Sgt. James F. Robinson, Sp4 Milton R. Rayburn, Sp4 James B. McKee, Pfc. Leodis Wilkerson, Pfc. Bernard A. Johnson, Sp4 Gilbert B. Jones, Jr., Sgt. Henry T. Asselin, Sp4 Clarence Williams.

Third row; Sp4 Joseph Turner, Jr., Sgt. Clarence K. Aweau, Sp4 Billie H. Campbell, Sgt. James D. Hughes, Pfc. Melvin D. Fletcher, Sp4 Louis W. White, and Sp4 Michael A. Lewis.

Not shown in photo are, Sgt. Parley D. Potter, Pfc. William A. Daniels, and Pfc. Jerry W. Lee.

QUIZ

- Who was the winning pitcher in the seventh and final game of the 1962 World Series?
- Who was the only pitcher to ever hurl two consecutive no-hit games?
- Which four golfing events comprised the "Grand Slam" of golf that Bobby Jones captured in 1930?
- Where were the 1936 summer Olympic Games held?
- With what sport do you associate "stem christie"?
- Who were last year's champions in the National Basketball Association?
- How many points is a touchdown worth in Canadian Football?

(Answers to Quiz)

- Ralph Terry.
- Johnny Vander Meer.
- National Amateur, British Amateur, National Open, British Open.
- Berlin, Germany.
- Skiing.
- Boston Celtics.
- 5.

Religious Services

PROTESTANT

POST CHAPEL — BLDG. 3714
SUNDAY — 1000 and 1115 hours,
 General Protestant Services. (Chapel Nursery open during these services).

Church School — 1000 hours —
 Ages 3 years to adult. Classes for children and young people grades 1 thru 12, meet in Chapel Annex, Bldg. 3151. All military and civilian personnel, and families are welcome.

Youth Fellowship — 1730 hours —
 Junior and Senior High meet in Chapel Annex, Bldg. 3151.

Sunday Evening Worship Service — 1900 hours—Post Chapel.
REDSTONE PARK CHAPEL
 (BLDG. 9600)

SUNDAY — 0945 hours — Sun-
 day School — 1100 hours — Morning Worship Service. 1800 hours — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hours — Evening Worship Service. (Nursery is open for both Worship Services.)

CATHOLIC

Post Chapel — Bldg. 3714
SUNDAY—Masses— 0730, 0845,

1230 and 1700 hours. (Chapel Nursery open during Masses).

Baptisms—1330 hrs., or by ap-
 pointment.

Tuesdays—Perpetual Help No-
 vena—1930 hrs. Choir Practice—
 2000-2100 hrs.

Thursday — Instructions, 1900
 hrs.

Saturday — Catechism—0945-
 1200 hrs. at Chapel Annex. Mass
 —1115 hrs.—Chapel Annex. Con-
 fessions—1800-1930 hrs.

JEWISH

CONSERVATIVE JEWISH SER-
VICE — Friday Evenings — 2000
 hours — Services are held at the
 Huntsville Conservative Syna-
 gogue — Randolph School, Ran-
 dolph St., Huntsville. Servicemen
 cordially invited. For further in-
 formation contact Fred Glusman,
 536-6621.

REFORM JEWISH SERVICES —
 Temple B'nai Shalom, Corner of
 Lincoln and Clinton Streets., S.E.,
 Huntsville. Friday evenings at
 2000 hours; servicemen cordially
 invited. Sunday School at 0930
 hours. For further on services or
 Sunday School, call Ben Keyser-
 ling—536-2381.

CHRISTIAN SCIENCE SERVICE—
 Sunday — Service at 1100 hours.
 Wednesday services are at 2000
 hours at S. White and Wells Ave.,
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 ence Armed Services Minister, col-
 lect 776-2791.



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SOCIAL ^{and} CLUB EVENTS

Concert Presented Wives By 55th U. S. Army Band

Red, white and blue flowers, streamers, American eagles, cut-outs of the profiles of February's two most famous American men and a painting of cupid were some of the items used by the decorators for the Redstone Arsenal Officers Wives Club lunch on Feb. 12.

In addition, scrolls with fragments of the Star Spangled Banner were scattered on tables throughout the Squirrel Hill Officers Club.

Overhead, red paper hearts floated from streamers and a crushed paper mural of an oversized Valentine decorated one wall.

The 55th Army Band presented

a concert which ranged from early trombone arrangements of the Roaring 20's to the sophisticated modern arrangements of composer Morton Gould.

Approximately 85 members of the club and their guests attended the lunch.

Mrs. John A. Barclay, wife of Brig. Gen. Barclay (ret.), was introduced as an honor guest. The General was a Deputy Commanding General of the Army Ordnance Missile Command before his retirement.

A short business meeting followed the lunch and concert. In addition to acquainting the club with board actions, the group was told about the forthcoming bake sale, proceeds from which will go for charitable endeavors sponsored by the Wives Club.

Mrs. Charles Graham, President, introduced the guests and the Band Director, CWO DeWitt Mytinger.

During the course of the program, CWO Mytinger dedicated a selection to his wife on her birthday.

The lunch committee was headed by Mrs. Henry Katz. Committee members included Mrs. Jesse Fishback, Mrs. Ed Wuthrich, Mrs. Robert Pearce, Mrs. Gordon Borin, Mrs. David Marcelle, and Mrs. William Lockwood.

Protestant Group To Hear Chaplain Tibbetts

Chaplain (Capt.) Alan C. Tibbetts, recently assigned Protestant Chaplain from Fort Richardson, Alaska, will address the Protestant Fellowship of the Post Chapel, at the pot-luck supper in the Post Chapel Social Room at 6:30 p.m., Thursday, Feb. 21.

The title of the talk by Chaplain Tibbetts is "The Christian and Military Service." He will seek to share some of his thoughts regarding the age old question of Christian Doctrine versus the duties of the citizen in the military.

Prior to the presentation by Chaplain Tibbetts, the fellowship will share in a pot-luck supper centered around the theme "George Washington — American Patriot." All are invited to attend. The hostess for the evening, who may be contacted at 877-5530 for additional information, is Mrs. Edwin Nichel.

Mrs. Quantz Wins Thursday Bridge

The Bridge Group sponsored by the Redstone Arsenal Officers Wives Club had seven tables at their Valentine meeting at the Squirrel Hill Officers Club Thursday.

Winners were Mrs. Raoul Quantz, first; Mrs. Alfred Holston, second; Mrs. J. B. Mullins and Mrs. Robert Jones tied for third.

Mrs. Quantz, 877-5330, is handling reservations. The Group will not play again until Feb. 28.

CUBSCOUTS HOLD 'BLUE AND GOLD' BANQUET AT UTC

Cubscout Pack 234 held its annual "Blue and Gold Banquet" at the Unit Training Center Mess Hall Friday night.

The Pack celebrated its ninth anniversary. Ceremonies included presentation of the charter and installation of adult leaders.

Guests included Judge E. H. Parsons of Huntsville, the guest speaker; Col. Harry C. McClain, Post Surgeon, Chaplain (Lt. Col.) W. R. Bottoms, and Glen Ragan, Boy Scout Executive from Huntsville.

New members inducted into the Cubscouts were Sal DeAngelo, Ray Caviness, Alan Truit, and Jeffery Scroggins. Twenty-four boys received advancements during the ceremony. Judge Parsons presented the charter to Chairman George Parmalee. Ragan presented registration cards to the leaders. They include Maj. Jack Marsh, Wayne Morgan and Bealem Carden, committeemen; Cub Master A. L. Lacey; Assistant Cubmasters John Hunt and James



READY FOR HAT SALE—(Left to right) Mrs. R. A. Nulk, Mrs. Gerald Demers and Mrs. Carlos Velez admire the poster prepared by the Catholic Women's Sodality to advertise a Spring hat sale scheduled at the Post Chapel Mar. 5. Proceeds will be used for Cuban Relief. Nancy Richards Originals hats and accessories will be on sale from 10 a.m. until 1 p.m. The Sodality held a successful hat sale in the Fall and plans to make this a semi-annual event.

Buyea, who is also Webelos Den Leader.

Den mothers are: Mrs. Dorothy Keeling, Edna Manville, Helen Parmelee, and Karen White.

The Webelos Den conducted the opening and closing ceremonies.

The banquet was served by Sgt. Stanley Wojciechowski, mess steward, and his staff.

METALS MEN TO MEET

The Huntsville Chapter of the American Welding Society will meet tomorrow night at the Kings Inn at 7 p.m.

Two speakers from Titanium Metals Corp., of America will be heard: Roger Broadwell and David Mitchell.

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Gray Ladies Get Diplomas

Twenty-six Gray Ladies who completed a Gray Lady Course, covering blood donor lines during Red Cross Bloodmobile operation, received diplomas from Mrs. Louise Lee of Birmingham Thursday at the Squirrel Hill Officers Club.

The Red Cross Volunteers, headed by Mrs. F. L. Furphy, held a Coffee honoring the graduates from the course and guests, including Col. Harry C. McClain, Post Surgeon; Maj. Theresa LaPlante, Chief Nurse at the Army Hospital; Mrs. Glenn Keith, Madison County Bloodmobile Chairman; Richard Spencer, Clarence Wells, and James Hudgins of the local Red Cross. Hudgins is the Field Director at Redstone.

Approximately 60 guests were served by the hostess committee. Mrs. Frank E. Moore was chairman. Her committee included Mrs. William Nelson, Mrs. I. O. Drewery, Mrs. Lloyd R. Wright, and Mrs. Robert E. Kelly.

A Valentine's Day theme was carried out in the decorations with red carnations and white chrysanthemums centering the serving table.

BAKE SALE

The Redstone Arsenal Officers Wives Club will hold a Bake Sale at the Main Post Exchange Mar. 2 between 9 a.m. and 2 p.m.

Individuals interested in participating, either by baking or working, can contact any of the committee members according to Mrs. M. J. Dooley, chairman. Committee members include Mrs. M. L. Worley, Mrs. W. F. Higgins, Mrs. P. E. Burleson, Mrs. G. B. Helmer, Mrs. R. R. Jackson and Mrs. B. I. Lewis.

McClelland Speaks Tomorrow Night

The Huntsville Chapter of the Federal Government Accountants Association will hold its monthly dinner meeting Thursday night, Feb. 21, at the Huntsville Country Club at 7 p.m. The social hour begins at 6:30.

S. B. McClelland, Long Range Planning Administrator for Thiokol Chemical Corp., will be guest speaker for the meeting. A graduate of Hardwick College, Oneonta, N.Y., McClelland is a Lieutenant Commander in the Naval Reserve, a member of the American Chemical Society and of the Association of the United States Army, and was elected to the Board of Directors of the Kiwanis Club for '63.

He will speak on analysis-value engineering techniques.

LOWERS TO TALK AT LOS ANGELES

Horace Lowers, chief engineer of the Army Missile Command, is one of a slate of leading authorities who will appear before the National Value Engineering Conference in Los Angeles in April.

Lowers will be a member of a panel that will discuss "Value Engineering Requirements" at one of the sessions of the conference.

Joining him on the panel will be representatives of the Air Force and the Navy. The panel moderator will be Robert Bidwell, manager of value analysis administration, Martin-Marietta Co., Orlando, Fla.

The conference will be held on the campus of Los Angeles State College, Apr. 10. It will open with a general session followed by 14 two-hour technical sessions.



MRS. FRANK DAWSON

Bosses May Come And Go, Secretary Stays On Job

Mrs. Frank Dawson (Thelma) Mitchell (ret.) and Sgt. Major Edgar Slayton.

Mrs. Dawson began working at Redstone Arsenal in July, 1955 as a member of the Adjutant Office staff—later transferred to a logistical job and was reassigned in Troop Command.

Six months after she began working here she married. Her

At Redstone Arsenal, the Troop Commander traditionally is the Red Cross Bloodmobile coordinator. The paper work and telephone calls often are handled by his secretary. First in line was Maj. Jesse Garner, now retired and living in Mississippi; next was Maj. George Grace, also retired and living in Ohio.

Mrs. Dawson is now secretary to Maj. Albert G. Fellers who has commanded troops here, and also has served on the Commanders staff. He was recently appointed Bloodmobile coordinator, replacing Lt. Col. Allan Dallas—an interim coordinator.

The Red Cross Field Director staff moves about as much as the Army so Mrs. Dawson's association with them has averaged the same length of time.

The sergeant majors are also in threes by happenstance. The first man is also the fourth man; Sgt. Maj. James Judd was assigned under Maj. Garner and recently was assigned here again. The other two were: Sgt. Maj.

At the Service Club

Tuesday and Wednesday, dance classes directed by David Izen begin at 5 p.m.

Thursday at 7:30 p.m., an Ice Skating Party will leave from the Service Club for the Huntsville Ice Palace. Transportation will be provided those who need it. Seventy-five cents will be charged for the use of skates.

Friday is scheduled for card games beginning at 7:30 p.m. At 8 p.m. a ping pon contest begins.

Saturday will be a night at "Harold's Club" which includes games, floor show and trimmings. The party begins at 7 p.m.

Sunday morning coffee call is at 9 a.m.

Monday, Feb. 25 is game night. The Post-Wide Talent Contest will begin at 8 p.m. Tuesday. Art Kalin will direct the show.

husband, a former Navy man, is office manager for a local construction firm. They have a two-year-old daughter, Rhonda.

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 Red Magic Cooked—8 oz. Tender mouth watering French fries, Slaw or Salad.
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Try Our **PURE MEAT HAMBURGER STEAK**
 With Salad — F. F. Potatoes
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 Will Serve 6 People
 French Fries, lb. 80c
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'Patience' To Be Staged

The Huntsville Community Chorus will present the operetta, "Patience," by Gilbert and Sullivan at the Huntsville High School Auditorium Friday and Saturday, Feb. 22 and 23, at 8:15 p.m.

Jay Fryman is the Stage Director and Kenneth V. Turvey is the Music Director. The cast of forty is headed by Margaret Bacon in the title role; Charles G. Tedford as Bunthorne; Art Kalia as Grosvenor; and Barbara Woosley, the Lady Jane.

"Patience" is a satire on the aesthetic fad which was prevalent in artistic circles in England during the 1880's. The lovesick maidens of the town swoon first over Bunthorne, the sophisticated aesthete, and later Grosvenor, the all perfect, goody-good poet. But these two are rivals for the affections of the milkmaid, Patience. The Lady Jane offers comic contrast to the naive and innocent Patience. Throughout all this there is a Platoon of Dragoon Guards still in love with the lovesick maidens.

Tickets are on sale at Hornbuckle's Record Shop, downtown and Parkway City, and Traylor's Music Co., and by members of the Community Chorus. The price of tickets is \$1.50 for adults and \$1 for students and enlisted personnel.

Data Retrieval Studies Made

Representatives of each of the Department of Defense agencies came to Redstone Arsenal last week to meet with Army Missile Command personnel of the Production and Procurement Directorate in another of a series of studies aimed at development of a system for the rapid and efficient acquisition, storage and retrieval of engineering data.

The visitors represented research and development, design, engineering, procurement, supply and maintenance organizations of the Army, Navy, Air Force and NASA.

The meetings are conducted periodically, both in Washington and at field installations around the country. The Department of Defense and International Standardization Office, of the Missile Command's Production and Procurement Directorate, hosted the meeting last week.

The local organization has the national responsibility for the Engineering Data System study.

Implementation of a uniform system within the Defense Department, will result in the elimination of several outmoded systems now in use.

It will also reduce the duplication in the listing, procurement, storage and issue of items and

provide fast and efficient availability of information to equipment design personnel.

The cost reduction that would be realized from the adoption of such a system is estimated at millions of dollars.

The X-15 research aircraft set a new record for angle of attack reentry with a Dec. 14, 1962, flight. Maj. Robert White brought the craft into the atmosphere at speeds in excess of Mach 5 at an angle of attack of 25 degrees without the lower vertical stabilizer. A conventional aircraft loses control at 15 degrees.



ENGINEERING DATA STUDY—Representatives from Armed services and civilian agencies discussed the rapid and efficient acquisition, storage and retrieval of engineering data last week at Redstone Arsenal. Pictured from the left are F. L. Craven, Chairman, Department of Defense and International Standardization Office, Army Missile Command; H. V. Elkner, Defense Supply Agency; Major J. D. Shoup, Headquarters, U. S. Marine Corps; and O. J. Carey, Bureau of Supplies and Accounts, U. S. Navy.

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FOUR-DOOR sedan with V-8 engine, radio, heater and automatic shift. "Will take less" than \$695

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CLASSIC Four-Door with radio, heater, and standard shift. "Will take less" than \$1395

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BEL AIR 4-door with "6" cylinder motor, standard shift and only 29,000 actual miles. It's nice and clean. "Will take less" than \$1195

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FORDOR with low mileage, radio, heater and standard shift. Unusually good buy at this price. "Will take less" than \$1095

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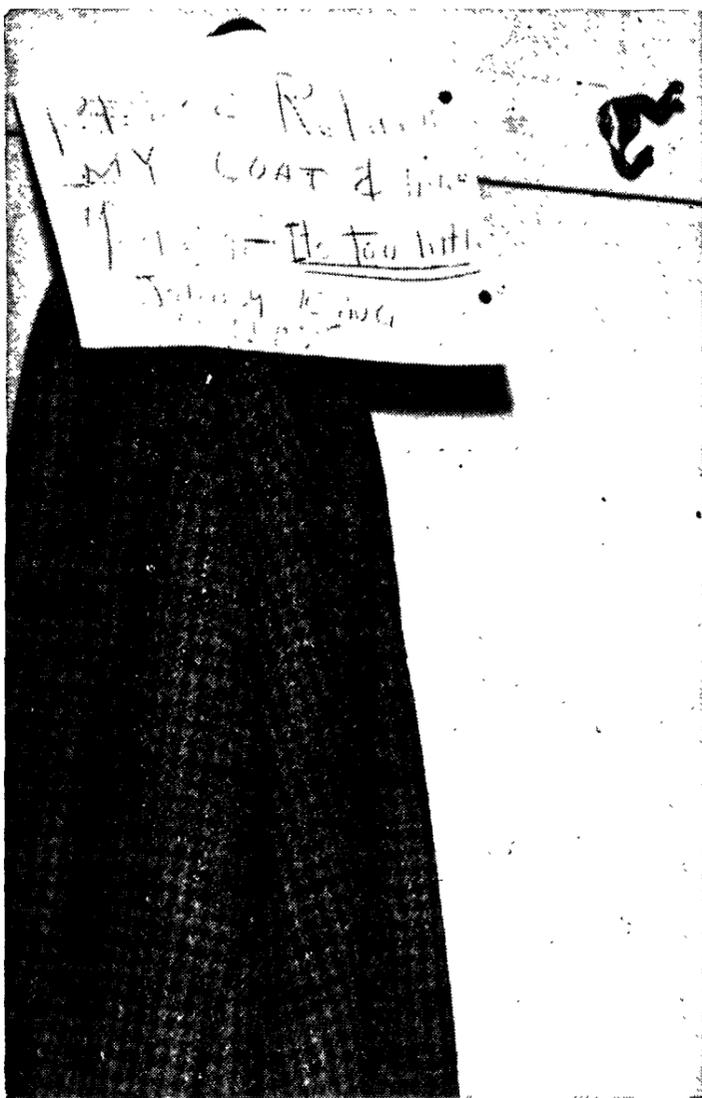
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PLEASE!—Johnny King in Army Missile Command Headquarters hung his coat outside the cafeteria in the building. When he retrieved it, he found the coat isn't his. The legend he put on the switch reads: Please return my coat and take yours. It's too little.

Births at Post Hospital

Ronald Allan Koberle, 7 lbs., 5¼ ozs., Feb. 6, son of PFC. and Mrs. Edwin E. Koberle.
 Karen Sue Lamoree, 5 lbs., 11¼ ozs., Feb. 10, daughter of S-Sgt. and Mrs. Harry A. Lamoree.
 Patti NMN Willits, 2 lbs., 14¼ ozs., Feb. 10, daughter of S-Sgt. and Mrs. John A. Willits.
 Theresa Rose Griffith, 7 lbs., 3 ozs., Feb. 11, daughter of PFC. and Mrs. Francis D. Griffith.
 Bradley Brian Scott, 7 lbs., 3 ozs., Feb. 11, son of SFC. and Mrs. David D. Scott.
 Yvonne Delores Doyle, 5 lbs., 3½ ozs., Feb. 12, daughter of SP5 and Mrs. Garner W. Doyle.
 Karen Denise Green, 7 lbs., 8 ozs., Feb. 12, daughter of 1/Lt. and Mrs. Jimmy W. Green.

Movie Schedule

WEDNESDAY, February 20
 "Babette Goes to War" (M-YP)
 THURSDAY-FRIDAY, February 21-22
 "The Hook" (M-YP)
 SATURDAY, February 23
 "Red Hot Wheels" (F)
 SUNDAY-MONDAY, February 24-25
 "Giant" (M)
 One performance per night at 6:30 p.m.
 TUESDAY, February 26
 "Gay Purr-ee" (F)
 Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

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- EDGE CARDS® end sagging borders; found in \$59.50 mattresses
- HIGH COIL COUNT found in \$59.50 mattresses
- FOAM CUSHIONING

"NIGHT BEAT"

IS BACK!

Each Night at 10 p.m. OVER

WBHP RADIO

WITH

Grady Reeves

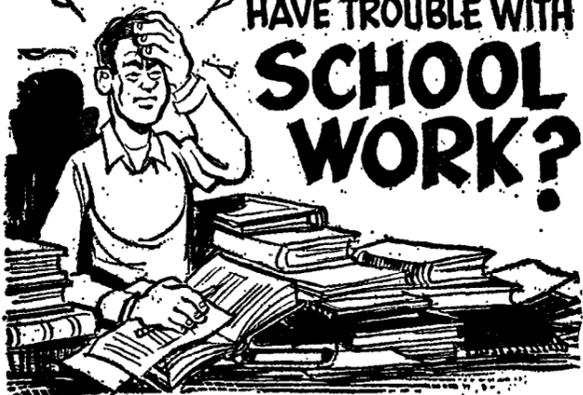
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Men's Spring
SUITS
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Comp. Retail \$25 to 39.98

"Happy medium" weight fabrics so right for the fresh new season! Fashion right 3-button styles with center vent back. Solids, checks, plaids and stripes—some with 2 pairs of pants. Regulars and longs in sizes 36 to 46.



Girls' New Spring
DRESSES
3 to 6x
2.67 - 3.40
3.90
7-14
2.90 - 3.40
4.90

Little ladies are in luck, and so is Mother's budget! We have an outstanding collection of new Spring dresses in 100% easy-care cottons. Bright, gay colors that will dazzle any young Miss!



Boys' Short Sleeve
KNIT SHIRTS
99c

Made by one of the finest boys shirt manufacturers! 100% cotton knit that is shrink resistant—completely washable. Collar model, placket front. Sizes 6 to 18 in white, yellow or green.



Newly Arrived
Double-Knit
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They're of care-free, pre-shrunk double knit cotton that never needs ironing! Lined shorts and capri pants with matching or contrasting tops. Wide assortment of new Spring colors in sizes 10 to 18.



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100% cotton in short sleeve and sleeveless styles. Solid and fancy patterns; v-neck, scoop neck and jewel-neck models. Latest fashion colors in sizes Small, Medium and Large.

BRAND NEW THIS YEAR!
"Go Go" Carry-All
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Now the rage with girls of all ages... use them as a handbag, make up kit, over nighter! 8 and 10 inch sizes. Veneer frames covered with durable washable vinyl; metal corners with molded plastic handles. Assorted colors.

Ladies' New Spring Heels



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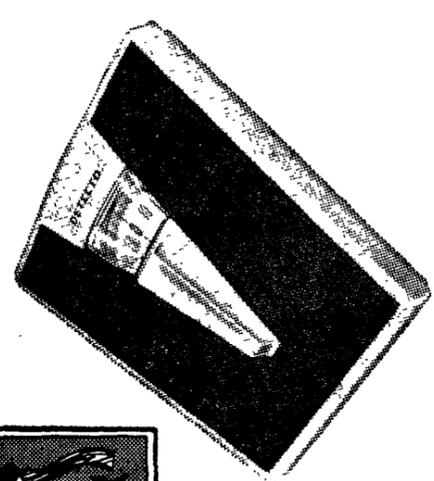
Beautifully styled stacked heel that is strictly for walking comfort. Attractive self bow and cutout decoration. Bone only in sizes AA 6-8 1/2 and B 4 1/2-9.

Medium heel black patent by Intrigue. Fashionable square throat appearance. Sizes AA 6-8 1/2 and B 5-9.

Comfortable soft leather and the most fashionable medium stacked heel. Styled by Cherie. Bone only in sizes AA 6-9 and B 4 1/2-9.

Delicate decorative work on this plain pump makes it a fashion must. Styled by Cherie in medium or hi heels. Black patent in sizes AA 6-9 and B 4 1/2-9.

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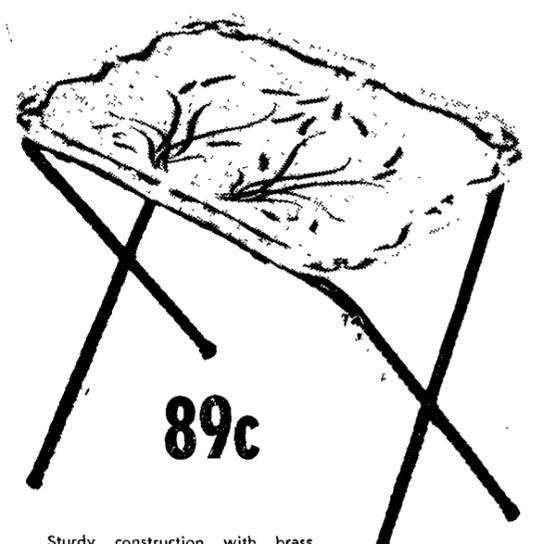


NEW DELUXE \$2 ALUMINUM SALT & PEPPER SHAKERS FREE WITH THE PURCHASE OF EVERY 4-PIECE KANISTER SET.

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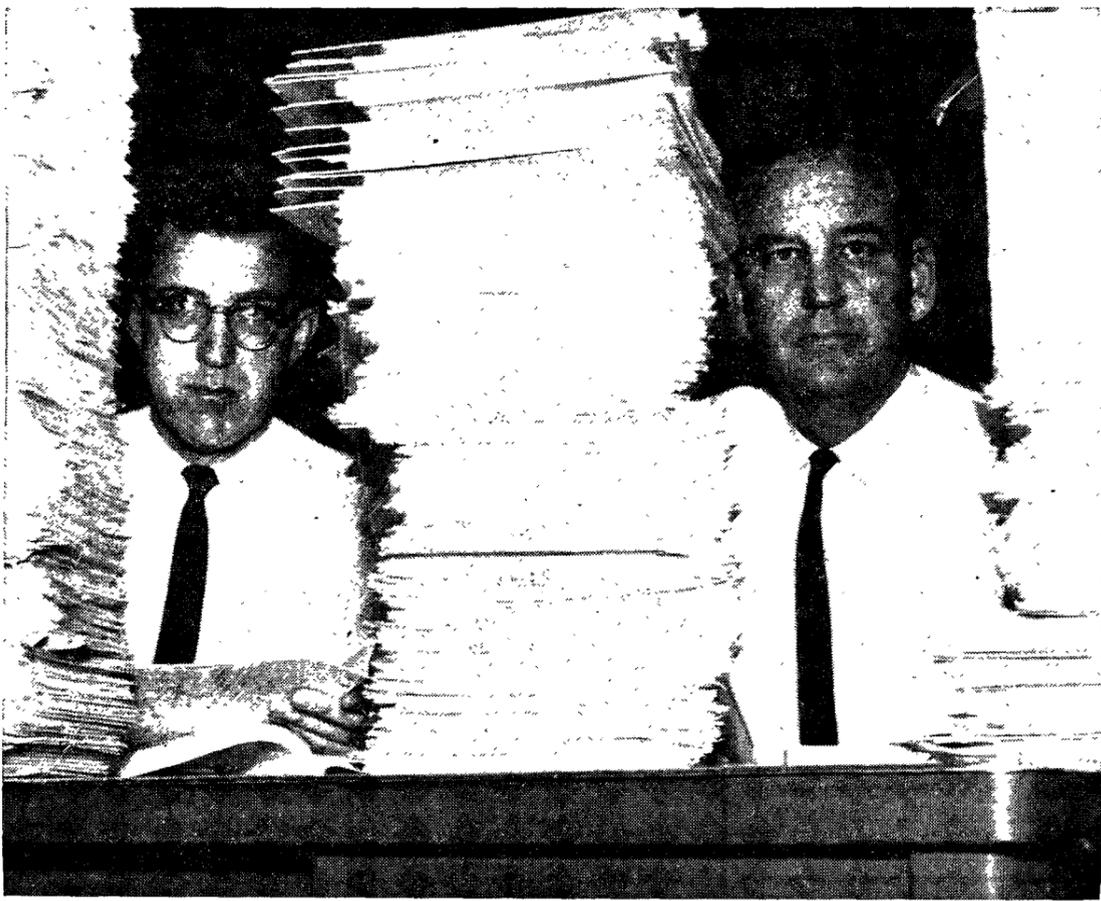
Seamless, easy-to-clean tu-tone aluminum with aluminum and plastic cover. Letter identification for Flour, Sugar, Coffee and Tea. \$2 matching salt & pepper shakers FREE with each kanister set.

Jumbo Size TV Tray Tables



89c

Sturdy construction with brass legs. Folds for easy storage. Handy for many uses.



ALL IN A DAY'S WORK—It would be a light day if this was all the paperwork A. J. Weaver (left) and C. M. Wilson had to do. They've been working away at a stack nearly as high as the Empire State Building since the first of the year. They expect to complete the job in another month. Weaver and Wilson are going through Federal and Military Specifications and Standards on file at the Army Missile Command picking out the ones pertaining to missiles. The documents they sort out will be placed on microfilm.

Paperwork Is Almost High As 'Empire State'

The Empire State Building is higher than the stacks of paper that A. J. Weaver and C. W. Wilson must shuffle through—but only ten feet higher. And, somewhere in this monumental heap of paper there are definitive documents on what government buyers look for in

just about everything from lady's hose to a missile nose. Wilson and Weaver are standards men. They work for the Directorate of Procurement and Production at the Army Missile Command. Right now they are going through Federal and Military Specifications and Standards

files here looking for ones related to missiles. Those will be put on microfilm.

They're leafing through thousands of specifications and standards that prescribe down-to-the-minute detail many things that the government buys.

The documents they pick out would supplement some 10,000 specifications already on film. In addition to these, 65,000 drawings of missile parts have been filmed as part of the Army Data Retrieval Engineering System. This system enables engineers working for the Missile Command and its contractors to find documents they need fast without shuffling through reams of paper.

It is estimated that the system will save the government some \$3½ million primarily in engineering research time.

Weaver and Wilson have been working at the project since the first of the year and expect to be finished in another month. Of course, they'll still have to go back through their choices of specifications and standards to add new ones and reject those that looked good at first but later proved not necessary for making missiles.

Some days they can pick less than a hundred out of all the paper they scan. On other days, when they are in "tall cotton" so to speak, they may pick as many as 300. It has not been determined how many they will eventually come up with.

The specifications are located in 124 five-drawer file cabinets that stand nearly as high as a man. They cover items bought by the Army, Navy and Air Force.

For anyone who thinks the government doesn't have enough specifications and standards to stack up as high as the United Nations Secretariat, much less the Empire State Building, there's a catch. Many of the documents have multiple pages. For example, MIL-E-1, a specification on

Entertainment Section

PFC ART KALIN

Time has just about run out for you to make your last minute entry into the Post-Wide Talent Contest. Yes, all you people who have delayed your entrance to have the most dramatic impact now have until 4:30 Monday afternoon, Feb. 25. No more entries will be accepted after Monday.

The contest will be held at 8 p.m. Tuesday, Feb. 26 at the Service Club.

The talent of the people who are entered is exceptionally high standard. But the number of acts so far is disappointing.

I know there is a lot of talent here that hasn't presented itself. As a matter of fact I know some of you personally. All I can say is, you owe it to yourself to enter.

You may feel or even know you have talent, but nobody else will

if you don't get up gumption and nerve and put your talent on display. It will be a wonderful moment for someone when he comes forward to accept his prize as winner of the Post-Wide Talent Contest.

This section is considering doing an evening of one act plays, in the near future. If anyone is interested in acting in same or working on tech. crews, please contact me at 876-5492. We especially need some female actresses. If you are interested please don't hesitate to contact me.

In addition to this and the Talent Contest, another event to look forward to is the "Variety Show" to be made up of the winners of the Post-Wide Talent Contest and others who prove themselves worthy. But for now the date to remember is Feb. 26, the time 8 p.m., the place, the Service Club, the event, the Post-Wide Talent Contest. See you next week.

electron tubes, piles up to 4,956 pages.

If a stack of specifications and standards this high is still unbelievable, ask Weaver and Wilson—they measured them before they set to work.

When the X-15 — a hybrid of plane and missile—speeds through the air at 3,000 miles an hour, it makes noises like the popping and banging of an old stove. The sounds are caused by expansion and contraction of the planes metal skin.

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1000	\$40.05	48.76	92.30
1500	59.80	72.80	137.80
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Page 14 The Redstone Rocket — February 20, 1963

ALBERTVILLE - RAINESVILLE HIGHWAY—3 mile from town. Beautiful 3 acre Ranchette with abundance of beautiful trees. Including 3 bedroom brick, almost like new, 1½ baths, wall to wall carpets in living room and bedroom, built-in oven and stove. Patio on back, enclosed garage port. If you enjoy country living with city conveniences see this home with a unique setting. Price, \$15,500. Can be financed with small down payment. **FRED TAYLOR REAL ESTATE — PHONE 878-3061 — ALBERTVILLE, ALABAMA. 3-13c**

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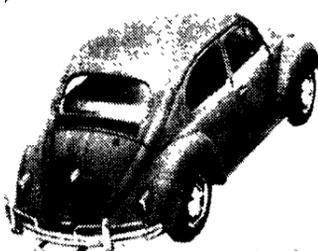
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FOR SALE IN GUNTERSVILLE — Extra large wooded lot—2 blks. off lake. Centrally located between grammar and high schools. Ideal for split level or full basement home. M. R. KIRKLAND, 3301 Roell Circle, Paducah, Ky. 2-20p

WANTED—A couple or small family with trailer to live on Gunterville Lake resort property. No rent charged. For further information write P. O. Box 451, Scottsboro, Ala., giving references. 2-20p

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FOR SALE—ECONOMY STATION WAGONS — 1960 Borgward, low miles, new rubber, \$750.00. 1958 Opel, \$650.00. Call 876-2531 weekdays, 534-7110 evenings and Sundays. tfc

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FOR SALE — New nice 3 bedroom house, 1½ ceramic tile baths completely air conditioned, access lot to lake. Minimum FHA down payments, in one of Gunterville's nicest sections. Price \$16,250.00. Will build homes in Arab and Gunterville and finance up to 97% FHA and 100% G.I. Cornelius Real Estate & Insurance Co. Marshall County's leading mortgage broker. 521 N Broad Street, Gunterville, Ala. Phone JU 2-3027. tfc

HOME LOTS — In Trummel Addition in Hartselle. Spacious lots, some with trees, bargain prices. 773-7463. WM. E. SMITH. tfc

FOR SALE: If you are in the market for a two-bedroom home by all means, see this one. Located: 806 Linwood Drive. Owner will: 1. Sell Equity at bargain. 4% FHA loan. Payments much less than rent. Only \$58.52. Rented for \$85.00; 2. Refinance: a. GI, no down payment, small closing cost. b. FHA, small down payment and closing cost; 3. Give possession in 30 days. See owner, Aaron A. Brackeen or phone Mr. Bayless, 534-6449. 1tp

FOR SALE BY OWNER — Two spacious family homes in Decatur, walk to public and parochial schools. At 651 Sherman St., four bedrooms, three baths, gas furnace, radiator heat, carpeted. At 633 Jackson St., four bedrooms, three baths, central air conditioning, new gas furnace, radiator heat. Phone EL 5-0405, Decatur. tfc

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FOR SALE — Male, AKC registered Pekinese, black, 3 months old, has had permanent shot series, excellent blood line, phone 534-2515. 1tc

REGISTER NOW — For Intermediate, advanced courses in Bridge, starting the week of February 25th. For further information, call Macye B. Ross, phone 881-3615. 1tc

ENJOY THIS SUMMER with a good motor on your boat. Will sell one or both of my 45 H. P. Mercury motors. Call Dan Britton, 876-2692 or after 5 o'clock, call Gunterville 582-5700. 2-27p

GERMAN SHEPHERDS — Males, black and tan, 9 weeks old, AKC registered, shots, \$75. Excellent pedigree. Stud service. Arab, Alabama, phone 586-4519. 1tp

WANTED TO BUY clean used cars "We can use yours." Call us Robinson Auto Sales. 810 Madison St. Phone 539-8551. tfnc

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MITCHELL'S — Select furniture, 202 Holmes Ave., W. We buy—Sell—and rent. Complete house hold furnishings. Phone 539-3527. 1tc

SHOES — First shipment of spring shoes will be on display this weekend at Family Shoe Store, Arab, located upstairs, Main St. over Peoples Drug Store. Also large shipment of mens, boys, little girls patents. 1tc

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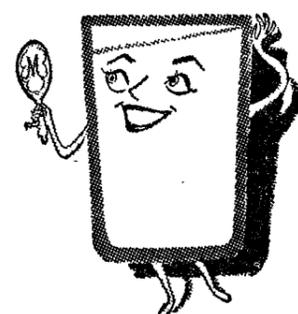
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Plastic Stops Sagging In Solid Propellants

Foam plastic, used to make everything from bathtub swans to huge missile silo covers, is taking the place of metal in a study conducted by propulsion research scientists at the Army Missile Command.

Research engineer John Tate of the Propulsion Laboratory said polystyrene, which is about "90 per cent air," is being molded in the laboratory into light-weight substitutes for metal motor mandrels.

Mandrels are center pieces or spindles around which propellant is poured to form core designs in case-bonded solid propellant rocket motors.

Polystyrene mandrels are left in the rocket motor, Tate said, thus eliminating the dangerous pulling operation now required to remove metal mandrels from the motors. The Birmingham native pointed out that the plastic devices also seal the propellant from the atmosphere and prevent propellant sagging while motors are in storage.

Simplified fabrication also reduces costs. Mandrels are presently made of cast or machined metal coated with wax or teflon.

Tate, a chemical engineer from Auburn University, has been a research scientist at Redstone Arsenal for 10 years.

He stated the polystyrene used in laboratory tests is commercially available.

The engineer said the plastic is molded into star or cylindrical perforations. These molds are used to cast two-inch diameter

"micro" motors containing 3 pounds of propellant. Tate said the plastic mandrels are burned or ejected from the motor when the solid propellant is ignited.

The research project using small scale equipment was conducted by the laboratory's Motor and Power Branch to explore advances in mandrel materials. Related work is being conducted by Rohm and Haas Chemical Company and Navy research engineers.

Tate said much of the work in the one-year project has been done by Charles R. Bishop, engineering technician, and Talivaldis Dumpis Jr., a former soldier-engineer.

The Propulsion Laboratory is an organization of the Research and Development Directorate.



MISSILEMEN OF TWO NATIONS MEET—Brigadier Francis Grant of London (right), Director of the British Guided Weapons Ministry of Aviation, and Brigadier Joseph Alexander Fitzpatrick (second from right), British Defense Research Staff Director of Munitions, Washington, were visitors of the U. S. Army at Redstone Arsenal last week. Shown discussing subjects of mutual interest with them are Col. Norman T. Dennis, Mauler Project Manager, and Lewis L. Gober, Deputy Mauler Project Manager. Accompanying the two Brigadiers to Redstone but not in the photograph, were Col. Richard Beggs, British Army Staff, British Embassy, Washington, D. C., and John Garvin Lewis, attached to the British Defense Research Staff in Washington, D. C.



DR. R. J. RAUDEBAUGH

Metals Society To Hear Dr. R. J. Raudebaugh

The national president of the American Society for Metals will be the principal speaker when the Tennessee Valley chapter of the ASM meets at the Holiday Inn in Decatur on Thursday evening.

Dr. Robert J. Raudebaugh, of the International Nickel Co., has selected a very timely topic, "Maraging Steel," for his discussion.

The meeting opens with a social hour at 6:00 p.m. followed by the dinner and a technical session.

Dr. Raudebaugh has been an active member of the ASM for 28 years, serving as a national trustee, treasurer and vice-president before assuming the presidency last year.

He received his B. S. degree from Carnegie Tech in chemical engineering and his Ph.D. from Purdue University in metallurgy. He was employed by the Armco Steel Corp., for six years and served on the faculty of such prominent engineering schools as Purdue, the University of Rochester, and Georgia Tech.

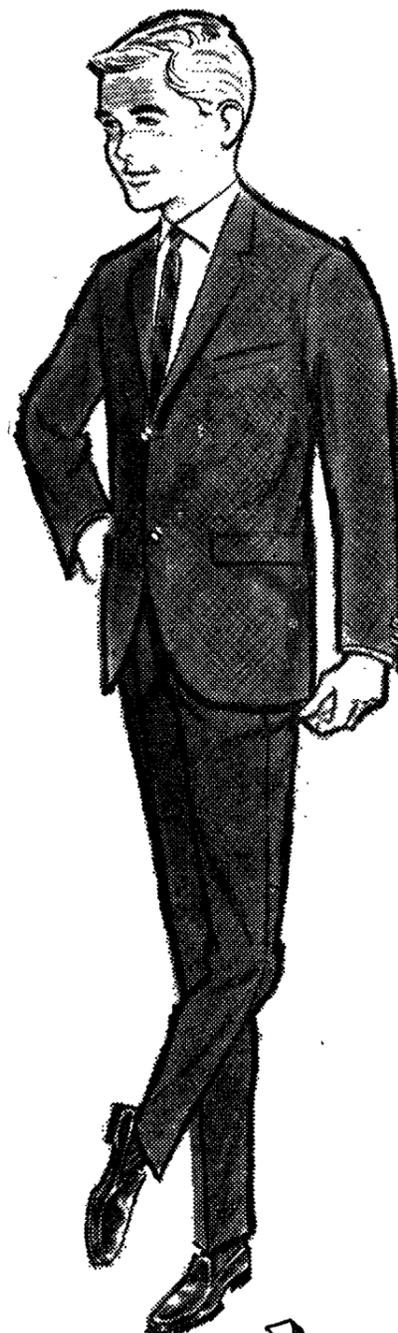
In 1954 he joined the Research Laboratory of International Nickel and is now supervisor of iron-nickel alloys in the Development and Research Division.

Maraging steels, currently under development and evaluation, are 18 to 25 per cent nickel-iron alloys containing cobalt, molybdenum and titanium as strengthening additions.

The term "maraging" derives from the fact that these steels attain high strength by an aging treatment after transformation to martensite.



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