

the ROCKET

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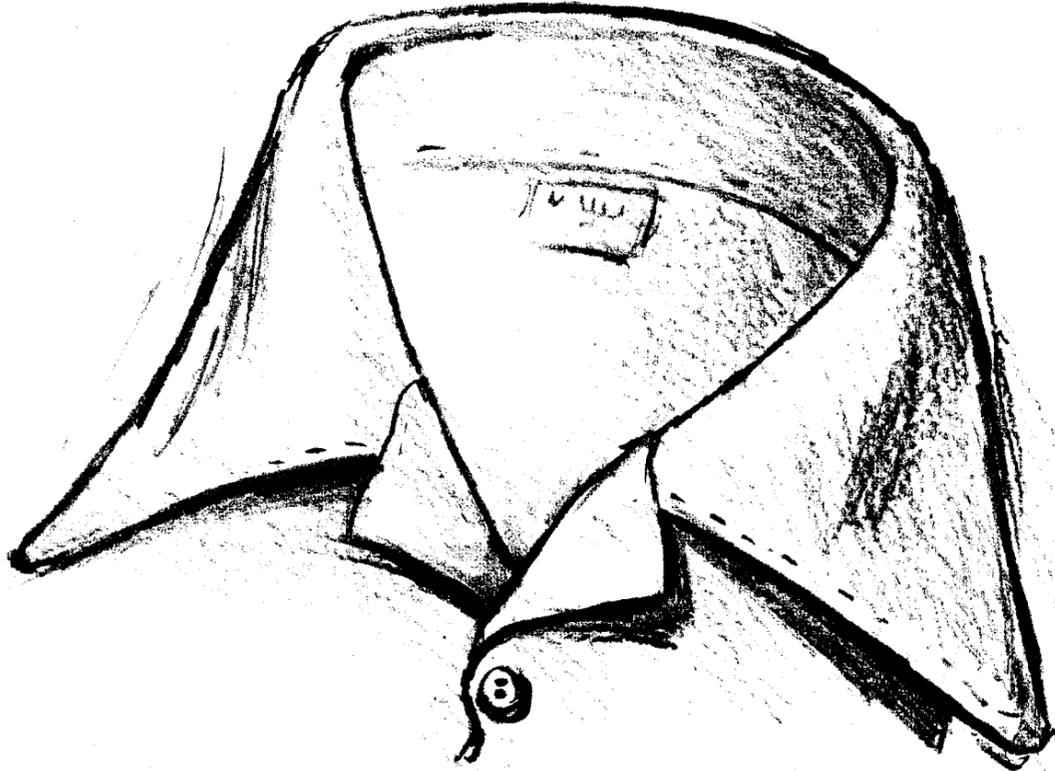
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There are almost 900 people involved — almost all of them men, wage grade employees doing a variety of things that in combination make Redstone Arsenal tick. Most work in the Redstone Arsenal Support Activity. A few are scattered among MICOM's many directorates.

Including all Army military and civilian personnel, contractors, retired mili-

tary and their dependents, wage grade personnel supply services directly or indirectly to about 40,000 people.

By far the largest group of wage grade employees works in the Facilities Engineer Division (404), next in numbers is the Equipment Management Division (212), then Station Supply and Stock Control (185). Others may be found in such organizations as Communications and Electronics, Morale and Welfare, Transportation, Flight Operations, Administrative Services.

Wage grade employees are not set apart in appearance by any special mode of dress. The old idea that they all wear coveralls and carry hammers and screwdrivers hanging from their belts has long since faded into the past.

Some have college degrees or are working toward degrees on their own time, many have years of technical experience and fill positions of considerable responsibility. Essentially, they all supply support and services to the rest of the work force.

(See Pages 8 & 9)

Harry S. Truman, 1884-1972

A Long And Significant Career Of Public Service Comes To An End



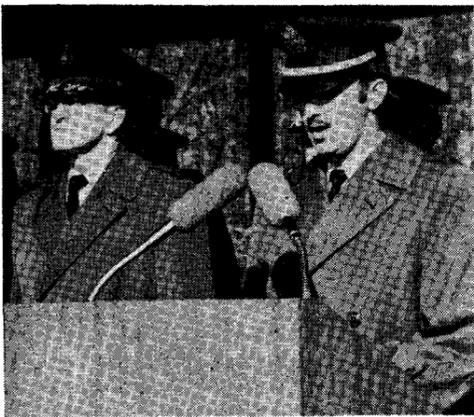
Captain Harry S. Truman, U.S. Army, 1918

Official Announcement

"It is my sad duty to announce to members of the United States Army the death of the Honorable Harry S. Truman, 33rd President of the United States, which occurred at Kansas City, Missouri, on 26 December 1972.

"Mr. Truman assumed the Presidency on 12 April 1945 in the closing stages of World War II. The confidence he instilled in the people of the United States by his adept handling of the post war problems resulted in his reelection to the Presidency in 1948. His determined support to the ideals of free men expressed through the promulgation and implementation of the Truman Doctrine and Marshall Plan, his skilful guidance of our country's affairs during the Korean Conflict, and his support of the creation of the North Atlantic Treaty Organization as a stabilizing force in world affairs remain as monuments to his wisdom and perspicacity. Mr. Truman's simplicity, decisiveness, idealism, frankness, and wit will long be remembered. The country has lost a distinguished citizen and patriotic leader."

ROBERT F. FROEHLKE
Secretary of the Army



DEATH NOTICE—Captain Clifford V. Farthing reads official notice of the death of former President Harry S. Truman to assembled Redstone Arsenal soldiers at formal ceremony Wednesday morning.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesday. The publisher will receive editorial content for publication in the Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5250, Room A-134. Extension 876-1400 or 876-1500.

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Harry S. Truman was no stranger to wars and the men who fight them.

He was an Army artilleryman in World War I, commander-in-chief during the latter part of World War II and Korea, and a major figure in the "cold war."

When the U.S. entered World War I in 1917, Truman was a member of the Missouri National Guard. He was called up for active service and sailed for France with a commission as a first lieutenant.

He became a captain while serving with the 35th Division in France and commanded Battery D, 129th Field Artillery. Truman was discharged as a major and later rose to the rank of colonel in the reserves.

As a civilian, he entered politics. In 1934 he was elected senator and ten years later Franklin D. Roosevelt chose him as a vice-presidential running mate.

When President Roosevelt died April 12, 1945, Truman was sworn in as chief executive of a nation that was finishing another world conflict.

Within two weeks of assuming the presidency, Truman opened the United Nations conference by radio. In another two weeks he announced the surrender of Germany.

In July, he ended Japanese resistance by authorizing the use of the atomic bomb. Japan formally capitulated in August.

The U.S. was now the world's major power and in 1947 Truman announced, in what became known as the Truman Doctrine, that it would assume the global burdens that England was abandoning.

To aid him in this task, Truman appointed General of the Army George C. Marshall as his secretary of State. Marshall soon proposed a vast expansion of the foreign-aid program to restore Europe's shattered economy.

Relations with war-time ally, the U.S.S.R., began to deteriorate in what came to be described as the cold war.



Commander-in-Chief, 1952

As a bulwark against the U.S.S.R., Truman inspired formation of the North Atlantic Treaty Organization (NATO), consisting of the U.S., Canada, Iceland and nine western European states.

The cold war became a shooting war on June 25, 1950, when North Korean Communists attacked the Republic of Korea. Truman promptly committed U.S. forces to repel the invasion. He obtained United Nations sanction and assistance.

This long and frequent acquaintance with war gave Truman a very high regard for the American soldier.

At White House award ceremonies, he often said he would rather hold the Medal of Honor than be president. (ANF)

I Did What I Thought Was Right

"This flag is presented to you on behalf of a grateful nation as a token of appreciation for the honorable and faithful service rendered by your loved one."

Mrs. Harry S. Truman, widow of the 33rd President of the United States, then accepted the precisely folded stars and stripes from the funeral escort commander last Thursday, thus symbolically concluding the life of one of the nation's most colorful public figures during the 20th Century.

Harry S. Truman is known as the man who was not supposed to be president. He admitted it and was amused by the fact that he had been, and was rather awed as the years pass, that more and more people evaluate him as an exceptionally good one.

He modestly said: "I did what I thought was right. I leave my place in history to the historians."

And The Rocket leaves his degree of greatness to historians. We do wish to make a few observations.

Mr. Truman, relatively unprepared for the presidency by background and education, assumed the duties of the office at a time the nation was concluding the most farflung war of its history. Maintaining the peace and adjustment to a peacetime economy were not easy.

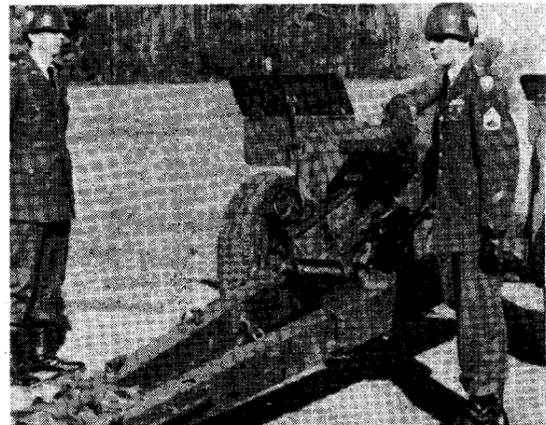
He had critics, of course, but his decisions were courageous and without dangerous procrastination . . . dropping the bomb on Hiroshima and Nagasaki, committing troops to the Korean conflict, assistance in rebuilding post-war Europe through the Marshall Plan, enforcement of the Truman Doctrine to assist faltering democracies in fighting communism — to mention a few.

Mr. Truman never visited Redstone Arsenal but it was during the term of office he won for himself . . . to the surprise of the nation . . . that the Army centered its rocket and missile activity

here. We do not know how much he had to do with the selection of the place but as Commander-in-chief he could have stopped it. The fact that he permitted such extensive federal activity to come to a state where names of electors pledged to him were not included on the 1948 presidential election ballot, speaks for the bigness of the man from Missouri.

Other far reaching decisions made by Mr. Truman which daily affect our work and lives here at Redstone were creation of the Department of Defense to direct activities of the Armed Services and racial integration of the nation's Armed Forces to assure equality and justice for all.

Yes, the outspoken little man from Missouri left his mark. Along with the nation, The Rocket mourns his passing.



GUN SALUTE—MICOM Special Troops fired gun salutes in tribute to former President Harry S. Truman. Single gun fired once every 30 minutes from reveille until retreat Wednesday.

Pershing: Army's Sunday Punch Returns To Kennedy

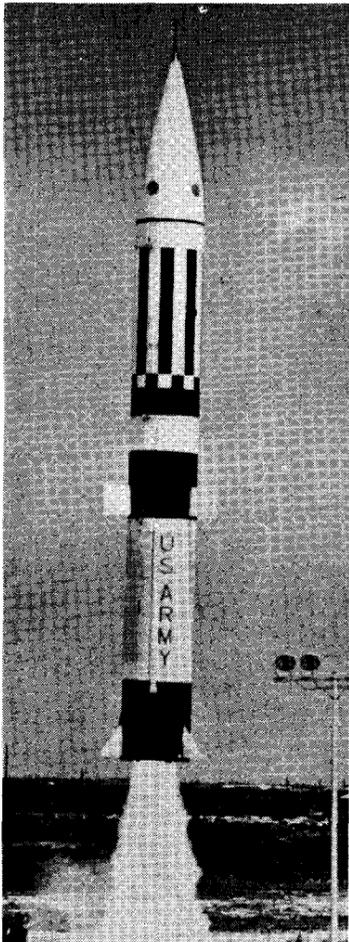
The Army announced on December 27 plans to conduct operational test firings of the Pershing missile system at the Air Force Eastern Test Range during 1973.

Several of the 400 mile range ballistic missiles carrying inert warheads will be fired by soldiers of the U.S. Seventh Army during the Spring series of tests extending over a period of several weeks.

Firing operations will be conducted under simulated tactical conditions. The exact dates and times of the launches will not be announced to preclude advance notice to the soldiers involved in the training exercise.

The missiles will be fired from Cape Kennedy near the site where Pershing research and development firing tests were conducted from 1960 through April 1963. Training and development firings since then have been conducted at White Sands Missile Range. Some Pershing launches will continue to be conducted there.

The troop units — including Pershing ground support equipment and missiles — will be flown to Cape Kennedy from their duty stations in Germany to conduct the operational test firings. Each unit



GOING BACK—First launch of a Pershing missile occurred almost 13 years ago at Cape Canaveral.

will include approximately 110 soldiers. They will return to Germany upon completion of their firings.

In addition, approximately 80 soldiers of the 3rd Battalion, 9th Field Artillery, stationed at Ft. Sill, Oklahoma, will move to the Eastern Test Range on temporary duty to support the firings.

The operational test firings will be under the direction of Lt. Col. Donald M. Opel, Chief, Pershing Operational Test Unit, Headquarters, U. S. Army Europe in Heidelberg.

Operational with U. S. Army units for 10 years, the Pershing system is managed by the Missile Command. Colonel Samuel C. Skemp, Jr. is project manager. James F. Conner of the Pershing project will be on-site supervisor for the firing operations.

Colonel Edward L. Ramsey, Chief, Department of the Army Field Office, Air Force Eastern Test Range, will coordinate firing activities for the U. S. Army.

The two stage, solid fuel missile, fired from a wheeled erector launcher, is also supported by a mobile programmer test station and power unit. The missile system is completely self-sustained.

The Orlando Division of Martin Marietta Aerospace is prime contractor for the Pershing system. During the development test firing series from 1960 to 1963 at the Eastern Test Range, Pershing recorded the longest string of successes of any major missile system up to that time.



TOP SOLDIER—General Creighton Abrams, Army Chief of Staff, listens to a briefing on laser seekers by Lieutenant Colonel Robert Coon during his visit to MICOM December 21. Others in the group include Colonel John Hanby, Hellfire Project Manager, and Colonel Vernon Wallis, Deputy Director, Army Missile Research, Development and Engineering Laboratory.

Head Blood Bank Parade

The Maintenance Directorate and the Seventh Enlisted Training Company repeated as the leading contributors to the Red Cross blood donor program at Redstone during 1972.

Overall a slight decrease was reflected during the year, both in the number of voluntary donors and in the amount of blood collected. This despite the monthly quota of 500 donors was surpassed in each of the twelve months for the fifth consecutive year.

A total of 9,508 voluntary contributors responded to the Red Cross call for donations during the year and they contributed 8,278 pints of blood.

The Red Cross received 9,014 pints of blood from Redstone the previous year from among the 10,106 voluntary donors.

Maintenance made it eight quarters in row that it has led Category I organizations among the Arsenal's civilian community. Category I includes organizations with over 500 assigned personnel. Maintenance swept all four quarters of the year duplicating their 1971 feat.

The Category II 101 to 500 civilian award was claimed for the last three quarters of the year by Missile Intelligence. The Metrology and Calibration Center was the first quarter winner.

Three of the four quarterly awards in Category III (less than 100) were claimed by the Land Combat Special Items Management Office. The TOW Project Office broke the sweep by winning the third quarter award.

The 7th ETC hold on the military Category I award extends over an even longer period with 1972 marking the fourth consecutive year that the unit has prevailed among those units with an assigned strength of over 100.

Military citations are awarded each month with the winning unit being the one that takes the greatest number of monthly awards. The 7th won six of the monthly awards.

Another ETC unit, the Third, replaced the 200th Ordnance as the leading Blood Bank contributor among the military units with less than 100 assigned personnel.

The Third provided more participants than any of their competitors in four different months.

How Dry I Am

Beer flowed freely at Redstone Friday—gallons and gallons of it.

But there wasn't a drop to drink.

A fully-loaded truck, attempting to make a left turn onto Burose road, just across from Bldg. 5250, dumped nearly 50 cases into the street, late Friday afternoon.

Beer flowed like rainwater down Martin. And the air around Bldg. 5250 smelled like a New Year's party had begun early.

Traffic was slowed temporarily as passersby surveyed the broken bottles and drove on. A few smiled and inhaled deeply.

One man shook his head and muttered: "What a waste!"

Full-Time Occupation

Miles R. Hardenburgh, former chief of Requirements and Policies Division, Quality and Reliability Management Office, is retiring to devote full time to study for a Ph. D. degree in business administration from Pennsylvania State University.

Hardenburgh, until his retirement, has been studying at the University on annual leave from his job at the Army Missile Command.

He transferred to Redstone from the Army Chemical Center, Edgewood Maryland in 1958 to be deputy director of a division in the Army Ballistic Missile Agency.

He plans to teach at Alabama A & M where he was employed part time while working at the Missile Command.

During World War II he served as an Infantry officer in Europe. Afterward he took graduate work in engineering at the University of New York, Maryland, and Con-

necticut. Originally from Virginia, he obtained his bachelor's degree at Wake Forest.

Mrs. Hardenburgh will remain in Huntsville. She is chief of the administrative office for the Kwajalein Missile Range Directorate at the Safeguard System Command.



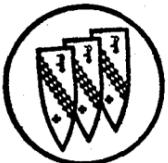
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ROLLING MERRILY ALONG—Eunie Taylor finds that riding her tricycle is lots of fun and good therapy too.

All She Wanted Was A Tricycle For Christmas

Tricycle riding used to be for kids, but grownups can enjoy it too.

Eunie Taylor, a budget analyst in the Program Branch, Research, Development, Engineering, and Missile Systems Laboratories, finds that riding her tricycle is lots of fun and good therapy too.

Mrs. Taylor, who had polio when she was a child and sometimes has arthritis, found she could not ride the conventional two wheel bicycle. When manufacturers came out with a big three wheel bicycle, she thought this might be good exercise so her husband bought her one as an early

Christmas present. Now she tries to ride some every day and finds it is a good way to exercise and has fun along with her therapy.

While tricycle riding is one of her newest interests, Mrs. Taylor spends much of her spare time doing needlework, knitting and making her own clothes.

A native Huntsvillian, Mrs. Taylor has worked at Redstone for the past 18 years and knows much about the area before there was a Redstone Arsenal. In fact her Mother's family owned a part of the land that is now Redstone. Some of her relatives are buried in the old Woodward Cemetery located on the Arsenal.

Even though she has a multitude of hobbies, Mrs. Taylor always finds time to do new things. She has visited in many of the old homes in Huntsville and is following the restoration program with interest.

Speaking of her tricycle riding, Mrs. Taylor said, "It helps my leg muscles and strengthens my back. I believe it is really making me feel better. With the bad weather now, I don't get to ride as much as I'd like to, but when the weather improves I am going to be more active."

Wacs Eligible For MP Training

FT. GORDON, Ga. (ANF)—Members of the Women's Army Corps (Wacs) can now be formally trained as military police (MP) and 20 of them will participate in a pilot program at Ft. Gordon, Ga., in 1973.

Previously, Wacs had received on-the-job training as MPs and had limited duties to perform. They did not carry weapons.

The new Army policy, however, emphasizes that Wacs who qualify for the MP MOS 95B will not be used solely in administrative and clerical tasks. When appropriate, they will be armed with .38 caliber revolvers and may be authorized to carry concealed weapons.

The Army decided to change its policy because civilian law enforcement agencies have shown that women can be effectively utilized in law enforcement duties.

The 20 Wacs who will be trained in this year's pilot program will be chosen from a list of volunteers. If the program is a success, the Army projects 120 Wacs will be trained as MPs the following year.

Upon completion of the pilot program, the graduates will be assigned to MP units throughout the United States in groups of no less than two.

They will perform such duties as patrol, information booth, installation access and MP desk, traffic control, investigation and law enforcement, and supervisory duties.

Considered inappropriate assignments are the custody of prisoners, dog handling, manning guard posts, wildlife conservation and tasks involving a high probability of danger and violence.

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Retirement Claims Long Time Missilemen



MOSHKOFF

Two engineers who joined the Army missile program about 20 years ago marked their retirement from Federal service at the end of 1972.

Both have been employed in the Research, Development, Engineering and Missile Laboratory through reorganizations and name changes that have occurred as the Army missiles developed through broad concepts that evolved into today's weapons.

Gregory S. Moshkoff retired as chief of the Advanced Research Projects Agency Support Office. He came here in March 1952 from the Civil Aeronautics Administration in Atlanta, where he was responsible for all electrical engineering activities throughout the Southeastern states and the Caribbean. He will be succeeded by Jack C. Spencer.

William P. Lloyd, who has directed the Test and Evaluation program since 1959 joined the Army missile program in December 1953. He had been a building construction contractor in Huntsville until the Korean War curtailed supplies. His successor will be Charles L. Northrop.

Moshkoff's experience has been concentrated on surface to air missiles and he was among the pioneers who not only helped design and build new concepts in the laboratory, he also helped design and engineer the components needed to build prototypes of newly conceived Army weapons.

He remembers one temporary duty trip to a contractor's laboratory on the West Coast which stretched from three days to three weeks. The prototype of the missile worked well in the laboratory, but it had to be modified to take the rigorous conditions under which it would be handled in the field.

He has bachelor's degrees from Georgia Tech and from the University of Georgia, Atlanta Division, a master's degree from



LLOYD

the University of Alabama in Huntsville and the Navy sent him to Cornell to study diesel engineering before assigning him to a minesweeper. He obtained his commission through Officers Candidate School.

Lloyd, a graduate of Auburn, received an ROTC commission and served in the Army Air Corps during World War II.

Looking back at his years in the missile program, Lloyd said, "The most satisfying aspect was the association of the people. Many were here or came about the same time I did, and most of them are outstanding on the job. I don't think the public image of civil service is justified. Many people outside government sit down and do nothing for industry. A good manager gets things done in spite of red tape."

The words he used about the actual work accomplished in the directorate were challenging, different and interesting. His obvious dedication and enthusiasm earned him a Meritorious Civilian Service Award and a number of outstanding performance ratings.

Now, he is ready to meet the new challenge of work programmed by himself and his wife at home and at the lake.

Gunners Check Out On Dragon

Army gunners at Redstone have concluded tests with a night sight that enables Dragon, under cover of darkness, to locate, track and destroy armor and other battlefield targets.

Tests were successful.

Completing night sight training were SFC Billy McKeith, who is assigned to the Missile Command's Dragon Project Office, along with Sergeants Robert Lane and James Waddell, both of Fort Benning.

Equipped with a night sight, Dragon, the Army's newest tank killer, could perform its mission night or day.

The Dragon program is managed at the Missile Command by Col. John Shea, Project Manager.

Insurance Benefits May Increase For Many MIA's

A Veterans Administration ruling makes possible the payment of as much as \$5,000 to \$10,000 additional in life insurance to families of some servicemen listed as missing in action in Southeast Asia who are later determined to have died.

Affected are servicemen placed on the missing in action list prior to September 29, 1965, when Servicemen's Group Life Insurance (SGLI) first became available, and those reported missing before June 25, 1970, when the amount of insurance was increased from \$10,000 to \$15,000.

Donald E. Johnson, Administrator of Veterans Affairs, approved a new VA regulation under which SGLI coverage will be deemed to have continued until the Department of Defense officially terminates the "missing" status.

Under normal insurance practices no insurance would be payable where death occurred before the insurance went into effect and only the lower amount would be paid where death occurred before the insurance was increased. Under the new rule insurance will be provided if the member was "missing" when the policy became effective and the increased amount will be payable if the "missing" status continued through June 25, 1970 even though it may develop that death occurred at an earlier date.

Johnson explained that the new rule is limited to Servicemen's Group Life Insurance. That program is unique in that the coverage and increased coverage were provided automatically based on the missing serviceman's continuing pay status.

In any other situation life insurance would have been in effect when the missing status commenced, the amount would be the same when death actually occurred and premiums paid after death would be returned. However, that approach in the SGLI Program would lead to survivors receiving no insurance or

a lesser amount of insurance when they had been led to believe the full amount was in force, and premiums had been deducted from service pay on that basis. Such a result would be inequitable Johnson said.

Johnson explained that when the hostilities cease it will no doubt be established that some members who have been listed as missing in action were in fact dead before the insurance went into effect or before it was increased to \$15,000.

In dealing with all veterans benefits for POW's, MIA's and their families Johnson said "this same compassionate approach will be used to the maximum extent possible under the law."

Ryan Teledyne Picks Shillito

Teledyne Ryan Aeronautical, San Diego, has announced the appointment of Barry J. Shillito as president effective in February.

A World War II Air Force pilot in Europe, Shillito spent 12 years in key positions in industry and 16 years as an expert in weapon acquisition and defense logistics problems.

After serving briefly in 1968 as Assistant Secretary of the Navy for Installations and Logistics, he was selected in 1969 by President Nixon to become Assistant Secretary of Defense for Installations and Logistics.

Secretary of Defense Melvin Laird presented the departing Assistant Secretary the Department of Defense Exceptional Civilian Public Service Award, the highest honor presented to DOD civilians.

Shillito was cited as one of the architects of revised policies and procedures for the acquisition of major defense weapons systems and as the single individual most responsible for the success of the President's Vietnamization program in the logistics area.

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Article 15 Filing Undergoes Change

(ANF)—There's been a policy change in the filing of article 15's. For all soldiers with more than three years of service, any article 15's they receive will be entered permanently in the efficiency portion of their 201 files.

However, for enlisted men with three or fewer years of service, article 15's will be kept in their 201 files for no more than two years. But they will be entered permanently in the efficiency portion of their official personnel files at Fort Benjamin Harrison, Indiana.

Joseph G. List

A funeral for Joseph G. List was held December 23, with burial following in Maple Hill Cemetery, Huntsville.

A preventive maintenance worker in the Facilities Engineer Division, Redstone Arsenal Support Activity, he was 61 and had been employed at Redstone since 1949.

List died December 21 as the result of an apparent heart attack. He was at work and had attended a meeting in a building other than where he worked. As he was leaving the meeting he collapsed. Co-workers called an ambulance and he was pronounced dead upon arrival at the Redstone Army Hospital.

He is survived by his wife and three daughters.

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BY SP5 DAVE COWAN

In a strong finish before the Christmas holidays, the fourth place 1st ETC team, led by Brian McMahon, upended undefeated UTC, 70-52, in a Unit Level Basketball game Dec. 18.

The victory moved the students into fourth place (3-2) in the American League while UTC dropped to third, tied with the Meddacs at 3-1.

The leading scorer in both leagues, McMahon paced 1st ETC with a brilliant 34-point performance, while David Siegenthaler contributed 17. For the losers, George Jellen had 17, while Mike Spry and Al Ashton had 14 tallies each.

UTC's Steve Jelnek, who makes up in rebounds when he is cold from the field, suffered an ankle injury, which could be a factor in UTC's fortunes following the Christmas recess.

The MP's fired their way into first place in the tight American race with a decisive 76-32 win over 4th ETC. The cops have an important make-up match against UTC after the New Year.

Four players hit double figures for the law officers. David White, Barry Bussard, Jerome Campbell and Richard Heintskill had 16, 14, 11 and 10, respectively. Haynes had 14 tallies for the losers.

The Meddacs boasted their league record to 4-1 with a 65-49 win over MICOM. The pillpushers had four men in the double figures with Al Black on top with 21. Dariel Jordon, Bob Moore and Robert Evans had 13, 13 and 10, respectively. Arthur Perrin led MICOM with 20 points.

Tuesday

The students from 6th ETC remained undefeated with a 4-0

mark in the National League Dec. 19. The 6th ETC class blasted 7th ETC 98-38, as five men hit double figures. Scutt, Henry and Burnham, who had 19, 15 and 13 tallies, are among the top 10 scorers in the National division. Armstrong and Singer finished 6th ETC's scoring with 14 and 13. Donelson and Culp netted 18 and 14 in what had to be a tiresome loss for 7th ETC which played with only five men.

Company B, led by Clinton Jones and Darrel Ogle, muscled their way to a 52-48 victory over 9th ETC. Jones had 15 points, while Ogle connected for 10. The students from 9th ETC have two men in the top 10 with David Winston leading the league with a 24.2 average. Winston scored 15, while Curtis Dunbar, eighth in scoring, had 14 for the losers.

Company A, which lost to 6th ETC three weeks ago, moved into second place in the league with a 3-1 mark. The permanent party beat 3rd ETC, 65-59, in a fine defensive game. Company A's two-man attack, Marvin Williams and Charles Reese, racked up 23 and 16 tallies, respectively. Dan Wyrick and Burns had 19 and 18 for 3rd ETC.

Wednesday

Safeguard fell short in trying to win their first game of the season as SSG came-from-behind to nip them 68-60 in an American League contest Dec. 20.

The SSG team posted their second win against three defeats, while Safeguard dropped to a two-way tie with 4th ETC for the cellar position.

Canary and Granger paced SSG with 20 and 19, while Frank Hubbard and Castine had 22 and 21 tallies each.

UTC was up to their winning

ways again Dec. 20, as they defeated 4th ETC 69-55, without the help of center Steve Jelnek, out with his injured ankle.

Al Ashton, led UTC with 23 tallies. Also for UTC were Lindfors and Jellen with 14 and 12. Haynes and Moranville had 19 and 14 for 4th ETC.

The Meddacs won their second game of the week, nipping the 1st ETC team 52-48 in the final game before Christmas recess.

The students led the pillpushers at halftime, but couldn't stop the running game of Al Black and Bob Moore. Black led the Meddacs with 16 from the floor, while Moore had 11. Brian McMahon continued his fine showing with 1st ETC, registering 20 points while David Siegenthaler added 11.

Unit Level Standings

American League

| TEAM | W | L | GF | GA |
|-----------|---|---|-----|-----|
| MPs | 3 | 0 | 185 | 117 |
| Meddacs | 4 | 1 | 288 | 222 |
| UTC | 3 | 1 | 305 | 189 |
| 1st ETC | 3 | 2 | 299 | 267 |
| MICOM | 2 | 2 | 218 | 261 |
| SSG | 2 | 3 | 190 | 272 |
| Safeguard | 0 | 4 | 220 | 278 |
| 4th ETC | 0 | 5 | 217 | 313 |

National League

| TEAM | W | L | GF | GA |
|--------------|---|---|-----|-----|
| 6th ETC | 4 | 0 | 314 | 188 |
| Company A | 3 | 1 | 251 | 246 |
| 3rd ETC | 2 | 2 | 211 | 211 |
| HHC, Sch Bde | 2 | 2 | 192 | 195 |
| Company B | 2 | 3 | 178 | 284 |
| 7th ETC | 1 | 3 | 188 | 258 |
| 9th ETC | 1 | 4 | 279 | 281 |

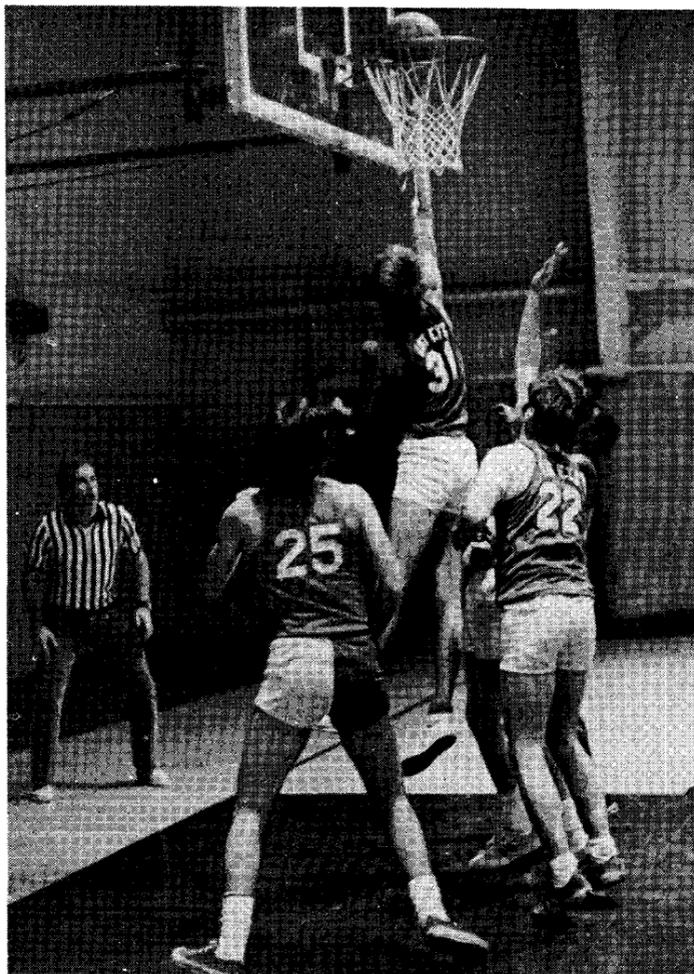
Leading Scorers

American League

| Player | Games | Pts. | Avg. |
|-------------------------|-------|------|------|
| McMahon (1st ETC) | 5 | 134 | 26.8 |
| Ashton (UTC) | 4 | 102 | 25.5 |
| Black (Meddac) | 5 | 87 | 17.4 |
| Castine (Safeguard) | 4 | 66 | 16.5 |
| Perrin (MICOM) | 4 | 65 | 16.3 |
| Spry (UTC) | 3 | 47 | 15.8 |
| Farrell (MICOM) | 3 | 43 | 14.3 |
| Granger (SSG) | 4 | 56 | 14.0 |
| Hubbard, F. (Safeguard) | 4 | 51 | 12.8 |
| Moore (Meddac) | 5 | 62 | 12.4 |

National League

| Player | Games | Pts. | Avg. |
|--------------------|-------|------|------|
| Winston (9th ETC) | 5 | 121 | 24.2 |
| Reese (Co. A) | 4 | 69 | 17.2 |
| Donelson (7th ETC) | 4 | 65 | 16.2 |
| Williams (Co. A) | 4 | 64 | 16.0 |
| Wyrick (3rd ETC) | 4 | 63 | 15.8 |
| Scutt (6th ETC) | 4 | 60 | 15.0 |
| Burnham (6th ETC) | 4 | 52 | 13.0 |
| Dunbar (9th ETC) | 5 | 63 | 12.6 |
| Henry (6th ETC) | 4 | 50 | 12.5 |
| Gordon (3rd ETC) | 4 | 46 | 11.5 |



NO FOUL SAYS REFEREE—Tim McClain (No. 31) of 1st ETC makes this goal amidst a heavy crowd in a recent Unit Level Basketball League game at the Post gym.

Sharp Shooting Mates Take CWF Scoring Lead

Neil Winterburn heads a quintet of sharpshooters who have averaged over 20 points every time they have taken the floor for a Civilian Welfare Fund basketball league game.

The southpaw scoring ace of the CSD five has rammed 23.9 points through the nets per game in each of his appearances through the Holiday break. A mere two-tenths a point to the rear is his teammate, John Stanford and Greg Bogue, the leading point maker of the PIO crew.

Claude Steele has scored an average of 21.6 points per game for the unbeaten Corps of Engineers

and Larry Black is tripping the nets at a 20.6 pace for SAFLOG No. 2.

Ten other players among those appearing in six or more games have averaged in double figures.

Fred Amparan leads the Interns at a 18.7 per game clip and Jerry Mullinax, another COE stalwart, is averaging 18.3. Mose Hall (P&P) stands eighth at 17.9 and Stewart Stout (RASA) next with 17.1.

The tenth best shooter is Larry Couch (SAFLOG No. 1), 16.9, followed in order by Jon Worrell, (Interns), (14.8), Jim Bunnell (PIO), 14.3, Fred Smith (P&P), 13.9, Ronnie Phillips (RASA), 13.8, and Dick Moore (RD&E), 12.9.

Engineers Lead CWF Pack Into New Year

The Civilian Welfare Basketball League wrapped up play for 1972 on December 20. There will be no more games until January 10.

RASA edged P & P, 48-46 in double overtime. The game was tied 42 all at the end of regulation time and 45-45 after the first overtime. Then Stewart Stout went to work to put the game away for RASA, 48-46. Stout finished the game with 18 points. Ronnie Phillips also contributed 13 for the winners. Mose Hall with 14 and Bob Pacheco with 12 paced P & P.

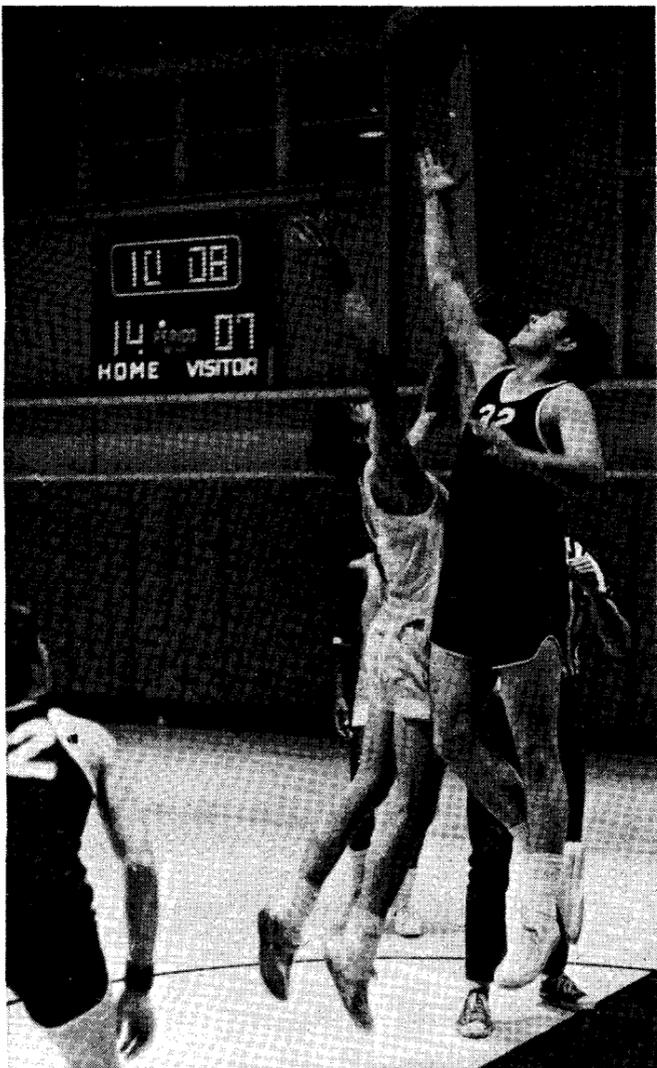
PIO bounced Metrology 71-30 with John Reppert leading the way with 33 points. Bunnell also

managed 16 for the winners. Metrology was paced by Beale's 12 and Whitton's 8.

RD&E beat Saflog No. 1, 46-32, with Wright and Moor sharing scoring honors for the winners with 14 each. Larry Couch, however, led all scorers as he tossed in 17 points in a losing cause.

In the other game scheduled the Corps of Engineers won by forfeit from Saflog No. 2.

The January 10 schedule finds the Corps of Engineers trying to extend their winning skein against MIA in the lid lifter. RD & E goes against DOI, RASA takes on CSD, and the Interns meet Metrology in the night's finale.



UP FOR GRABS—The action was fast and furious during a recent contest in the Unit Level Basketball League at the Post gym. SSG's No. 32 (not identified) tries to rebound his club upward in the league standings.



WILLIAM KING—killed a 176 pound, nine-point buck in area 22.



Lot-O-Pins Nab Rolloff Berth

One spot in the S&M League's season ending rolloff was filled just prior to Christmas when the Lot-o-Pins five locked up the first half of the split season schedule.

The Pins broke even with Bale's Rentals but that was enough to post a two-point margin over their opponents who needed a sweep to gain a tie.

Johnny Helland shot a 532 total in paving the way for the first half winners while Andy Andreottola rapped the maples for a 524 total for Bales.

The Parkway Lanes held onto third by sweeping the Misfits, Reba's ended fourth after blanking MIA, and the Fugitives stayed ahead of the Rinky Dinks when the two broke even in their four-point set.

Doug Robertson turned loose his third Honor Roll count of the season with a 631 that included games of 211 and 235 for the Lanes. Buck Wade added a 589 scratch total to the Parkway attack while Jim Bertoldi totaled 619 with handicap for the Misfits.

Handicap bowler of the week honors were claimed by Joe Powell whose 653 total included a 581 scratch pinfall for the Fugitives. George Nelson accounted for 593 sticks for the same team while Bob Brand topped the Rinky Dinks with 536 and Earl Pool collected 531 more.

Reba's got a 535 reading from Willie Wilson in rolling past MIA whose Bill Self totaled 622 with handicap.

Bandits Blast Into Contention

The T-Birds regained their exclusive hold on first place and a new challenger emerged to take up the chase as AMC League bowlers wound up the 1972 portion of their schedule the week before Christmas.

The Birds had dropped into a three-way tie for the lead with the Cobras and the Sprinters during the previous session but a clean sweep of four points from Hughes TOW dissolved the deadlock.

The Cobras fell four points back after losing all four to the Bombers and the Sprinters is a single point better after taking a 3-1 setback from the Lancers.

The new runner up is the Bandits whose devastating 3176 attack was good for a shutout of the Fat Cats. The second placers in last season's

final standings moved to within two points of the top with games of 1023, 1040 and 1113.

Neil Donaldson topped the all-500 lineup with 599 and John Goltz was close behind at 588. Bob Davidson topped 562 sticks, Fred Helmer stacked 542 and Marlin Davis just made it with 501.

Wayne Hobbs grabbed third place in the individual derby with a 579 in leading the Birds to their sweep but Billy Davis saw his 547 effort go for naught when the Bombers blanked the Cobras.

Chuck Turner turned loose a 561 barrage to get the What Ifs a 3-1 win over the Tigers, the All-Sports took their lead from Red Totten in rolling to a 3-1 win over the Sheratons and the Spartans broke even with the Alley Cats in other matches.

Strike Outs Strike Out

Through the first half of the bowling season, the race for top slot among Redstone officers teams has resembled an old comedy bit by the Three Stooges.

Larry tries to dash through a doorway, but Moe seizes him by the coattails and yanks him back, then presses forward. Curly foils Moe in the same manner and presses forward, only to be grabbed in turn by Larry, and so on.

At the end of last week's bowling, the Lucky Strikes were in the doorway, having taken six points with help from Clyde Young's 527 and a 503 by Bob Luper.

Last week's league-leading Strikeouts dropped all eight points to the Wheezers, and now are in third place behind the Blackjacks.

Hardhats Jay Vick and Pete Grosz tallied 512 and 510 respectively, but failed to take any points on the standings board. The Wheezer quench of the Strikeouts was led by Mike Lloyd's 521 and a 513 by Don Bristol.

In spite of a 539 series and 201 game by Tom Wilkerson, the Growlers were unable to rise higher than seventh place.

Ken Oard led the Sperts with a 529 and 231 evening, while the strongmen for the Dippers were Bill Breedlove with a 517, and Ray Weinberg, roller-of-500's.

Ed (User) Witzczak collects a century patch from the ABC. In sactioned bowling, he tallied a 515 series highlighted by a 255—that's more than 100 pins over his average.

Swinger Jim Ivy rolled 521, but was unable to raise his team any higher than ninth place. In addition, the Metrocals remained unmoved in the face of a 502 by Bob Bond.

Team standings in the league begin anew this week, with a single elimination tourney at season's end to determine the top teams for the year.



Roscoe Bertus killed a 136 pound, eight-point buck in area 28.

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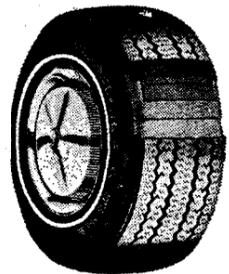
The Missile and Munitions Center and School is still enjoying its annual Christmas holiday break. Dave Cowan's NAMES IN THE NEWS column will return next week. The MMCS Information Office wishes everyone a happy and prosperous New Year.

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Their Services Directly Affect

Every work day everyone who earns a living at or lives on Redstone traverses the 38,659 acre reservation. Each one uses a portion of 158 miles of paved and 132 miles of unpaved roads, roads maintained by wage grade employees.

Facilities Engineer people fill the potholes, resurface the roads, and when there's snow or ice, come out in the night or during the weekend to clear the roads to make them safe for others.

Facilities Engineer people run the water treatment plants that pump an average of 123 million gallons of domestic water each month — water that must be treated to make it pure enough for human consumption. Also the plants pump almost 163 million gallons monthly for industrial use in air conditioning and testing.

The water comes from the Tennessee River by way of two pumping stations and is stored in seven industrial reservoirs and 10 domestic tanks. It flows through 51.5 miles of industrial lines, and 136.6 miles of domestic lines, a spiderweb of pipes maintained by wage grade employees.

When there's an interruption in electric current, all eyes are on the men who operate and maintain 307 miles of lines that carry 360 kilowatt hours of electricity a year.

The lines are strung on 6,762 poles ranging in height from 25 to 100 feet, and wage grade employees have been up and down all of them.

The system serves 66 miles of street lighting including three miles at the Arsenal airfield. This takes a total of 4,837 lights, and there are 17 towers and water tanks ranging from 100 to 400 feet high that have aircraft clearing lights.

"We climb the poles, repair the lines and transformers, change the light bulbs, and generally maintain the whole system," Royce Hixson, head man of the electric section, said. "It takes one man almost full time to replace lights, and six linemen spend about one day a week at it too."

Another Facilities Engineer section runs the sewage treatment plants that now use chlorine as an added assistance in pollution control. Sanitary sewer lines

cover 87.3 miles, and industrial lines 11.6 miles. There are three main plants and a number of smaller plants spotted around the Arsenal. Lewis Lindenmayer, who has been in the water and sewage treatment business since 1945, is proud of the excellence of the plant operation.

WELL SCATTERED

Redstone's work force comes in through eight gates and scatter to almost 2,000 buildings parking thousands of vehicles on 1,488,112 square yards of parking lots. Army vehicle registration hit around 47,000 last year, but not every one of these vehicles comes on the arsenal regularly. Some families have more than one car, and register each one they own.

One contingent of Facilities Engineer employees goes about the Arsenal dealing death to bugs and rodents.

Buildings are painted on a pre-arranged time schedule with exceptions made for unusual circumstances, but the average is once every four years for exterior painting. Some of the painting is done by wage grade employees, and some is contracted.

Facilities Engineer people must enter the most secure areas on call for maintenance and repairs. Faucets leak and electricity fails in classified work spaces too. They must have area access cards which are updated every six months. The Missile Intelligence Agency is one example.

Redstone has 15,688 acres of woodland, 2,700 acres of this covered by pine seedlings which Facilities Engineer wage grade people have been planting for years.

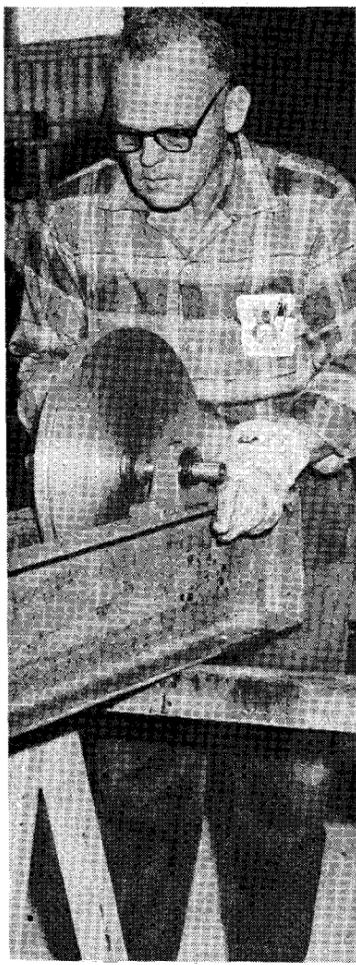
When it's hot Facilities Engineer people hear about it in a hurry if air conditioning systems fail.

In cold weather, crews of wage graders keep steam plants running to supply warmth to between 700 and 800 buildings through 82.2 miles of steam lines. This heat is supplied by burning 7,000 to 10,000 tons of coal per month and 53,500,000 cubic feet of natural gas per month furnished through 234,475 feet of gas lines.

Every month Facilities Engineer employees bury 1550 to 1800 cubic yards of refuse.



Missile repair in Equipment Management Division — Kenneth Grady does close work



Ed Hockaday, Facilities Engineer, fabricates large beam.



Where taxis are dispatched — left to right, Robert Smart, Grady L. Hall

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Also coming into that organization are about 2,700 calls a month from people who want something done about their heating, air conditioning, dripping faucets, leaking roofs, holes in the road — you name it, the Facilities Engineer hears about it if it interferes with comfort and convenience. The men who answer those calls are the wage grade employees.

Down In Numbers

Over the past few years, as is true arsenal-wide, the number of people that organization had on board has steadily declined, so they are spread thinner and must devote available manpower to the most essential tasks.

In the Equipment Management Division, more than 200 wage grade people spend their work hours in maintenance and support of a wide variety of equipment. It comes to about 70,000 items used by various customers. They work in modern shops that cover 142,000 square feet.

There are three motor pools, home plates for a fleet of 778 vehicles — sedans, station wagons, carryalls, all kinds of trucks, buses, a few tactical vehicles such as jeeps. They travel a total of about half a million miles a month.

Not all of the driving is done by wage grade employees, but they along chalk up between 80 and 90 thousand miles a month. The taxi service serves more than 300 people a day on official business; school buses haul 1395 passengers from post housing to 22 different schools in Huntsville, and home again; and the assorted trucks and other vehicles are used to move material and equipment. There are two locomotives and 23 railroad cars also in the vehicle fleet.

Wendell Terry, who heads the equipment pool said, "Our business is to supply safe, economical motor transport services in support of the Missile Command, the Redstone Arsenal Support Activity, the Safeguard commands, and the Missile and Munitions Center and School.

That's what he directs, mainly through a frequently ringing phone in a small building graced by a row of gasoline pumps across the front.

Others in this branch keep logs on all

vehicles — where they are, when they are in the repair shop, who's driving what and when.

Missile Mysteries

The people who delve into the mysteries of the missile business generate about 15,000 pounds of material a week that they no longer need and don't want anyone else to have. The classified waste is ingested by a lumbering, snorting behemoth of a truck which pulls up behind various Arsenal buildings. Its mighty teeth chew the material into minute shreds. The man who runs it is a wage grade employee, so are the mechanics who maintain Redstone's assigned aircraft.

Electronic fire control system repairers is the official title of more than 40 wage grade employees in the Missile Section of the Equipment Management Division. Much of their support goes to the Missile and Munitions Center and School, but MICOM research and development engineers, others who check the first weapons and components off production lines, and the people who had maintenance responsibilities for missiles also look to these men for support.

"It takes a broad scope of technical knowledge to do all of this," Maxwell Shepherd, one of the repairmen, said. "We have to know everything about several missile systems down to the last screw."

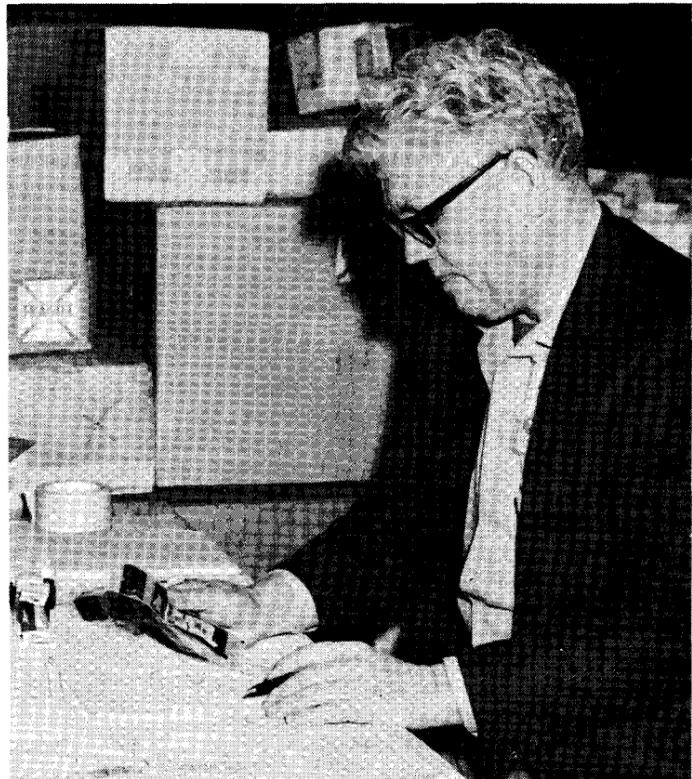
John Stevens, a young repairman, added: "We have to know how to improve components, and we as we gain experience, we learn how to do things that save money on maintenance.

All the equipment on the Arsenal has to be maintained by someone — office appliances, cameras, furniture, vehicles, the air conditioners in missile systems, the power plants and generators, missile ground handling equipment.

Larry Jensen, for instance, works on an average of 104 pieces of electronic communications equipment a month — radios — TVs and other such items.

He works in the Electronic-Photographic section where they are responsible for repair of more than 4,000 office appliances, 422 communication major items, and 12,850 instruments.

The lawnmowers and heavy equipment,



James Whitaker inspects small items received in Station Supply and Stock Control.

the tracked vehicles and the scooters, all go through maintenance shops. Between 600 and 650 pieces of furniture are repaired every month. . . . by wage grade workers.

Specifically there are 1300 vehicles, 172 forklifts, 1770 pieces of engineer equipment and 1725 small arms for one section to maintain.

No matter where one works or serves at Redstone, he or she is dependent on 185 wage grade employees for the receipt, storage and issue of supplies — supplies in 11 warehouses covering 466,000 square feet of storage space. The operating inventory of goods exceeds \$16 million.

Every month 32,000 items are processed through the supply system, and more than 50 per cent of these are highly technical pieces of equipment and parts, material not normally stored or issued at most posts.

Varied Skills

Included among the people who handle this mass of goods are warehousemen, stock and parts keepers and inspectors.

They issue office supplies, automotive and heavy equipment, electronic and small arms repair parts, building material, sweeping compound, ammunition, cots, sand bags, water and gas cans — if it's used in the normal process of business and housekeeping, it's apt to be in the Station Supply and Stock Control inventory.

Some of the busiest wage grade people work in the Reproduction Branch, an

authorized Army field printing plant. They do the printing for all Army elements on Redstone, as well as other government agencies in the immediate area.

Last year 57 wage grade employees in this branch printed more than 150 million eight and one-half by 11 inch sheets of paper. If you like numbers, that figures out to be a stack 12 miles high.

Communications and Electronics keeps 14 wage graders employed in the care & maintenance of 160 cameras a month, and the repair & maintenance of intercoms, public address systems, TV cable to the tune of 180 jobs a month as well as an average 168 repair & maintenance jobs on crypto machines and teletypewriters in a month.

Four men work in a cavernous warehouse at one Arsenal extremity packing and stacking the furniture and personal possession of military personnel, 86,000 pounds of it move in and out in an average month.

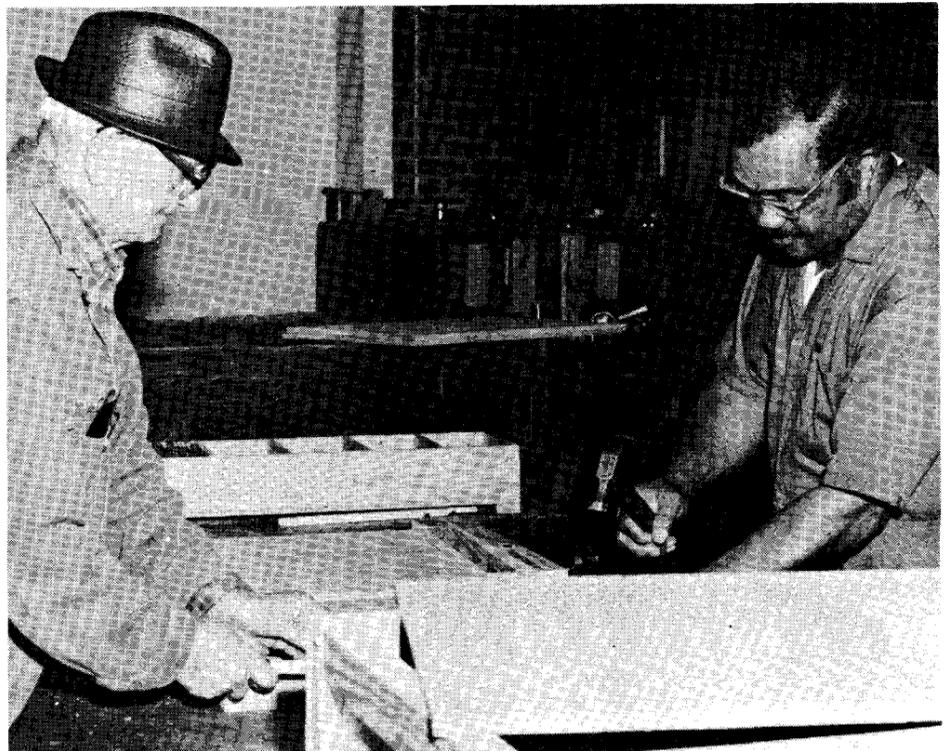
With almost 1100 sets of quarters on post for military families, two men are kept busy moving furniture in and out — Army owned furniture.

Still others fabricate missile components designed by the engineers.

Redstone grew out of a couple of Army installations that were built near Huntsville at the beginning of World War II. The work done has had its ups and down and its variety, but it has never run without wage grade employees.



Facilities Engineer employee A. H. Barnett fabricates rods in Sheet Metal Shop.



Jim Barnes, left, and Robert Ragland of Station Supply and Stock Control build a packing case for off-post shipments.

NEW CIVILIAN (GS) PAY SCHEDULE

**Increased Pay Rates
Effective This Month**

ON January 1, monthly basic pay for the armed forces will go up 6.69 percent to the rates shown, based on a federal Civil Service pay boost of 5.14 percent. The newly calculated pay scales represent a refinement of the Pentagon's earlier estimate that the civilian boost would translate into a 6.67 percent hike for the military. A formal announcement of the amount of the military and civilian pay boosts will be made shortly through publication in the Federal Register. Pay for the senior enlisted man in each service would be \$1355.40. The theoretical rate for the Chairman of the Joint Chiefs and each of the service military chiefs would go up to \$3745.20. However, these and other general officer grades are subject to a legal ceiling of \$3000 monthly.

| Grade | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| GS- 1 | 4,799 | 4,958 | 5,118 | 5,278 | 5,438 | 5,598 | 5,757 | 5,917 | 6,077 | 6,237 |
| GS- 2 | 5,432 | 5,612 | 5,793 | 5,974 | 6,155 | 6,336 | 6,517 | 6,697 | 6,878 | 7,059 |
| GS- 3 | 6,128 | 6,332 | 6,536 | 6,739 | 6,943 | 7,147 | 7,351 | 7,555 | 7,759 | 7,963 |
| GS- 4 | 6,280 | 7,110 | 7,339 | 7,568 | 7,707 | 8,026 | 8,256 | 8,485 | 8,714 | 8,943 |
| GS- 5 | 7,695 | 7,952 | 8,203 | 8,465 | 8,721 | 8,978 | 9,234 | 9,491 | 9,748 | 10,004 |
| GS- 6 | 8,572 | 8,853 | 9,144 | 9,430 | 9,716 | 10,002 | 10,288 | 10,574 | 10,800 | 11,146 |
| GS- 7 | 9,518 | 9,836 | 10,153 | 10,471 | 10,788 | 11,106 | 11,423 | 11,741 | 12,059 | 12,376 |
| GS- 8 | 10,528 | 10,879 | 11,230 | 11,581 | 11,932 | 12,284 | 12,635 | 12,986 | 13,337 | 13,688 |
| GS- 9 | 11,614 | 12,001 | 12,388 | 12,775 | 13,161 | 13,548 | 13,935 | 14,322 | 14,709 | 15,096 |
| GS-10 | 12,776 | 13,201 | 13,627 | 14,053 | 14,479 | 14,905 | 15,330 | 15,756 | 16,182 | 16,607 |
| GS-11 | 13,993 | 14,460 | 14,927 | 15,301 | 15,660 | 16,327 | 16,791 | 17,261 | 17,728 | 18,194 |
| GS-12 | 16,682 | 17,238 | 17,794 | 18,350 | 18,906 | 19,462 | 20,019 | 20,575 | 21,131 | 21,687 |
| GS-13 | 19,700 | 20,357 | 21,014 | 21,671 | 22,329 | 22,986 | 23,643 | 24,300 | 24,957 | 25,614 |
| GS-14 | 23,089 | 23,858 | 24,526 | 25,398 | 26,167 | 26,937 | 27,706 | 28,476 | 29,246 | 30,015 |
| GS-15 | 20,808 | 27,793 | 28,692 | 29,588 | 30,485 | 31,382 | 32,279 | 33,176 | 34,073 | 34,970 |
| GS-16 | 31,203 | 32,240 | 33,283 | 34,323 | 35,363 | 36,403* | 37,442* | 38,482* | 39,522* | |
| GS-17 | 36,100* | 37,304* | 38,508* | 39,711* | 40,915* | | | | | |
| GS-18 | 41,733* | | | | | | | | | |

* Statutory limit \$36,000.

Post Theatre

**This Week's
Schedule**

WEDNESDAY, December 27
"Blood from the Mummy's Tomb" (PG)

THURSDAY-FRIDAY, December 28-29
Double feature:
"Stand Up and Be Counted" (PG)

"The Anderson Tapes" (PG)
INCREASED ADMISSION: adults 75c, children 35c

FRIDAY, December 29, late show:
"Psycho" (PG)
One showing at 9:30 p.m.

SATURDAY, December 30
"The Salzburg Connection" (PG)

SUNDAY-MONDAY, Dec. 31 - Jan. 1
"Ulzana's Raid" (R)

INCREASED ADMISSION: adults 75c, children 35c

TUESDAY-WEDNESDAY, January 2-3
"Innocent Bystanders" (PG)

One show nightly at 7:00 p.m. except as noted above.

MONTHLY BASIC MILITARY PAY RATES

| PAY GRADE | YEARS OF SERVICE | | | | | | | | | | | | | |
|---|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| | UNDER 2 | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 26 |
| COMMISSIONED OFFICERS | | | | | | | | | | | | | | |
| O-10 | 2415.00 | 2500.20 | 2500.20 | 2500.20 | 2500.20 | 2595.90 | 2595.90 | 2794.80 | 2794.80 | 2994.90 | 2994.90 | 3195.00* | 3195.00* | 3394.20* |
| O-9 | 2140.50 | 2196.90 | 2243.70 | 2243.70 | 2243.70 | 2300.40 | 2300.40 | 2395.80 | 2395.80 | 2595.90 | 2595.90 | 2794.80 | 2794.80 | 2994.90 |
| O-8 | 1938.60 | 1996.80 | 2044.50 | 2044.50 | 2044.50 | 2196.90 | 2196.90 | 2300.40 | 2300.40 | 2395.80 | 2500.20 | 2595.90 | 2700.30 | |
| O-7 | 1610.70 | 1720.80 | 1720.80 | 1720.80 | 1797.30 | 1797.30 | 1902.00 | 1902.00 | 1996.80 | 2196.90 | 2347.80 | | | |
| O-6 | 1194.00 | 1312.20 | 1397.70 | 1397.70 | 1397.70 | 1397.70 | 1397.70 | 1397.70 | 1445.10 | 1673.70 | 1797.30 | 1902.00 | 2062.50 | |
| O-5 | 954.90 | 1121.70 | 1198.80 | 1198.80 | 1198.80 | 1198.80 | 1235.70 | 1301.40 | 1388.40 | 1492.50 | 1578.30 | 1625.70 | 1683.00 | |
| O-4 | 805.20 | 979.80 | 1046.10 | 1046.10 | 1064.70 | 1112.10 | 1187.70 | 1254.90 | 1312.20 | 1369.20 | 1407.30 | | | |
| O-3 | 748.20 | 836.40 | 893.70 | 893.70 | 989.40 | 1036.50 | 1073.70 | 1131.30 | 1187.70 | 1216.80 | | | | |
| O-2 | 652.20 | 712.50 | 855.90 | 884.40 | 903.00 | | | | | | | | | |
| O-1 | 566.10 | 589.50 | 712.50 | | | | | | | | | | | |
| COMMISSIONED OFFICERS WITH OVER 4 YEARS SERVICE AS ENLISTED MEMBER | | | | | | | | | | | | | | |
| O-3 | -- | -- | -- | 989.40 | 1036.50 | 1073.70 | 1131.30 | 1187.70 | 1235.70 | | | | | |
| O-2 | -- | -- | -- | 884.40 | 903.00 | 931.50 | 979.80 | 1017.90 | 1046.10 | | | | | |
| O-1 | -- | -- | -- | 712.50 | 760.80 | 789.30 | 817.50 | 846.30 | 884.40 | | | | | |
| WARRANT OFFICERS | | | | | | | | | | | | | | |
| W-4 | 762.00 | 817.50 | 817.50 | 836.40 | 874.50 | 912.90 | 950.70 | 1017.90 | 1064.70 | 1102.50 | 1131.30 | 1169.10 | 1207.80 | 1301.40 |
| W-3 | 693.00 | 751.50 | 751.50 | 760.80 | 770.10 | 826.50 | 874.50 | 903.00 | 931.50 | 959.70 | 989.40 | 1027.20 | 1064.70 | 1102.50 |
| W-2 | 606.60 | 656.10 | 656.10 | 675.30 | 712.50 | 751.50 | 780.00 | 808.20 | 836.40 | 865.50 | 893.70 | 922.20 | 959.70 | |
| W-1 | 505.50 | 579.90 | 579.90 | 627.90 | 656.10 | 684.60 | 712.50 | 741.60 | 770.10 | 798.60 | 826.50 | 855.90 | | |
| ENLISTEDS | | | | | | | | | | | | | | |
| E-9 | -- | -- | -- | -- | -- | -- | 865.80 | 885.60 | 905.70 | 926.40 | 946.80 | 965.40 | 1016.40 | 1115.10 |
| E-8 | -- | -- | -- | -- | -- | 726.00 | 746.70 | 766.50 | 786.60 | 807.00 | 826.20 | 846.60 | 896.10 | 996.00 |
| E-7 | 507.30 | 547.20 | 567.60 | 587.40 | 607.80 | 627.00 | 646.80 | 667.20 | 697.50 | 717.00 | 736.80 | 746.70 | 796.80 | 896.10 |
| E-6 | 438.00 | 477.90 | 497.70 | 518.10 | 537.90 | 557.70 | 577.80 | 607.80 | 627.00 | 646.80 | 657.00 | | | |
| E-5 | 384.60 | 418.80 | 438.90 | 458.10 | 488.10 | 507.90 | 528.00 | 547.20 | 557.70 | | | | | |
| E-4 | 369.90 | 390.60 | 413.10 | 445.50 | 463.20 | | | | | | | | | |
| E-3 | 355.80 | 375.30 | 390.30 | 405.60 | | | | | | | | | | |
| E-2 | 342.00 | | | | | | | | | | | | | |
| E-1 | 307.20 | | | | | | | | | | | | | |

* Limited under existing law to \$3000.

**Green Scene
Up-Dates Korea**

(ANF)—"The Green Scene" is a special film-magazine series the Army has for today's young soldier. It lets him know where the action is and what the Army is doing to benefit him.

Number six in the series takes a look at the new NCO Professional Education system, and has some good advice on securing valuables in barracks. Then too there is an up-date on Korea.

"The Green Scene" is available through the Audio Visual Support Center in Building 3522. The telephone extension for the Film Library is 876-1472.

**Big Increase
In Vet Training**

(ANF)—In the last couple years, many ex-servicemen have been taking advantage of G-I Bill training in public service occupations.

For example, in the last fiscal year, more than 48-thousand veterans trained for protective-service careers—jobs such as policemen and firemen. That's a 27 per cent increase over the previous fiscal year.

Altogether since the program began, 80-thousand veterans have completed training in public service occupations.

Woman Vets Get Same Rights

(ANF)—Here's some good news for women in the military to keep in mind: A married woman veteran is entitled to the same G-I Bill rights as a married male veteran. When using her education benefits, a woman veteran can claim her husband as a dependent—which means additional G-I Bill allowances for her.

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RETIREES AT CHRISTMASTIME—Bill Jann, right, Deputy Project Manager, Pershing, wishes C. R. Stump and his wife, Kate, a happy retirement, as V. B. Robertson, left, Chief, Program Management Office, echoes the sentiment. Stump is retiring with 28 years service and has been with Pershing since 1962.

Pioneer Missileman Retires

"A lot has happened since I came to Redstone 20 years ago when there were only two or three thousand people here. Huntsville was a sleepy little town of about 16,000 people.

Redstone Arsenal and Huntsville have really grown up since then," recalled C. R. Stump, Chief, Plans and Programs, Pershing Project Office, who is retiring with more than 28 years service.

"I was assigned to the Nike-Ajax program and we were down in old building 681. It was just an old warehouse with no partitions and you could see the bare rafters overhead. In the summertime when it was hot they cooled the building by running water on the roof. Later the building was remodelled and became the Supply and Maintenance Directorate," he said.

For Stump, working at Redstone has been a succession of missile systems and experiences that he will never forget. After working on Nike - Ajax, he moved over and became project coordinator for

Corporal and LaCrosse. . . then came Redstone, Jupiter and finally Pershing.

According to Stump, "One of the highlights of my life has to be when I was on the team that launched Explorer I, the first American satellite to go into space. The Navy was working on the project but had trouble with their launch vehicle. Then they turned to the Army and gave us a 90-day deadline to launch the satellite. We used the Redstone as a launch vehicle and made the deadline. . . It was one of the happiest times of my life."

Stump moved into the Pershing Project Office in 1962. He has been there ever since and is proud of the fact that he has seen Pershing develop from the I to the IA.

Though Stump is retiring, he is staying close to Redstone Arsenal. The Stumps purchased a travel trailer and plan to spend several months a year on the road traveling around the country. Once he settles in retirement, Stump plans to enter business in Huntsville.

"We really like Huntsville and the people we've met. We raised our children here and have close ties in the area. Our son Charles, works for National Aeronautical Space Administration; James works for an aircraft engine company and our daughter, Terry is married to an Army Sergeant at Fort Hood, Texas. It has been a happy time, but we are glad to be retiring," Stump said.

MICOM Military Briefs

Promotions

PFC Gill Sanders to SP4
SP5 Charles Brakebill to SP6
SP4 Terry Disney to SP5
All are assigned to RASA.

Re-enlistments (First Term)

SP5 Kenneth Marvel 95th SVC
Company 5 years
SP4 Alton Vandergriff HHD
MICOM 6 Years

Re-enlistments (Career)

SFC Duane Brouse, RASA, 6 years
SFC Harry West, HQ MICOM, 6 years
SSG Roy Young, HQ MICOM, 6 years
Sgt Lorenze McCoy, 291st MP Co. 3 years
SP6 Arthur Reed, Jr., 95th SVC Co., 3 years
SFC Earl Warmath, 95th SVC Co., 4 years
SFC Eugene Stanlake, 95th SVC Co., 4 years

New Assignees

SP4 Donald Robertson
Pvt Harry Thomas
Pvt John Nehrt
Pvt Robert Nehring
Pvt Gary Morgan
Pvt Charles Arnold
SFC Earl Abernathy
SP4 Larry Wentzel
SP5 Kenneth Lambert

SP4 Joseph Cochran
SP4 Timothy Brackett
SFC James Green
SFC J. T. Cartee
SP5 Warren Hargis
SP5 Johnny Lanier
Pvt Robert Starkey
PFC Kenneth Smith
SSG Hassell McDaniel
SP4 Donald Guthrie
SP5 Charles Yarbrough
SFC John Cline
Sgt Robert Bradshaw
Pvt Richard Newman
Pvt Jerry Thomas
SP6 Ronald Yeager
Sgt James Walters
SP4 Gerald Dwyer
SP4 Maurice Balkum
SP4 Douglas Manion
SP4 Charles Myrick
PFC Phillip Humphrey
SP4 Rodney Hoover

MEDDAC

SSG Frank Turewicz
Pvt Richard Burk
Pvt Anthony McDowell
SP4 Winfred Goddard
SP4 Gerald Haws
SP4 Randall Jones
PFC David Shroat
Pvt Sidney Hanna



Got An Idea?

(ANF)—How'd you like some extra money? Well, the Army wants to give it to you—through its "Suggestion Program."

In the last fiscal year, the Army paid almost \$2 million in cash awards to soldiers and D-A civilians who suggested more efficient and economical ways of doing things. So, if you think you've got a good idea, pick up a D-A form 1045 and put your suggestion on paper.



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Answers

(Editor's Note: The MICOM Information Office conducts a question and answer program for job-related questions of general interest. Such questions may be telephoned to 876-4161 or 876-4400, or mailed to AMSMI-G. Some questions are selected for publication in the Rocket. Names are withheld. It is not intended that this program take the place of the usual supervisor-employee relationship which is the proper channel for specific job-related questions.)
This column will not accept questions from individuals who refuse to give their name and return telephone number.

QUESTION: Our primary function is to deploy missile systems worldwide. If the employee refuses to perform TDY in a war zone, can the supervisor give him a reprimand?

ANSWER: Chapter 3, Part A, C3002, of the Joint Travel Regulations provides that: "Selection of employees for temporary duty assignments will be based upon official necessity and qualifications of the individual to best perform the service required without regard to sex, race, religion, or national origin. So far as necessary in the full performance of their position duties, employees are responsible for responding to temporary duty assignments in the same manner as to duties at their permanent duty stations." Provided the foregoing criteria are met and employee has been properly directed to perform TDY in a war zone, his failure to comply could result in disciplinary action for failure to observe an order prescribed by competent authority.

QUESTION: Will you provide a breakout list of all Missile Command civilian employees by grade and a separate breakout by grade of these same MICOM GS civilian employees who are retired military?

ANSWER: Here it is:

| GS | No. | Retired Military |
|----|------|------------------|
| 1 | 2 | 0 |
| 2 | 129 | 1 |
| 3 | 266 | 4 |
| 4 | 646 | 17 |
| 5 | 647 | 5 |
| 6 | 242 | 1 |
| 7 | 266 | 7 |
| 8 | 49 | 0 |
| 9 | 675 | 16 |
| 10 | 16 | 2 |
| 11 | 1057 | 64 |
| 12 | 1314 | 69 |
| 13 | 951 | 28 |
| 14 | 342 | 5 |
| 15 | 141 | 1 |
| 16 | 9 | 0 |
| 17 | 1 | 0 |
| 18 | 0 | 0 |

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Engineer Earns His Doctorate

Gary (W. G.) Briscoe, an electronic engineer in the Radar Technology Branch of the Advanced Sensors Directorate, recently received a Ph. D. degree in electronic engineering from Vanderbilt University where he completed his on-campus work in 1969.

Dr. Briscoe's dissertation, "Computer-Aided Optimization of Microwave Circuits," covers some job-related work in the laboratory. He was principal investigator for in-house design and development of an advanced, solid-state receiver for the experimental array radar test bed.

Originally from Haleyville, Ala., Briscoe studied at the University of Alabama to obtain his master's and bachelor's degree. He has worked in the Directorate for Research, Development, Engineering and Missile Systems Laboratories nine years. Recently, he submitted an invention disclosure for a tandem mixer circuit for a radiometer receiver.

Briscoe is a member of Eta Kappa Nu and Pi Mu Epsilon. He is also chairman of the Huntsville Chapter of IEEE Microwave Theory and Techniques Technical Group.



Briscoe

at the receiver of the experimental array radar

There are now three Ph. D.s to complete dissertations and examinations by 1974.



KEEPING REDSTONE BEAUTIFUL—When thoughtless people throw trash and refuse from their cars, it frequently ends up in the ditches and streams running through the Arsenal. Howard Gaines and Oliver Ausley of the Roads and Grounds Branch, Facilities Engineer, sometimes use a john boat to pick up the mess and help keep Redstone beautiful.

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In This World Of Pets

She Is Possum But Doesn't Know

Susie Amanda is an eight months old O'Possum, but she doesn't know she is an O'Possum because she's never lives in the woods. Susie is a pet belonging to Mrs. Nellie Gardner, a Clerk Typist in the Equipment Management Branch, RASA.

According to Mrs. Gardner, "Susie is just like a member of the family and we think she is an ideal pet. She is clean and lovable and really not as much trouble as a cat or dog. We never take her outside unless we have her collar and leash on. Susie uses a regular cat litter box, doesn't chew or mess up the furniture and we just love her."

Though she is only eight months old, Susie is a celebrity in her own right. Last September she was entered in the Possum Fair at Clanton, Alabama, and won a third place ribbon competing against other possums in her class from all over the United States, Canada and Mexico.

During the fair, Susie associated with the royalty of the Possum world. One champion possum was auctioned off to a company for a record price of \$10,000.

When the Shriners held their annual parade in Decatur, Susie was the first female of any species to participate. She rode in the back of a pickup truck perched on the shoulder of a Shriner who was known as Keeper of the Possum. After the parade, Susie was a star attraction with children and grownups alike wanting to see and pet her.

Contrary to the popular belief that possums love sweet potatoes, Susie doesn't even like them. Some of her favorites are cabbage, apples, cat chow, chicken, hamburger and french fries and just about anything else she can beg. Since possums are nocturnal creatures, Susie sleeps in the daytime and prowls around the



I WON A RIBBON—Mark Gardner, 11, holds Susie, a possum and the family pet, as she admires the ribbon she won at the Possum Fair. Mrs. Nellie Gardner, a Clerk-typist, in the Equipment Management Branch, RASA, holds the ribbon and the family certificate that makes them members of the Possum Growers and Breeders Association of America.

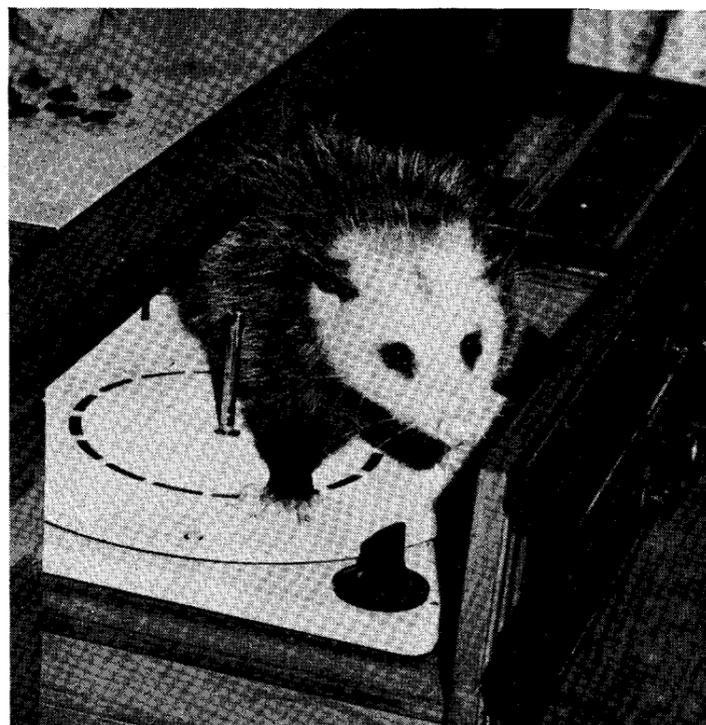
house at night. Her favorite sleeping place is on the turntable of the lowboy stereo set. She just pulls out the drawer and curls up on the turntable. So far she hasn't tried to take a nap while there's a record on... and her use of the turntable as a napping place hasn't affected the quality of the music.

Mrs. Gardner's husband, Hub is a member of the Possum Growers and Breeders Association of America, and one of these days Susie will be the mother of her own clan.

"Susie gets along fine with

people. She likes to be petted and has never tried to scratch or bite anyone," Mrs. Gardner said.

Though Susie may like everyone, she doesn't care much for those people who put bumper stickers on their cars reading, "Eat More Possum."



IT'S A GOOD SPOT—Susie the possum, gets ready to settle down on the turntable of the family stereo for a little nap. This is her favorite napping spot, and according to Mrs. Nellie Gardner, Susie's use of the stereo hasn't affected the quality of the music at all.

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“One of the great things about the Army is that you meet a variety of people from all walks of life. Every day you meet somebody new and interesting and you get to know them and like them. To me that's important.

“I've worked hard at my job and I'm proud to say that I have always had 100% graduation in my classes. I feel good about that.”

The Army is giving Sergeant Russell plenty of opportunity for job satisfaction.



The Army gives a man a lot of other opportunities, too. Job and educational opportunities. With the hundreds of jobs in the Army, there's bound to be a dozen or so that will give you the kind of challenge you're looking for.

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3. Miscellaneous

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Periodic Check May Help Later

(ANF)—What's in a number?—Well, quite a lot when it happens to be your social security account number.

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So to help avoid inconvenience **Promotion Delay Awaiting Budget**

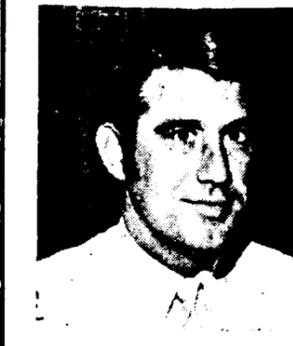
(ANF)—Many servicemen expecting promotions in the next few weeks will not be getting them. There's a promotion freeze that'll be in effect until a new military budget is passed in congress—possibly sometime in January.

However, there are some exceptions to the freeze. For example, permitted are promotions "By Law"—such as officer permanent promotions and assignments to position carrying a grade specified by law.

Also not affected by the freeze are the promotions of P-O-W's and M-I-A's . . . or of persons completing training courses leading to "Promised" promotions, such as R-O-T-C and Warrant Officer programs.



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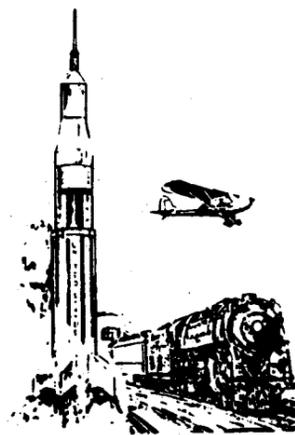
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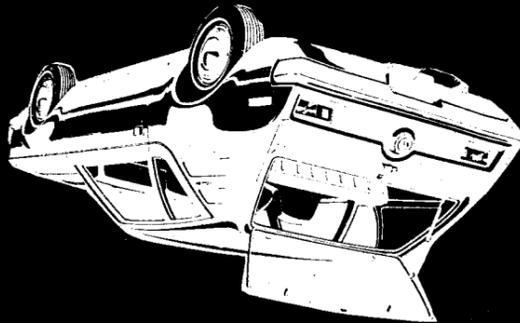
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Mercedes-Benz announces precisely the kind of model change you expect from Mercedes-Benz.



Mercedes-Benz 280 Sedan isn't just a changed car; it's an improved car.

MODEL CHANGES at Mercedes-Benz are inspired not by the trends of fashion but by the thrust of engineering progress. One such change becomes official today: the Mercedes-Benz 250 Sedan has evolved into the 280 Sedan—without stretching the body one inch or stooping to the slightest hint of styling trickery.

The technical improvements that inspired this change will set the 280 further apart than ever from other cars in its class.

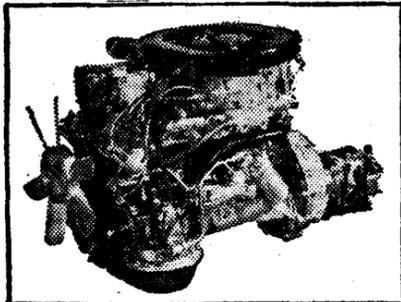
Should you invest your \$8,875* in the 280 Sedan? Study its engineering refinements. Weigh all the facts. Measure this car's performance against your needs—then decide.

Remarkable new engine

The engineers hid the 280's biggest news under the hood.

Fresh from a long laboratory incubation is a new 2.8-litre *double-overhead-camshaft* engine. Hemispherical combustion chambers, 2-stage dual compound carburetor—this lovingly assembled Six could be mistaken for a high-performance sports car engine. (Note that it revs up to 6500 rpm.)

"The crankshaft is something of a masterpiece," reports Britain's *Autocar*



New engine boasts double overhead camshafts.

magazine, "running in seven main bearings, and every one of the twelve webs incorporating a counterweight." The goal: low engine vibration.

The men who designed this engine aimed for *efficiency* instead of brute power. You get the running smoothness you expect from a car of this class. Something you may *not* expect from a car of this class: the 280 engine's restrained appetite for gasoline.

As agile as before

That engine can be lighter and less bulky than those used in other \$8000 sedans because the 280 Sedan itself is lighter and less bulky.

It is an engineering fact that the top 3 domestic "luxury" sedans all weigh at least half a ton more, and measure a full 3 feet longer, than the 280 Sedan. Scant wonder that they use those huge V-8 engines.

Yet the extra bulk of these larger cars seems more a matter of show than extra

roominess: the 280 matches them for interior space—and actually exceeds them in trunk capacity.

Those \$8000 "luxury" sedans are impressive standing in a driveway. But compare driving them with driving the 280 Sedan, out in the real world.

You'll discover that the 280 twirls through a turning circle of only 36.4 feet (about the same as a little VW 1200 "Beetle"). Those larger cars don't.

The 280 nips into parking spots those hefty sedans have to pass up.

And you'll slip through holes in city traffic where dreamboats dare not go.

Fully independent suspension

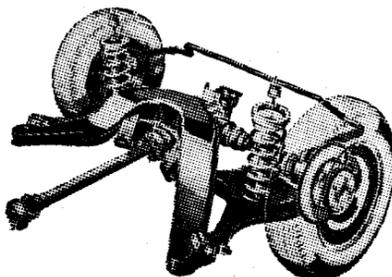
Let others brag about how big and ornate their cars are. You can brag about how well your 280 Sedan handles.

"...the most controllable high speed sedan we've tested."

That was *Motor Trend* magazine's reaction to the 250 Sedan; and the 280's handling is unchanged.

This is because its superb suspension is unchanged: a four-wheel, fully independent system with a diagonal-pivot rear swing axle. Gas-pressurized shock absorbers and anti-sway bars front and rear are standard components. Also standard: 175 SR/14 *radial-ply* tires on wheel rims 5½ inches wide.

The engineers fitted an additional shock absorber to the 280, in an unusual spot—the steering system.



Unchanged: independent rear suspension.

Instead of squandering your money on hollow sheet metal and styling that is soon passé, you invest it in fundamental

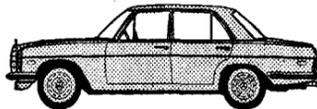
engineering with the 280 Sedan.

The body of your 280 is an all-welded steel structure so strong that a separate frame is redundant. That *body* is the frame.

Precious weight is saved. Enormous strength is built in. Bolts won't tug loose over the miles because there are no bolts.



1973 domestic luxury sedan



Mercedes-Benz 280 Sedan

280 offers the luxury of efficient size.

Run a finger over the finish. You will *feel* why it took several hours to paint, bake, and polish to that high gloss. Numerous outer body seams were filled and made invisible before painting.

When you buy an \$8,000 automobile, you deserve such fastidious touches.

4-wheel disc brakes

You get four-wheel disc brakes on your 280 as standard equipment.

Consider that the front brake discs measure almost 11 inches in diameter, virtually the same size as the front discs on the famous Mercedes-Benz 450SL sports model. The 280's brakes are power assisted, of course; another standard equipment feature.

4-speed automatic shift

Your 280's automatic transmission is so quick-shifting that even sporting drivers have expressed surprise—and approval. You can set it in *DRIVE* and leave it there; you can also shift through the forward gears by hand.

The padded shift lever sits within easy reach on a central console. (If you prefer, a column shift lever can be fitted at no extra cost.)

You are not charged extra for this

automatic transmission, or for power steering and power brakes, or for an electrically heated rear window. They are all part of the 280's base price.

Even air conditioning falls under the heading of standard equipment. You'll count four separate outlets on the instrument panel—two for the driver, two for his front-seat passenger.

Comfort not forgotten

The painstaking Mercedes-Benz engineers found one subtle way after another

Mercedes-Benz motor cars: from \$15,094* to \$6,345*

Mercedes-Benz offers a vast range of models. Here are suggested retail prices for 7 of the most popular types:

| | |
|----------------------|----------|
| 450SLC Coupe | \$15,094 |
| 450SL Coupe/Roadster | \$11,688 |
| 280SE 4.5 Sedan | \$10,283 |
| 280 Coupe | \$ 9,518 |
| 280 Sedan | \$ 8,875 |
| 220 Sedan | \$ 6,560 |
| 220 Diesel Sedan | \$ 6,345 |

*East and Gulf Coast ports of entry, exclusive of transportation, other options, state and local taxes, if any. Copyright 1972, Mercedes-Benz of North America, Inc.

to make the 280 an eminently livable machine.

You sit high enough to see the road ahead. Large glass areas enhance visibility. Your body is supported firmly in seats built around a network of coil springs, not cheap foam rubber.

You needn't fumble around to find the headlight dimmer switch or windshield wiper and washer controls. They're a fingertip away in a pod on the left of the steering column; you can work them without taking a hand off the wheel.

More than status

The new 280 Sedan is plainly not \$8,875* worth of bigness, or styling, or status. Buy it and you buck the trends of the "luxury" class head-on.

Your satisfying reward: ownership of a precision machine engineered to outlive trends. One test drive will confirm your wisdom in choosing it.

Arrange with your authorized Mercedes-Benz dealer to take that test drive soon. For more useful facts about the 280 and other models, clip the coupon and mail it today. You will receive a free color brochure.



Please send me your full-color brochure of the Mercedes-Benz motor cars.

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