

The Redstone Rocket

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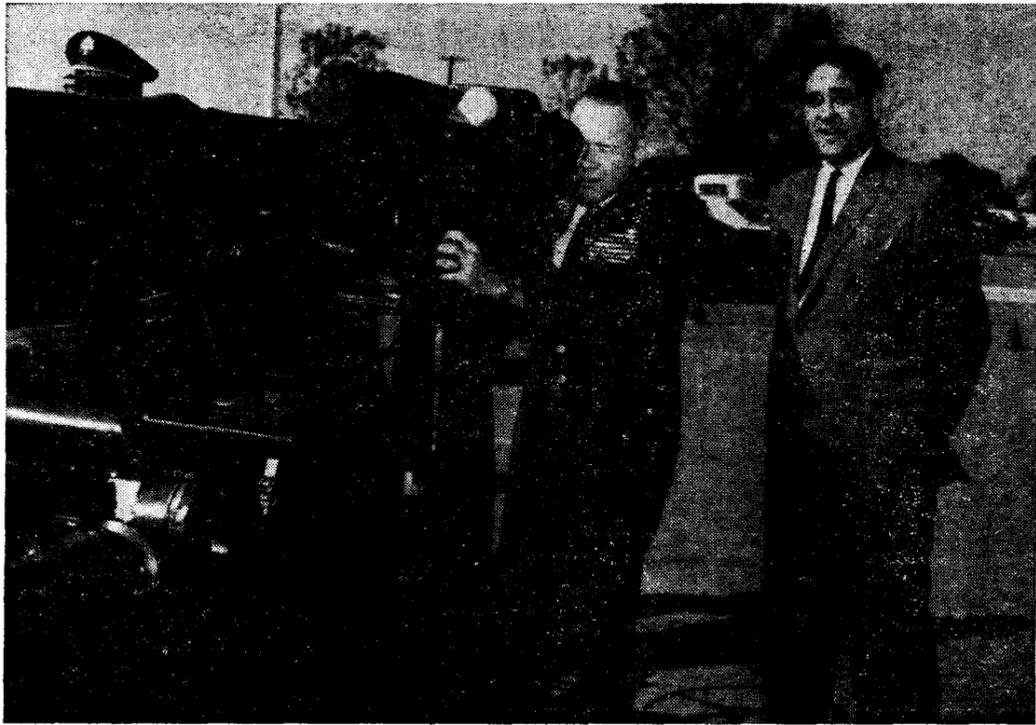
REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

OCTOBER 22, 1969

Arsenal-Wide

Spot News

Dial 112



TRACKING WITH TOW—Brig. Gen. John W. Barnes, left, looks through the sights of a TOW mounted on an Army Mule as Robert P. Whitley, Deputy Project Manager for TOW gives his briefing. General Barnes is Director of Developments and the Deputy Chief of Research and Development for Southeast Asia, Office of Research and Development, Department of Army. He received a briefing on TOW and other weapon systems of the Army Missile Command, during his recent visit to Redstone Arsenal.

DR. JULIAN S. KOBLER NAMED DIRECTOR, RSIC

Dr. Julian S. Kobler has been named director of the Redstone Scientific Information Center in the Research and Engineering Directorate of the U. S. Army Missile Command.

Until his recent appointment, Dr. Kobler has been Deputy Chief of the Technology Planning Office, Future Missile Systems Division of the Directorate.

He came to Redstone Arsenal from the Naval Weapons Plant in 1960 as technical advisor in the Structures and Mechanics Laboratory of the Directorate.

A registered professional metallurgical engineer, Dr. Kobler received his degree as a Doctor of Jurisprudence in 1968 from Rutgers School of Law where he had earned his Bachelor of Laws degree in 1952.

In Philadelphia, where he graduated from High school, Dr. Kobler received a certificate in metallurgy; from Temple University and his Bachelor of Arts degree in metallurgy from the University of Pennsylvania in 1947. He also worked as a research engineer while in college.

Among Dr. Kobler's many awards from the Army is the Certificate of Achievement, the highest award that can be granted by an activity commander.

He is the author of a number of technical articles and a member



DR. JULIAN S. KOBLER

of a number of professional societies including the American Welding Society, the American Society for Metals, the American Society for Testing and Materials, the American Institute of Mining and Metallurgical and Petroleum Engineers, a fellow in the American Association for the Advancement of Science and a member of the Society of Aerospace Materials and Process Engineers.

Born in New York City, Dr. Kobler now lives in Huntsville, Alabama.

Design Of Experiments Seminar In Session Here

"Techniques for evaluating performance of complex systems" was the theme as scientists, educators and consultants gathered at Redstone Arsenal today for talks with the Army.

Occasion for the get-together was the 15th conference on the Design of Experiments in Army Research, Development and Testing.

Brig. Gen. George H. McBride, Acting Commander of the Army Missile Command, which is hosting the three-day conference, welcomed attendees this morning at Rocket Auditorium.

One of the highlights will be a banquet Thursday night at the Redstone Officers Open Mess. Guest Speaker will be Dr. Oskar Morgenstern, Chairman of the Board, Mathematica, and Professor of Political Economy at Princeton University.

Winner of the Fifth Samuel S. Wilks Award will be announced that night by Dr. Frank E. Grubbs, chairman of the conference. This

award is given annually in recognition of an outstanding contribution to advancement of scientific or technical knowledge in Army statistics.

Several distinguished scientists will present papers. Among them:

Dr. John E. Condon, Director, Reliability and Quality Assurance, NASA, whose topic is "Reliability Applied to Space Flight"; Dr. Nancy R. Mann, Rocketdyne Corporation, on "Systems Reliability"; Dr. Clifford J. Maloney, Department of Health, Education and Welfare, "A Probability Approach to Catastrophic Threat"; Prof. Richard G. Krutchkoff, Virginia Polytechnic Institute, "The Empirical Bayes Approach to the Design and Analysis"; Dr. S. C. Saunders, Boeing Company, on "Confidence Limits for Performance of a System When Few Failures Are Encountered."

A two-hour tour of Army and NASA facilities is planned for the group Friday afternoon.

Signs Bill

President Nixon late Monday signed the liberalized civil service retirement bill approved by Congress early in October. It is effective immediately.

Two main benefits of the measure are:

- (1) Computing annuities on the basis of a high three year salary average, and
- (2) Crediting unused sick leave for additional length of service. Each 22 days of sick leave would be counted as one month of service.

In addition, persons retiring before Nov. 1, would receive a five percent cost-of-living bonus.

Paludan To Speak At Dinner Meeting

Charles T. Paludan, chief of the measuring instrumentation branch of the Astrionics Laboratory at MSFC, will address the Instrument Society of America meeting Tuesday following dinner at 7:15 p.m. at the Russel Erskine Hotel.

His topic is "Potential Contributions of Orbital Earth Resources Data to Urban Planning." Reservations are being handled by Earl Hutchison, 453-4981.

Flu Shots Due To Begin At Several Locations

Got your flu shot yet?

If not, you'll have a chance to get one at several locations on Redstone Arsenal next week.

Occupational Health, (Redstone Arsenal Medical Department Activities), will begin its annual inoculation program for Army Civil Service employees, and military personnel, on Monday.

Shots will be administered free of charge.

Civilians must present at the time of inoculation a completed form (AMSMI-K Form 714) and show identification badges. (These forms may be obtained from administrative offices, or from Occupational Health officials at the time of inoculation).

Employees under 21, and not married, must have a release signed by parent or guardian. (The reverse side of AMSMI-K Form 714

may be used for authorization.)

Military personnel may receive inoculations at the times and buildings indicated.

Bus transportation may be arranged, where needed, by calling at least 48 hours in advance, W. O. Terry, Post Transportation, at 6-3341.

All those desiring inoculations should attempt to utilize sites nearest them.

Mon., 27 Oct.	Bldg.
0900-1000	7110
1300-1400	Lobby 5250
Tues., 28 Oct.	
0900-1000	7110
1300-1400	Cafeteria 4488
Wed., 29 Oct.	
0900-1000	7110
1300-1400	Cafeteria 5681
Thur., 30 Oct.	
0900-1000	7110
1300-1400	SAFSCOM

CFC SCOREBOARD

As Of October 20, 1969

	Cash Donations	Payroll Deductions	Total Funds
Army Activities	\$72,418	\$235,845	\$308,263
Marshall Space Flight Center	43,806	84,084	128,890
Economic Dvt Admin	144	275	419
Def. Cont Admin Svc Off	69	39	108
Civ Serv Comm	38	444	482
Grand Total	\$116,475	\$320,687	\$437,162

PERSONNEL STATISTICS

Total Personnel Assigned	21,205
Number Participating	15,843
Per Cent Participation	75%



EARN MASTER'S DEGREES—Carl Roberts, chief of the Research and Technology Office, and Larry H. Johnson, lead laboratory representative for the Dragon Project, both have earned Master's degrees in engineering at the University of Alabama in Huntsville recently. The Office is a part of the Test and Reliability Evaluation Laboratory of the Army Missile Command's Research and Engineering Directorate. (See Story on Page 4)

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., 35809, Bldg. 5250, Room A-130, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is 10 a.m. Monday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$7.42 a year, or \$4.00 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35640.

Rocket Ruminations

Government is a trust, and the officers of government are trustees; and both the trust and trustees are created for the benefit of the people.
—Henry Clay

Domestic Action—Can YOU Help?

Not all challenges to the military are on the battlefield. In Vietnam, thousands of servicemen have learned that Civic Action rates high on the list of military operations. Closer to home, nearly everyone is aware of the military's pioneering efforts in insuring equal rights and opportunities for servicemen.

Now, another challenging area has been singled out: Domestic Action.

This is not just a "hearts and minds" project. Domestic Action is designed to link the Defense Department's vast resources with those of other Government agencies and private institutions to overcome some of the serious domestic problems which face the nation.

The Chairman of DoD's Domestic Action Council, Roger T. Kelley, Assistant Secretary of Defense (Manpower and Reserve Affairs), sees Domestic Action as "a vital dimension of national security."

He says the military should and must be involved in programs that help fight domestic ills.

Mr. Kelley's enthusiasm is echoed by other Defense officials. And, perhaps more importantly, it is shared by the people who have Domestic Action programs in operation.

Camp Concern, for example, at the Naval Training Center, Bainbridge, Md., is now in its second year. Camp Concern is a massive summer program for underprivileged youngsters from Baltimore's poverty areas. It was initiated by the Navy and the Office of the Baltimore Mayor, with cooperation from the Department of Health, Education and Welfare and the Office of Economic Opportunity.

Camp Concern didn't grow into being just because someone picked up the battlecry "Domestic Action." It started because a command determined it had a responsibility and because it wanted to get closer to the people it serves: the American Public—the community.

For the people of Bainbridge, the key to success was initiative and a strong sense of purpose.

That same key is available to every serviceman. It needs only to be turned to put action into Domestic Action. We hear of Civic Action in the hamlets of Vietnam. At home it is Domestic Action. We all have a major share in this Country's welfare.

Learn what your base is doing in the Domestic Action area and see where you can lend a helping hand. The next step is up to you. (AFPS)



DISTINGUISHED GUEST—Col. Paul B. Schuppener, MMCS Commandant, presents Lt. Gen. Oren Hurlbut with a plaque on behalf of the school. Gen. Hurlbut visited the missile training facility Friday and addressed over 300 MMCS officers and guests here at a formal military dinner known in the Ordnance Corps as a "Dining Inn."



READY FOR CLASSES—Three students enrolled in the National Security Management Course are shown receiving their books. Left to right, John G. Ross, Land Combat Support System Product Office; Joseph M. Carlton, Marshall Space Flight Center; and Barbara S. Shroul, Comptroller and Director of Programs, Plans Division, Army Missile Command, receive their books from instructor, James G. Goodwin, a captain in the Naval Reserve, and Chief, New Equipment Training, Supply and Maintenance Directorate. More than 200 civil service employees and reserve officers are taking the course which will run for 64 two-hour sessions.

Missile Command Employees Work All Day And Go To School In The Evening

Three U. S. Army Missile Command employees are serving as instructors in the National Security Management Course currently being given selected civil service employees and reserve officers in the Huntsville area.

B. H. Keyserling, Product Assurance Engineer, Test and Reliability Evaluation Laboratory, Research and Engineering Directorate, and a Colonel in the Army Reserve, is course director and instructor for the pilot course which began in February 1969.

James G. Goodwin, Chief, New Equipment Training, Supply and Maintenance Directorate, is a Captain in the Naval Reserve and serves as an instructor or coordinator for the course.

Robert Lowery, Deputy Comptroller for Programs, Missile Command, is a Lt. Col. in the Army Reserve and the only member of the faculty to graduate from the nine-month on-campus course.

The other four members of the faculty are James K. Dawson and Jerry Klima, both Colonels in the Army Reserve and both employed by the National Aeronautics and Space Administration's Marshall Space Flight Center; Leonard Flank, Deputy General Counsel, Safeguard Command, and a Colonel in the Army Reserve; and William Terry, with the Training Division, U. S. Army Missile and Munitions Center and School, and a Colonel in the Army Reserve.

The National Security Management Course, normally a nine-month on-campus course, is being presented locally through the joint efforts of John Hinkle, chief, Training and Development Division, Civilian Personnel, Redstone Arsenal and Col. T. Martin Phillips, Commandant of the 3392nd U. S. Army Reserve School in Huntsville.

This course, administered by the Industrial College of the Armed Forces, is open to military officers of all components of the Department of Defense and the Coast Guard on inactive duty in the grades of Major through Colonel, and to civil service employees with grades of GS-11 through GS-15.

Plans for future courses call for the inclusion of civilian executives and members of the professions.

Reserve officers serving on the faculty and those taking the course receive point credit in the Reserve Program and a notation in their personnel files.

Civil service employees attend-

ing the course will have the appropriate entries made in their personnel and career guidance records.

There are approximately 200 students enrolled in the course which will cover 64 two-hour classes over a two year period of time.

Objectives of the USAR National Security Management Course are stated in-part as follows: "This is a basic course of instruction at the graduate level. It contains study material covering funda-

mental aspects of knowledge that are essential to manage national security effectively.

"It is selected and organized to provide a basic understanding of a wide area. It is not designed to train specialists in any particular field, but rather to impart knowledge and understanding of the economic and industrial aspects of national security and of the management of resources under all conditions in the context of both national and world affairs."

Number Ten in a Series—

"I Will Prepare Myself . . ."

By Mike Rothenberger
Staff Representative

Dale Carnegie & Assoc., Inc., New York.
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A farmer awoke one morning in the wee hours. He turned and tossed but he could not sleep because he was troubled. He was thinking about Old Sam, his old mule, out in the barn. Old Sam had been a faithful servant for many years.

He got out of bed, put on his clothes and went out to the barn. There, in his stall, stood Old Sam. His head hung low, his knees were bent and his back was swayed, from the many long years of hard work.

The farmer stepped up to Old Sam and gently slapped him on the back. He said, "Sam, for all these many years you have been my faithful servant; you have worked very long and hard but those days are past. You will never have to work again as long as you live because I am going to retire you, Sam. You can go to the meadow and have all you want to eat and drink. From here on it is all on me."

Sam was taken to the meadow and, as the days passed, he seemed to enjoy his retirement. Then, one day, he was missing. The farmer looked for him in every corner of the meadow but no place could Sam be found. The farmer thought

of the old abandoned well. Perhaps Sam had fallen into it. He rushed to the old dry well and, sure enough, there in the bottom of the well stood Old Sam; his head hanging low and his tail switching from side to side.

The farmer was bewildered. He could think of no way to get Old Sam out of the well, but he could not leave him there to starve, so he finally made a decision. He decided to get a shovel and just bury Old Sam in the well.

He threw a shovel of dirt into the well. It fell on Old Sam's back. The mule just shook the dirt off and stepped on top of it. The farmer kept throwing dirt on Old Sam, but each time the dirt fell Old Sam shook it off and stepped on top of it. Along toward evening the dirt in the well rose near the top. Old Sam stepped up out of the well and casually walked out across the meadow.

Surely we all experience setbacks and disappointments from time to time. The important thing is how we face them. We can stand still and let the dirt of adversity overwhelm us, or we can shake it off our backs, step on top of it and go on to enjoy the happiness of a rewarding life.

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Diabetes Group To Meet In Room 325

A meeting of the Huntsville Lay Diabetes Society is planned tomorrow at 7:30 p.m. in room 325 at the Madison County Courthouse (entrance through the basement garage).

Dr. John M. Ennis will speak to the group about skin problems common to diabetes.

**"Seize
this day.
It Will never
come again."**

—Dale Carnegie

In the endlessness of time, there is only one reality. That reality is called "Today." If you have been putting off the day when you start actively preparing yourself for a better job and a fuller life, remember: This day will never come again. Make this a day of decision.

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Wives Club Holds International Day Luncheon



JAPAN—Mrs. John Caulkins models a kimono from her native land. The parasol is authentic, too. The carved screen behind is Korean.

Guests Model Costumes

The Redstone Officers Wives Club was hostess to the International Wives Club during the luncheon last week at the Redstone Officers Open Mess.

In addition to the guests in costume, many of the wives club members modelled costumes from lands where they were guests while their husbands fulfilled assignments.

Special guests who modeled during lunch for the crowd of approximately 300 were Mrs. J. L. Webster and Miss Maria Eugenia Vasquez as a Guatemalan boy and girl; Mrs. Charles W. Albright, Germany, Mrs. V. L. Vadim, Russia; Mrs. Stanley J. Shaner, and Mrs. A. K. Rockefeller, Japan. Mrs. Juergen Haukohl served as commentator.

Treasures from many lands were on display on the lunch tables and as an exhibit along one wall of the main ballroom.

Wives of officers assigned at the Missile and Munitions Center and School were in charge of the arrangements.

TOUR TO TENNESSEE

The Service Club tour will be in the Henry Horton State Park near Lewisburg, Tenn., the site of the former Governor Henry Horton estate.

Duck River, bordering the park furnishes opportunity for boating, fishing and picnicking. The park has nature trails and family campsites. Both are popular with the outdoor minded.

The bus will leave the Service Club at 9 o'clock Saturday morning. A picnic lunch will be furnished.



NIGERIA—Mrs. James E. Taylor wears a Nigerian costume with authentic 18 karat gold jewelry. The costume and figures on the table belong to Mrs. Kaye Gooch.

Two Receive Master's Degrees In Engineering

Two members of the Test and Reliability Evaluation Laboratory of the Research and Engineering Directorate at the Army Missile Command recently received Master's degrees in engineering from the University of Alabama in Huntsville.

They are Carl Roberts, chief of the Research and Technology Office, and Larry H. Johnson, presently working as lead laboratory representative for the Dragon Project.

Roberts obtained his Bachelor's degree in mechanical engineering from the University of Tennessee at Knoxville. It took him almost six years to complete his work

for his Master's because he stopped in the middle to build a house in Huntsville in the Brookhaven area. His thesis, like his work, covered "Testing."

Johnson, a graduate from the Texas Technological College, came to Redstone first as an enlisted man in the professional and scientific program. When his tour was complete, he went to California to work in the oil fields, (his degree is in petroleum). In a short time the heat on the California desert became unbearable and he returned to the green fields of Alabama.

He wrote his thesis for his Master's degree on "Probabilistic Approach to Manpower Planning."



IRAN—Mrs. Preston Cannady is in a Kurdish ceremonial costume she purchased in Iran. The items on the table are a part of her collection from that land.

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**MISSILE & MUNITIONS
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NAMES IN THE NEWS

by SP5 Ted Beattie

With two high ranking Army generals visiting MMCS this month, the school's protocol office has been a busy place planning tours and arranging escorts.

It all started last Friday when Lt. Gen. Oren Hurlbut arrived from Washington, D. C. The General is the Army member of the Joint Logistics Review Board in the Pentagon. He spent the day touring the school's missile training facilities and then addressed a group of 300 young officers at a formal "Dining In" held in the Officers Club.

The three-star general arrived at Huntsville's Jetport and was greeted by his host Col. Paul B.

"Oktoberfest" which includes a menu of such Bavarian favorites as sauerbraten, rutkohl, spatzle, kassler rippen, sauerkraut, kartoffelknodel, bratwurst, kartoffelsalat and dessert of apetlkuchen.

The festivities get underway at 6 p.m. in the NCO Club. Don't forget—that's this Saturday.

"Auf zum" at the "Oktoberfest."

Retirements

Nine of the school's non-commissioned officers conclude their military careers this month during retirement ceremonies next week.

CSM O'Day Fontenot, Jr., 1st Battalion's command sergeant major since early last summer, concludes 22 and a half years of military service. He will move to the southern part of Alabama and make his home in Dothan. DIT's sergeant major, SSM Henry D. Keever will be staying in Huntsville following retirement this month after almost 32 years of Army duty.

Also departing the active duty ranks will be MSG Robert M. Henderson who has been assigned to the Land Combat Department of DIT. He too, will be making his home in Huntsville after retirement.

Other retiring senior enlisted men include SFC Charles F. Babine (Ammunition Department) with 21 years service, SFC Raymond B. Eigenbrode (Operations) with 20 years service, SFC Lewis G. Harkness, Jr. (Hawk Division) with 20 years, SFC William S. Kyle (Pershing Division) with 24 years, SFC William K. Perry (Land Combat Department) with 24 years, and SFC William R. Walsh (Operations) with 21 years.

Blood Donors

Results of the September visit of the Red Cross Bloodmobile are in and the 7th ETC has done it again. I have lost count of the consecutive number of months that the 7th has won the Category I trophy, but it seems each month the results are always the same.

Capt. Crowe and Lt. Sato have a large collection of trophies in the 7th's orderly room. During September 123 7th ETC soldiers donated blood which amounted to 91 percent unit participation.

The category II trophy went to the 200th Ordnance Detachment. They had 17 donors for a 65 percent unit participation.

The missile school also led all Redstone organizations in total donations contributing 364 pints of

blood. This is 119 pints over its quota.

Re-up News

Those VRBs play a big part in the MMCS reenlistment programs. The missile school seems to be the center of those maximum \$10,000 re-up bonuses. In one of his duties as commanding officer of the 116th Ordnance Detachment, Capt. Bill Gossman read the oath of enlistment to three of his soldiers Thursday morning.

The short ceremony benefitted the three soldiers to a total of \$27,000. SP5s Jimmie Lands and Vernon Hessey collected the \$10,000 bonuses while SP4 Eric McNeill picked up a check for a cool \$7,000. All three men have been on active duty approximately two years and decided to add six years to their present enlistments. The UTC soldiers are assigned to the detachment's Land Combat Systems Support department.

Stationed at Indianhead, Maryland with EOD's Detachment No. 1, SP4 Robert Bronson changed his enlisted reserve status to RA with a three year enlistment. SFC Doyle Brewer, assigned to the 91st Ordnance Detachment, added three years to his Army career of 18 years.

Four Bravo Company soldiers took the oath of enlistment from their commander, Capt. Michael Miller last week. A Missile Components Department NCOIC, MSG Frank Catalon, "re-upped" for three while MSG Billy Prysock also signed on the dotted line for three more years of Army duty. A 15-year Army veteran, MSG Prysock is an instructor in the Ammunition Department. SSG Jesse McPeake also reenlisted in the B Company orderly room for another four years of duty. SSG Francis Watts, Bravo's supply sergeant, will be going to an assignment in Europe with his recent six-year enlistment.

One of Delta Company's mess stewards met with Capt. Pope Thursday morning to take the oath of enlistment. SSG Edward Pinkley, the steward in mess haul No. 4, will have 22 years service to his credit when he completes his new four year enlistment.

A student assigned to the 6th ETC, SP6 Robert Murphy will complete 17 years of service when he completes his six years reenlistment.

New Officers

Six new officers reported for

duty at the missile school last week. Capt. Joseph Whitaker starts his new position in OTD this week while Capt. Charles Mitchell begins his duties in the Plans and Op Division of Operations. Other new officers include 1LT Kenneth Kaiser, 2LT Thomas Petry (student in 4516 course), 2LT Anthony Gish (116th Ordnance Detachment) and WO1 Walter Heizman who just arrived from an assignment in Europe.

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**GEN. WOOLNOUGH TO VISIT
MMCS THIS FRIDAY**

Schuppener, commandant at MMCS, and Brig. Gen. George H. McBride, acting commander of Redstone.

Scheduled to arrive this Friday is Continental Army commander, General James K. Woolnough. The four-star general comes to Redstone with the purpose of touring MMCS and talking with the school's top officials.

NCO Feast

Here's a chance to get some of that good Bavarian food. Saturday night the NCOs are putting on an



CW4 JAMES A. McCAWLEY receives the Meritorious Service Medal from LTC Matthew Thome, UTC Commander, during ceremonies recently at the missile school. CW4 McCawley was presented the award for his meritorious service of duty during his tour in Germany with the 138th Ordnance Company from July 1966 to June 1969. He was the Chief of the Quality Control Section of his unit.

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In Pee Wee Football

Rebels Nearing Twin Championship Season

Most football teams are well satisfied with winning a league championship but not so the Redstone Rebels, an ambitious band of dependent youths who are well on their way to winning two titles.

The 70-pound youths, under the direction of Jerry Willis and Don Hacker, have won six straight games in the Huntsville Parks and Playground league and duplicated the feat in sweeping through action in the Brindle Mountain Pee Wee football league.

The only blot on a perfect slate for the youths is an early season tie in the Mountain league.

Last week the Rebs chalked up their sixth wins in each league. Monrovia was the victim in a P&P game last Tuesday, 20-0. Union Chapel found stopping the hard charging Rebs almost impossible on Saturday and fell to a 22-0 setback.

In other pee wee games last week involving Redstone youths, the Blue Devils fought to a 6-6 deadlock in a P&P battle against Western, and the unbeaten Raiders mauled Grassy, 38-14, in a 130-pound Mountain game.

The Rebels and Monrovia battled through a scoreless first half with neither team being able to mount much of an attack. But soon after play resumed in the second half Larry Silence and Ronnie Hollingsworth got the Rebs ground

game rolling and Silence crashed over from the five.

Bobo Bearden and Sanford Merrill added six-pointers in the final period the latter on a 58-yard return of an intercepted pass.

Hollingsworth handled the scoring in the Saturday win charging into the end zone from 45, 28 and 5 yards out.

The Blue Devils had to come from behind to get a tie after the Western youths scored midway through the second quarter. The equalizer came on a fourth period 30-yard scoring pass from Richard Jefferson to Mark McKnight.

The Raiders marched 59 yards for a score the first time they had the ball, and then proceeded to put on a devastating ground attack that accounted for 266 yards. Another 88 yards on seven of eight pass completions gave the Raiders 354 total yards

Paul Fortson swept end for the first score and minutes later scored his second on a 13-yard burst off tackle. After Grassy scored in the second quarter, Fortson went back to work with a 64-yard scamper for his third touchdown.

Mike Johnson climaxed a 67-yard march with a sneak from the one and ended the Redstone scoring with an 18-yard pass to Fortson.



MEDARIS TROPHY—Lella Mullins (left) receives the Ginna Medaris golf trophy from Midge Clisson, chairman of the annual tournament among members of the Redstone Arsenal Officers Wives Golf Group. Mrs. Mullins name will be permanently engraved on the cup which remains in the Golf clubhouse permanently. Winners were presented crystal.

Mullins Takes Ginna Medaris Trophy

In the recent Ginna Medaris tournament among the golf group sponsored by the Redstone Officers Wives Club, Lella Mullins was medalist and champion.

Winner of the championship light was Clara Miller with Mae Levaas in the runnerup slot. Mullins was in the first flight with Mimi Diehl in second place in the light.

Billy Shuput won the second light with Louise Hix the runnerup

and Patch Allen was low scorer in the third flight while Ginny Bowlers was in second place.

Erline Dials Low Scorer For Week

Erline Dials had low gross in the golf competition last week among members of the group sponsored by the Redstone Officers

Wives Club. Runnerup was Mae Levaas.

Mini Diehl shot low net with Alma Hendley and Billy Shuput tying for second place. Carol Sacuzo and Jean Cobb shared honors for low putts.

Makanani Posts New Season High

Before last week's action 617 was high individual scratch in the MMCS Bowling League.

But just as 616 fell by the wayside, 617 has taken a back seat to a new record—a 624.

The series was rolled by Larry Makanani of the seventh-place retired team.

A pair of 200-games coupled with a 173 enabled the 187-average bowler to post the new high.

In addition to hitting the high series for the night, Makanani also topped the 200 bowlers with a 236.

In team action, Big D maintained their slim hold on first place with a three-point win over the Five Aces (15-13). Bud Griffin paced the Big D quint with a 538 series. Big D is now 23-5 in the seven-week-old league.

Chargin' Charlie dropped three points to UTC. The loss dumped the defending champions to third place while UTC is in a three-way tie for fourth with Company B and 200th Ordnance. All have 18-10 records.

Headquarters Company (21-7) took over second place by taking three points from sinking Company A (16-12). Mike Katz and Bill Snow rolled the big ones for Headquarters by shooting 569 and 523 respectively. Ed Gorzynski had 510 for Company A.



TENNIS AWARD WINNERS—Len Twinem, chairman of the Civilian Welfare Fund Council (far right), handles the presentations as the trophy winners in the recent season-ending tennis tournament

claim their awards. They are, left to right, John Veeneman, Bob Lindeman, Joe Mitchell, Irv Kellogg, George Elrod and Sam Uptain.

Uptain, Mitchell Rule Tennis Meet

Sam Uptain and Joe Mitchell walked off with the championship trophies when the Civilian Welfare Fund tennis players capped their season with an inter-squad singles tournament.

Uptain defeated George Elrod, 1-6, 6-1, 7-5, in the final round of the meet matching the A and B division players. Mitchell took the measure of Bob Lindeman, 3-6, 6-2, 6-4, in the C Division.

Twenty-eight civilian netters participated in the tourneys, concluding a highly successful season. The CWF was represented by teams in each of the three divisions of the Huntsville Industrial League this summer.

Irv Kellogg, after dropping a first round match to Uptain, came back to capture the A-B consolation by defeating Don Holder. John Veeneman was the C Division consolation winner with a final round win over Jim Daily.

Elrod, the team captain, said that the division ladders are being discontinued during the winter months with all players listed on one ladder. The divisions will be reorganized in the spring.

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EARLY AMERICAN FIREARMS—Bill Kellar, Redstone photographer, is holding an early flintlock. This gun and the cap 'n ball long gun are from Kellar's collection of 45 firearms.

Gun Collection Reveals History Of Early America

Do you know where we get the expression, "lock, stock and barrel"? How about the origin of "flash in the pan" or "going off half-cocked"?

Bill Kellar, a Redstone photographer, knows. Kellar collects guns as a hobby, and over the years he has acquired many stories concerning early firearms as well as the 45 guns in his collection.

"Take the expression 'lock, stock and barrel,'" Kellar began. "It's used to mean total commitment. Well, the lock, stock and barrel were the complete gun of an earlier day."

Kellar took a pen and sketched a gunlock, the firing mechanism of early firearms. Rube Goldberg could not have surpassed the ingenuity of early gunsmiths. Consider the firing sequence for a flintlock. The trigger was pulled, it released a hammer which held a piece of flint.

The hammer crashed down on a metal plate producing sparks. They ignited a small powder charge in a metal cup called a pan. The powder burned through a small hole leading inside the barrel and set off the main powder charge. It kicked the rifleball through the barrel and to the target.

"When the little hole leading from the pan to the barrel chamber became clogged, only the

powder in the pan would ignite. The gun wouldn't fire.

"From the malfunction, we get the expression, 'flash in the pan' usually meaning that something has started out big, but then did not live up to expectations.

"The hammer on the gunlock had two positions: full cocked, the firing position, and half cocked, the safety position in which the gun supposedly could not be fired.

"Those early locks were undependable. A flintlock rifle or pistol left in the half cocked position could discharge without any warning.

"Often when we speak of a person doing rash things which could be quite harmful, we say he is 'going off half cocked'."

Kellar feels many of the stories surrounding early American guns, in particular their legendary accuracy, are more wishful thinking than fact.

"Early guns are works of true craftsmanship, but they were hand made," he said.

"A gunsmith would have to hammer a length of metal into a barrel which might or might not have been straight. It certainly wasn't

Bombers Sweep Back Out Front

Up today and down tomorrow has been the story of the AMC-Civilian Welfare bowling league standings this season and no less than seven of the sixteen teams have at least shared first place in seven weeks of ten pin toppling.

The Avengers were the latest quintet to gain the lead one week only to find the prize too elusive to handle. The T-Birds took one and a half points in their duel with the Avengers, enough to let the Bombers sneak ahead by a half point.

The new leaders won all four from the Rejectors and the Voyagers took over third by winning three from the Alley Cats as the Travellers fell victim to a 3-1 Bandit coup.

Inconsistency led to the Avenger fall. Despite turning in the league's second best total pinfall, a 20-pin loss in the opener and a third game tie were enough to offset a 179-pin margin the second game.

M. R. Stevens turned in a 572 effort for the Avengers while Howard Roop downed 539 sticks for the Birds.

The All-Sports sounded a note of warning from far down in the standings in downing 3015 maples in sweeping the Sprinters, who seem to have a knack of running into hot outfits.

Ed Leahy almost racked up an Honor Roll count in downing 593 pins for the Sports and Bill Esslinger chipped in with a 542.

The Voyagers got a 533 from Larry Taormina in whipping the Cats and the Metro Cals stayed in contention despite a split with the Tigers as Carl Morrison hit for 538.

John Goltz was the third high individual with a 563 for the Bandits and Ed Gilgenast turned in a 544 as the Raiders swept past the Lancers. The final match saw the Jokers shove the Winners into the coal hole with a 3-1 win.

round. Ballistic theory was not advanced at this period of history, and the powder and rifleballs were crude.

"All these stories you hear of the fantastic marksmanship of the early pioneers are hard to believe. I suspect that one about Daniel Boone knocking a coon out of a tree at 500 yards was an isolated instance of pure luck.

"Even a kid with a BB gun gets off a fantastic shot now and then.

"Using an early flintlock, today's marksman could hit the broadside of a barn," said Kellar with a chuckle. But he would stand a lot better chance if he were inside the barn with both doors shut when he pulls the trigger."

Bill Kellar is one of a few gun collectors at Redstone Arsenal. He thoroughly enjoys his hobby. His gun collection serves as a source of relaxation and education.

"Of course, I would trade my guns," Kellar said with a serious expression. Then he grinned.

"Provided I was trading them for more guns!"

Spotless Records Wiped Out In Football Upsets

Unbeaten teams are a thing of the past in the Redstone flag football league after each division saw a previously clean record go down the drain in games last week.

The defending champion D Company team was at the top of the form reversal list in dropping a 20-0 decision to the 5th ETC in American Division play. Earlier in the week Delta made it four in a row with a 15-14 overtime win over the 6th ETC.

The fall was even harder for B Company in the National division. Bravo was knocked off twice and handed over the division lead to their conquerors.

MICOM issued the first shellacking to B in a 29-6 encounter and the Military Police followed that up with a 14-12 victory. The MPs moved out front with one more victory than MICOM.

The only other game played last week saw the 200th Ordnance take

a 14-6 decision from A, after the latter had been awarded a forfeit from the 522nd Ordnance. The Wednesday schedule was cancelled due to an alert.

League standings are:

American Division	W	L
D Company	5	1
C Company	3	1
5th ETC	3	3
Marines	2	2
6th ETC	2	2
7th ETC	2	2
8th ETC	1	2
9th ETC	1	3
National Division	W	L
Mil. Police	4	1
MICOM	3	1
200th Ord.	3	2
A Company	2	2
B Company	2	2
522nd Ord.	1	2
8th ETC "A"	0	2
95th Calib.	0	3

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1967 PLYMOUTH Fury III, 4-dr. hardtop, air, power, fine car, only \$1895.

1967 CHRYSLER New Yorker, 4 dr. hardtop, all extras, nice, only \$2595.

1966 OLDS 88 4 dr., local, one owner, only \$1795.

1966 VW Sedan, a good one, only \$1095.

1966 RAMBLER Classic, 4 dr., air, power, very clean, \$1295.

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1966 BUICK Wildcat, 4 dr. hardtop, all extras, only \$2895.

1966 CADILLAC convertible, all extras, 18,000 miles, Only \$2895.

1966 PLYMOUTH Fury Sport Coupe, 4 speed, nice car, only \$1495.

1966 CHEVROLET Bel Air 4 dr., air, nice and only \$1295.

1965 BUICK V-6 convertible, new top and paint, a good one, only \$1095.

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1965 FORD Galaxie coupe, very clean car, only \$1195.

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Cars And People Keep Provost Marshal Busy

People who drive onto Redstone create a booming business for the Vehicle Registration and Identification Section of the Provost Marshal's Office.

There are more than 42,000 vehicles currently registered with the Provost Marshal and over 37,000 identification badges have

been issued to military, civilian and contractor personnel working and conducting business on the Arsenal.

Vehicle records must be kept current since approximately 2,500 automobile decals are issued and deleted each month. This means that files of all military, civilian

and contractor vehicles with decals must be maintained, along with a file on decals not yet issued.

When new state license plates are issued, owners should report their new numbers to the provost marshal's office, as well as when they sell or trade cars, they should notify vehicle registration of the

changes.

Despite the heavy workload, registration and badging processes move smoothly. Pictures are taken with a polaroid camera, a clerk types out the ID cards and another clerk operates the laminating machine to turn out a badge in approximately 10 minutes.

This section provides badges for all military and civilian personnel with the U. S. Army Missile Command, U. S. Army Missile and Munitions Center and School, Safeguard System Command, Safeguard Logistics Command, Advance Ballistic Missile Defense Agency and the Corps of Engineers and their contractors.

In addition to maintaining records of all badges issued, files are

also kept on personnel authorized to approve badge requests.

While personnel of the ID section photograph, fingerprint and laminate military and civilian ID cards, they also laminate all Geneva Convention Cards, verify, prepare, type, photograph, laminate and issue all Civil Defense cards and issue and laminate all conservation officials' cards. This workload mounts up to some 1,500 cards per month.

The section registers and maintains a file on all weapons owned by military personnel living on the Arsenal and a log on all persons with registered weapons. So far 690 weapons have been registered

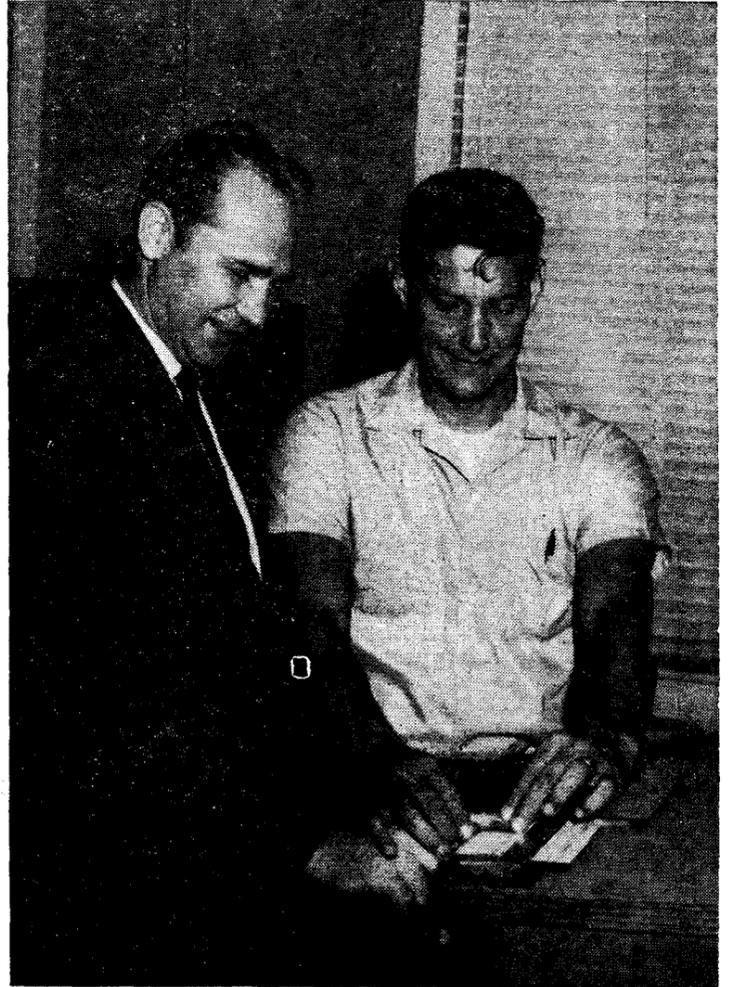
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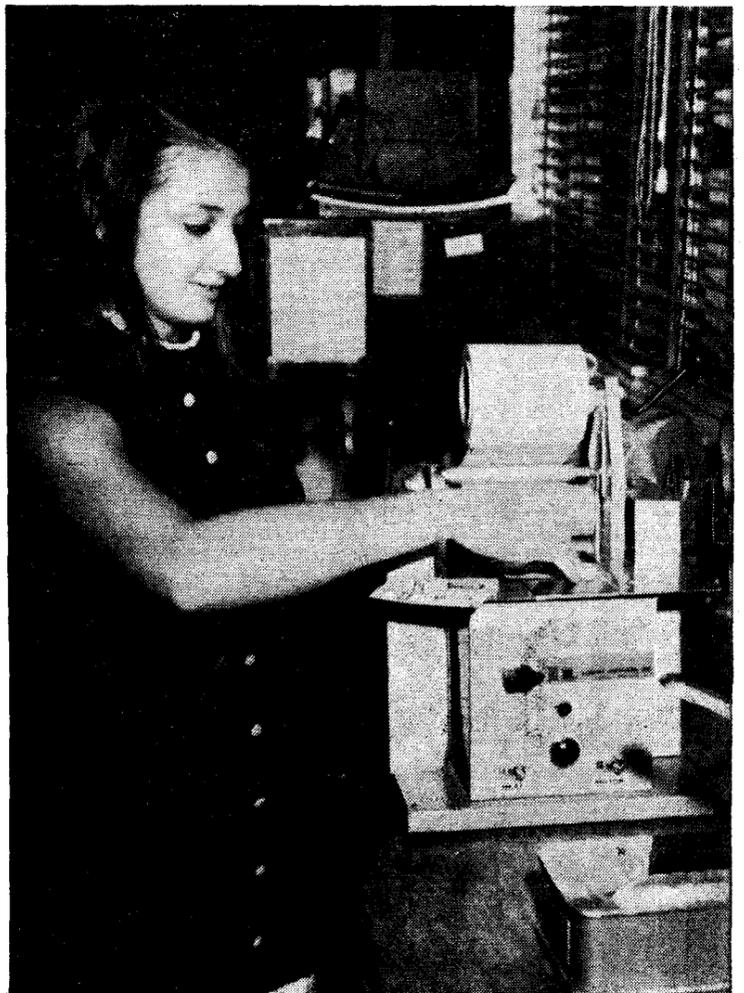
CHECK DECALS—Capt. Allen Anderson, left, Provost Marshal Operations Officer, checks with Mrs. Judy Vaccaro, Administrative Officer, on the decal number of a car involved in an accident. Sometimes cars bearing Redstone decals are involved in accidents and subsequent investigation reveals the car was sold to a new owner and the Vehicle Registration office was not notified.



INSTANT PICTURES—Mrs. Pat Tomlinson, left, poses for a picture to be used on civil defense cards for her assignment to a fallout shelter, as Mrs. Mary Branum, operates the polaroid camera. Polaroid pictures speed the badging process and enable ID personnel to produce a finished product in 10 minutes.



IT DOESN'T HURT A BIT—Robert Howell, left, an employee of RCA, a civilian contractor doing business with the Army Missile Command, has his fingerprints taken by John Lee, clerk, in the Vehicle Registration and ID Section. Approximately 550 fingerprint cards are processed each month by section personnel.



BADGES WHILE YOU WAIT—Patricia Simmons, Clerk, laminates identification badges for military, civilian and contractor personnel working on Redstone Arsenal. In addition to badges, approximately 1,500 ID cards are laminated in the section each month.



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Issuing Decals And Badges To Arsenal Workers

(Continued From Opposite Page) in 1969.

An average of 550 fingerprint cards are processed each month. This total includes military personnel going to Alaska and overseas, security clearances for military, all non-appropriated fund employees, and all employees who are obtaining initial security clearances, or having their clearances updated.

There's always work to be done and the four people assigned to the section sign more than 800 clearances each month for personnel reassigned or leaving Redstone Arsenal.

Add 2,000 visitor badge permits to the workload and the overall statistics for registering and keeping track of all personnel on the

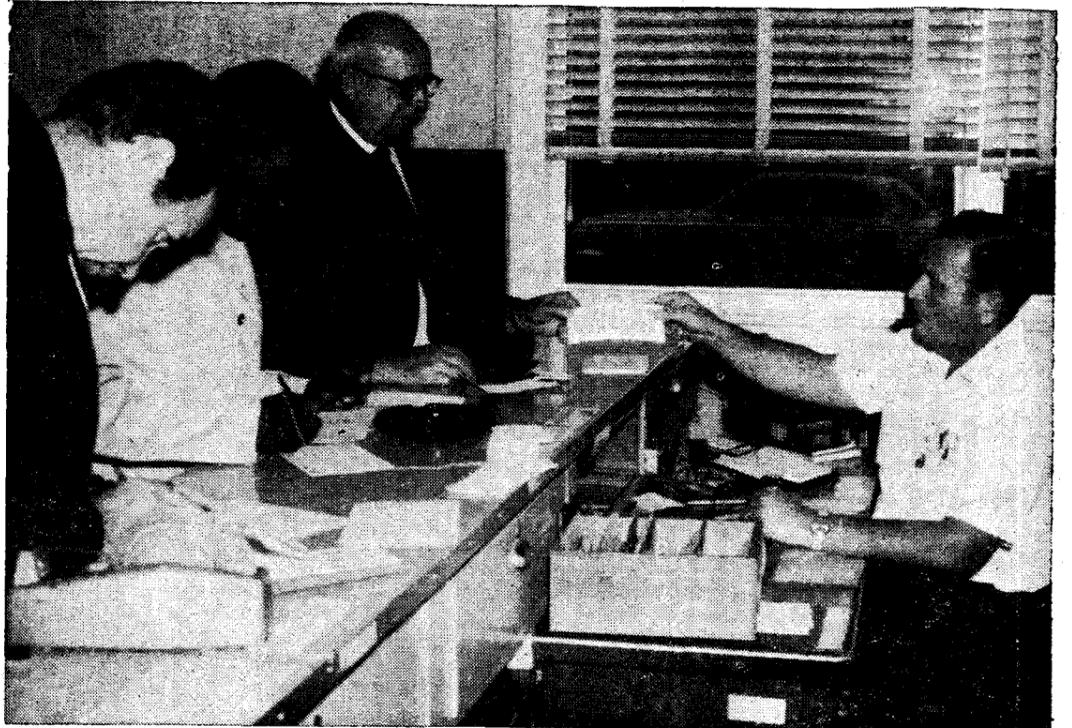
Arsenal assumes staggering proportions.

That's why the Vehicle Registration and ID Section needs your help.

According to Mrs. Judy Vaccaro, Administrative Officer, you can help by doing the following: "When you get new license plates, fill out the Vehicle License Change Form and send it to the provost marshal's office immediately. Should you sell or trade your car, scrape off and turn in the decal so records can be changed."

Lt. Col. Dale Hamilton, Jr., Provost Marshal, had these comments:

"Vehicle registration and identification are only a part of the provost marshal's operations, but cooperation by Redstone personnel in these areas can help us do a better job in all areas."



PUT THESE ON YOUR BUMPERS—Two Redstone employees, left, fill out their cards as retired MSgt. R. T. Gibbs, with glasses, receives his vehicle decals from Loyd Farrow, Chief Clerk, Vehicle Registration and Identification Section. Vehicle registration can be accomplished in a short time when employees have with them all pertinent information.

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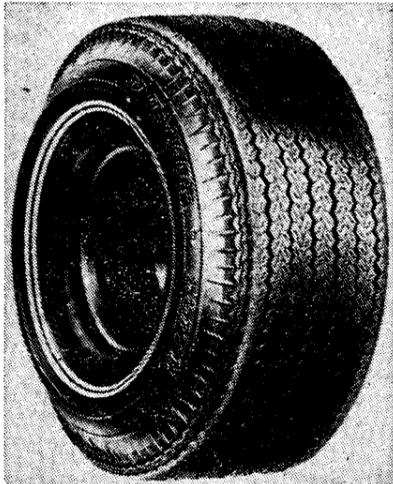
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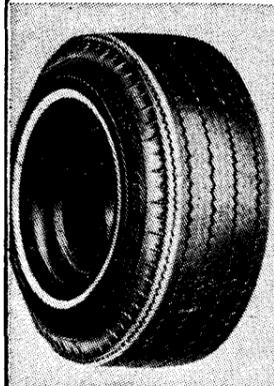
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Crews In Post Engineer Keep Roads Repaired



PLANNING—Thurman Pruitt studies road map, not to find his way, but to locate on it spots that need repair.

If you hit a pothole as you drive on a road at Redstone, the chances are pretty good that Thurman Pruitt has heard about it and has his men scheduled to do the necessary repairs.

Pruitt of the Missile Command Post Engineer, others in his organization, and people in general notice the holes and put in requests to have them fixed.

"We use an average of 30 tons of patching material a month," Pruitt said, "to take care of 158 miles of roads and the parking and open storage areas that are paved." There is a total of 1.5 million square yards of the latter. About half is paved and the rest is graveled.

Pruitt is the maintenance foreman for roads and grounds surface areas.

Recently one of his crews, Morris Johnson, Phillip Fletcher, John Taylor and Ernest Clark, their foreman, was working on an intersection on Martin Road as the traffic went whizzing by. Although the crew is aware of the possible danger, each goes on calmly about his business.

When they start to repair a pothole, some cold mix asphalt is emptied at the site, and the men start shoveling and sweeping it evenly over the damaged area. Then Fletcher, a big, powerfully muscled man, starts up a device called a vibrator-roller and guides it over the surface to smooth and firmly tamp in the patching material.

"The traffic and the weather combine to tear up the roads," Pruitt said. "Cars break up the edge of the pavement, water seeps in and ruins the base, then trouble develops."

Potholed areas on the 122 miles of graveled roads and in the parking and storage areas that are graveled are usually repaired using heavier machinery for spreading the gravel and compacting it. An operator herds a clumsy looking road grader to distribute the material, and a 10-ton vibrator-roller is driven from a cab on that machine.

The gravel roads have to be worked twice a year, regularly. "We use 12,000 tons of gravel a year," Pruitt said. One of the longest gravel roads, that also gets a lot of use, is Centerline on the range. Heavy trucks and equipment bounce dustily or splashily along depending on the state of the weather, and the road disintegrates.

Among Pruitt's other responsibilities are the street intersections that must be swept clean of gravel tossed up by traffic, the road shoulders which must be policed of trash, and complete railroad maintenance.

Little scooters dart along the shoulders of Arsenal roads as the driver picks up trash. The drivers are careful to stay off of the 40 miles of roadways each covers daily, but they are always alert to passersby who may not be fully attentive to their driving. One accident has occurred when a scooter was hit and the operator was thrown out onto the grass. His injuries were slight, but the fragile scooter was demolished.

Pruitt has a three-man crew to keep 55 miles of active railroads smooth and clean of weeds. The men replace worn ties and rails, repair, grease and oil switches, replace the ballast and check the gauge of the rails.

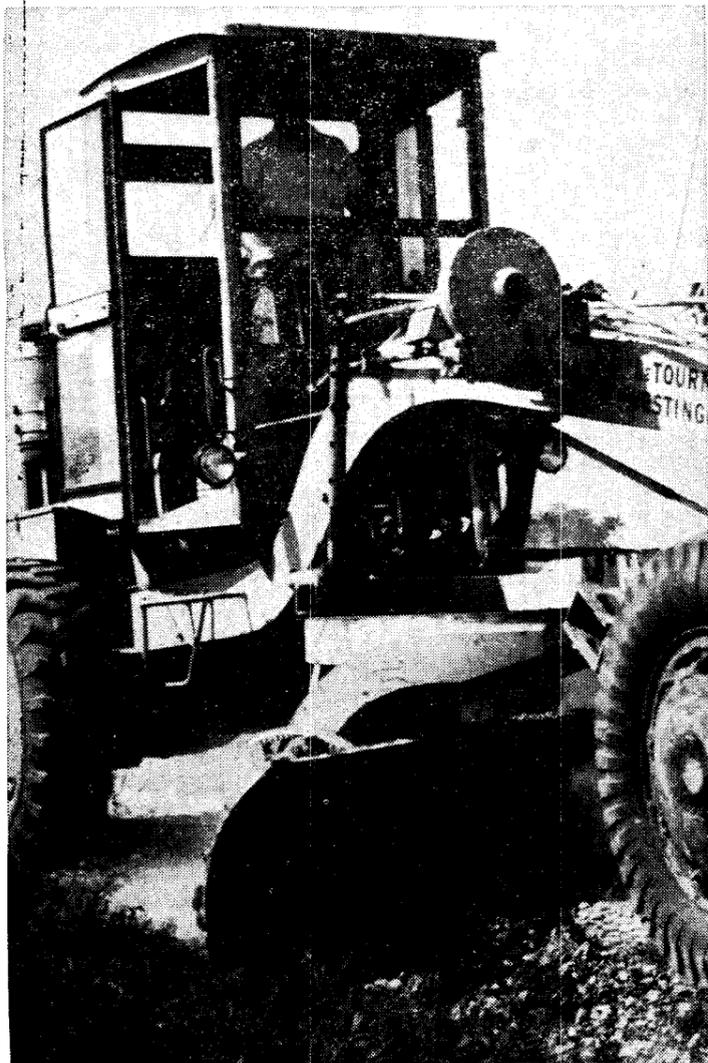
There is also a machine that carries a big magnet brushing near

the road surface to pick up nails or other metallic materials.

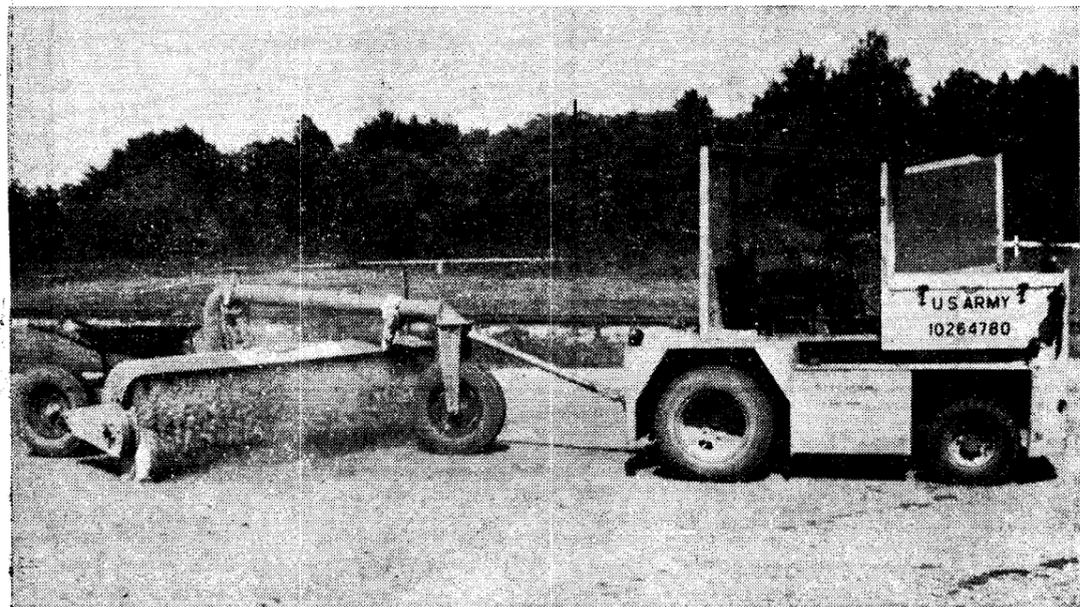
Pruitt has been on the job most of the time since 1942. He had a two-year hitch with the Army during World War II, and worked for a contractor a few years before coming back to the Arsenal in 1949.



ROLLING—Phillip Fletcher runs over a new road patch with a vibrator-roller.



SPREADING—Herding a grader over a gravel road, Billy Joe Lemley spreads fresh gravel.



SWEEPING—James Allen operates a road sweeper to clear an intersection of trash and gravel.

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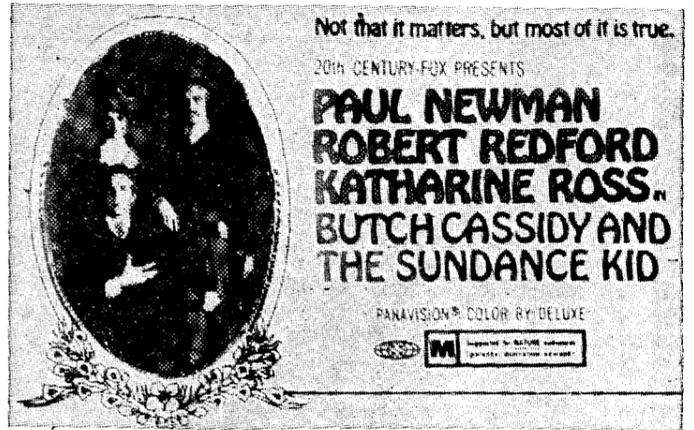
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DIRECTORATE'S BEST—LTC F. M. Creighton, Director of Supply and Maintenance, drew the honor of presenting the award winning trophies for the recent Fall Golf tournament in which 97 S & M employees participated. The meet was held at the Arab Country Club. In the winner's circle are, left to right, Bill Clemons, medalist; J. C. Barnard, low net; Gail Skidmore, winner of the women's flight, and Col. Creighton. Flight winners in the men's division were, Clemons, Bill Tankersley, Jack Torzillo, George Kynerd and Barnard.



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Civilian Employees Are Studying In Norman, Okla.

Almost half of the 57 Redstone civilian employees leaving their normal work areas this week for off-post training program are spending the week at Norman, Okla., for graduate level courses at the University of Oklahoma.

Other civilians are enrolled for training classes offered by government schools, contractor facilities and leading colleges located in eight states and the District of Columbia.

They will spend up to eight weeks in the class room work under the Command's career development program administered by the Training and Development Division of Civilian Personnel.

The 28 who are spending the week in Oklahoma include twelve who are attending the Seminar in Computer Dynamics and another 16 who are enrolled for Federal Procurement.

In the former class are: Ernest Williams, Robert Butler and Ira Humphrey (P&P), William Ivy and Joseph Pugh (SAM-D), Ellen Ingram and Stanley Sacks (R&E), Laurie Atkinson (Pershing), Frederic Varden (Hawk), Paul Hancock (I&S), Jack Childs (S&M) and Joe May (SAFSCOM).

Taking the Procurement course are: Curtis Williams, F. D. Folette, Norman Marriner and Paul Schaepfi (P&P), James Brower, Harry Welch, William Millsap and John Dumbacker (SAM-D), James Cole and Albert Fortner (Hawk), Cletus Rutledge, Winifred Cobb and James Shrader (R&E), Donald Bollenbacher and Harvie White (Shillelagh), and Lawson Lee (SAFSCOM).

Another ten are at the Army Management Engineering Training Agency, Rock Island, Ill., where they are participating in seven different courses.

Johnny Nelson (MMCS) is enrolled for Computer Programming, Frank Hayes (P&P) is taking Organization Planning, James Hartley (Lance) is attending the Seminar for Middle Managers, Bobby David (S&M) is taking Systems and Procedures Analysis, and Darrell Fletcher (S&M) is enrolled for Work Planning and Control.

Lucille Sheets (Hawk) and Harry Bratton (SAFSCOM) are in the Project Planning and Control class while James Anderson (P&P), Gilbert Workman (S&M) and Joseph Pugh (SAM-D) are attending the Top Management Seminar.

Wilodene Edwards (SAFSCOM) is at Ft. Lee, Va., for Procurement Management at the Army Logistics Management Center along with Martha Moran and John Rozof (P&P).

Three others are studying Munitions Safety at the AMC Field Safety Agency, Rockville, Md. They are James Maples (DASO), William Terry (MMCS) and Gerald Dutcher (Pershing).

Gerald Dupree is at the Adjutant General School, Ft. Benjamin Harrison, Ind., for Manpower Control, and Arthur Doyle (MID) is studying Nuclear Weapons Design at the Defense Atomic Support Agency, Sandia Base, N. M.

Wayne Mattern (S&M) is staying on the Arsenal for the Combat Missile System Repair, Shillelagh, course at the Missile School while Sarah Kelso (P&P) and Francis Davis (DASO) are in Washington for Digital Computer Basis with Frankford Arsenal.

Another trio are in Ohio for classes at the School of Systems and Logistics, Wright-Patterson AFB. Isaac Buchanan (P&P) is tak-

ing production Management, Robert Chandler (SAFSCOM) is studying Quality Control and Neale Harmon (MMCS) is enrolled for Logistics.

Delaney Casey (MMCS) is taking the Information Specialist course at the Information School, Ft. Benjamin Harrison, Ind., while Mary Dumas and Carl Stephens (Chief Council) are at the Navy Materiel Command, Washington, D. C., for the Procurement Executive Refresher course.

Jesse Frampton (R&E) is attending a Planning-Programming-Budgeting Seminar at the Harvard University graduate school, and Bruce Berry (DASO) is in New Orleans for Computer Systems Design and Analysis with the IBM Corp.



FULL LINE VENDING—The Redstone Post Exchange inaugurated its fourth full-line vending operation at Redstone last week with a ribbon cutting ceremony in Building 8027. Col. Preston Cannady, Director of Arsenal Support Operations, and James V. Adair, general manager of the post exchange, handled the honors opening the facility for the benefit of the personnel of the Finance and Accounting Center. Maj. Jimmie Ellington, Exchange Officer, stands between Col. Cannady and Adair with LTC Thomas Fitzgerald and Lewis Aycock also present for the ceremony. Maj. Ellington said that the earlier facilities have been well received by the personnel of Buildings 5678, 5687 and 7471, where they are located. The four facilities are operated by the ABC Berlo Vending Co., under contract with the Missile Command.



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INCENTIVE AWARDS

Incentive Awards were recently given to 15 employees of the U.S. Army Safeguard System Command and the Safeguard Logistics Command. Receiving Outstanding Performance Ratings were:

M. Pearson, S. J. Shaner, B. P. Phillips, B. V. Church, E. E. Gustafson, T. A. Peters, L. C. Martin, D. R. McClung, W. R. Connell, L. C. Lavender, C. Elmore, K. N. Abel, E. C. Honsley, T. J. Lucerno.

Receiving the Sustained Superior Performance Rating were J. D. Shockley and N. Abel.

MICOM

Incentive Awards were recently given to 195 employees of the U.S. Army Missile Command. Receiving Outstanding Performance Ratings were:

F. P. Bailey, L. R. Seggel, C. K. Bell, W. K. Jann, O. G. Gambell, H. L. Hastings, C. L. Holder, P. S. Williams, N. F. Mitchell, E. B. Burns, R. U. Biss, J. L. Flinn, S. Cowell, A. D. Rosenbloom, D. F. Levie, E. K. Taylor.

B. H. Pinkley, J. F. Pettitt, E. R. Ethridge, J. C. Pomeroy, J. S. Kobler, C. S. Cason, C. E. Wallace, E. B. Dobbins, J. B. Anderson, M. J. Jacobs, J. W. Higgins, S. Bozeman, J. S. Duncan, E. M. Long, P. A. Walker, M. C. McCaslin.

A. L. Couch, G. C. Rutledge, B. A. Owen, J. R. Thompson, G. W. Hargis, O. M. Woody, A. Bermender, E. Boyd, R. D. Sauts, E. D. Short, F. B. McFarland, J. B. Manchego, R. E. Williams, H. J. Harlow, M. L. Abeyta, E. Roe, L. J. Quilici.

B. H. Steele, E. C. Gardner, G. H. Chafin, J. W. Linton, G. R. Helstrom, J. L. Watson, J. A. McCraw, R. D. Augo, L. H. Boster, B. J. Kness, M. H. Lindsay, W. A. Livingston, F. Griffith, H. V. Read, W. N. Calcote, D. G. Harris, G. P. Hendrix.

J. P. Hallowes, C. R. Harris, U. B. Brooks, D. H. Vaughn, R. E. Akin, C. D. Cox, M. R. Hardenburg, H. M. Williams, J. P. Dougherty, L. H. Rhodes, J. N. Worley, M. W. Thomas, E. Overton, G. J. Simas, T. F. Slinkard, E. L. Beard, W. G. Freeman.

T. J. Lucero, P. H. Danley, S. B. Szczepanski, J. M. Graham, R. L. Hammond, W. E. Hayes, O. D. Ellett, E. J. Dougherty, F. P. Daniel, S. C. Boyett, M. W. Bishop, F. W. Allen, R. G. Whitaker, C. W. Vest, E. D. Hicks, P. J. Hill.

F. Z. Horton, C. J. Lincoln, E. H. Malcom, E. F. Matthews, S. N. Miller, S. C. Queen, J. T. Radzinski, J. M. Reppert, R. W. Stoner, M. B. Maze, L. H. Bowman, A. G. Henson, H. M. Bartlett, C. W. Tucker, S. J. Smith, F. R. Cheatwood, J. P. Scott, D. R. Dreaden, L. P. Hanners, J. Wilkerson, J. A. Muller, E. T. Smith, M. W. Robinson, F. A. Chappell, D. Caldwell, C. C. Duren, M. E. Johnson, K. W. Easter, A. J. Wright, R. E. Neely.

A. W. Sevigny, C. J. Leachman, C. A. Lienhard, H. H. Libbe, J. E. Parker, R. F. Eisenhower, R. E. Eckley, M. K. Thomas, G. L. Hodges, R. E. Kirkpatrick, J. B. Simmons, H. J. Valadez, E. B. Byrd, R. H. Seavers, G. W. Breedlove, P. T. Russell, T. G. Patterson.

J. W. Cotney, M. L. Phillips, T. J. Dixon, C. E. Wann, B. D. Horton, R. C. Vinson, S. L. Bell, R. S. Dotson, H. W. Burnam, W. E.

Bushart, K. L. Walker, J. R. Miller, J. R. Edmunds, R. P. Brooks, J. R. Williams, B. H. Williams.

C. W. Ayres, S. E. Steger, J. W. Richard, G. E. Hale, E. C. James, J. A. Lilly, L. D. DeWitt, H. L. Blanton, B. J. Ward, B. D. Hall.

Received the Sustained Superior Performance Rating were:

J. R. Williams, B. H. Williams, C. W. Ayres, S. E. Steger, J. W. Richard, G. E. Hale, E. C. James, J. A. Lilly, R. P. Brooks, B. J. Ward, B. D. Hall.

J. E. Harrington of the Volunteer Army Ammunition Plant at Chattanooga, Tenn. received an

Terry, J. C. Laxson, N. C. Bradley, R. J. Bentley, C. B. Spann, J. A. St. John, J. E. McCormack, R. Heathcock, A. R. Johnson, D. E. White, A. O. Todd, A. J. Lemley, J. J. Murphy, J. M. Smith,

H. W. Trantham, D. E. Powell, J. P. Schumann, J. E. Doller, W. R. Hatraway, F. H. Marsden, E. E. Baker, V. T. Perry, J. M.

Outstanding Performance Rating.

MMCS

Incentive Awards were recently given to 30 employees of the U.S. Army Missile and Munitions Center and School. Receiving Outstanding Performance Ratings were:

W. P. Clinton, L. E. Huffman, B. K. Arnett,

J. Gross, W. F. Koontz, W. Mattis, D. M. McLaughlin, M. M. Hobbs, W. F. Flynn, O. J. Isom, L. L. Kimbrel, H. Duke, E. H. Reynolds, J. V. Kinney, E. Cebula, M. R. Rice, T. Ange-

loff,

P. A. Michael, J. Walsh, G. R. Taylor, E. E. Wyson, J. H. Black, J. L. Curtis, J. H. Bramblett, E. H. Larue, C. W. Fisher, B. J. Pressnell, R. F. Dion, R. R. Anzalone, J. Nail.

Receiving the Sustained Superior Performance Rating were W. P. Clinton and L. E. Huffman.

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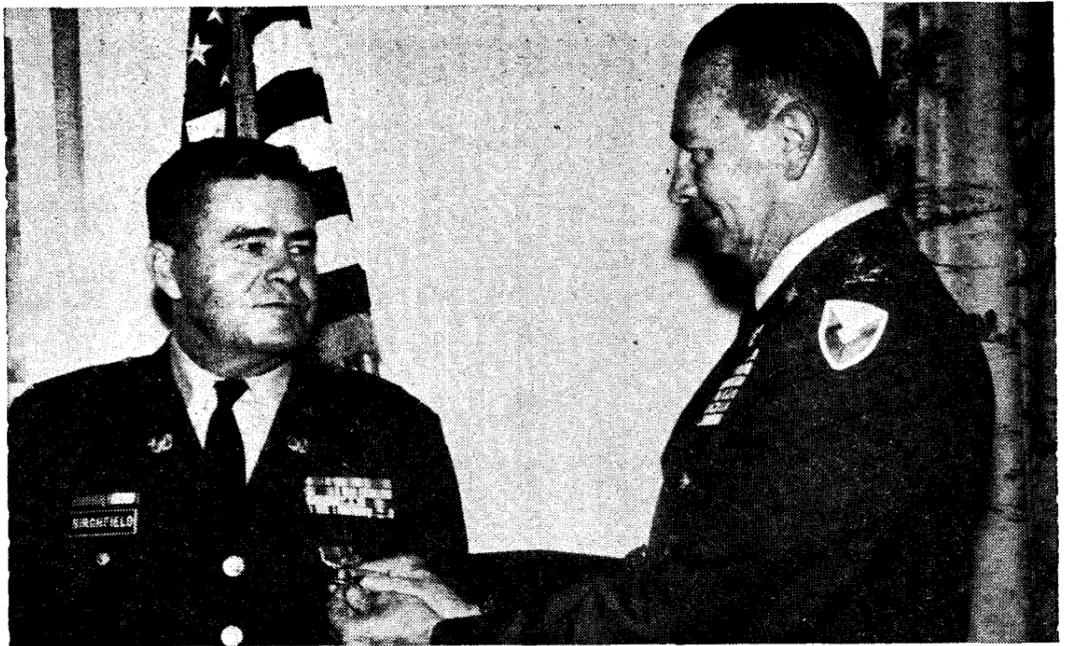
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BRONZE STAR AWARD—CW3 James W. Birchfield (left), receives the Bronze Star Medal from Col. Preston B. Cannady, Director of the Arsenal Support Operations Directorate, during a recent ceremony at the U. S. Army Missile Command. He earned the medal while serving with the First Radio Research Company in Vietnam. CW3 Birchfield is now assigned with the Aviation Branch at Redstone Arsenal.

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RECEIVES CHECK—Ed Friday receives \$315 from Col. W. C. McMillan, director of the U.S. Army Metrology and Calibration Center at the Army Missile Command. Friday suggested a master coding transfer to be used by field printing on the magnetic tape typewriters, eliminating many manhours of repetitious proof reading. Friday, a technical writer for the Center, saved the Government an estimated \$5225 the first year. He formerly was a pilot for a construction company, and a test pilot for a life insurance company, before he became a technical writer. His first writing assignment was for the Air National Guard for whom he wrote a handbook.

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Fall Coffee Set At NCO Club Saturday

The Redstone Non-Commissioned Officers Wives Club will hold the first coffee of the Fall season at 10 a.m. Saturday in the NCO Open Mess.

The coffee is planned as a welcoming event for members and prospective members.

For further information, call Mrs. Charles Barcus, 837-5085, or Mrs. James Russell, 837-5434. They are serving as chairmen for the coffee.

NEW ARRIVALS

1Lt. and Mrs. John R. Glaese, boy, Roger Marshall, Oct. 2.
E-6 and Mrs. Robert A. Evanoff, boy, Steven Paul, Oct. 3.

Retired SSG and Mrs. Roy W. Taylor, girl, Janet Elizabeth, Oct. 4.

SP-4 and Mrs. Ira T. McKinney, Jr., girl, Melissa Candace, Oct. 7.
E-7 and Mrs. Miguel Rodriguez, girl, Lisa Michele, Oct. 9.

SSG and Mrs. Stanley L. Kuespert, boy, Jeffrey Alan, Oct. 11.

SP-5 and Mrs. Ronnie Joe Grimes, girl, Tammy Joe, Oct. 13.
CPT. and Mrs. Mark R. Cook, boy, Andrew Zane, Oct. 14.

WHOS Plan Coffee For New Members

The Wives of Husbands Overseas Club, WHOS, are inviting all enlisted and non-commissioned officers wives in this area to a New Membership coffee.

This coffee from 2-4 p.m. is to be held at the Glenn'll Mobile Court Recreation Room, 3012 Johnson Road Sunday. The club is open to all wives whose husbands are serving on an unaccompanied tour of duty or are scheduled to leave in the near future.

For further information please call the Army Community Service Office, Bldg. 3656, 876-8957.

NCO Wives Reveal Hallowe'en Plans

A Hallowe'en party for members of the Redstone Non-Commissioned Officers Wives Club and their husbands is planned for tomorrow night at the NCO Open Mess. The party will start with a social hour at 6:30 p.m., followed by a buffet dinner.

Those attending are encouraged to wear costumes.

For reservations, call Mrs. James Harmon, chairman, at 837-1331.

Girl Scouts Organizing, Registering Members

The Redstone Neighborhood of Girl Scouts is now holding their fall registration for membership in Brownie, Junior and Cadette troops. This registration is for girls between the ages of 7 and 14 who are not already members of a Post troop.

Any parent wishing to register their daughter may call the Scout organizer, Mrs. Robert Epstein at 837-3789. Also any adult volunteers interested in working with this program are welcomed.

CONTROL GROUP TO MEET

Dr. Robert E. Larson will address the Huntsville section of the IEEE Professional Group on Automatic Control tomorrow evening, at 7:30 p.m.

His subject is "Dynamic Programming Computational Procedures." In the auditorium of the University of Alabama Research Institute on Sparkman Drive.

Dr. Larson is with the Systems Division, Wolf Management Services, Palo Alto, California, where he has been concerned with applications of control and estimation theory and with computational aspects of Dynamic Programming. He has published several papers on Dynamic Programming and other topics in control theory, and is the author of the book, "State Increment Dynamic Programming."



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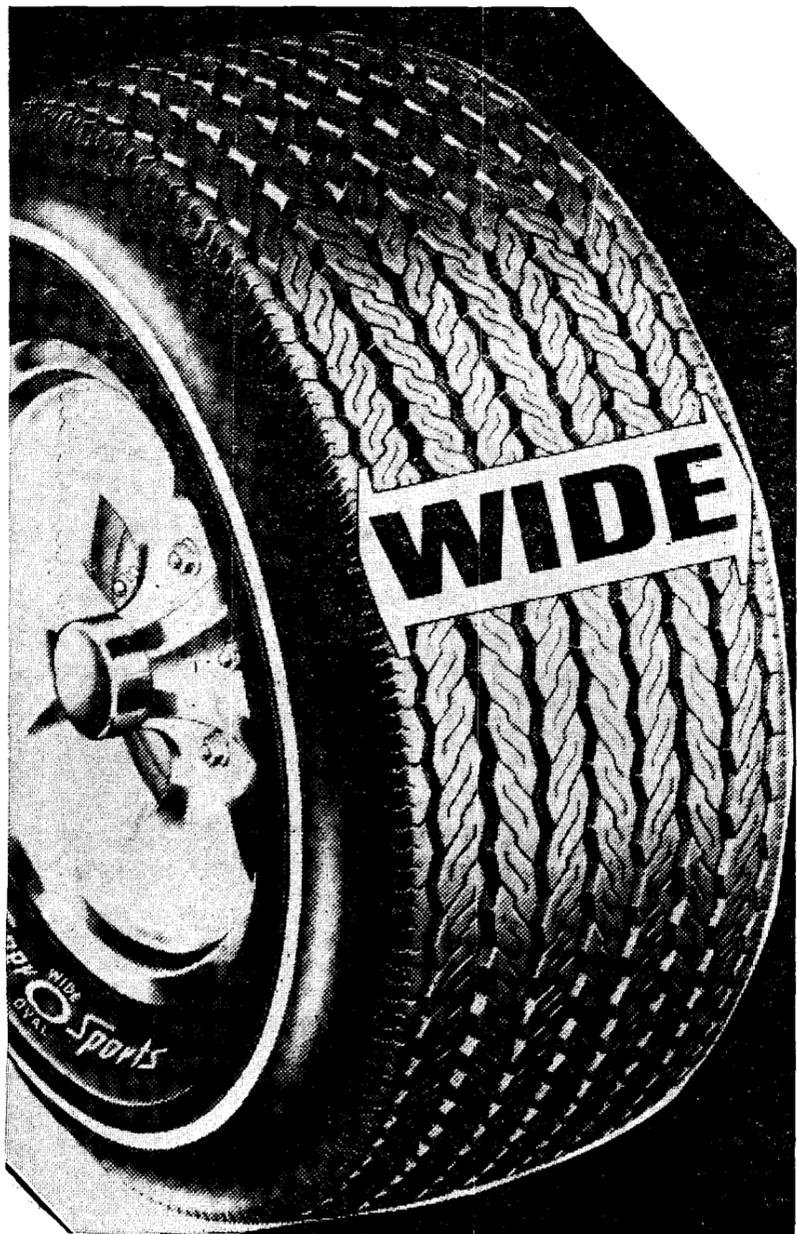
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