

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

FEBRUARY 25, 1970

Arsenal-Wide

Spot News

Dial 112



POST SOLDIER OF THE MONTH—Sp4 Glen L. Jackson, (left) a physical sciences assistant with the Army Missile Command Research and Engineering Directorate, receives congratulations from Col. Preston B. Cannady after being chosen Post Soldier of the Month for January. Jackson is a native of Ames, Iowa and holds a master of science degree in physics. He has been stationed at Redstone Arsenal since April 10, 1969.

Eight Earn 30-Year Pins, Several Plan To Retire

Two of the eight men to whom Col. Preston Cannady presented 30-year-pins recently are on sick leave and one is retired. The other five are still on the job here.

Earl L. Bracey, a position classification specialist in the Civilian Personnel Office, Arsenal Support Operations Directorate, began his Federal career as a typist in supply for WPA at Pottsville, Penna. In 1960, he was the civilian personnel officer for the Birmingham Ordnance District and when the District was dissolved in April he transferred to the Army Rocket and Guided Missile Agency here. From June 1967 to June 1968, he served at Pleiku in Vietnam and returned to Redstone in July. During his three years of Army service during World War II, he was with a transportation unit stationed in the Persian Gulf Command. Other Arsenals where he worked are New Cumberland and Rock Island.

Leo P. Oliver, chief of the Plans and Programs Management Section in the Maintenance Support Division spent 20 years on active duty, 15 of them as a commissioned officer who reverted to master sergeant during an economy cut-back. He was in the Nike Branch at the Missile and Munitions Center and School when he retired. His knowledge of electronics and other varied experience helped when he applied for a position as

production controller in the Division. Oliver has now worked for Civil Service ten years and is considering retiring again.

William V. Murphy was a Signal Corpsman during World War II, and received on-the-job training for his present job as a communications specialist for telephones and electronics communications devices. A native of Moultrie, Ga., Murphy was first introduced to Redstone Arsenal in 1942. He married a Huntsville girl and has remained here except for a four-year break during which time he worked at Ft. MacPherson, Ga., when Redstone Arsenal was on standby. Now, instead of fighting the battles of the switchboard, the central office repairs and climbing poles in all weather, he is fighting the battle of paperwork that communications engenders. However, not for long. His retirement date is set for March 27.

Hubert A. Calloway, another communications specialist, has just recovered from surgery and is expected back on the job this week.

In Logistics, Shelby Hall, a supply specialist, is rounding out a career that includes 20 years and (See 30-YEAR on Page 2)

Boy Scouts Hold Banquet

More than 1,000 Boy Scout parents, Boy Scout Leaders and Scouts in the Tennessee Valley Council banqueted at the NCO Open Mess at Redstone Arsenal Friday night, and heard Alden G. Barber, Chief Scout Executive talk on the long range plan called Boypower '76.

John Goodloe, President of the Tennessee Valley Council, presided over the meeting which included awards of the Silver Beaver to Jack Livingston, Scottsboro, Bill Riehl, Huntsville, Robert Tucker, Huntsville and Jack Severin, Florence. Bill Ingersoll, Order of the Arrow advisor, whose troop served dinner, presented the Silver Beaver awards.

Dick Newcomb, Region Five Scout Executive, served as installing officer. The newly installed are: John Goodloe, President, Tennessee Valley Council; Jack Livingston, vice president; Dr. Eugene Chenault, vice president; Bill Griffin, vice president; Harry McMurry, vice president; Joe Weed, treasurer; Bob Shirley, Council Commissioner.

Two Huntsville ministers, Dr. Alvin Hopson and Rev. Nelson Guthrie, participated in the opening and closing of the meeting.

Harrison Amasses Healthy Hunk Of Sick Leave In CS

Protection against loss of income while you are ill, and the counting of unused leave in determining retirement annuity and survivor benefits are the most important assets of the civil service sick leave program.

That is the opinion of Delbert Harrison of the Management-Employee Relations Division, Civilian Personnel Office. Harrison has accumulated more than 2,600 hours of sick leave.

"I entered civil service in June, 1941 with the Tulsa District, U. S. Army Corps of Engineers, and worked as a supply specialist until World War II broke out," said Harrison.

"After serving three years with a Navy PT boat Squadron in both the Mediterranean and the Pacific, I returned to the Tulsa District

and stayed there until coming to Redstone Arsenal in November of 1959."

To his knowledge, Delbert Harrison has never taken any sick leave, and taking into consideration holidays and annual leave, he could miss nearly two years of work before losing a single paycheck.

"I'm not superhuman or one of the health nuts," Harrison said. "I do believe in taking care of myself. I get sick but instead of taking any of my sick leave time, I elect to take annual leave instead."

As a member of the organization that is responsible for the sick leave program, Harrison feels that it is an extremely worthwhile effort.

"I would urge everyone to use his sick leave wisely; there is no better security!"

Calcote Will Head New Data Process Directorate

A new directorate, consolidating all data processing activities into a single organization, is to be established at the U. S. Army Missile Command.

To be known as the Management Information Systems Directorate, the new organization, involving about 500 people, will become operational March 2.

Willie N. Calcote, Chief of the Management Science and Data Systems Office, has been named acting director.

By consolidating what now encompasses eight different organizations, the Army expects to save more than a million dollars a year.

Patterned after the Army Materiel Command's recommendations for a "Standard Commodity Command Structure," the MIS Directorate is a major step toward a National Automatic Data Processing Program for Logistics Management (NAPALM).

This program proposes standardization of computers, information systems and procedures at all AMC subordinate commands. Ultimately, the NAPALM program envisions a network of computers and information systems throughout AMC, interconnected, with hardware and data information made



WILLIE N. CALCOTE

available to all commands under a standard method of communications and control.

The NAPALM program has been directed toward business-type use of computers and information systems, but a new innovation will be introduced at the Missile Command. Installation of a (See CALCOTE on Page 2)

Space And Rocket Center Will Open Doors March 7

The Alabama Space and Rocket Center will open its doors to the public on Saturday, March 7. Built by funds obtained through a bond issue, the Center will feature audience participation displays.

The facility will be formally dedicated on March 17 at 2:00 p.m. The general public is invited to attend the ceremony.

A preview of the Center will be made by state officials Saturday. Their visit is scheduled from 11:00 a.m. to 3:00 p.m.

Indoor displays at the center will feature aspects of rocketry and space travel. Most are design-

ed to be workable by the viewer. As the visitor moves through the large, concrete building he will receive enough depth of environment and rocketry principles to give him understanding of the accomplishments made in the vast aerospace fields.

U. S. Army and Marshall Space Flight Center rocket and space hardware which has contributed to the rocketry advancement of the Nation is on display at the Center.

General admission to the Center will be \$1.25 per adult and 40 cents for children 12 years of age or under.

Bloodmobile Here Today

The Red Cross Bloodmobile returns to the Arsenal today for the second of two scheduled visits during February.

The unit will be located at the Service Club to accept all prospective donors between 11 a.m. and 4 p.m.

The initial monthly appeal last Wednesday resulted in the donation of 471 pints of blood by Arsenal personnel. A total of 547 voluntary donors responded to the appeal.

The regular monthly quota of 500 pints was augmented by a special appeal for emergency donations to support open heart surgery performed that same day in Birmingham.



AN APPLE A DAY?—Delbert Harrison of the Civilian Personnel Office at Redstone Arsenal must have a secret about keeping the doctor away. Although he admits "I've had a few illnesses," Harrison hasn't used a day of sick leave in 29 years with civil service.

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-136, Extension 876-1400 or 876-1500.

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Rocket Ruminations

Let Us Have Peace

—Ulysses Simpson Grant

Military Review Features Army Areas Of Interest

FT. LEAVENWORTH, Kan. — Eight original articles appear in the March issue of the U. S. Army's professional journal, the MILITARY REVIEW.

Front cover features are: "This Far, No Farther" by Brig. Gen. Theodore C. Maxis, U. S. Army, Chief, Army Section, ARMISH/MAAG, Tehran Iran; and

Two views on disarmament: "Strategic Arms Limitation" by Mark B. Schneider, a student working toward a Ph. D. at the University of Southern California on a National Defense Education Act Fellowship, and "Disarmament and the USSR" by James P. Scanlan, Chairman, Slavic and Soviet Area Studies Committee, University of Kansas, Lawrence, and

"New Directions for National Defense" by Edward C. Smith, Special Consultant to the Director of John Hopkins University Applied Physics Laboratory, Silver Springs, Md.

"This Far, No Farther"—General Maxis notes that the craze prevalent in the world today is reflected in the United States by activities of the New Left. He states that their attack on the armed services and the restrained approach of government toward these people can have a demoralizing effect on members of the armed forces. The general advises unit commanders to use guidelines published by the Department of Defense in coping with the problem.

"Strategic Arms Limitations"—The author states that the Strategic Arms Limitation Talks (SALT) with the Soviet Union are sure to be one of the most complex projects undertaken by the United

States, with four possible successful outcomes. Schneider discusses each of the possibilities and warns that no strategic arms limitation agreement will end the arms race; and if we relinquish any of our advantages without Soviet concessions, the only results can be an unacceptably dangerous agreement or no agreement at all.

"Disarmament and the USSR"—Dr. Scanlan sees the SALT talks as raising the old question of the Soviet disarmament attitude. Cautions prognosticators of Soviet nuclear policy say that everything depends on Soviet intentions which are unknown to us.

He writes that we know enough about Soviet intentions and behavior to predict future behavior with a certain amount of assurance.

The author realizes that existing threats are such as the Soviets find necessary to maintain a high level of armament. However, he concludes that the USSR will continue to be receptive to measures similar to those which have been agreed upon since 1959.

"New Directions for National Defense"—The author writes that our World War II global commitments have led us to believe that our most imminent dangers are those of an international nature. However, he says, there exists domestic threats of a greater potential than the international ones.

He states that we suffer from an over extended foreign policy and weaknesses inherent in possessing excessive strength. Many people attribute this over-extension to the "military-industrial complex." He discusses two reasons why a change in the foreign policy foundation might take place.

Other articles scheduled to appear in the publication are: "Asian Combat Lessons: Do they Apply in Europe?" by Brigadier C. N. Barclay, British Army, Retired, and editor of BRASSEY'S ANNUAL; "No More Vietnams: Ridiculous! Possible?" by Dr. Robert E. Lorish, Chairman, Department of Government, Connecticut College, New London, and

"The Battle of New Orleans"—by Lt. Col. James E. Stallard III, U. S. Army, assigned to the office of the Army's Deputy Chief of Staff for Logistics (this article won the Military History Writing Award for the 1968-69 class at the U. S. Army Command and General Staff College), and

"Kingston Revisited" by Lt. Col. Irwin M. Jacobs, U. S. Army, formerly an instructor in the Department of Joint, Combined and Special Operations at the U. S. Army and General Staff College.

THE MILITARY REVIEW is published here monthly at the U. S. Army Command and General Staff College in close association with the U. S. Army War College, Carlisle Barracks, Pa.



BIG THREE MEETING—The "Big Three"—Army, Navy and Air Force—take a break during the Television Applications Course at the Army Missile and Munitions Center and School. From left are WO Frank R. Spatt, USN, Recruiting Training Center, Orlando, Fla.; First Lt. Robert Stone, USAF, Air University, Maxwell AFB, and Maj. Michael Vasey, USA, Military Police School, Ft. Gordon. Center is Gail Powers, secretary in the TV Applications Division. The course is the only one of its kind in the Army school system. Students learn proper use of TV as a teaching aid.

30-YEAR

(Continued From Page 1)

five months in the Air Force. He retired in May, 1959 and came to work at Redstone in August after assignments in such places as the Philippines, Okinawa, Japan and Germany as well as many places in the U. S.

Julius C. Simpson is another retired Army sergeant who came to work as a bindery worker in the Reproduction Division at Redstone in March 1960. He retired with a disability.

Lawson D. Smithey, a fire fighter, is on sick leave at present but he, too, will be retired on a disability retirement when his leave runs out in October. The retirement has been approved.

Charles W. Hendrix, an electronics supervisor in the NAV-AID Avionic Unit of the Maintenance Support Division, spent seven years during World War II training Army Medical units to operate in war zones. He volunteered to go overseas, but he was shuttled from one side of the United States to the other as a member of the training cadre and never did leave the country. When he got out, he went to school to study electronics, and then went to work for the Air Force at Brookley AFB. He

RADIO CLUB

An organizational meeting will be held Friday, March 6 at 7 p.m., in Building 3463 (MARS) for the purpose of forming a club to further interests in radio communication.

Club membership is open to all active and retired military and civilian employees of Redstone Arsenal.

CALCOTE

(Continued From Page 1)

third-generation "scientific" computer will provide direct on-site support to the Research and Engineering Directorate, giving R&E one of the most advanced simulation capabilities in the country.

With these facilities, an entire weapon system can be simulated, and proven, by computer. Such advanced technology will result in more effective design, greater product reliability, and will decrease development and production costs for Missile Command weapon systems.

Using remote terminal devices, these same facilities can provide on-line computation service to scientists and engineers in the R&E Labs or other Missile Command elements having scientific and engineering problem-solving requirements.

The new MIS Director's office will be located in Room A-268, Building 5250.

came to Redstone Arsenal from Dobbins AF, Ga. and has been here approximately 12 years, on the staff at the Maintenance Support Division. He has been on his present job about six years. His plans for retirement are deferred. He's too young.

Retired Officers Schedule Meeting

The Redstone Chapter, Retired Officers Association, will have a dinner meeting Saturday evening, beginning at 6:30 in the Redstone Officers Open Mess.

MG Edwin I. Donley, Commanding General of the U.S. Army Missile Command, will address the group during the meeting.

Carl Hartman, Chapter President, said that all active duty, reserve and retired officers and wives of all the Armed Services were invited to this meeting.

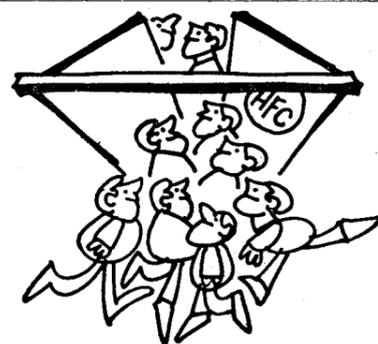
Reservations may be made by calling 539-3974 (Howard) or 536-9611 (Trenkel).

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Civil Service Retirement Monthly Annuities

(Editor's Note: Last Week's issue of the Redstone Rocket carried an article on Civil Service Commission policy allowing employees to retire involuntarily and receive immediate annuities, determined by age and length of service. Approximate monthly Civil Service retirement rates may be determined by using a table contained in Civil Service Commission Pamphlet 18 dated January 1967. This table is reproduced below for the benefit of employees wishing to figure their approximate retirement annuities. The table is self explanatory except for the column

containing "A" and "B". The "A" line is monthly annuity to retired employee if survivor benefit is not elected. The "B" line is monthly annuity to retired employee with maximum benefit to surviving spouse. The maximum benefit to surviving spouse of retired employee, or benefit to widow or dependent widower of employee whose death occurs before retirement, is approximately 55% of rate A. The annuity of employees who retire before reaching age 55 will be reduced by two per cent per year for each year the employee is under age 55.)

(Average annual salary 3 highest consecutive years)

Years of Service	\$4,000	\$5,000	\$6,000	\$7,000	\$8,000	\$9,000	\$10,000	\$11,000	\$12,000	\$13,000	\$14,000	\$15,000	\$16,000	\$17,000	\$18,000	\$19,000	\$20,000	\$21,000	\$22,000	\$23,000	\$24,000	\$25,000	Years of Service
5 A	\$27	\$31	\$38	\$44	\$50	\$56	\$63	\$69	\$75	\$81	\$88	\$94	\$100	\$106	\$113	\$119	\$125	\$131	\$138	\$144	\$150	\$156	A 5
5 B	26	30	37	43	49	55	61	67	73	79	85	91	98	104	110	116	122	128	134	140	146	152	B
6 A	33	39	46	54	62	69	77	85	93	100	108	116	123	131	139	146	154	162	170	177	185	193	A 6
6 B	32	38	45	53	60	68	75	83	90	98	105	113	120	128	135	143	150	158	165	173	180	188	B
7 A	39	46	55	64	73	83	92	101	110	119	128	137	147	156	165	174	183	193	202	211	220	229	A 7
7 B	38	45	54	63	71	80	89	98	107	116	125	134	143	152	161	170	179	188	197	206	215	223	B
8 A	45	53	64	74	85	96	106	117	128	138	149	159	170	181	191	202	213	223	234	244	255	266	A 8
8 B	43	52	62	73	83	93	104	114	124	135	145	155	166	176	186	197	207	218	228	238	249	259	B
9 A	50	60	73	85	97	109	121	133	145	157	169	181	193	205	218	230	242	254	266	278	290	302	A 9
9 B	49	59	71	82	94	106	118	130	141	153	165	177	189	200	212	224	236	247	259	271	283	294	B
10 A	56	68	81	95	108	122	135	149	163	176	190	203	217	230	244	257	271	284	298	311	325	339	A 10
10 B	55	66	79	92	106	119	132	145	158	172	185	198	211	224	238	251	264	277	290	303	315	327	B
11 A	63	76	91	106	122	137	152	167	183	198	213	228	243	259	274	289	304	319	335	350	365	380	A 11
11 B	61	74	89	104	119	133	148	163	178	193	208	222	237	252	267	282	296	310	324	337	351	365	B
12 A	70	84	101	118	135	152	169	186	203	219	236	253	270	287	304	321	338	354	371	388	405	422	A 12
12 B	68	82	99	115	132	148	165	181	197	214	230	247	263	280	296	311	326	341	357	372	387	402	B
13 A	76	93	111	130	148	167	185	204	223	241	260	278	297	315	334	352	371	389	408	426	445	464	A 13
13 B	74	90	108	127	145	163	181	199	217	235	253	271	289	306	323	340	356	373	390	406	423	440	B
14 A	83	101	121	141	162	182	202	222	243	263	283	303	323	344	364	384	404	424	445	465	485	505	A 14
14 B	81	98	118	138	158	177	197	217	236	256	276	295	314	332	350	368	386	404	423	441	459	477	B
15 A	90	109	131	153	175	197	219	241	263	284	306	328	350	372	394	416	438	459	481	503	525	547	A 15
15 B	87	107	128	149	171	192	213	235	256	277	298	318	338	357	377	397	416	436	456	475	495	515	B
16 A	96	118	141	165	188	212	235	259	283	306	330	353	377	400	424	447	471	494	518	541	565	589	A 16
16 B	94	115	138	161	184	207	230	252	275	298	319	340	362	383	404	425	446	467	489	510	531	552	B
17 A	103	126	151	176	202	227	252	277	303	328	353	378	403	429	454	479	504	529	555	580	605	630	A 17
17 B	100	123	147	172	197	221	246	270	295	317	340	363	386	408	431	454	476	499	522	544	567	590	B
18 A	110	134	161	188	215	242	269	296	323	349	376	403	430	457	484	511	538	564	591	618	645	672	A 18
18 B	107	131	157	183	210	236	262	288	313	337	361	385	410	434	458	482	506	530	555	579	603	627	B
19 A	116	143	171	200	228	257	285	314	343	371	400	428	457	485	514	542	571	599	628	656	685	714	A 19
19 B	113	139	167	195	223	250	278	305	331	356	382	408	434	459	485	511	536	562	588	613	639	665	B
20 A	123	151	181	211	242	272	302	332	363	393	423	453	483	514	544	574	604	634	665	695	725	755	A 20
20 B	120	147	177	206	236	265	294	322	349	376	403	430	458	485	512	539	566	593	621	648	675	702	B
21 A	130	159	191	223	255	287	319	351	383	414	446	478	510	542	574	606	638	669	701	733	765	797	A 21
21 B	126	155	186	218	249	280	309	338	367	395	424	453	482	510	539	568	596	625	654	682	711	740	B
22 A	136	168	201	235	268	302	335	369	403	436	470	503	537	570	604	637	671	704	738	771	805	839	A 22
22 B	133	164	196	229	262	294	324	355	385	415	445	475	506	536	566	596	626	656	687	717	747	777	B
23 A	143	176	211	246	282	317	352	387	423	458	493	528	563	599	634	669	704	739	775	810	845	880	A 23
23 B	139	172	206	240	275	308	339	371	403	434	466	498	530	561	593	625	656	688	720	751	783	815	B
24 A	150	184	221	258	295	332	369	406	443	479	516	553	590	627	664	701	738	774	811	848	885	922	A 24
24 B	146	180	216	252	288	321	354	388	421	454	487	520	554	587	620	653	686	719	753	786	819	852	B
25 A	156	193	231	270	308	347	385	424	463	501	540	578	617	655	694	732	771	809	848	886	925	964	A 25
25 B	152	188	225	263	300	335	369	404	439	473	508	543	578	612	647	682	716	751	786	820	855	890	B
26 A	163	201	241	281	322	362	402	442	483	523	563	603	643	684	724	764	804	844	885	925	965	1005	A 26
26 B	159	196	235	274	312	348	384	421	457	493	529	565	602	638	674	710	746	782	819	855	891	927	B
27 A	170	209	251	293	335	377	419	461	503	544	586	628	670	712	754	796	838	879	921	963	1005	1047	A 27
27 B	165	204	245	286	324	362	399	437	475	512	550	588	626	663	701	739	776	814	852	889	927	965	B
28 A	176	218	261	305	348	392	435	479	523	566	610	653	697	740	784	827	871	914	958	1001	1045	1089	A 28
28 B	172	212	255	297	336	375	414	454	493	532	571	610	650	689	728	767	806	845	885	924	963	1002	B
29 A	183	226	271	316	362	407	452	497	543	588	633	678	723	769	814	859	904	949	995	1040	1085	1130	A 29
29 B	178	220	264	307	348	389	429	470	511	551	592	633	674	714	755	796	836	877	918	958	999	1040	B
30 A	190	234	281	328	375	422	469	516	563	609	656	703	750	797	844	891	938	984	1031	1078	1125	1172	A 30
30 B	185	229	274	318	360	402	444	487	529	571	613	655	698	740	782	824	866	908	951	993	1035	1077	B
31 A	196	243	291	340	388	437	485	534	583	631	680	728	777	825	874	922	971	1019</					

Some Rules For Observing Total Eclipse Due March 7

Nearly every time a solar eclipse occurs in a populated area, several cases of minor or severe eye damage are reported. On March 7, 1970, the sun will be totally eclipsed along an 85-mile-wide path, crossing southern Mexico, northern Florida, Georgia, South and North Carolina, Nantucket, Nova Scotia and Newfoundland. All of North America (except Alaska), Mexico and northwestern South America will see a partial eclipse. The eclipse will occur near noon, hence the intensity of the high-overhead sun's radiation will not be obscured by low atmospheric haze.

A total eclipse of the sun is one of the most beautiful sights a person is likely to see, but without using simple precautions it can be dangerous to one's eyesight.

The totally eclipsed sun is much less bright than the full moon and

can be safely observed (and should be) without the need for any protective filters!

The DANGER of eye damage is prevalent only during the partial eclipse periods before and after totality. The sun shines brightly in the sky every clear day, but no one would think of staring directly at it except when an eclipse is in process. The brightness of the solar disc is not reduced at all until the moment of totality.

BEWARE of dark filters that have not been tested for their transmission in the ultra-violet and infra-red portions of the spectrum. A filter can be extremely dark in the visible region but still let through amounts of energy dangerous to the eye in the ultra-violet and infra-red.

A solar eclipse can be safely observed if these suggestions are followed:

1. Observe the partial eclipse phase by projecting the image of the sun onto a white piece of paper with the aid of one-half of a binocular or a small telescope, or

2. Use a safe filter—the only easily obtainable safe filter is a piece of fully exposed and developed black-and-white film (not color film or photographic neutral-density filters).

3. If a filter is used, DO NOT stare at the sun for long periods. The partial eclipse phases last 2 to 3 hours near the path of totality, thus a quick observation every few minutes is sufficient for following the progress of the eclipse.

3. When the solar disc is completely covered by the moon (this total eclipse phase lasts only 3 minutes and is observable only in the narrow 85-mile-wide path of totality) all protective filtration can be removed for observation of the solar corona and prominences.

CAUTION: Be prepared to use the projection or filter method again at the end of totality (the moment when the moon starts to uncover the solar disc.)

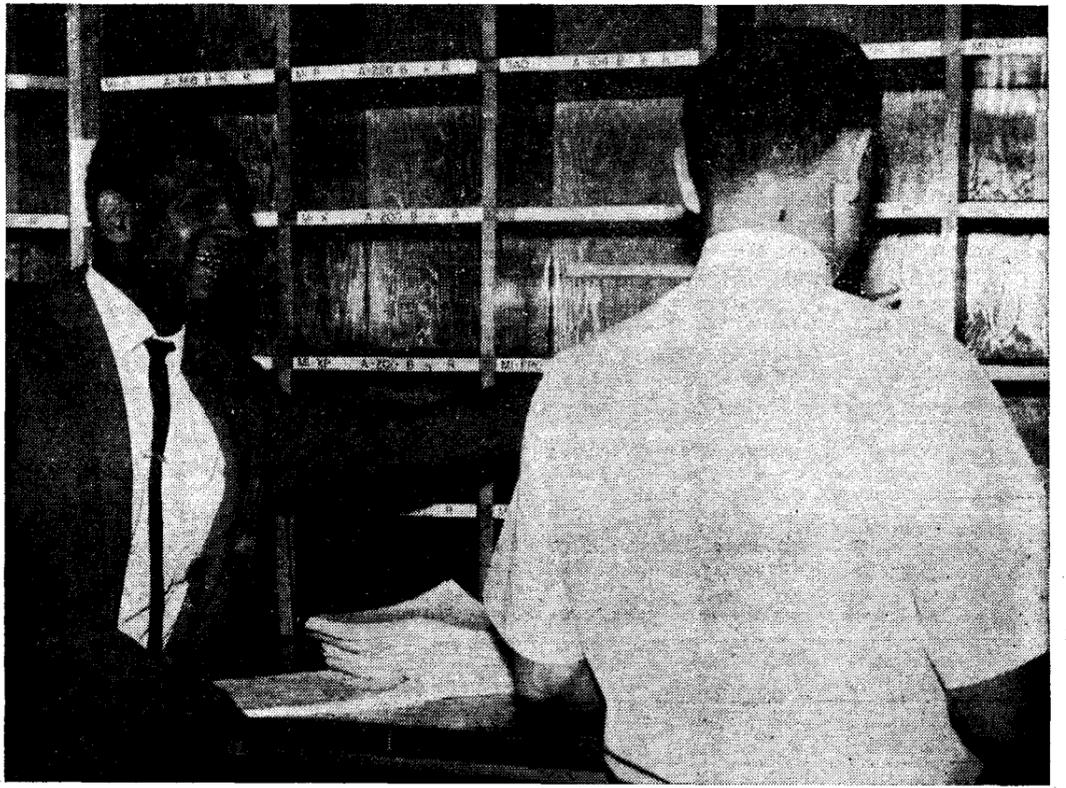
Redstone Toastmistress Club Receives Charter

The Redstone Toastmistress Club was granted its charter from International Toastmistress Clubs. Already underway are plans for the charter meeting, which will be a banquet at the Redstone Officers' Mess on the evening of April 23.

The luncheon meeting of the Club was held in the Pershing Room of the Officers' Open Mess on Wednesday, Feb. 18.

Mrs. Houston G. Adams served as Toastmistress and introduced the theme, "Adventures in Leadership". Mrs. M. W. Wilkie gave an extemporaneous speech entitled "Leadership Through Participation and Member Responsibility". Other speakers were Mrs. Clyde W. Miller, Mrs. Alfred S. Czachowski, and Miss Barbara Simmons, who gave autobiographies. Mrs. Miller was voted best speaker.

The next meeting will be on March 4.



SORTING—James Milner, left, helps sort incoming material at the Missile Command Mail Distribution Center.

Milner Meets Himself Covering His Endeavors

There are times when it would be nice if neat, energetic James Milner could be three people at once because he would enjoy being any of them. There would be one who works full time at the Army Missile Command, one who studies accounting at a local business college, and one who plays the bass fiddle and acts in little theater plays.

But since he's only one man, Milner works efficiently at the Missile Command Mail Distribution Center during the day and goes to school three nights a week.

Before he took on this heavy load, he was spending some time with a little theater group, driving a cab and finally working for a local motel as driver and part time desk clerk. He still manages to play his bass fiddle sometimes, an accomplishment he acquired without formal instruction. "I just picked it up," he said.

And he started much of this activity after spending 23 years, one month and 28 days in the Ar-

my where he gained a variety of administrative experiences.

One of his last assignments was in the finance and accounting area which prompted his interest in studying accounting as a career. "I'm looking for a field that offers challenges" is this imaginative man's way of describing his goal.

"I don't have much time for hobbies these days because when I'm not at work or in school, I'm studying," the soft speaking Milner said. "The courses aren't hard because it's something I want very much to do. It does take a lot of time away from home life, but future employment as an account-

ant should make it worth the effort."

Milner was born in Washington, D.C., but has had time for only short visits there because his Army career kept him moving all over the world.

He has been stationed at Ft. Myer, Va.; Ft. Francis E. Warren, Wyoming; Camp Forest, Tenn.; Ft. Dix, N.J.; Liverpool, England; all through France and parts of Belgium, Metz, Luxembourg; Germany (four times); Japan; Korea; Ft. Bragg, N.C.; Ft. Riley, Kansas; and of course, Redstone.

His decorations include two ribbons with three battle stars each, and his awards include several letters of appreciation.

Milner's wife, Cathryne Anne, shares his interest in music and has written songs as well as poetry. They have a son, Ronald D., 11.

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An all girl show called the Body Shoppe will entertain Enlisted Men at the Service Club on Sunday at 8 p.m.

Two of the girls work in the show between classes at the University of Kentucky.

The "Body Shoppe" plays rock, soul, and standard music and songs. Members of the band are Wilma Thress lead singer and bass guitar; LaVerne Cox, drums, Linda Edwards, saxophone; Susie Hurt, singer, and Judy Soloman singer and guitar player.

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By SFC Ben Casey

Give yourself a pat on the back. Due to your efforts, the School has continued to maintain its high standings in the Third U.S. Army Savings Bond Program for the second quarter of this fiscal year. According to statistics released by Third Army the School had a participation rate of 93.7 per cent, second only to Ft. Campbell's 94.62 per cent participation.

More announcements from Third U. S. Army. Several former members of the command have been cited for their outstanding performance of duty. Receiving the

Meritorious Service Medal are COL Hubert R. Jones, LTC Hoyt M. Hammer, Jr. and MAJ James M. Sponseller. Army Commendation Medals—CPT Edward A. Barry, CPT William F. Gossman, Jr., CPT Samuel A. Masson, 2LT Charles W. Brooks, and MSG Ervin L. Nichols. First Oak Leaf Cluster—ARCM—CPT Derwin B. Pope, WO Ira D. Barnes and SFC Floyd R. Read.



MSG ELLIOT



MSG WHEELER

Promotions

Congratulations to MSG Sherman P. Wheeler and MSG John A. Elliot, Sch. Bde., on their promotion to their present grades.

Both were promoted by COL J. L. Keown at Bde. Hq.

Awards Ceremony

Eight 1st Bn soldiers were recognized for their outstanding performance of duty last Thursday at an awards ceremony. Leading the parade of honorees was SP5 Jerry Barbera, Co. B, recipient of the Bronze Star. The Air Medal was received by MSG Williard G. Johnson, Co. D while the Army Commendation Medal was received by SP4 Dennis A. Glick, Co. D. Other citations received were: Certificate of Achievement from Europe—SP4 Richard L. Clubb, Co. A. MMCS Instructor of the Quarter—SP4 James R. Kean, Co. D. MMCS Soldier of the Month—SP5 Robert F. Taylor, Co. C Bn. SOM—SP4 Richard Hester, Co. A. Blood Donors Trophy—Co. A, commanded by CPT Donald R. Bell.

Graduation Speaker

CPT C. M. Mitchell, LCM Opns Off., has been selected to be the graduation speaker for Friday's graduation at the Post Theatre. A graduate of Westminster College, Fulton, Mo., CPT Mitchell is listed in Who's Who in American Colleges and Universities, 62-63. He received his commission through ROTC in 1963 and attended the Basic Infantry Officer's Course at Ft. Benning, Ga. Prior to being assigned to the School CPT Mitchell served with the USA Ord. Center and School, APG, Md. A member of Kappa Alpha Frater-

Hatcher, Cash To Present Paper At Army Conference

John Hatcher, an Army Missile Command scientist, will present a paper at the Army Science Conference, West Point, New York, in June.

Hatcher's paper, entitled "Radar Polarization Diversity Effects on Target Reradiated Phase Front", covers the theoretical aspects of a radar research program designed to investigate the effectiveness of polarization agility as a means of reducing target angle noise effects in radar tracking systems.

This research work was conducted by the Radar Branch, Advanced Sensors Laboratory, Research & Engineering Directorate, with support from the Georgia Institute of Technology in the design of a polarization agile antenna for the experimental radar used in the program. Georgia Tech also performed a supporting study by digital simulation to determine the reduction of radar tracking errors with polarization agility for two scatter target models having different polarization sensitivities.

Carlton H. Cash, Advanced Sensors Laboratory, is senior investigator on this research. Hatcher, a native of McEwen, Tennessee, graduated at Vanderbilt University in 1958 with the BS in Electrical Engineering, and received the Master's Degree in Engineering at the University of Alabama, Huntsville. Hatcher has numerous technical publications to his credit.

Welcome mats were also extended to 2LT Bobby J. Roberson. 1SG James Reaford and SFC Donald Butcher.

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Mullinax, Dooley Top CWF All-Star Selections

League Decrees Single Elimination For Playoff

Two unanimous choices head the selection of players for the Civilian Welfare Fund basketball league all-star team named by league coaches last week.

Each of the opposing coaches named Jerry Mullinax of the ICO team, and Jerry Dooley, high scoring Research and Engineering forward. The 16-man squad was named to represent the league in an All-Star Game against the best performers in the Marshall Space Flight Center league.

The selections were announced at a league meeting last week. At the same time a change was made in the format for the playoff tournament that got underway last Friday evening.

It was originally planned to play a double elimination meet with the last four survivors qualifying for the All-Redstone playoffs against Marshall.

However, the teams will now play a single-elimination tourney with the four semi-finalists getting the nod to advance. All twelve league teams will compete rather than the top eight as originally planned.

The three-league co-champions, ICO, Finance and Accounting, and Engineering QA, were seeded for

the tourney along with the fourth place Missile Intelligence five.

The All-Star team selections included three players from each of the co-winners plus representatives from six other teams. Joe Clark, of Engineering QA, was named to coach the team.

Mullinax is joined by ICO team mates, Dennis Vaughn and Vandy Cobb. The F&A selections were Greg Bogue, Jim Bunnell and Elliott Agee. Don Woods, Alton

Maddux and Neil Winterburn are the QA selections.

R&E was the only other team with more than one representative with George Starkey joining Dooley. Mel Thomas is the MID selection.

The rest of the all-star team is made up of Bishop Arnold, the Data Processing star, Jerry Reeves, of Safeguard, Hamil Martin, Corps of Engineers, and Larry Veech, from the Missile School.

Woods, Bogue and Thomas were named on nine of ten ballots while Bunnell and Vaughn received eight votes apiece.

Hot Shooting Trio Gets 94-Plus Back In Running

Two weeks ago 94-Plus found itself 80 pins behind after the first game against Nike Track enroute to a four point loss. Last week, the tide turned.

The unpredictable 94-Plus scored 1,042 pins in its first game against Co. A enroute to a four-point lashing of the Alpha bowling team.

The win propelled the one-time league leaders back into contention for the crown, just three points off the pace. The Plus got stellar performances from three keggers. Harry Kretlow missed an honor roll set by eight pins to lead the attack while Bill Ansick hit for 579 pins. Ken Wilbur also had a good night, hitting 525.

Co. A's anchor man Ed Gorzynski hit 575 sticks while Rick Robinson had 520 in a losing cause. Co. A is now tied for third with Retired.

Skeet Shooters Blank Marshall

Almost two months of inactivity had little affect on the accuracy of the Missile Command skeet shooters when they finally got in their fourth match of the Industrial Skeet League winter season.

The CWF-sponsored shooters, idled through three straight postponements, returned to the Pine Bluff Skeet Club last week and celebrated with a 3-0 shutout of the Gyro Lab team from the Marshall Space Flight Center.

Ken Shipp was in his usual near-perfect form by buting 49 of a possible 50 birds in leading his mates to the win. Joining Shipp in posting the win were Bob Thomas, Jim Weaver, Bob Noack and Joe Donahue.

It was the third time that Shipp has come within a single bird of a perfect run.

his Hard Hat teammates to a 4-game victory.

Roy Parmalee, anchor man for the Sandbaggers, turned in a 182-204-181 for a 567 series which took high series honors for the night.

The top four teams are still closely grouped with only eight points separating 4th from 1st. The Lucky Strikes are still king of the mountain but the Jawbreakers moved to within 6 points of the lead. The Hardhats dropped to 3d and D2 dropped from 2d to 4th.

Drive Safely!

Girls Fight For Berth In Finals

The Missile Command girls are down to their last chance in a bid to wrest the Huntsville Women's basketball title away from the defending champions from General Electric.

MICOM had a date with Fashion Twenty this week with the winner earning a right to challenge the unbeaten GE sextet for the crown next Monday evening. Each of the challengers have dropped a tournament start to GE and face the prospect of having to defeat GE twice in the final round.

The Army girls won both regular season encounters from FTT but lost to GE twice during the season and again in the playoffs.

They reached the final round of the loser's bracket last week in disposing of RCA, 59-34, as Gladys Hill continued her torrid scoring pace with a 31-point outburst.

Carole Bissinger also scored in double figures with an even dozen points. Wyonelle Pennington hit for seven, Joyce Ingram collected five and Evelyn Smith completed the scoring with two goals for four points.

The Weather Caused This?

Wednesday nights warm balmy air had a decidedly lulling effect on bowlers in the RSA Officers League. One bowler, whose name will not be mentioned, was apparently the victim of a serious case of spring fever, and other maladies, as he rolled a 89-72-59 for a sleepy 220 series.

Bob Nix rolled a wide awake 225 his first game but the Sandbagger then dropped sharply for a 518 series. George Stewart, who apparently was taking "No Doze" tablets, had a 559 series as he led



BIG BEAVER—LITTLE BEAVER—SFC Joseph T. Gajdos of the Redstone Arsenal Game Warden's Office displays two beavers that he trapped on the Arsenal. The big beaver weighs over 80 lbs. while the small one weighs just a little over a pound. Beavers on the Arsenal chew down valuable timber, block drainage ditches, damage culverts and build dams where they are not needed. Gajdos says this is the largest beaver yet trapped on the post.

Surging Bandits Suffer Traveller-Inspired Lapse

The championship hopes of the Bandits in the AMC-Civilian Welfare bowling league ran into a roadblock thrown up by the Travellers last week but the leaders couldn't have picked a better time for their bad night.

The travellers swept all four points of their match with the Bandits but the Sprinters softened the blow by taking three out of four from the runner up All-Sports. In losing a point of their margin, the Bandits now head the pack by three and a half lengths.

The Bombers won two and a half from the Rejectors and the Voyagers captured three from the Alley Cats to move up in the race that appears to be tightening again.

Jim Hill was the chief instigator in the Bandit fall with a 539 while John Goltz authored a 557 count for the leaders. Earl Sims

blasted a 582 total that included a 225 game for the Sprinters and the top All-Sport gunner was Bill Esslinger whose 562 run included a 223 game.

Hugh Porterfield paced the well-rounded Bomber attack that overcame a 567 by Jim McBride and a 550 by Chuck LeMonde. The Voyagers took their lead from Paul Baggett's 537 count.

Don Ross captured individual scratch honors by shooting a 588 to get the Raiders a 3-1 margin over the Lancers and Carl Morrison turned in a 533 card as the Metro Cals took three from the Tigers.

The Avengers accounted for the only other sweep in blanking the T-Birds as Steve Stevens flattened 567 sticks, and the Wonnors used a big third game to gain a split with the Jokers.

MICOM Felled

249th Disrupts Tourney Form Sheet

The prospects of a showdown battle between the Missile Command and the Student Officers for Redstone Arsenal basketball supremacy is still possible though considerably less likely than a week ago.

The cagers from the 249th Ordnance caused an abrupt change in the post season playoff form charts last week when they doled out a stunning setback to the previously unbeaten MICOM five in the second round of the National Division playoff.

Six games were played in the National Division along with five American Division contests with the 563rd Ordnance and A Company being the first casualties in the 16-team shootout.

In American Division play the Student Officers started the 563rd on their demise and D Company completed it with a loser's bracket conquest. D had been dealt an opening round loss by MICOM (II).

Other first round games in the American saw the 9th ETC take the measure of the 7th ETC and B Company defeat the 5th ETC.

MICOM ran their winning streak to twelve with an opening round defeat of 6th ETC and the 249th made it to the second round by turning in an overtime win over A Company.

The 8th ETC fell before C Company and the Military Police trimmed the 522nd Ordnance to complete the opening round play in the

National Division.

The 249th jumped off to an early lead in their battle with the regular season winners and extended their advantage to 16 points at the halfway point.

MICOM started finding the range following the intermission

and wiped out the lead by the middle of the final period only to drop a two-point decision in missing four straight shots in the final minute of play.

The Sixth sent A spinning to the sidelines in a loser's bracket contest.

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Obstetricians Spell Each Other, Day On, Day Off

Dr. (Maj.) Duane F. Gerstenberger approaches each new situation positively, an attitude that led him into medicine after four years in the Air Force as a communications specialist.

He is one of two obstetricians at the OB-GYN clinic, maintained as part of the Redstone Arsenal Medical Department activities, and he

Missile Command Gets New Type Model Of Tracker

A laboratory model of a simple tracker designed to guide a missile to a laser-illuminated target has been delivered to the Army Missile Command.

The tracker, after miniaturization, could be the guidance sensor in an air-to-ground or ground-to-ground missile that would home on a target illuminated by a laser, the Army said.

Other potential uses include station keeping in space flight, location of downed pilots and automatic alignment of industrial machinery.

Delivered by McDonnell Douglas Corporation, the tracker was developed under Army contract by the McDonnell Research Laboratories.

A chief attribute of the tracker is its simplicity. The tracker responds virtually instantaneously to target movement.

Work with the laser tracker at the Army Missile Command is being directed by the Electro-Optical Branch, Advanced Sensors Laboratory, Research and Engineering Directorate.

PLANETARIUM SHOW

The next public show presented by the Rocket City Astronomical Association will be at the Planetarium on Monte Sano Feb. 28, at 1:30 and 3:00 p.m.

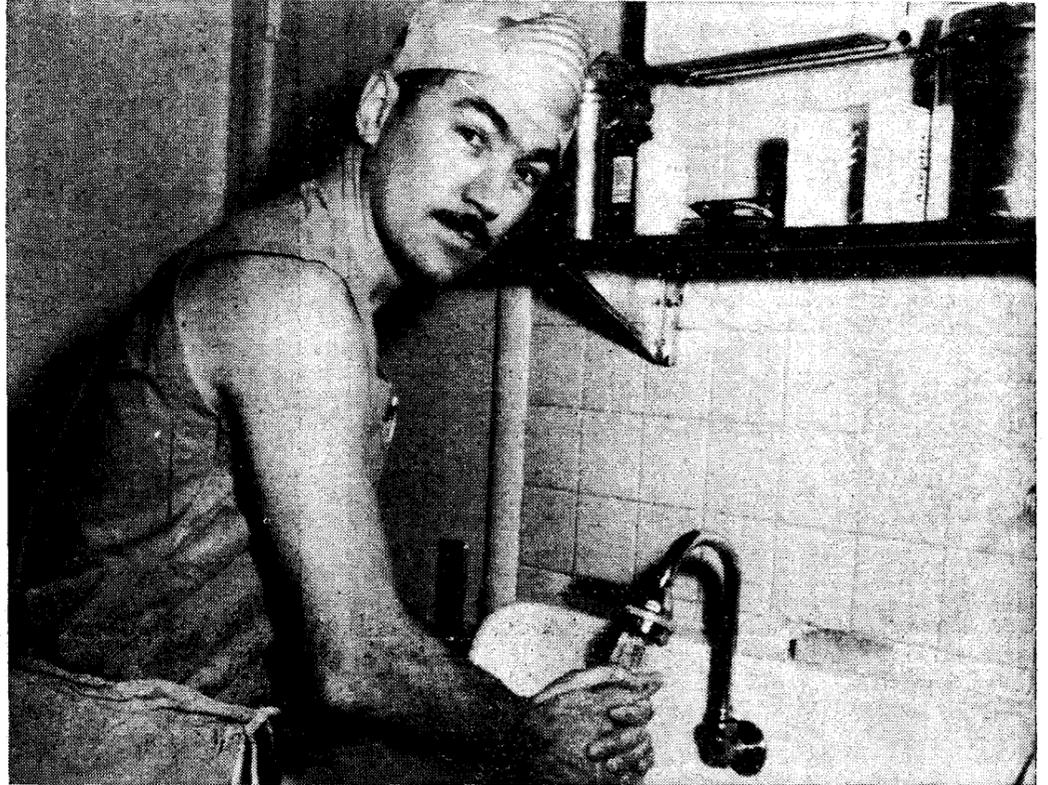
The topic of this program is: "The Results of Apollo XI and XII Moon Missions." The speaker will be Dr. Ernst Stuhlinger, Associate Director for Science at the Marshall Space Flight Center.

is subject to call as obstetrician every other night. With approximately 40 babies each month, whose mothers receive prenatal care under his supervision, he knows he is subject to a rude awakening at any hour every other night of a month. The number of babies is considered a "normal" workload for any doctor, in or out of the Army.

However, Dr. Gerstenberger is lamenting the fact that the staff of two is inadequate to tend the potential 60,000 active duty and retired gynecological patients in this area entitled to care at the clinic. Therefore, he surmises, a great many women are not receiving periodic checkups, even though a certain percentage of the total are using services of doctors in the community.

The staff of two is based on the active duty population assigned at Redstone Arsenal. Despite the drawback of more work than can be brought current, Dr. Gerstenberger is an Army career doctor. Not only that, he is assigned in the Deep South by choice.

After graduating from the University of Washington Medical School at Seattle, Dr. Gerstenberger enrolled in the Army's intern program. He completed his interne-



DR. DUANE GERSTENBERGER
Obstetrician, Second of Series

ship at Ft. Benning, Ga., and his residency at Tripler General Hospital in Hawaii.

Therefore, when he was given a choice, he and his wife agreed they would like another Southern assignment.

The Gerstenbergers and their three children live on Squirrel Hill near the Army Hospital.

Dr. Gerstenberger grew up on the shores of Puget Sound. His parents live in Everett, Wash. This undoubtedly has some bearing on the fact that sailing is one of his favorite forms of relaxation; but with the busy schedule he has found little time for this activity since joining the staff here in

September 1969.

If an obstetrician goes on leave,

to 24-hour-call every day until the vacationer returns. Babies choose their own time to arrive.

Theatre Schedule

WED., Feb. 25
"Alfred the Great" (M)
THURS.-FRI., Feb. 26-27
"Where Eagles Dare" (M)
SAT., Feb. 28
"Chitty Chitty Bang Bang" (G)
SUN.-MON., March 1-2
"Midnight Cowboy" (X) No one under 17 years of age will be admitted.
INCREASED ADMISSION: 75c
TUES., March 3
"Staircase" (R)
Two shows nightly at 6:00 and 8:30 p.m. Sunday matinee at 2:00 p.m.

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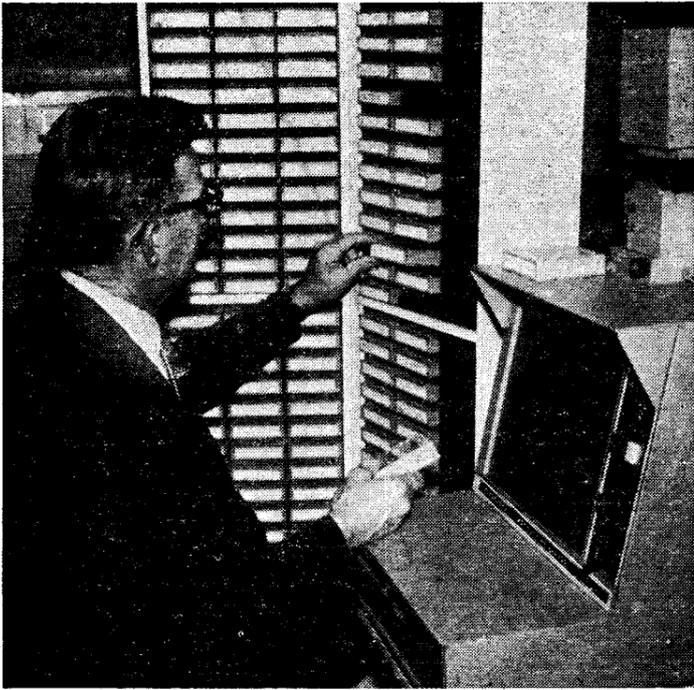
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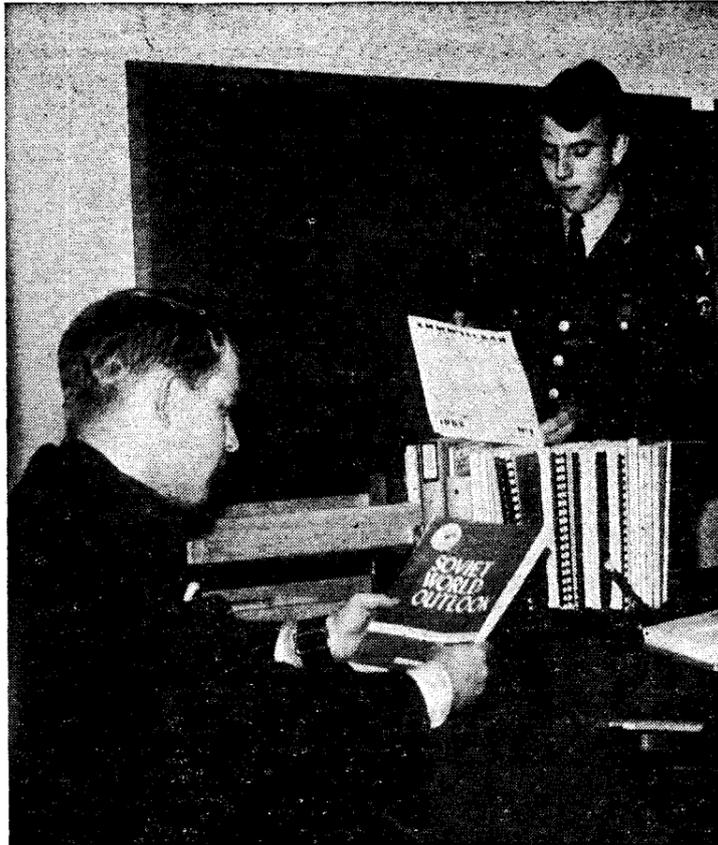
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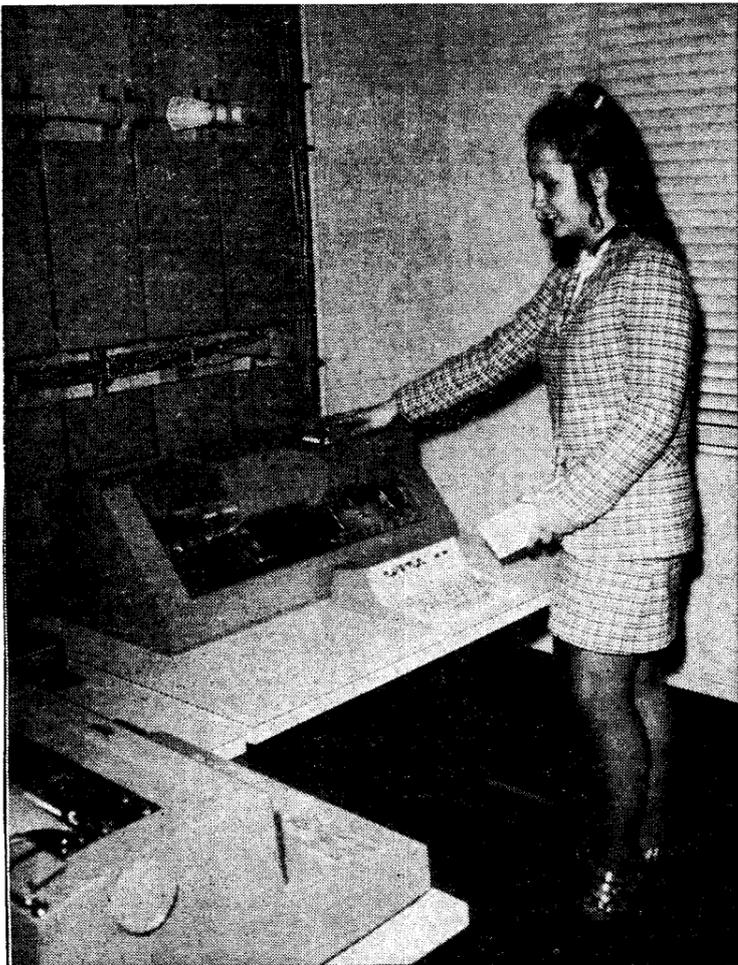
Redstone Information Center Is Store House



AT HIS FINGERTIPS—James R. Tullos, a Logistics Instructor at the U. S. Army Missile and Munitions Center and School, uses a Microfilm Retrieval System to review information for his new lesson plans. Such systems make it easy for library patrons to review technical data efficiently and quickly.



RUSSIAN MADE EASY—Spec 5 Mike Kondratieff, seated, and Spec 5 Milton Luce, look over several Russian magazines that they have been called upon to translate for library patrons. The Translation Section has immediate capabilities for translation of Russian, German, Dutch, Flemish and French languages and an arrangement with U. S. Publications Research Service for translations in any language.



LATEST EQUIPMENT—Kathy Debs, a co-op student from Auburn University uses one of the latest Card Punch machines. As techniques improve, more and more library functions are being automated and computerized to provide, better, faster and quicker information to the user.



DOCUMENTS, DOCUMENTS, DOCUMENTS!—Mrs. Rose Sidick, left, Reference librarian, Claire Rogers, center, Librarian Supervisor, and Nancy Stilson, Head Reference Librarian, work among microfilm cassette holders for more than 60,000 documents destined for the files of the Redstone Scientific Information Center. These are a part of the over one million documents in the RSIC collection.

From national defense to space exploration—from missile systems to rocket ships, the Redstone Scientific Information Center stands in the midst of our nation's missile and space programs.

This unique scientific center, supported jointly since 1962 by the U.S. Army Missile Command and NASA's Marshall Space Flight Center, provides the latest engineering and technological information on all missile and space developments.

Dr. John P. Hallowes, Chief Scientist, Army Missile Command, calls it "the best technical library of any institution or installation in the entire South."

Actually, RSIC began in 1949 when a technical library was established to support Redstone Arsenal, which was the newly designated Center for Ordnance Department research and development activities pertaining to rockets and related items.

Incorporation of Thiokol Corporation's Research and Development Library with the Army's library in 1949 resulted in the facilities being made available to Army and contractor personnel.

Still growing, the library inventory then received a big boost with the transfer of technical books and reports from the Ordnance Research and Development Sub-Office at Fort Bliss, Texas.

One of the big events that really established RSIC was the transfer in 1951 of the captured Peenemunde documents along with catalogs of abstracts of captured German documents.

Further expansion occurred when the Center was designated as the repository for all films on rockets and guided missiles and all research and development reports of the Ordnance Department.

When the Marshall Space Flight Center was established in 1960, this placed two organizations on Redstone Arsenal with similar interests and different programs. The Missile Command was interested in the development of missiles and weapons systems for national defense while NASA's MSFC was interested in the peaceful exploration of space.

In 1962, the late Major General Francis J. McMorrow, Commanding General, Army Missile Command and Dr. Wernher von Braun, Director MSFC, established joint support for RSIC to provide both the Command and the Center with scientific information and library services.

Today, the Center has grown beyond the wildest dreams of the pioneers who started over 20 years ago. In addition to scientific information and library services, the Center now provides translations, bibliographic, information searches, abstracts and information retrieval, holdings in disciplines that support Command and Center missions, and maintains liaison with educational, scientific and indus-

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PERIODICALS EVERYWHERE—Annie Jones, left, working with the Student Youth Opportunity Program, assists Brian Desind, an Engineer with Heat Technology Laboratory, a contractor to NASA, in finding a certain periodical. More than 2,816 related periodical titles are listed along with a total of 39,800 periodicals on record.

For Space, Missile Technological Advances

trial establishments with related interests.

In reaching such a pre-eminent position among educational and informational organizations, RSIC has accrued some very impressive statistics. A brief description of assets include the following:

The Center maintains a collection of 2,816 periodical titles directly related to local missions. It has on record in the library 39,800 periodical volumes.

Books and bound journals listed at the end of 1969 numbered 156,300 and other open literature items numbered 256,700.

The RSIC document collection is now considered to be the largest known collection in the Free World. Included in the collection are microfilm from NASA and the Atomic Energy Commission in addition to 315,000 full size specially selected technical reports. Total holdings in the collection now number 1,085,300 documents.

As facilities have increased, services to the patrons have been extended to all phases of information. Telex and teletype connections are presently used to gain access to off post collections and future plans call for on-line information retrieval from DDC and NASA for retrospective searches and on-going programs.

Translation capabilities in Russian, German, Dutch, Flemish and French languages can be performed on-the-spot while an arrangement with the U.S. Publications Research Service provides translations from any language.

Membership in the Interagency Data Exchange Program (IDEP) has established cooperation between agencies to the mutual benefit of all. During its nine years of operation RSIC has exchanged more than 26,000 test reports and over 12,000 calibration procedures among some 240 participants.

Just this part of the operation resulted in \$35 million savings to the government.

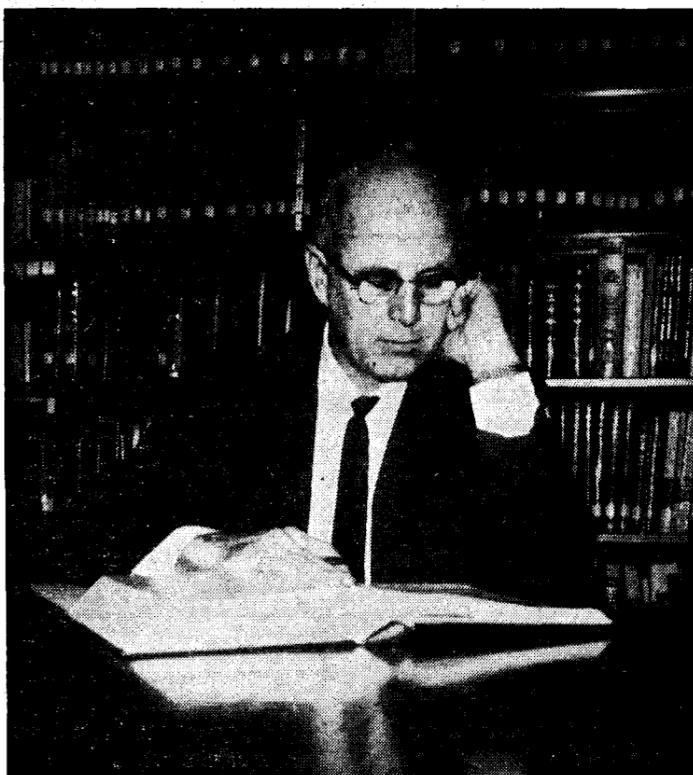
According to Dr. John L. McDaniel, Acting Director, Research and Engineering Directorate, Army Missile Command, "Our scientists and engineers have easy access to one of the most complete Scientific Centers in our Nation. With such facilities available they are able to take advantage of all combined technology in the development of more reliable and less expensive missile and rocket systems."

Dr. Julian S. Kobler, Director of the Information Center, points out that while the Center is now "better than ever" plans are already being made to include analyzing, organizing, abstracting, indexing and computerizing various areas of technology related to missile and space research and involving Independent Industrial Research and Development.

For Mrs. Cleo Cason, Head Librarian, who has been with the Center "for well over 20 years", it has been a long journey from the "Model T" days of rockets, missiles and space exploration to the complex Army missile systems and space launch vehicles of today.



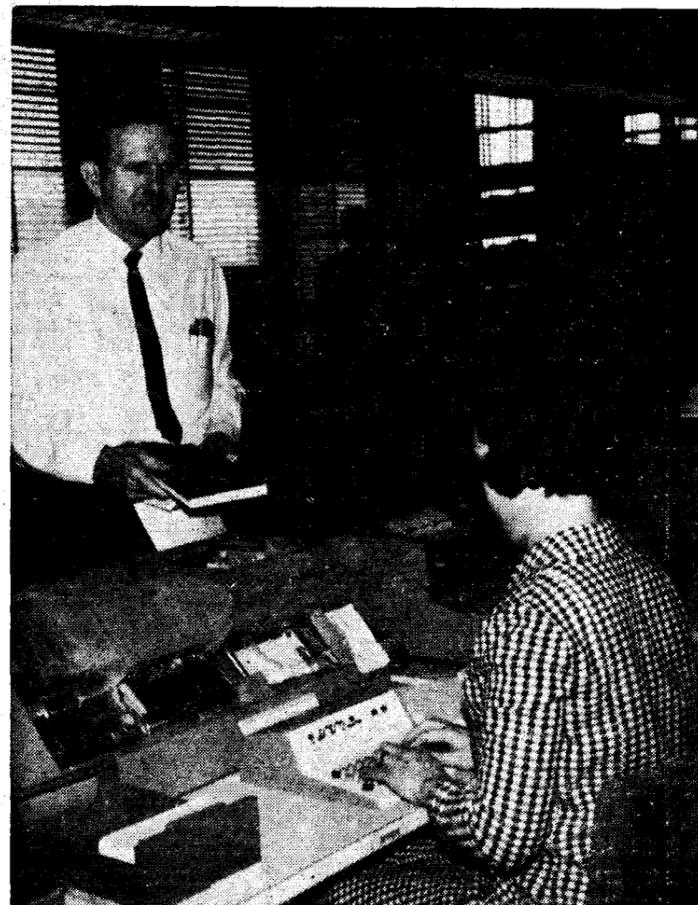
READING ON TV?—Mrs. Sara Dearman, seated, Reference Librarian, operates the remote console that links the Redstone Scientific Information Center to facilities in Washington, D. C. as Dr. Julian S. Kobler, Center Director, observes the operation.



CONTRACTORS UTILIZE CENTER—Walter Cannizzo, an Engineer with the Chrysler Space Division, a contractor to NASA, does some research utilizing the facilities of the Redstone Scientific Information Center. Trained personnel are on hand to help in locating specialized technical material.



NEW ADDITIONS—Mrs. Cleo Cason, Head Librarian, left, and Mrs. Carolyn Slayden, Chief Reader Services Section, look over some of the new books that have been acquired by the Redstone Scientific Information Center. New volumes are constantly added to keep abreast of the latest technology.



BOOK CHECKOUT TIME—C. M. McRee, Equipment Specialist, Hawk Project Office, checks out a book at the Redstone Scientific Information Center. Mrs. Joyce Kelly, Library Technician, uses the new keypunch system to maintain the records.

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Police, Firemen Training On Job Under VA Program

Some 5,400 veterans are participating in the Veterans Administration's on-the-job training programs for policemen and firemen, Administrator of Veterans Affairs Donald E. Johnson announced today.

This compares with some 4,300 veterans in VA-approved programs of these types which Mr. Johnson reported last July.

He said that the 5,400 veterans now in training include 4,100 policemen and 1,300 firemen.

The VA chief added that the policemen and firemen are training under PL 90-77 in programs which got underway in 1968 — in July for policemen, and October for firemen.

Johnson said he feels the programs are making a significant contribution to the crucial problem of providing fully trained personnel to meet the increasing needs of communities across the nation.

According to Johnson, the largest on-the-job training programs are

in the following states: California, with 845 policemen and 127 firemen; New York, with 556 policemen and 272 firemen; Pennsylvania, 490 policemen and 173 firemen; District of Columbia, 314 policemen, 54 firemen; Connecticut, 263 policemen, 149 firemen; and Missouri, 252 policemen and 61 firemen.

During a policeman's or fireman's training period, VA supplements his earnings, but requires that he be paid at least 50 per cent of the regular salary. A minimum of 85 per cent of the regular wage must be paid the trainee during the last month of training.

Johnson said basic requirements

for veterans interested in applying for the programs include a personal interview, character investigation and driver's license.

Police and fire departments interested in these VA programs should seek the approval of their state-approving agencies, the VA head explained.

RED CROSS COFFEE

An afternoon coffee will be held for the Red Cross Volunteers on Wednesday, March 4 at 2 p.m. in the Post Chapel Social Room.

CPT. Ernest T. Meier, Redstone Hospital Registrar, will deliver an informative lecture on CHAMPUS.

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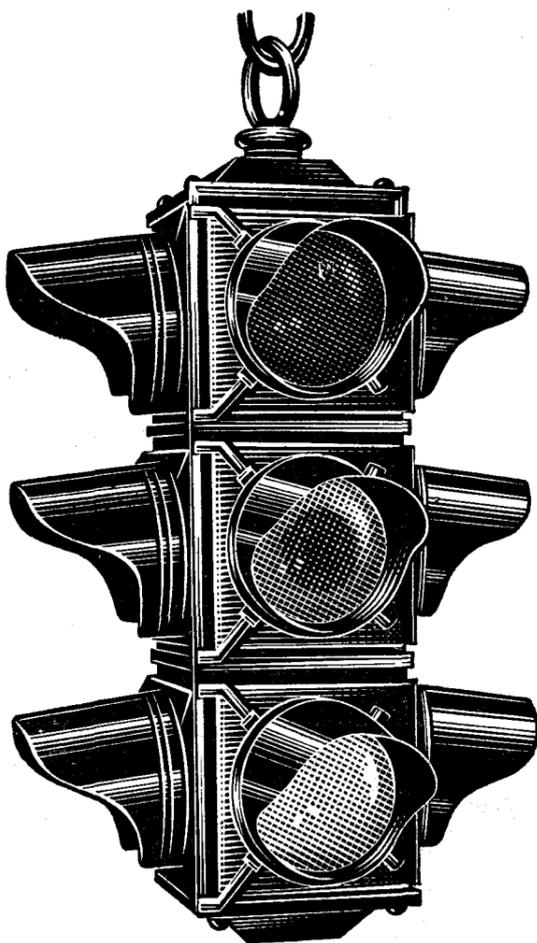
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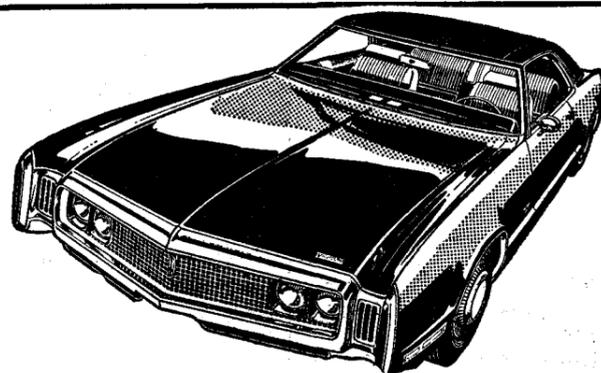


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Davis Of Huntsville Is Among MMCS Graduates

Huntsvillian PFC David L. Davis was among the 136 MMCS graduates who represented five countries and 30 states at Friday's post theatre ceremony.

PFC Davis, son of Mrs. Margie I. Love, 2410 Redmont Rd., Huntsville, was graduated in the Nike Missile Repair course.

During the 28-week course, PFC Davis became familiarized with the Nike missile and associated test equipment to include nomenclature, location of components, and knowledge of the function and theory of operations.

Davis attended Butler High School, Huntsville; and prior to his entering the Army in April 1969, he was employed as a financial consultant by a local firm.

His wife, also from Huntsville, is the former Joy M. Brooks.

The cosmopolitan class was addressed by Maj. Hezekiah M. Richardson, instructor, Officer Training Department. His topic was "The Army Today — Challenge, Achievement, and Progress." Maj. Richardson cited the continuing need for the traditionally highly trained and well motivated soldier. The graduates were exhorted

to develop and to maintain a flexible and imaginative attitude based not upon inflated anticipations, but upon reasonable expectation in accepting and meeting the challenges of military service.

Paul K. Schaeppi, Association of the United States Army (AUSA) representative, cited four honor grads for outstanding performance. Plaques went to PFC Larry W. Cannady from Lyman, Neb., with a 97.9 in the Land Combat Support Systems Test Specialist course; PFC Earl J. Coenen, Kaukauna, Wisc., and PFC Lawrence E. Sauge of Rochester, New York, with respective averages of 96.9 and 97.5 in the Ammunition Storage course; and PFC Barry W. Smith, hailing from Auburn, Wash., and having a 98.5 in the Ammunition Records Specialist course.

Certificates of recognition were given to 2LT Thomas M. Bernabei, Canton, Ohio, with a 92.1 in the Missile Maintenance Officer course; 2LT John C. Payne of Mount Herman, Calif., compiling a 93.4 in the Ammunition Officer course; and SFC Piet Van Dyken of the Netherlands, who achieved



PFC DAVID L. DAVIS

a 93.3 in Nike High Power Acquisition Radar and Radar Simulator Repair course.

Also receiving certificates were SP4 John B. Czachowski, Fayetteville, Tenn., with a 90.3 in Nike Missile Repair; SP4 Michael P. Schmitt, Melbourne, Fla., having a 91.7 in the Nike Test Equipment Repair course; and Thomas H. Tumbler, Charles Town, W. Va., with a 91.5 in the Pershing Guidance and Control Repairman course.

ROTC, RESERVE VACANCIES EXIST

Third U. S. Army has announced that vacancies exist for assignment to Reserve Component and ROTC duty positions with the Third Army area.

Vacancies exist in seven states —Alabama, Florida, Georgia, Mississippi, North and South Carolina, Tennessee and Puerto Rico. Position vacancies are in grades E-4

through E-9 and include MOSs 76Y, 71L, 43E, 54C, 91Z, 11B, and 12Z to name a few.

A complete list of MOSs is contained in Third Army circular 611-7. The circular also states that all interested personnel within the Army area are encouraged to apply even though their MOS is not listed in the circular.

Application procedures and qualifications for assignment to Reserve Component and ROTC duty are contained in AR 611-50 and Third Army Regulation 611-2.

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Black with red leatherette interior, radio.
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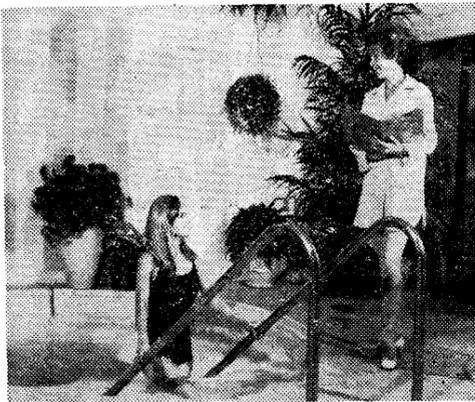
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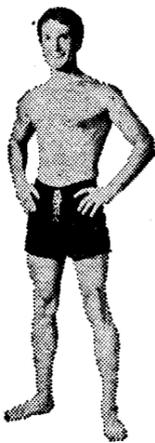
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Missileman Earns Air Medal In Combat

MSgt. Willard G. Johnson, Jr., a 27 year active military service veteran was awarded the Air Medal Thursday for sustained combat operations during a presentation ceremony at the Army Missile and Munitions Center and School (MMCS), Redstone Arsenal.

Sgt. Johnson was recently assigned to the Office of Information, MMCS, after serving 41 months in Vietnam in Hawk missile maintenance and various staff and field military intelligence assignments. While holding a primary specialty of Hawk Maintenance Chief, he became the first Hawk missileman known to have served as a combat intelligence aerial observer in Vietnam while employed as an intelligence analyst advisor in War Zone C for Advisory Team 90, Military Assistance Command, Vietnam (MACV) in Tay Ninh Province.

His missions included night heli-



MSG JOHNSON
Air Medal

copter operations as well as flights on O-1 Bird Dog fixed-wing observation aircraft with U.S. Air Forces forward air controllers performing visual reconnaissance, fighter-bomber air strikes, artillery fire adjustments, defoliation, and troops-in-contact missions, as well as combat resupply cover missions for a forward area U.S. Special Forces Cambodian border base camp.

In August 1966, MSgt. Johnson was initially assigned as a Hawk Maintenance Chief to the 79th Ordnance Detachment in Vietnam from MMCS instructor duties. In May 1967, he was offered the opportunity to join the Military Attache Liaison Office, MACV J2 as an intelligence liaison NCO dealing with foreign military attaches representing 11 countries accredited to the Republic of South Vietnam. His subsequent Vietnam assignments included duties as translation, interrogation and intelligence analyst advisor for psychological operations to the Vietnamese armed forces.

His previous combat assignments included duties in aircraft maintenance and military intelligence with the 9th Tactical Fighter Command, 9th U.S. Air Force in England, France, Belgium and Germany during World War II and with military intelligence and military police units in the Korean Conflict.

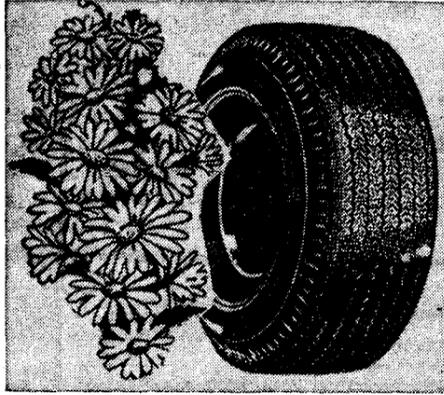
Following a previous assignment to MMCS, Sgt. Johnson was graduated from the University of Nebraska in Omaha (then University of Omaha) in January 1966 with a bachelor's degree in psychology. He was the first known active duty Redstone Arsenal non-commissioned officer to participate in the U.S. Army "BOOT-STRAP" degree completion program, wherein qualified active

duty military personnel are allocated up to 12 months temporary duty at full pay and allowances for degree completion purposes.

MSgt. Johnson holds a commission as first lieutenant, Military Intelligence Retired Reserve. His other awards and decorations in-

clude the Bronze Star, the Army Commendation Medal and the Vietnam Campaign Medal with eight battle stars.

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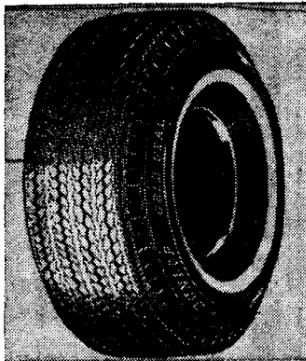
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735x14	22.63	3.50	19.13	2.04
775x14	23.63	3.50	20.13	2.17
825x14	25.63	3.50	22.13	2.33
855x14	27.63	3.50	24.13	2.53
885x14	31.63	3.50	28.13	2.84
600x15	21.63	3.50	18.13	1.88
685x15	21.63	3.50	18.13	1.88
735x15	22.63	3.50	19.13	2.08
775x15	23.63	3.50	20.13	2.19
825x15	25.63	3.50	22.13	2.36
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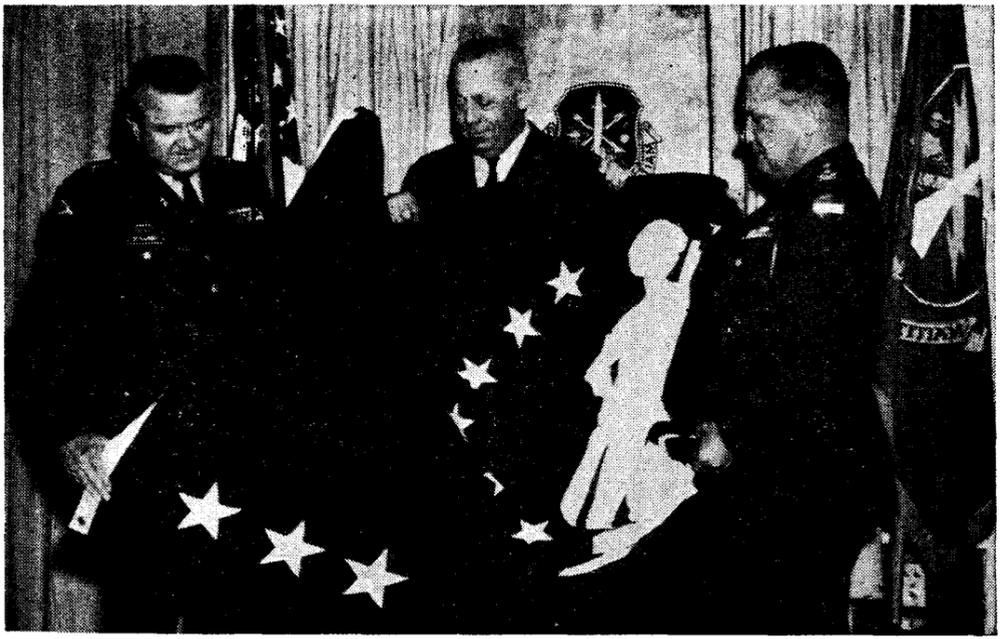
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STARS OVER MMCS—Stars are flying over elements of MMCS. The recent additions were two Minute Man Flags with three stars awarded to DIT and School Brigade for continued 98 per cent participation in the Savings Bond Program. Here, Col. Norman L. Holland, director DIT, left, and Col. J. L. Keown, commander School Brigade, right, admire the three-star flag with Col. Paul B. Schuppener, School commandant.

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The Nashville Tennesseans
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Tickets: Advance \$3.00, At Door \$4.00
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Tickets Available At: PEOPLES NATIONAL BANK, N. Mem. Parkway, Dunnnavants Mall, Haysland Shopping Ctr. Use Bank Americard at the Bank or at the door. Or: SLIM LAY ADVERTISING, Pearsall Shopping Ctr., N. Pkwy. Use First Charge, Master Charge at Slim's or at Door.

Tickets at Slims. Also on Saturday 9 a.m. to 9 p.m. tickets at Coliseum Sunday 9 a.m. to 1 p.m. at advance prices. After 1 p.m. at door prices.

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15 Receive Patent Awards

Fifteen employees of the U.S. Army Missile Command have received checks for their work resulting in patent awards. Two men, Corbet M. Cornelison and Arthur A. Smith, of the Ground Support Equipment Laboratory, were named in seven different patent applications for their work on automatic rocket launchers.

Smith received a patent award for his invention of a loader mechanism for an open breech high rate automatic rocket launcher.

Cornelison received a patent award for his invention of a de-tent and firing mechanism for an open breech automatic rocket launcher, and for the open breech high rate automatic rocket launcher itself.

Cornelison and Smith also received checks for a feed mechanism and a firing circuit and safety interlock for the same launcher system.

Peter L. Green, of the GSE Laboratory working with Cornelison and Smith, received a patent award for the invention of an obturating mechanism for the rocket launcher.

For the development of the concept of an open breech four cylinder revolver for a twin barrel automatic rocket launcher, Charles A. Hill of the GSE Laboratory, working with Cornelison and Smith, received a patent award.

Thomas E. Honeycutt and John J. Ehrlich received patent awards for their invention of a multiplex digital laser generator which can produce a laser beam carrying several channels of digital information at the same time.

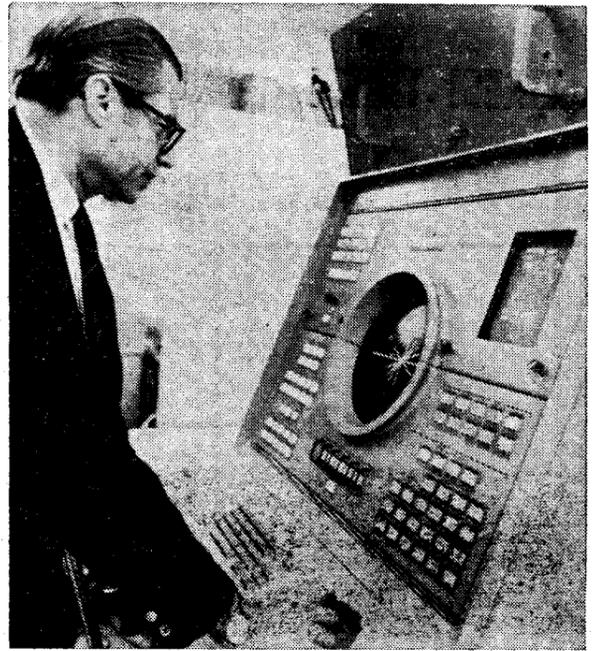
For his process of controlling the growth of fatigue cracks by electromagnetic means, Charles H. Martens received a patent award check.

William B. McKnight, Ralph W. Hawkins and the late James R. Dearman were named in a patent award for their invention of a rapid firing laser surgical device which can direct a laser beam to a specific location.

William A. Duncan, James A. Murfree, Jr., Pasquale Martignoni, Walter W. Wharton and John F. Phillips received patent award checks for their invention of monopropellant compositions for liquid gas generators.

All recipients of the above patent awards are employed by the Research and Engineering Directorate of the U.S. Army Missile Command.

Members of the Redstone Model Railroad Association will celebrate National Model Railroad Week by sponsoring an open house on Saturday, February 28 and Sunday, March 1 from one to five p.m.



SAM-D CONSOLE—A command and control display console for the Army's SAM-D air defense missile system undergoes testing at Raytheon, prime contractor for the system. These consoles will be installed in battery control and fire control units in SAM-D, currently in advanced development. SAM-D is planned for both battlefield and continental air defense against high performance aircraft and short range missiles. The program is managed by the Army Missile Command at Redstone Arsenal under Col. James C. Miller, Project Manager.



PATENT AWARD RECIPIENTS—Arthur A. Smith (left) and Corbet M. Cornelison of the Research and Engineering Directorate inspect an automatic rocket launcher system which they helped develop, and which resulted in seven patent award actions awarded for their research work on the system.

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ENGINEER WEEK

What benefits to mankind would a space station bring?

Konrad K. Dannenberg, Mission and Payload Planning Office, Marshall Space Flight Center, believes there are several important ones.

Dannenberg will discuss these benefits in an illustrated talk entitled "The Space Station Program" on Feb. 28, when he is featured speaker at the 20th annual Engineers Week dinner at the Redstone Officers Club.

Reservations may be made by calling P. Redding, Lance Project Office, 876-1410.

MODEL RR OPEN HOUSE

The open house will be held in building 3541. Operating exhibits of HO gauge model railroad rolling stock will be on display.

All friends of the Redstone Model Railroad Association are invited to attend.

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MONDAY, MARCH 2nd — 7:07 P.M.

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G78-14—8.25-14	37.25	33.50	31.50	28.00	2.60
H78-14—8.55-14	40.75	36.50	34.50	30.50	2.80
F78-15—7.75-15	33.25	29.50	28.50	25.50	2.40
G78-15—8.25-15	37.75	33.50	31.50	28.00	2.60
H78-15—8.55-15	40.75	36.50	34.50	30.50	2.80

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7.00-13	22.75	17.05	26.00	19.50	1.96
7.35-14					2.04
7.35-15	24.50	18.35	27.75	20.80	2.08
7.75-14					2.17
7.75-15	25.25	18.90	28.50	21.35	2.19
8.25-14					2.33
8.15-15	28.75	21.55	32.00	24.00	2.35
8.55-14					2.53
8.45-15	31.50	23.60	34.75	26.05	2.53
8.85-15			38.50	28.85	2.76
9.00-15			38.75	29.05	2.87

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E70-14	WIDE OVAL	21.80	84.00	2.33
F70-15	WIDE OVAL	23.50	92.00	2.50
G70-15	WIDE OVAL	26.10	99.00	2.69
H70-15	WIDE OVAL	28.50	105.00	2.85
*F78-14	Belted Fiberglass	33.41	130.00	2.55
*G78-14	Belted Fiberglass	36.68	140.00	2.67
*G78-15	Belted Fiberglass	36.68	140.00	2.77
*H78-15	Belted Fiberglass	40.24	155.00	2.98

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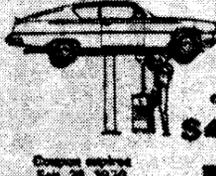
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