

The Redstone Rocket

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VOL. VIII; NO. 43

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 2, 1960

HEALTH AGENCIES, FEDERAL SERVICE CRUSADE BEGIN

The 1960 Two-in-One fund raising campaign for National Health Agencies and Federal Service Joint Crusade shifted into high gear at Redstone this week with the distribution of 20,000 contribution envelopes to collection key men.

Collections started March 1. The drive ends April 15.

Col. Owen T. McCloskey, drive chairman, held a meeting of the executive committee which was followed in quick succession by appointment of organization chairman, appointment of key men within each organization, and distribution of contribution envelopes.

Six local and national health organizations are represented in the campaign. Three international agencies make up the Federal Joint Crusade.

No monetary goals or quota will be set for Redstone Arsenal, Col. McCloskey announced.

The only goal is to give every eligible person on post two contributions. (See HEALTH on Page 3)

Thiokol Announces Cut in Personnel

Thiokol Chemical Corporation—Redstone Division announced today a reduction in personnel to approximately 1600 from the slightly less than 2000 that were employed at the first of this year.

All personnel affected by this reduction have now been notified. Scientific personnel and technical capabilities have not been affected by this reduction which is plant-wide and not limited to any specific area of the entire operation. The current reduction represents the successful completion of programs rather than cancellation or "cut-back" of any of the programs Thiokol or the Army, are engaged in.

J. W. Wiggins, General Manager, in announcing the reduction, stated "We regret that it is necessary to effect such a reduction, but such a fluctuation is not abnormal in the field of missile research and development. Similar announcements have been made recently by other major industries." (See THIOKOL on Page 2)

ABMA Congratulated By Gen. Schomburg For Pershing Success

Maj. Gen. August Schomburg, Commanding General of the Army Ordnance Missile Command, congratulated personnel of the Army Ballistic Missile Agency Thursday on the occasion of the successful firing of the first Pershing ballistic missile.

The Pershing, the Army's newest and longest range surface-to-surface missile was fired for the first time at the Atlantic Missile Range, Cape Canaveral, Fla.

Gen. Schomburg congratulated in particular Brig. Gen. J. A. Barclay, ABMA Commander, and Dr. Wernher von Braun, ABMA's Director of Development Operations.

The text of Gen. Schomburg's congratulatory message follows:

"I extend congratulations from the Command to Gen. Barclay, Dr. von Braun and the personnel of the Army Ballistic Missile Agency on the occasion of the successful firing of the first Pershing ballistic missile.

"This is another proud achievement in the shining record of ABMA which has already given the nation the Redstone and Jupiter systems. Representing the latest progress in rocket technology, Pershing is destined to become a mighty addition to the Army's arsenal of modern firepower.

"I am confident the Pershing program will continue to move ahead on schedule, meeting and surpassing every objective, under your leadership." (See CONGRATULATES, Page 2)

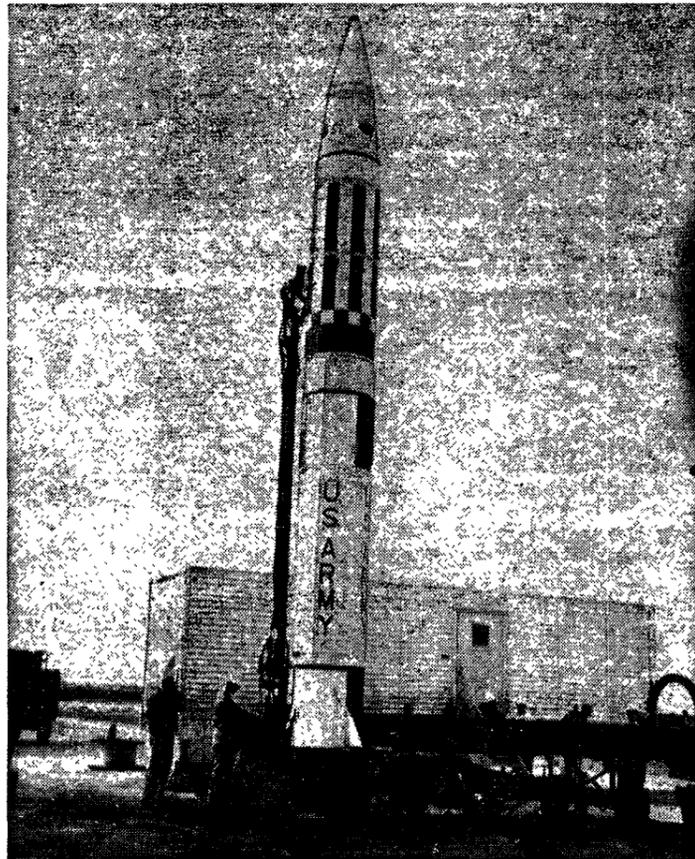
GERMAN STUDENTS ARE GREETED IN OWN LANGUAGE

There are few language barriers in the free world today. That is what 12 members of the German Air Force, now enrolled at the Ordnance Guided Missile School, found out last week.

Capt. Jerome M. McCabe, chief of the Safety and Security office at the School, addressed the class in their native German last week, welcoming them to the school on behalf of Col. Charles W. Eifler, commandant. An orientation talk on Huntsville was also given in German.

The group, consisting of three officers and nine NCOs, will be in the school for six weeks. (See GERMANS on Page 3)

Army Test Fires Pershing Missile At Cape Canaveral for First Time



U. S. ARMY'S PERSHING ballistic missile is shown poised on its combination transporter-erector-launcher at Cape Canaveral, Fla., as technicians make final inspection prior to firing the solid-propellant, two-stage, inertially guided missile. Being developed by the Martin Company, Orlando, Fla., for the Army Ballistic Missile Agency at Huntsville, Ala., the Pershing will provide the Army with a rugged, reliable, highly mobile, lightweight and completely air transportable weapon. Named in honor of General John J. Pershing of World War I fame, the missile will retain the mobility, fieldworthiness and accuracy of the Army's Redstone missile, but will be lighter, smaller and even more mobile.

Pershing Design Steps Up Mobility, Lessens Weight

The latest in the Army's family of ballistic missiles is the Pershing. This missile system, presently

in the progressive development program stage, is being designed to provide the Army with a rugged, reliable, highly mobile, lightweight and completely air transportable weapon system capable of surviving and operating effectively in the ground combat environment expected within the next decade. The Pershing, an important forward step in the Army's modernization program, will eventually replace the Redstone which is presently deployed with our troops in Europe.

The Pershing will utilize a solid propellant and will be guided by a self-contained all-inertial guidance system similar to those used in the Redstone and Jupiter missiles.

The use of a solid propellant is an important factor in obtaining the lightweight and high mobility characteristics desired of the system. The heavy and cumbersome propellant-generating and transporting equipment usually associated with liquid propellant missiles is not required in the Pershing system.

Since there is no requirement for propellant loading at the firing site, the missile system's reaction time, i.e., the time required to prepare and launch the missile, will be considerably shorter than would be possible if liquid propellants were used.

Tracked Vehicles Used

Another important factor in determining weapon system mobility is the use of tracked vehicles. (See PERSHING on Page 2)

Test Is Limited To First Stage of Two-Stage Missile

The U.S. Army fired its newest and longest range surface-to-surface missile, the Pershing, for the first time Thursday at the Atlantic Missile Range, Cape Canaveral, Fla. The Pershing is now in the research and development stage.

The launch was accomplished with the cooperation of the Martin Company of Orlando, Fla., prime contractor for the Army. The Pershing is a two-stage, solid propellant ballistic missile, but only the first stage was fired today to initiate the progressive test program. In keeping with the Army's practice of progressive firing objectives, the range was purposely limited.

Refinements and more detailed objectives will be assigned to follow-on missiles during the continuing test-firing program.

Launch operations were directed by Dr. Kurt Debus, Director of the Army Ballistic Missile Agency's Missile Firing Laboratory. This is the same MFL organization that fired all the Redstone and Jupiter ballistic missiles from Cape Canaveral.

Martin Company crews observed the preparation and launching as carried out by the Army organization. Eventually, Martin crews will fire the Pershing research and development missiles.

Dr. Arthur Rudolph, Project Director for Pershing within the ABMA, witnessed the firing. Also present was Brig. Gen. J. A. Barclay, ABMA Commander.

The Commanding General of the Army Ordnance Missile Command, Maj. Gen. August Schomburg, visited the Pershing site yesterday but was unable, due to pressing business, to view today's firing.

The firing was to have taken place on Feb. 24, but was postponed due to unfavorable weather conditions, which would have interfered with the gathering of research data—a major objective of the initial firing.

Defensive Driving Is Post Safety Theme

The post safety theme for March 1960 is "Defensive Driving." This subject is timely and appropriate in view of the increase in the number of motor vehicle accidents occurring on post and also the rising trend in injuries and fatalities from traffic accidents across the nation.

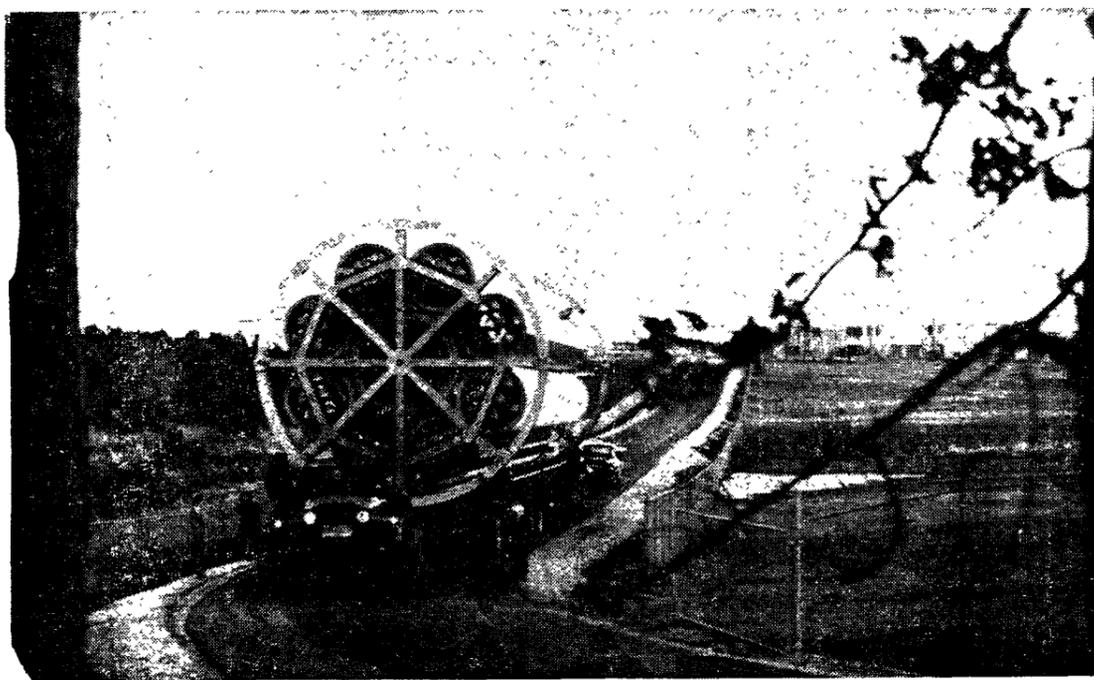
The national forecast is more than 40,000 persons will be killed and 2,000,000 injured unless this trend is reversed.

The objective of this post wide endeavor is to go through the entire month without a traffic accident involving personnel of the installation either on or off post.

As stated by a representative of the Safety Division, "Maybe this sounds like we are aiming pretty high, but if we stop to think it really isn't and we can do it."

"We all know that there are many drivers, both those who drive for a living and those who only operate the family car who have driven daily for many years and many hundreds of thousands of miles in all kinds of weather and under other unfavorable conditions, without an accident or causing others to have one."

"This kind of driver is known as a defensive driver. One of the (See SAFETY on Page 12)



"WALK" TO TEST—Army Ballistic Missile Agency personnel at Redstone Arsenal, Ala., "walk" the first Saturn booster enroute to the Agency's Test Laboratory for its initial static test firing. Saturn is a program of the National Aeronautics and Space Administration. The trailer on which the booster is transported also served as the base of the fixture on which the giant rocket was assembled. The 80-foot-long, 22-foot-diameter space booster, too large to be transported by plane, rail or highway, will be carried to its coastal launching site at Cape Canaveral, Fla., by a specially built barge. Scheduled for operation by the 1962-1963 time period, the Saturn will provide the United States with an efficient and reliable heavy space vehicle capable of lifting multi-ton loads into high orbit around the earth and into deep space.

The Redstone Rocket

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THIOKOL

(Continued from Page 1)

dustrial organizations engaged in missile development.

With the trend in recent years to larger motors and fewer total programs, the completion of a single program has a more marked effect on total manpower requirements than in previous years. This reduction is only the second significant reduction that this organization has experienced in more than eleven years of research and development effort. At this time, the Redstone Division has a large backlog of program effort which continues for a longer period than at any time in its history.

The Redstone Division of Thiokol Chemical Corporation is engaged in the development of high performance, solid propellant rocket motors for Department of Defense Agencies and NASA. The continued success of the many solid propellant rocket motors that have been developed for major missile programs in the country attest to the success of the organization.

The recent announcement by the Army of successful Zeus and Pershing flight tests and by NASA of successful Little Joe flight firings are specific examples of the successful development which is being accomplished.

As a result of the long record of successful development, it can be expected that the Redstone Division will continue to fill an important role in the rocket operations of Thiokol Chemical Corporation, the Army, other Department of Defense Agencies and NASA."

CONGRATULATES

(Continued From Page 1)

the capable guidance of ABMA. Our industrial associates in this program, the Martin Company and subordinate contractors, likewise deserve great credit for their work to date. The Ordnance-In-

PERSHING

(Continued From Page 1)

ty is the type of prime mover to be used for transporting the system in a combat area. The Pershing missile and all the equipment required to prepare and launch the missile will be carried on lightweight full-track vehicles capable of movement cross-country on all types of terrain.

The XM 474 is the tracked vehicle which has been chosen. It is being built by the Food Machinery and Chemical Corporation, located at San Jose, Calif., and is under the technical supervision of the U.S. Army Ordnance Tank Automotive Command

The XM 474 is a lightweight, low silhouette vehicle designed to load and transport the various portions of the Pershing weapon system. The vehicle has a gross weight of about 11,000 lbs. It has an over-all length of 202 inches, a height of 76 inches and a width of 100 inches. The ground clearance of the XM 474 is 16 inches, and it can ford a depth of 42 inches of water. The maximum speed of the vehicle is about 40 mph.

The transporter-erector-launcher (TEL) which carries the missile (less warhead) is transported on one XM 474. The TEL is an electro-mechanical system and part of the ground handling equipment for the Pershing weapon system. Its function is to mount the missile and erect it into its firing position, supporting it accurately at the proper azimuth until the missile lifts off.

The TEL is designed so that it can be easily transported by air transport as well as on the AM 474 vehicle. It has four wheels and pneumatic tires that enables it to be towed short distances and maneuvered into position at the firing site.

Erector is Included

dustry team will win more laurels as Pershing progresses to its deployment phase."

The TEL includes a dual-track erector supported on the transported chassis. The launching platform is mounted at the rear of the transporter and is pivoted so that it can be rotated to the ground, where it is supported by leveling jacks. During transport the missile is carried in a horizontal position on the erector, which is also pivoted at the rear of the transporter.

At the firing site, after the launch pad is rotated to the ground and leveled, the erector raises to the vertical position, placing the missile on the launcher. The erector then returns to the horizontal position, leaving the missile resting in a vertical position on the azimuth ring of the launcher.

Under command of the fire control unit, the azimuth position of the missile is adjusted accurately before firings.

Pre-Launch Equipment

Control cables, air ducts, and high pressure air lines necessary to pre-condition, checkout, and fire the missile are mounted in a cable mast. The lower end of the cable mast is mounted in a bracket attached to the launcher azimuth ring, and the upper end is engaged with electrical and air connections in the missile.

During the firing procedure, just prior to ignition, the upper end of the cable mast is automatically ejected from engagement with the missile. One of the features of the TEL is that the cable mast is not damaged or destroyed during firing. While the upper end of the mast is ejected from the missile a sufficient distance to provide clearance for firing, a brake in the bracket at the lower end quickly stops movement of the mast and holds it in a near vertical position. Since the mast is prevented from falling to the ground, it is not damaged and may be used repeatedly as a permanent part of the TEL.

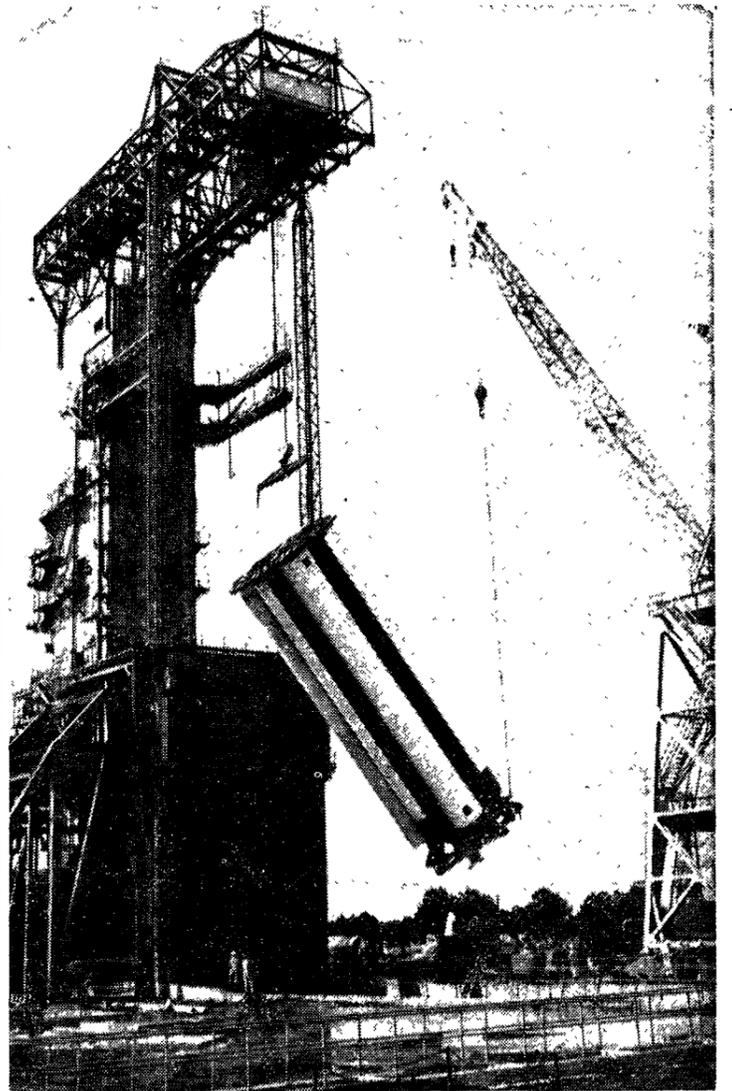
The TEL is being built by the Thompson Aircraft Products Company (a division of Thompson-Ramo-Woolridge), at Cleveland, Ohio.

Test and Checkout

Test and checkout equipment, located in the tracked vehicle transported fire control hut, accomplishes most of the system pre-launch checkout and has a capability for isolating faults within the missile and ground equipment. The countdown and launch equipment, also in the fire control hut, accomplishes the pre-launch countdown sequencing and provides for monitoring of the same. The portable remote fire control box, with which the missile is fired, is also part of this equipment.

The development of the Pershing weapon system does not follow the pattern established by earlier weapon systems. Unlike the Redstone and Jupiter systems, the Pershing development effort is being provided almost entirely by American industry.

The Army Ballistic Missile Agency retains control of the system design concept by exercising technical supervision over the efforts of the prime contractor. In this manner the contractor gains maximum benefit from the extensive ballistic missile skills and



GIANT CRANES lift the first Saturn booster rocket into position in the static test tower of the Army Ballistic Missile Agency at Redstone Arsenal, Ala. The National Aeronautics and Space Administration is developing Saturn to provide a space transportation system. The tremendous forces developed by the booster's 1,500,000 pounds of thrust in the tower are held by massive concrete foundations resting on heavy piling driven into bedrock. Vertical loads are carried from the anchored booster through a restraining and measuring system to girders built into a load platform connected to four corner columns secured to the foundations.

experience available at ABMA, and the capacity of the agency remains available to meet other development requirements.

Prime Contractor

Prime contractor for the complete missile system is the Martin Company. The company is using its facilities at Orlando, Florida, for this task. The fact that this facility is in close proximity to the launch facilities at Cape Canaveral is a decided advantage both technically and economically.

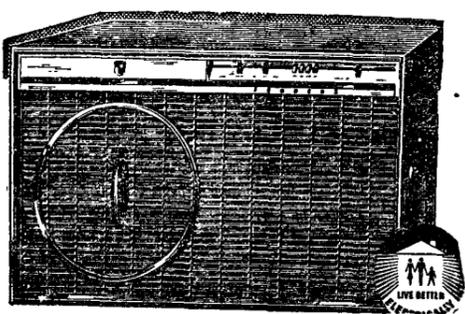
In summary then, through a careful analysis of the Army's needs and by consistently utilizing the latest advances in guided mis-

sile technology, the Pershing missile system is intended to provide the Army with a truly modern weapon.

The mobility, flexibility and rapid reaction time which will be characteristic of the Pershing system, when coupled with its growth potential, should add considerably to the Army's capability for accurate application of firepower to highly selective targets.

ARMY AVIATION HISTORY

On March 6, 1916, the first U.S. tactical air unit, in the field, the 1st Aero Squadron, began operations with General Pershing's Mexican Punitive Expedition.



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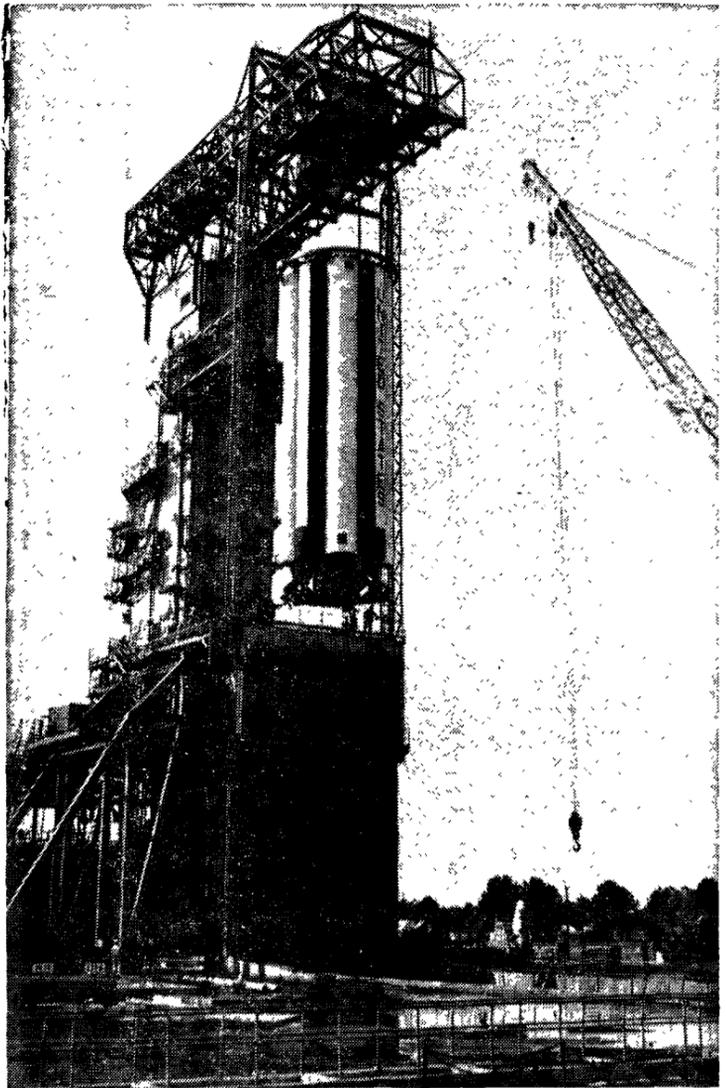
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THE SATURN SPACE BOOSTER being developed for the National Aeronautics and Space Administration is lowered into position in its static test tower at the Army Ballistic Missile Agency, Huntsville, Ala. Following static tests, the heavy space vehicle will be test fired from the Atlantic Missile Range at Cape Canaveral, Fla., where a 305-foot self-propelled service stand will be built to handle the huge rocket. Eight H-1 liquid propellant engines will be installed on the tail section of the booster in the tower. Total thrust of the clustered engines will be equivalent to 30,000,000 horsepower. Each of the engines comprising the Saturn cluster operates independently with its own gas generator and turbopump. Directional stability of the entire missile will be maintained by swiveling the four outer engines of cluster. A special system employing parachutes and retro-rockets is being developed to enable recovery of the first stage unit for post-flight inspection and possible further use.

GERMANS

(Continued from Page 1) officers, eight non-commissioned officers and an interpreter, began the 38-week course on the Nike-Hercules missile system last week. The majority of them will be joined by their families later

this year.

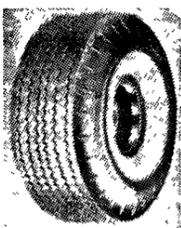
A veteran of 13 years' service, Capt. McCabe learned to speak German after attending the Army Language School at Oberammergau, Germany, and later serving as a foreign liaison officer at Munich. He was stationed in Germany for four years.

A native of Baltimore, Md., Capt. McCabe received a Direct Army Commission in 1949, and holds a bachelor of science degree in Education from the University of Georgia.

Capt. McCabe also saw service in the Korean War; his military decorations include the Combat Infantryman's badge, the Purple Heart and the Presidential Unit Citation for Korean Service.

Married he resides with his wife, Ellen, and their four children, Mike, Patricia, Tim and Mark, at 209 E. Dyer Circle, Redstone Arsenal.

Capt. McCabe is scheduled to leave Redstone Arsenal for an overseas assignment next month.



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(Continued from Page 1) tribution envelopes — one for Health Agency funds and one for Federal Service Joint Crusade — and then to collect and turn over to the agencies all the envelopes. All the agencies participating in the drive have been nationally approved and have the support of the Department of the Army.

Only military personnel and civil service employees of all agencies of the Command are being asked to contribute. Contractor personnel will not be solicited.

The six organizations participating in the National Health program are:

National Society for Crippled Children and Adults, Inc., United Cerebral Palsy Associations, Inc., American Cancer Society, Inc., American Heart Association, Inc., Muscular Dystrophy Associations of America, Inc., National Multiple Sclerosis Society.

These three organizations are participating in the Federal Service Joint Crusade:

Care, Crusade for Freedom (Radio Free Europe), The American-Korean Foundation.

The nine agencies participate in the joint campaign under a program administered by the President's Committee on Fund-Raising within the Federal establishment.

Agency representatives will appoint key men for their organizations on the ratio of one key man for every 25 persons. Each member of the post military and civilian will be presented with two envelopes by unit key men.

One envelope will be for contributions to National Health Agencies, the other for contribu-

tions to the Federal Service-Joint Crusade. Each envelope contains information material and a card on which the giver may indicate the specific organization to which he is contributing.

The donor will be asked to fill in his name on the two envelopes and return his gift to his key man.

Col. McCloskey pointed out that two envelopes from each individual should be turned in regardless of the fact that the sealed envelope may not contain a contribution.

Members of the Agency and Executive Committee headed by Col. Owen T. McCloskey are:

J. B. Ellis, Redstone Arsenal, Bldg. 8019, Ext. 3-1602; Maj. Jesse A. Garner, Troop Commander, Bldg. 3480, Ext. 3-2906; Lt. Col. W. T. Anderson, Air Force Jupi-

ter Liaison Office, Bldg. 4488, Ext. 3-3092; J. G. Goodwin, Ordnance Guided Missile School, Bldg. 3484, Ext. 3-2248; Capt. E. W. Powell, Army Ballistic Missile Agency Bldg. 4488, Ext. 3-4311; Clyde Browne, Army Rocket and Guided Missile Agency, Bldg. 5681, Ext. 3-2994; C. G. Babcock, Thiokol, Bldg. 7613, Ext. 6-6116; Donald Shank, Rohm and Haas, Bldg. 7540, Ext. 382; and C. E. Apostolakis, Army Ordnance Missile Command, Bldg. 4505, Ext. 3-3500.

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Social News

Wives Club Luncheon Scheduled March 8

The Officers Wives Club at Redstone Arsenal has scheduled a luncheon in the Hawk Room at the Squirrel Hill Officers Club March 8 at 12:30 p.m.

Mrs. George Warren will be the guest speaker. Her topic is "Lines and Fashion Tips Regardless of Season's High Style."

Reservations must be made by noon on March 4. Cancellations must be made by noon on March 7, with Mrs. F. C. Gay, Arsenal ext. 5-8451.

Reservations, on post: Mrs. F. J. Babes, ext. 5-7450; Mrs. G. N. Cummins, ext. 5-7444;

Off post: Mrs. G. S. French, Jefferson 6-8344 and Mrs. E. J. Hein, JE 9-3888. The extension for nursery reservations is 5-8745.

1st Cavalry Division Will Hold Reunion

The 1st Cavalry Division will hold their thirteenth annual reunion 24-26 June, at the Statler-Hilton Hotel, Washington, D. C.

June 25 is significant to former members of the 1st Cavalry Division since it marks the 10th anniversary of the invasion of Korea and the 15th anniversary of the end of the Luzon campaign in World War II.

Additionally, the 7th U. S. Cavalry Regiment, one of the fighting regiments of the 1st Cavalry Division, will hold its 23rd annual reunion in conjunction with the 1st Cavalry Division. In addition to participating in the Luzon campaign and in Korea with the 1st Cavalry Division, the twenty-fifth of June marks the 84th anniversary of the Battle of the Little Big Horn, the famous battle

Dr. Summerfield Will Address Rocket Men

The Alabama Chapter of the American Rocket Society will present a speech by Dr. Martin Summerfield, of Princeton University, at 8 p.m. on March 3 in the Huntsville Utilities Building Auditorium.

Dr. Summerfield, who is also editor of the American Rocket Society Journal, will speak on the physical concepts and experimental findings of "Researches on Solid Propellant Burning."

Konrad Dannenberg, president of the Alabama Chapter of the ARS and Jupiter Project Officer for the Army Ballistic Missile Agency, has noted that this is an unclassified lecture and that those interested are urged to attend.

Garrison to Attend April Meeting of Employment Council

Dennis Garrison, president of Lodge 1858, American Federation of Government Employees, will attend a meeting of the Government Employment Council in Washington, D.C. April 4-6.

Purpose of the meeting is to enlist the support of Federal employe organizations in an effort to obtain a pay raise for Class Act employes. Garrison has announced the AFGE and postal unions are supporting a 12.5 percent pay increase.

Garrison is soliciting statements from members of Redstone Arsenal Lodge to support the program.

in which this regiment fought under General George Armstrong Custer.



FASHION SHOW COMMITTEE—(Left to right): Mrs. Harry Bullard and Mrs. Melvin Collins are co-chairmen of the NCO Wives Club Auxiliary fashion show committee and Mrs. Harry Keever. The fashion show will be at the NCO Club on March 12.

* * *

Wives Club Names Fashion Show Committee Members

The Noncommissioned Officers Wives Auxiliary named a committee for the forthcoming fashion show on Mar. 12 during the recent monthly social and dinner meeting at the NCO Club.

The fashion show committee are chairman, Mrs. Harry Bullard, co-chairmen, Mrs. Melvin Collins and Mrs. Harry Keever.

Mrs. Harry Bullard announced that professional models will show latest styles in ladies, men's and children's clothes. The show will be directed and coordinated by Mrs. Lorraine Sargent and Mrs. Georgia Twitty, fashion show promoters.

Fifty-three members were present including a new member, Mrs. Lee Levensen. Guests for the evening were Mrs. Joe Leslie and Mrs. James Riddles.

Hostesses, Mrs. John Kelly, Mrs. Lester Watson and Mrs. Melvin Collins entertained with color movies of the installation of members held February 6th. The movies were shown by Sgt. Joe Leslie.

Pictorial Engineers, Technicians to Meet In Camellia Room

The Tennessee Valley Pictorial Engineers and Technicians will meet tomorrow night at the Camellia Room of the Albert Pick Restaurant at 6:30 p.m.

A social hour will precede dinner and a guest speaker.

The group will hold its quarterly meeting in April at Fayette-

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At the Service Club

TALENT SHOW: The All-Army Talent Show will be given on March 18 at 2015 hours in the Service Club Lodge. Every person that plans to enter should have his entry form in the Service Club on or before Monday March 14.

SQUARE DANCE: Bobbie Rainey called the Square Dance at the Service Club on Saturday, March 20. We were happy to have the Merry Mixers, a Square Dance Group from Huntsville, attend the dance. Everyone had a wonderful time learning new steps and dancing to Bobbie Rainey's calls. We were very sorry to hear that Jim Baker is in the hospital and was unable to call the Square Dance. We wish him a rapid recovery.

GLEE CLUB: The Male Glee Club will have a new director. Join the group on Thursday nights at 1730 hours in the Service Club.

TOURNAMENTS: Raggi Eugenio, A. J. McNamara, Recep Sirin, Rosati Elio, Gurol Fikri, Topaeliglu Sungur, Irfan Hace, Willie P. Clinton, Hyati Gul and David J. Haas participated in the Ping Pong Tournament on Feb. 21. David J. Haas, A Det. OGMS won the tournament. Willie P. Clinton, B Det. OGMS was runner up.

A Bridge Tournament will be held at 1800 hours on Thursday March 3 at the Service Club.

Make your plans to play in the Checker Tournament on March 9 at 1800 hours in the Service Club.

HOT CHOCOLATE PARTY: Hot Chocolate will be served at

2000 hours on March 4 in the Service Club.

CARD PARTY: On March 4 at 1900 hours we hope you will play cards with us at the Service Club.

PIZZA PARTY: If you like pizza—make your plans to eat with us on March 6 at 1800 hours. Please sign up at the Service Club office before March 3. The Birmingham and Huntsville hostesses will attend the Platter Party dance after the pizza party.

MOVIE: On March 8 at 1900 hours a movie "Flying Start" will be shown in the TV Room.

DANCE CLASSES: Classes in foxtrot and jitterbug are taught on Wednesday nights at 1930 and 2030 hours in the Service Club. On March 2 these classes will meet for the second time in the six weeks series.

A waltz class will be taught on March 11 at 1900 hours. A popcorn party will follow this class at 2000 hours.

SHUFFLE DANCE: Let's dance to your favorite record on Saturday March 18 from 1930-2200 hours. The Rho Sigma Chi hostesses will be here for the dance.

"HOLIDAY FOR LOVERS: The Show Production Group will present "Holiday for Lovers" on March 24 and 25, at 2015 hours. The play is a romantic comedy written by Ronald Alexander author of "Time Out for Ginger". It's a gay, carefree story of an American family touring Europe and their problems with language difficulties and the romance of their two girls in the atmosphere of Latin Europe.

Movie Schedule

Wednesday, Mar. 2, "This Rebel Breed" starring Rita Moreno, Mark Damon and Gerald Mohr. Time 1815 and 2015.

Thursday-Friday, Mar. 3-4, "The Last Voyage" starring Robert Stack, Dorothy Malone and Edmond O'Brien. Time 1815 and 2015.

Saturday, Mar. 2, SPECIAL MATINEE, "Last of the Fast Guns" starring Jock Mahoney and Gilbert Roland. Time 1000.

Saturday Mar. 5, "The Threat" starring Robert Knapp and Linda Lawson.

Sunday-Monday, Mar. 6-7, "Heller in Pink Tights" starring Sophia Loren and Anthony Quinn. Time Sunday 1400, 1815 and 2015. Time Monday 1815 and 2015.

Tuesday, Mar. 8, "Tread Softly Stranger" starring Diana Dors and George Baker. Time 1815 and 2015.

Births at Post Hospital

Mark Stephen Groves, 8 lbs., 7¼ ozs., Feb. 18, son of 1st Lt. and Mrs. John E. Groves, Jr.

Marian Diana Cooter, 8 lbs., 7¼ ozs., Feb. 18, daughter of Ret'd M-Sgt. and Mrs. Cloyd R. Cooter.

Mark Roger Bazemore, 8 lbs., 15½ ozs., Feb. 19, son of Cpl. and Mrs. Roger P. Bazemore.

Bruce Donald Koffsky, 8 lbs., 5½ ozs., Feb. 19, son of 1st Lt. and Mrs. David N. Koffsky.

Mary Blanche Mathew, 7 lbs., 13½ ozs., Feb. 20, daughter of SFC and Mrs. Ralph E. Mathew.

Lon Arnold III, 8 lbs., 2½ ozs., Feb. 22, son of SFC and Mrs. Lon Arnold, Jr.

Ladena Ann Melton, 6 lbs., 1½ ozs., Feb. 22, daughter of PFC.

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Rebecca Annette Wolfe, 7 lbs., 5½ ozs., Feb. 22, daughter of Pvt. and Mrs. Robert A. Wolfe.

Philip William Blackburn, 8 lbs., 13¼ ozs., Feb. 23, son of 1st Lt. and Mrs. Paul L. Blackburn.

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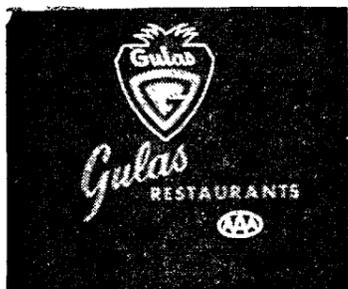
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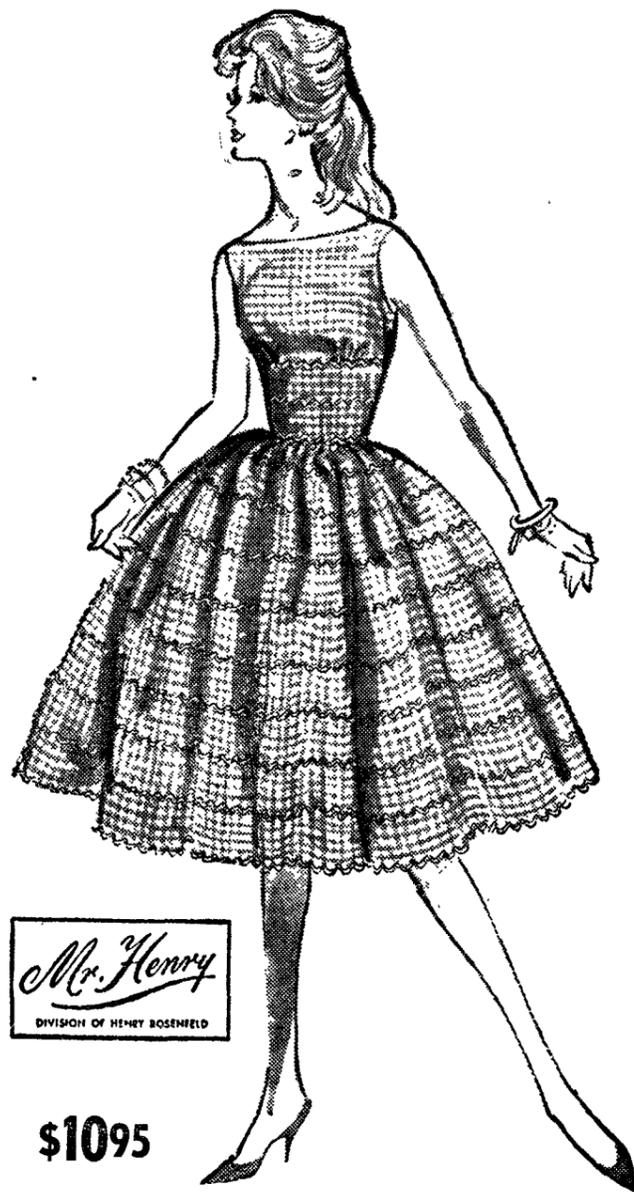
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DOE LEAPS FROM TRUCK—While spectators watched the unloading of deer transported from Marengo County, a young doe leaps for the safety of the wooded hillside at Redstone Arsenal. She is one of twenty-five deer loosed here recently. The spectators and handlers above are: (left to right) SFC Buford Harrison, Arsenal game warden, James Painter, Conservation Officer; William P. Kelly, District Supervisor of Conservation Officers; Earl Moses, Conservation Officer; M-Sgt. Howard Garman, and First Sergeant Nelson W. Murray of the 291st Military Police Company, and Maj. Jesse A. Garner, Troop Commander at the Arsenal. In the background is James N. Weldon, Post Engineer office.

Phillips Is Chosen Week's Safe Worker

John E. Phillips, machinist in the Fabrication and Assembly Engineering Laboratory, A3MA, has been selected as the safe worker of the week.

Phillips was born and reared in Huntsville, and is a graduate of the Joe Bradley High School.

He served three years of state-



JOHN E. PHILLIPS

side duty as a machinist mate with the U. S. Navy during World War II. Before coming to Redstone in 1951 he worked as a machinist at the Huntsville Manu-

facturing Company.

In his present job, Phillips operates various kinds of metal working power tools, all of which require "heads up" safety performance to preclude personal injury or damage to equipment.

As stated by his supervisor, "Phillips is a most careful and conscientious worker at all times. He is constantly observant of unsafe conditions or unsafe acts that might result in injury to himself and fellow employees."

He is an active member of the branch safety committee and has

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made many suggestions to improve the safety programs. their three children, Dennis, Paulette, and Marlene, reside at 3200 Penny Street, Huntsville. John's favorite hobby is fishing.

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Structures and Mechanics Lab Men Help Build Saturn

In 1951 Dr. Wernher von Braun, present Director of Development Operations Division, Army Ballistic Missile Agency, and his co-workers at Redstone Arsenal were telling after-dinner audiences that a space program could develop from the Army's missile program. Public reaction was one of interest and excitement colored by an element of disbelief.

Now, nine years later, the program proposed by Dr. von Braun is becoming a reality with the development of the Saturn launch vehicle. Responsibility for design and engineering of structural, propulsion and material features of the Saturn first stage belongs to personnel of the Structures and Mechanics Laboratory under the direction of W. A. Mrazek. Mrazek is assisted by Hermann K. Weidner, Deputy Director, and Emil A. H. Hellebrand, Technical Advisor.

To insure proper functioning of a flight vehicle, a multitude of tedious engineering detail work must be accomplished. Requirements for flight mechanics, fabrication, inspection, test, and handling have to be coordinated, carefully weighed, and considered before all subsystems and components can be finalized and a complete design released for manufacture.

Future Projects

Future Projects Design Branch of Structures and Mechanics Laboratory prepared the initial Saturn proposal which was submitted to the Department of Defense in April 1957. Project approval and a very moderate fund appropriation were granted in August 1958 by the Advanced Research Projects Agency.

H. H. Koelle, Chief of Future Projects Design Branch, joined the ABMA team in 1956. Before coming to the United States Mr. Koelle had done some preliminary work on design of large space vehicle boosters.

From April through September, 1958, Mr. Koelle's Branch continued major design studies for an overall system. The problem of getting the most payload capability per dollar was considered from every conceivable line of approach. These studies, including production schedules, extended into 1959.

Original Design

The original design called for four engines with 380,000 lb. thrust. The present H-1 liquid propellant eight-engine design resulted from reliability experience with the Jupiter-type engine. Use of an existing thoroughly tested engine reduced cost because it eliminated testing of a new engine. Early designs were conceived with the idea of placing a payload in orbit at minimum cost; however, these were later revised to accommodate a greater payload even though the cost was increased. Final designs were created to provide transportation for a maximum payload regardless of cost.

Seventy-five percent of the personnel in Future Projects Design Branch contributed to preliminary designs of the Saturn. These plans were illustrated in charts and models by the Graphics Engineering and Model Studies Section. Frequently the illustrations were done and redone many times as new concepts were offered by the planners.

Missile Systems

After approval of the program in August, 1958, the design engineering work began.

Engineers and draftsmen began the layouts from which the Fabrication and Assembly Engineering Laboratory would build the first models. In the Systems Engineering Branch of Structures and Mechanics Laboratory, Hans R. Palaoro, Chief, started machinery for integration of Saturn components; systems were scaled to fit the airframe of the vehicle conceived to orbit high around the earth and to travel deep into space.

Designs to accomplish specific portions of the Saturn mission are developed by all branches of the Laboratory. The missile Systems Engineering Branch is responsible for integrating these systems and component designs into a compact, efficient overall system that meets functional weight and stability requirements without sacrificing reliability, accessibility and serviceability of any individual component.

This branch checks, compiles and distributes all information and maintains complete documentary files beginning with preliminary and continuing through final drawings. These engineering drawings are made available to industrial contractors when production commences.

Structures Branch

The Structures Branch of the Structures and Mechanics Laboratory started work on structural development as soon as the Saturn Project was approved. Gustav Kroll is chief of the Structures Branch. He is assisted by Erich E. Goerner, Deputy Chief. Adas James Verble, Jr. is chief

of the Booster Structural Design Section of the Branch.

Approximately 110 people of this laboratory segment participated in the design and testing of the total load-carrying structure for the Saturn. Before the design could be considered final, many problems of stress analysis, dynamics analysis, load analysis and structural testing had to be considered and solved.

Engineering Materials

In the Structures and Mechanics Laboratory before any material is designated for use in the missile, Engineering Materials Branch first conducts a program of functional testing. This Branch, under the direction of Dr. William R. Lucas, maintains a constant search in industrial circles for improved alloys that will increase reliability of future vehicles or lessen the problems creat-

ed by intense heat, cold, and other phenomena as the missiles travel into outer space. James K. Kingsbury is chief of Advanced Process Engineering Section of the Branch.

To the Engineering Materials Branch come questions from design engineers all over the Laboratory and Division. They want information on protecting the airframe and other components from extremes in thermal conditions; maintaining temperatures inside the airframe to keep instruments functioning; keeping lubricants and fuels clean and intact under adverse handling during assembly and testing; additives necessary to produce a maximum fuel mileage without separation from fuel base; sealers to minimize the possibility of propellant leaks; metals which will not spark with oxidizers resulting in explosion;

(See STRUCTURES on Page 10)

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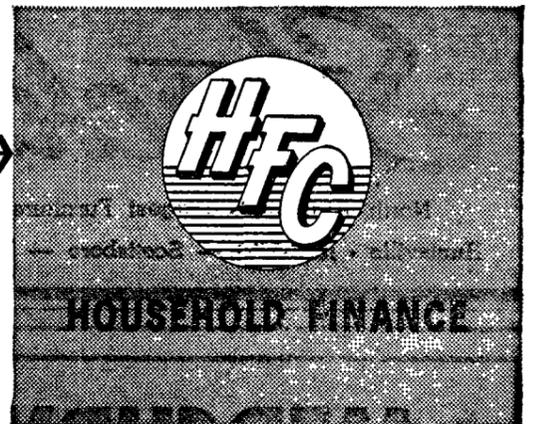
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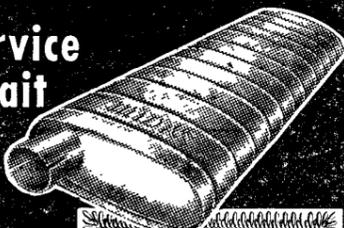
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SPORTS

3rd Army Basketball Tourney to Be Held At Fort Gordon, Ga.

FORT GORDON, Ga. — The STC Signales will be favored to win Ft. Gordon's third consecutive crown when the Third Army Basketball Tournament gets under way here in the Post sports arena March 7-12.

Twenty-four games are on tap for nine men's teams, loaded with college-ball veterans, and four WAC teams that will compete in the double-elimination affair.

Last week, STC's defending champs disposed of two possible tourney foes in easy fashion, whipping Ft. McPherson, Ga. 111-85, and Ft. Jackson, S. C., 120-101.

Also returning for another crack at the coveted crown are Forts Campbell, Ky., Bragg, N.C., Benning, Ga., Stewart, Ga., Rucker, Ala., and Redstone Arsenal Ala., Ft. McClellan, Ala., won't participate this year.

Ft. Benning's WACS will defend their crown against teams from Bragg, McPherson, and Gordon.

THINK ABOUT THIS! — Voting is a free man's right, a slave's dream

Winners of Novelty Golf Tournament Are Announced

Winners in the One Club Four-some Novelty Golf Tournament held Monday, Feb. 22, at the Redstone Arsenal Golf Course have been announced as follows:

First place: M/Sgt. and Mrs. H. W. Womack, Mrs. H. H. Wisheart, Capt. W. C. Yost

Second place, tied between:

VOLLEYBALL SCOREBOARD

"B" OGMS No. 2 - 2 - "A" Det ARGMA 0

"A" OGMS No. 1 - 2 - "A" OGMS No. 2 0

"P" ABMA 2 - Garrison Bandits 0

"A" OGMS No. 2 2 - Officers 1

"A" Det ARGMA 2 - Garrison Bandits 1.

"A" OGMS No. 1 2 - Medical Det 0

2nd ETD 2 - "B" OGMS No. 1 0

USAG Field Maint. 2 - "B" OGMS No. 2 0

"A" OGMS No. 2 2 - 3rd ETD 1

Garrison Bandits 2 - UTC 0.

"A" OGMS No. 1 2 - H. Det USAG 0

Officers 2 - Medical Det. 0

"B" ABMA 2 - 2nd ETD 1

LEAGUE STANDINGS

Team	Won	Lost
"A" Det OGMS No. 1	4	0
USAG Field Maintenance	2	0
"A" Det ARGMA	2	1
"A" Det OGMS No. 2	2	1
"B" Det ABMA	2	1
"B" Det OGMS No. 2	2	1
2nd ETD	2	1
Garrison Bandits	2	2
3rd ETD	1	2
Officers	1	3
Hq Det USAG	0	1
UTC	0	2
"B" Det OGMS No. 1	0	2
Medical Det	0	3

Team Won Lost

"A" Det OGMS No. 1 4 0

USAG Field Maintenance 2 0

"A" Det ARGMA 2 1

"A" Det OGMS No. 2 2 1

"B" Det ABMA 2 1

"B" Det OGMS No. 2 2 1

2nd ETD 2 1

Garrison Bandits 2 2

3rd ETD 1 2

Officers 1 3

Hq Det USAG 0 1

UTC 0 2

"B" Det OGMS No. 1 0 2

Medical Det 0 3



291ST ARE BEST PISTOL SHOTS—Members of the 291st Military Police Pistol Team were the men who recently received the Commander's Trophy for outshooting every unit on post with the .45 caliber pistol. It was erroneously reported in The Rocket that Det. A, ARGMA received this trophy. The Det. A men received the Commander's Trophy for marksmanship with the carbine. Representatives of the 291st Military Police above are: SP4 Bobby Rutherford, Sgt. Henry Bieganski and Capt. Joseph A. Myers who is accepting the trophy from the Post Commander, Col. Owen T. McCloskey.

Skin Diver Club Will Hold Initial Meeting

An initial meeting to organize a Skin Diving Club at Redstone Arsenal will be held on Thursday evening March 3 at 7 p.m. in the Courts and Boards Room, second floor, Bldg. 3480.

Membership will be open to military, civil service and government contractor personnel of Redstone Arsenal and their dependents.

A program of instruction and training lasting three months will be undertaken to qualify mem-

bers in the rudiments of basic water skills, shallow diving, and use of underwater breathing apparatus.

Col. and Mrs. J. G. Zierdt, Col. and Mrs. R. O. Lehtonen and Col. and Mrs. T. T. Paul, Mrs. H. M. Murray, Lt. Col. William Mattis.

Six teams participated in the event and boxes of golf balls were awarded to the winners.



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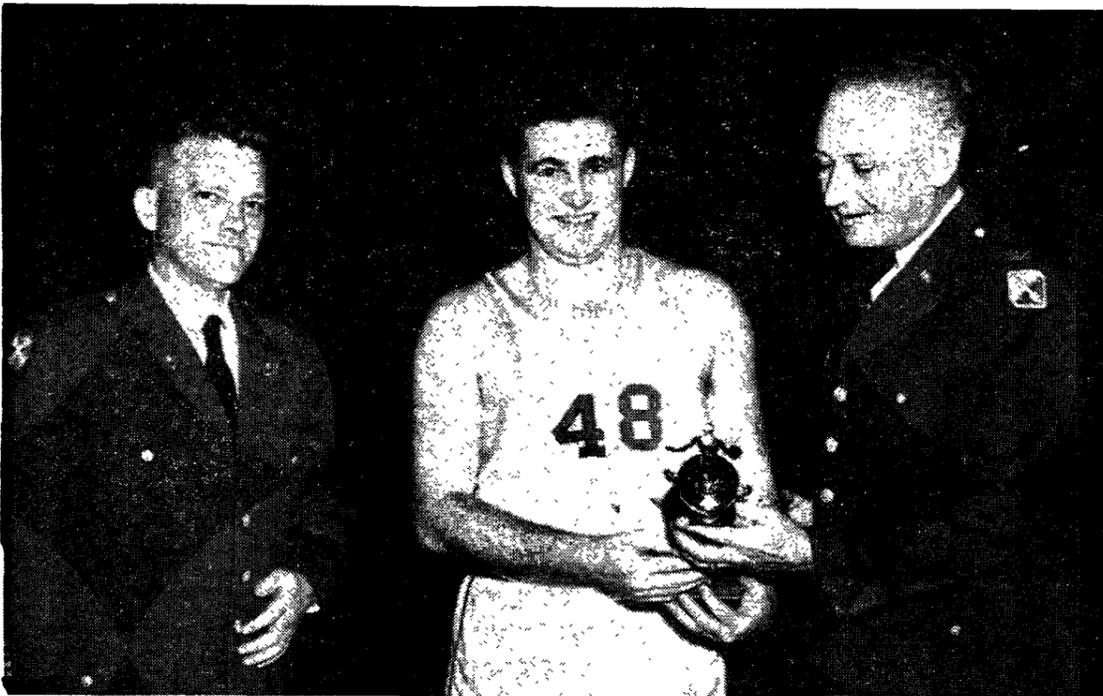
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Phone JE 6-7451



LITTLE DIXIE CLASSIC—Col. Owen T. McCloskey, Post Commander, presents the "Little Dixie Classic" championship Trophy to SP4 Ross A. McIlvaine, coach and captain, of Hq. & Hq. Det., USAG after the finals held Feb. 16. The "Little Dixie Classic," a double elimination basketball tournament, was held Feb. 1 through 16 between fourteen teams with Hq. Det. USAG overpowering "A" Det. OGMS to capture the tourney title. Hq. Det. USAG, also Redstone Arsenal League Champions, captured the league title after completing regular season play undefeated and unconquered. Capt. Richard O'Brien, Commanding Officer of Hq. Det. USAG, spirited and staunch supporter of his team, looks on at the Trophy presentation.



BOWLING CHAMPS—The Flappers from Field Service Division, Army Rocket and Guided Missile Agency won the Rocket City Women's Bowling Association tournament last weekend. Forty-four teams competed on the Plamor lanes. The Flappers placed first for the city championship with a total of 3,081 pins. The second place team had a total of 2,938 pins. In the doubles event Miss Martha King and Mrs. Laverna Frazier of the Flappers won second place with 1,237 pins. Mrs. Frazier placed second and Miss King third in all events. Both also placed in the singles. Left to right are: Miss Cindy Phillips, Miss King, Miss Marie Ashcraft, Mrs. Frazier and Mrs. Chris Carroll. (Photo by Mimmie Taylor.)

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WITH EXERCISE **LITTLE BEAR, Alaska (ANS)** — Eight handpicked Alaska National Guardsmen of the unique Scout Battalions have been testing their combat skills by "One Army" operations with Active Army Special Forces during this winter exercise.
Marking the first full-scale maneuver in which native scouts have been assigned as part of a

Regular Army combat force, the scouts have been doing double-duty — learning Special Forces techniques in behind-the-front line harassment, demolitions, communications and tactics and at the same time imparting their own Far-North know-how to the Special Forces.

The eight were split into groups of four men with one group going with the Special Forces assigned to the "Aggressors" and the other operating with the "good guys" in the STRAC exercise.

MILITARY HISTORY NOTE
"One Army" is not exactly new! On March 6, 1845, General Winfield Scott for first time ordered uniform regulations of instruction for Regular Army and Militia.

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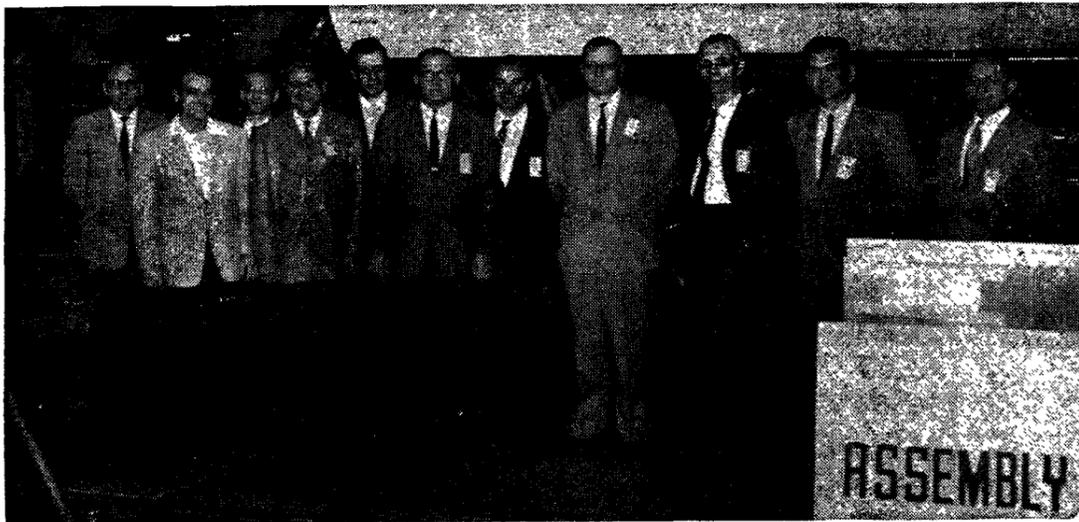
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CHIEFS AND BRANCH CHIEFS in the Structures and Mechanics Laboratory, Army Ballistic Missile Agency, stand in front of the Saturn booster, a vehicle designed to penetrate deep into space or place a payload in orbit. Left to right above are: Gustav Kroll, Chief, Structures Branch; Adas James Verble, Jr., Chief of the Booster Structural Design Section of the Branch; James E. Kingsbury, Chief, Advanced Process Engineering Section, Engineering Materials Branch; Emil A. H. Hellebrand, Technical Advisor to the Laboratory Chief; H. H. Koelle, Chief, Future Projects Design Branch; W. A. Mrazek, Laboratory Chief; Hans R. Palaoro, Chief, Systems Engineering Branch; Hermann K. Weidner, Deputy Director of the Laboratory; Erich E. Goerner, Deputy Chief of the Structures Branch; Hans G. Paul, Chief, and William A. Schulze, Deputy Chief, Propulsion and Mechanics Branch.

Structures

(Continued From Page 7)

and metals and materials which will withstand all flight conditions and still continue to perform as required.

With respect to testing, personnel of the Engineering Materials Branch are mainly concerned with preliminary tests to prove that a material will do what it is supposed to do under preconceived conditions, furthermore, this segment of the Laboratory has the only qualified engineers to conduct final vehicle tests in the radiographic and non-destructive field.

The Saturn first stage is scheduled for recovery from the sea after the vehicle is launched. This presents a problem of salt water corrosion to the booster and a solution for protection evolved. This and other problems offer a

constant challenge to the engineers and chemists of Engineering Materials Branch. Chemical, metallurgical and engineering tests are being made on pilot models of every component produced for the Saturn first stage. Conditions of upper atmosphere and space are simulated as closely as possible in a laboratory. Information from these tests goes back to the design engineers and vitally affects structural decisions.

Propulsion Systems

Hans G. Paul is chief of the Propulsion and Mechanics Branch of the Laboratory. He is assisted by William A. Schulze and together they coordinate and direct the work of the largest branch in Structures and Mechanics Laboratory. This branch is responsible for design of the mechanical system and for solution of the technical problems connected with the propulsion system. Approximately 325 people in this branch are concern

ed with fuel consumption, thermal changes from which the system needs protection, and thermal dynamics employed in the system. Each of the seven sections of the branch contributes to the mechanical perfection required for a successful vehicle launching. This branch designs and tests control valves, regulators, and environmental controls. Instruments are developed which will withstand the thermal change and atmospheric pressures expected during flight or orbit. Precise pressures and temperatures are necessary for optimum performance of guidance and telemetering measuring devices.

Personnel of Propulsion and Mechanics Branch must foresee weak points in mechanical systems and eliminate them prior to launch. Relaxation of reliability requirements spells disaster in mechanical design.

Carefully analyzed telemetered data from previous tests provide a basis for establishment of fuel requirements of future flights and contribute valuable information on performance of mechanical components in flight. This evaluation of test flights will be used in the Saturn program as it

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WARMING UP—CWO DeWitt H. Mytinger, (right) Band Master, points to a musical passage he wants to emphasize for the clarinet section of the 55th Army Band. The band gave its first concert at the Rocket Service Club last Sunday night. Left to right (standing) are: Pfc. William Webb, Jr., SP4 David Klosner, SP4 John Zimmerman and Mr. Mytinger. Seated (left to right) are PFC. Edward Zabriskie and SP5 Igmedio Bejosa, section leader. Future concerts are in rehearsal by the 55th Army Band.

SOJOURNERS TO MEET
Redstone Chapter No. 353 of the Sojourners will meet at the Squirrel Hill Officers Club Friday, March 4 at 6:30 p.m. The meeting will honor masters and Past Masters of Huntsville and vicinity. Sojourners are urged to attend.

is a favorite among outstanding Army marksmen for competition wear.

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Although no longer an item of general issue, the campaign hat (still fondly remembered by many as the top topper ever issued)

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PIERCE IS NAMED SAFE SUPERVISOR

Raymond E. Pierce, Welder Foreman, System Support & Equipment Branch, Test Laboratory, has been selected as Safe Supervisor of the Week.

Pierce was born in Cullman County, Alabama; attended the Hartselle Elementary School and completed his high school studies while a member of the Citizens

Conservation Corps at Sewanee, Tenn.

His employment at Redstone began in 1951, prior to which time he worked for the Chemical Warfare, Huntsville, and the Decatur Iron and Steel Shipyard at Decatur.

In his present position Pierce supervises personnel engaged in welding, gas and electric, in the fabrication of equipment and sheet metal work. Pierce strongly



R. E. PIERCE

feels that safety is a must in the operations he supervises. In his opinion, the safety of workmen and materials should be planned into all work procedures and followed-up with close on the job supervision to insure safe work performance by all concerned.

Pierce is a member of the Rocket Astronomical Association, American Federation of Government Employees and AF of L CIO Steamfitters and Plumbers of America. His hobbies are astronomy, geology, golf and boating.

Pierce is married and has two daughters, Linda age 12 and Nancy Lea age 3. Mrs. Pierce, formerly Elree Martin of Hartselle, is presently employed by the Hart-



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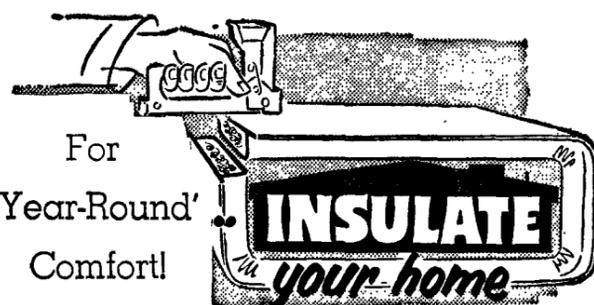
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Safety Scoreboard

(As of 29 Feb.)

Days since last civilian disabling injury	9
Our Goal	50
Days since last military disabling injury	9
Our goal	30
Days since last contractor personnel disabling injury	20
Our goal	50
Days since last government motor vehicle accident	5
Our goal	30

DRIVING RECORD (Government Vehicles)

(As of 29 Feb.)

Organization	No. Accidents (1960)	Days Since Last MVA Accident
Transportation Div. (RSA)	4	5
Post Engineer Div. (RSA)	6	9
Provost Marshall Div. (RSA)	7	12
Depot Operation (RSA)	0	158
All Other RSA	2	21
Thiokol (ARGMA)	0	92
All Other ARGMA	0	192
OGMS	1	31
ABMA	2	34

SAFETY

(Continued from Page 1)

secrets of success is courtesy — courtesy not to overspeed — to always look before moving into traffic so as not chisel on the right-of-way of others. In fact drivers willing to take second or third place in line to prevent an accident. Folks who drive defensively live longer, enjoy life more and trade cars for a higher price than those who don't."

Extensive effort is to be made during the campaign to promote safety consciousness among drivers and pedestrians through safety movies, lectures, distribution of safety pamphlets on Defensive Driving techniques and other appropriate methods.

All personnel of the installation are urged to continue full support toward making this program a success.

ONE ARMY

The citizen-soldier's part in the defense of this country has never been more important than it is today, according to General Bruce C. Clarke, who adds, "His willingness to do his part has never been greater" . . .

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Chrysler Receives Safety Merit Award

The National Safety Council last Wednesday presented an Award of Merit to Chrysler Corporation's Huntsville Operations in recognition of its outstanding record of industrial safety during 1959.

The award, second National Safety Council honor to be given to the Chrysler Huntsville plant in less than a year, covers the period from April to December of last year in which Chrysler em-

ployes worked more than one million man-hours without a disabling injury.

Huntsville Operations last July received an Award of Honor from the Council for achieving more than three million man-hours without disabling work injury dating back to the time the plant was established in March 1953.

In addition to the Council awards, Huntsville Operations has received military awards of merit from the Army Ordnance Missile Command for its safety record in each of the past five years.

Huntsville Operations, part of Chrysler Corporation's Missile

Division, has a work force of approximately 700 employees. Its primary function is to supply engineering services to the Army Ballistic Missile Agency and AOMC on Redstone and Jupiter missiles and other Army and government-sponsored space projects.

This marks the sixth time in slightly more than three years that the Chrysler Corporation Missile Division has been recognized by the Council for noteworthy industrial safety performance. The Chrysler-operated Michigan Ordnance Missile Plant, "home" of the Redstone and Ju-

DID YOU KNOW?

That Lew Wallace (author of "Ben Hur" which is now being publicized as a multi-million dollar movie) served with distinction in the Civil War, rising to general officer rank.

NATIONAL LIBRARY WEEK

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... piter and headquarters of the Missile Division, has received the Council's Award of Merit in 1956, 1957 and 1958, and the Award of Honor last fall.

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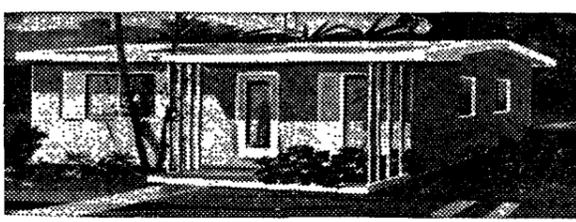
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In the United States many governors and mayors issue special proclamations. Church bells ring out; sirens are blown; traffic comes to a full-minute stop for prayer. Services are held in schools, hospitals, factories and prisons.

Mrs. James Evans, national director of the Day for UCW, points out that services are reported from many hamlets such as Painted Post, N.Y.; Wind Gap, Pa.; Spice Island, Ind.; Harmony, Okla.; PeeWee Valley, Ky.; Truth or Consequences, N.M.; Sweet Home, Ore.; and Singers Glen, Va. Their very names dramatize the romance of the settling of America and those who pioneered in faith and hope.

Offerings, which are equally divided between Home and Foreign Missions, aid agricultural workers in this country as well as Indian-Americans. Abroad, among other things, they help develop Christian leaders in the new African and Asian countries; provide new literates with reading materials; aid women students in eleven Asian Christian colleges; set up pilot projects for village children; support French Cameroon orphanages; bring overseas students to the Student Volunteer Movement Quadrennial Conference, December, 1960; and aid a Bolivian church women's conference.

"Through these projects, which our yearly observance makes possible," notes Mrs. Evans, "We demonstrate to the world the unlimited power of prayer and the depth of our concern for God's children everywhere."

All personnel both military and civilian are invited to be present for this service which will last

Local Navy Reserve Men Hear Lecture On TV Instruction

Lt. (JG) Kenneth P. Jones, US-NR, delivered a lecture on "Television for Instructional Purposes," to Co. 6-16 of Huntsville at last week's meeting.

The teleprompter from the Ordnance Guided Missile School was used as a visual aid.

Jones is employed in the Support Equipment Laboratory, Development Operations Division, Army Ballistic Missile Agency.

approximately forty-five minutes.

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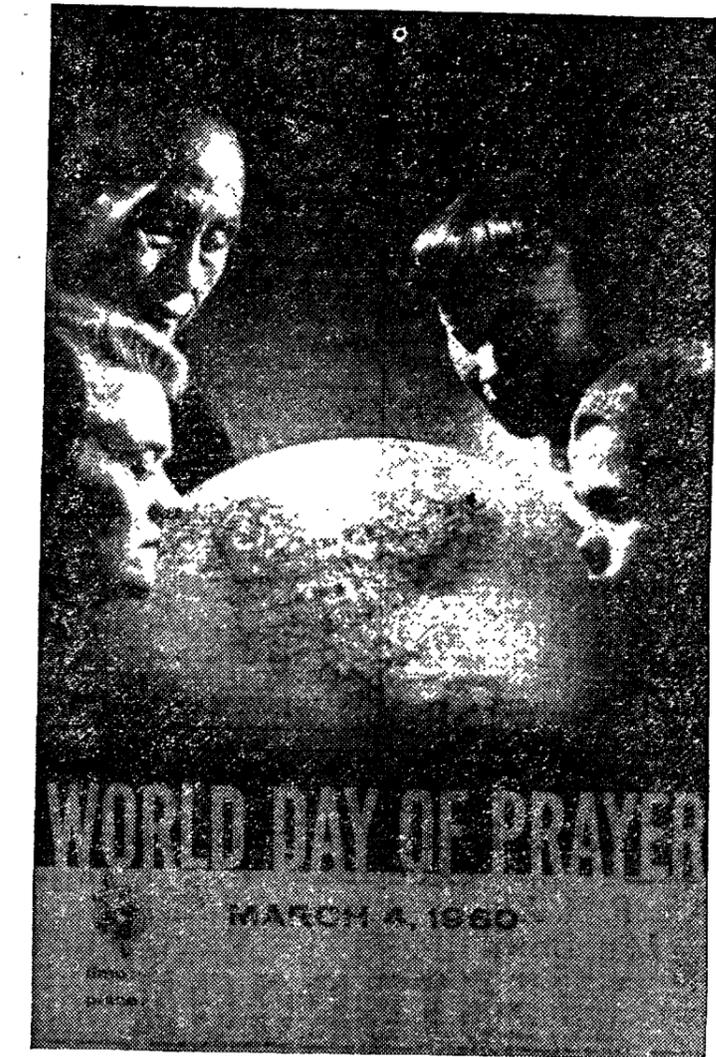
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Friday Is Designated Day Of Prayer Around World

The first Canadians, Indians and Eskimos living near the Arctic Circle, will join with military personnel and civilians of Redstone Arsenal, and with people around the world on World Day of Prayer, March 4.

The observance at Redstone Arsenal, one of 20,000 in the United States, will be held in the Post Chapel at 10:30 a.m. under the sponsorship of Redstone Arsenal Protestant Women of the Chapel. This service will be under the leadership of five members of the Restone Arsenal Protestant Women of the Chapel: Mrs. Sterling C. Holmes, Mrs. Harry M. Murry, Mrs. Leonard C.

Miles, Mrs. William L. Strickland, and Mrs. Ernest Hagar.

The United States observance is sponsored annually by United Church Women, a general department of the National Council of Churches. Each year that national organization representing some ten million women in the American churches, asks church women of a different country to prepare the service for the twenty-four-hour prayer vigil which spans 145 countries on six continents.

The Women's Inter-Church Council of Canada wrote the service for the seventy-fourth observance around the theme from 1 Corinthians 3:9, "Labourers Together with God." Canadian church women themselves joined in World Day of Prayer thirty-nine years ago, and will take part in 1960 from the Atlantic to the Pacific and to the frozen north.

As prayers rise around the world in sixty languages and more than one thousand dialects, one of these will be a special supplication written for her people by Mrs. Nellie Jacobson of Ahousat, B. C. Mrs. Jacobson is an Indian woman, well-known

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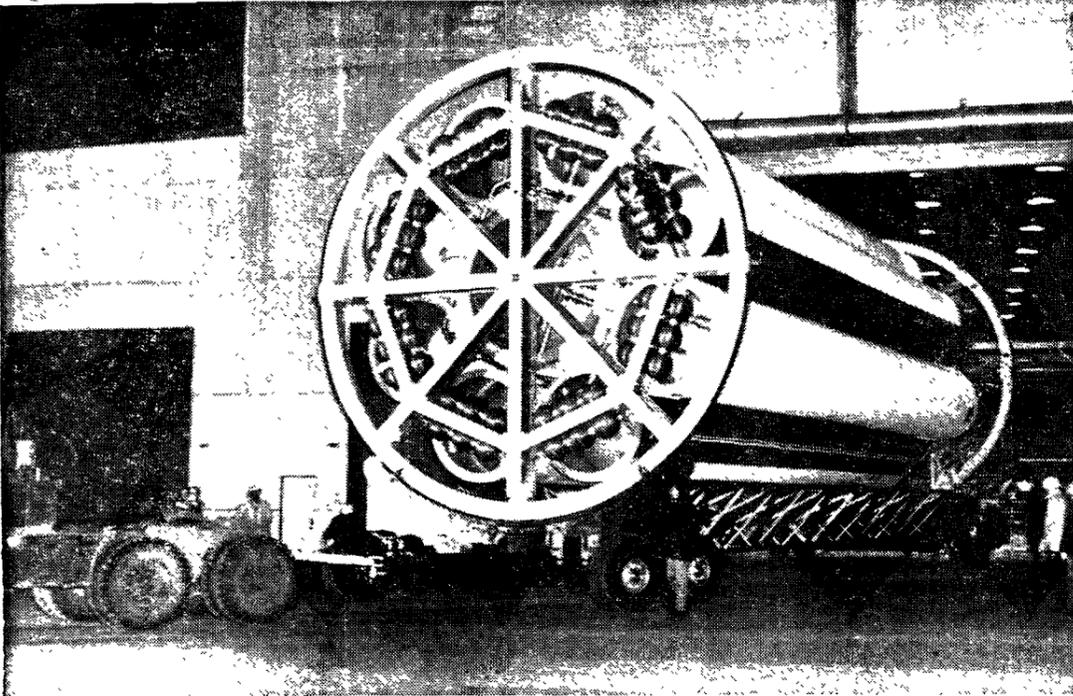
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LEAVES ASSEMBLY SHOP—The first Saturn booster leaves the assembly shop at the Army Ballistic Missile Agency, Huntsville, Ala., where it is being developed under Army management for the National Aeronautics and Space Administration. The giant booster consists of eight 70-inch-diameter liquid oxygen and kerosene fuel tanks clustered around a 105-inch-diameter liquid oxygen tank. High-pressure spheres, visible around the forward part of the assembly, pressurize the system after firing.

Milton K. Cummings Is New President of AOA

Milton K. Cummings, president of Tennessee Valley of Brown Engineering Company, Post, American Ordnance Association, of Huntsville, was elected president of the association at the annual dinner meet-

ing in Huntsville's Community Center Friday night (26 Feb.). Cummings succeeds Robert W. Cuthill, Chief Engineer of the Army Ordnance Missile Command.

The Post elected as vice-presidents Dave H. Newby of NASA, A. A. Demetrius of Northrop Corp., Col. W. M. Talbot of Chrysler Corp. Jeff D. Darwin, small business representative, Army Ordnance Missile Command, was re-elected secretary and treasurer.

M. C. Duke of Reynolds Metals Company, Sheffield, became National Council member. Maj. Gen. J. B. Medaris, retired AOMC commander, was elected honorary lifetime director.

The other directors are: Three years — R. W. Washburn, Southern Associated Engineers; J. W. Wiggins, Thiokol Chemical Corp.; J. A. Muller, Army Ballistic Missile Agency; M. J. Groat, AOMC.

Two years — Karl Woltersdorf, Huntsville Utilities; Walter Wiesman, ABMA; T. D. Johnson, North Alabama Associates; Paul Shaeppi, Army Rocket and Guided Missile Agency.

One year — R. A. Harrison, IBM Corp.; J. R. Abbott, Lockheed Aircraft; L. G. Dawson, P. R. Mallory Co.; Dr. Ralph E. Swann, ARGMA.

The speaker of the evening was Maj. Gen. August Schomburg, Commanding General, Army Ord-

Cdr. Hartlein Trains At Cape Canaveral

Cdr. John Hartlein, Jr., USNR-R, Administrative Assistant of the Naval Reserve Research Co. 6-17, Huntsville, has returned from two weeks annual training duty at the Naval Ordnance Test Unit,

Patrick Air Force Base.

Cdr. Hartlein received training in the Polaris missile program, as well as instruction in infra-red and radio propagation developments.

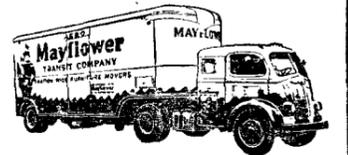
Cdr. Hartlein lives at 525 Adams Street and is deputy chief, Security Survey and Visitor Control Branch, Intelligence and Security Division, Redstone Arsenal.

nance Missile Command. He was introduced by Brig. Gen. J. A. Barclay, Deputy to General Schomburg.

Robert F. Mello, Personnel Director, AOMC, was master of ceremonies. Rev. A. J. Yunker, Sr., asked the invocation. Mayor R. B. Searcy welcomed the Post to the city.

Cuthill announced the Post doubled its membership in 1959— from 450 to 900 members. Representing the national AOA organization, Maj. Gen. E. P. Mechling, retired, congratulated the Post on its record and installed the new officers.

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SACRIFICE for quick sale two lounge chairs, Toast Color, \$25 each, both \$45. Original Cost \$262. Phone JE 9-4690 after 6:00 p.m. 1tp

FOR SALE — 12' Aristocrat plywood boat with windshield and steering wheel, factory trailer, 10 h.p. motor, \$225—less motor \$200. 208 Wingate Ave., S.W., or call JE 9-3509. 1tc

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ROOM AND BOARD — In private home for two gentlemen with TV privileges. Close to arsenal. Phone JE 6-8291. 1tp

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FOR SALE—30" Kenmore Range, 1959 Model. 11 cu. ft. Coldspot refrigerator, 1959 model. Both used only 8 mos. Call Redstone Arsenal 5-7778 or 3-6464. 1tp

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FOR RENT — New 2 bedroom brick duplex, furnished or unfurnished, in Glen Park, ceramic tile bath, forced air heat, phone JE 4-6102. 1.t.c.

FOR SALE: One lot 74' x 208' in Falkville, Alabama. Call SP 3-9361 in Hartselle after 5:30 P. M. or STate 4-2442 in Falkville. 3-1-c

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FOR RENT — 5-room unfurnished apartment at 1122 Wellman Ave., near schools. Phone JE 4-9311 or JE 2-5697. ttc

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FOR SALE — Extra nice 2 bedroom home with large den, basement, fence, nice yard, trees, small down payment. 218 North Plymouth Rd. Phone JE 2-2690 after 5:15. 1tp

FOR SALE — 1957 Plymouth Belvedere V8, 4 dr., radio, heater, powerflite, one owner, clean, \$1,000. Call Ferrell, ext. 3-1270 or JE 4-4809. 1tc

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The Judge Advocate Advises



PUBLIC PROPERTY

The recent revelations concerning the television and radio industries are only a part of a number of indications that we may be living in what Allan Drury, in "Advise and Consent," has described as the "Age of the Shoddy" and "Age of the Shrug" when "everybody wants his" became a guiding principle for far too many.

From time to time this attitude is found even in the military establishment. While the attitude is, fortunately, rare in occurrence, it is so far from the mark of what is commonly expected of soldiers and public officials that it is appropriate that the matter be given serious thought.

In some quarters, the feeling has occasionally been noted that, because items of supply and equipment are denominated "public property," they belong to no one and to all, therefore, anyone can take and use these as his personal property. There has been expression of the view that it is permissible to "steal from Uncle Sam if you can get away with it."

Such thinking is perverted and fallacious. Indeed, property that is identified as public property must be treated, by those who are privileged to be servants of the public interest, as thrust property. Those holding, using or having access to the public's property are bound to safeguard and conserve it as "trustees" in the public interest.

It is more onerous for such a person to abuse his trust than for an individual to convert or misappropriate the private property of another. A failure to deal with such property economically may not, in fact, lead to the result of the loss of the battle that the loss of the nail and the shoe and the horse yielded, but ultimately an irresponsible attitude toward such property will go far toward promoting deterioration of discipline in the Army.

In a very real sense, such an attitude will compromise military preparedness and combat efficiency, and ultimately success in battle.

The late Judge Jerome Frank, having occasion to consider and compare the responsibilities of those in the public service and those in private life, wrote:

"We differentiate - and properly - between the obligations of men engaged in administering business and men engaged in administering government. Freer play is given to John Q. Smith as officer of the Zenth Corporation than to John Q. Smith when he gives up his corporation job, moves from New York or Des Moines to Washington and becomes a federal official. The 'law', relating to government officer Smith, embodies merely minimum moral standards. The 'law', relating to government officer Smith, necessarily embodies higher moral standards. And that is as it should be. For Smith, when in the government, is the public's servant, representing the public generally; and, too, the powers which he exercises are, usually, more compelling."

It should be noted that Congress, in the enactment of the Uniform Code of Military Justice, denounced, among other things, dereliction, wrongful appropriation and larceny as offensive. The willful or negligent failure to deal with government property economically and efficiently would constitute dereliction of duty.

The taking of such property for one's personal use, even temporarily, would spell out wrongful appropriation, while permanently depriving the government of its property is larceny. Larceny and wrongful appropriation are offenses which are recognized as indicating moral turpitude and, when proven in a general court-martial, are appropriately punished by the imposition of punitive discharge.

Further, the inviolability of Government property is recognized in the general criminal statutes of the United States relating

to the protection of Government property. For example, section 641, Title 18, U.S. Code, provides harsh penalties (fine of \$10,000, imprisonment for ten years, or both) for embezzlement or theft of public money, property, or records of the United States.

Also, Article 108 of the Uniform Code of Military Justice proscribes the unlawful selling or otherwise disposing of military property of the United States.

The maximum penalty for violation of this Article is a dishonorable discharge and confinement at hard labor for 5 years. Under that same Article, a soldier may be dishonorably discharged and confined at hard labor for one year for damaging, destroying, or losing through neglect military property of the United States.

It is doubtful if such a severe

criminal penalty, if any, for negligently damaging the private property of another can be found in any state or local criminal statutes.

It should also be observed that even, in the case of military personnel, where a punitive discharge is not adjudged and executed, a conviction for an offense involving moral turpitude is an ineradicable mark on one's record which one must report, when requested, throughout his lifetime. Certainly this fact of conviction by a court, of an offense revealing moral turpitude, will not aid one in obtaining desirable employment upon release from military service even with discharge other than dishonorable.

But apart from the punitive actions taken by our courts and its consequences, it must be recognized that the moral climate or the code of conduct which is fashionable in a particular community is of basic importance. In this connection, the individual's sense of responsibility and the example set by all leaders, whether in commissioned or noncommissioned status, is more important than

the exposure of those who have, in fact, been tried and found guilty of crime.

It is, therefore, incumbent upon every member of the military community to take it upon himself to insure, not only that the other fellow does what is expected with respect to public property, but also that he, himself, by his daily conduct and attitude, shows his sense of responsibility and his feeling that no one can violate the accepted standards without suffering, not only the stigma flowing from court action, but also the censure and disfavor of his neighbors and associates.

Such an attitude will contribute greatly to building that state of discipline, morale and efficiency which is essential to efficient government and the successful accomplishment of the Army's missions.

We should remind ourselves of what Justice Swayne of the United States Supreme Court expressed when he wrote:

"The foundation a republic is the virtue of its citizens. They are at once sovereigns and subjects. As the foundation is undermined, the structure is weakened.

When it is destroyed, the fabric must fall. Such is the voice of universal history. The theory of our government is, that all public stations are trusts, and that those clothed with them are to be animated in the discharge of their duties solely by considerations of right, justice, and the public good. They are never to descend to a lower plane. But there is a correlative duty resting upon the citizen. In his intercourse with those in authority, whether executive or legislative, touching the performance of their functions, he is bound to exhibit truth, frankness, and integrity. Any departure from the line of rectitude in such cases, is not only bad in morals, but involves a public wrong. No people can have any higher public interest, except the preservation of their liberties, than integrity in the administration of their government in all its departments."

THINK IT OVER

"I cannot forecast to you the action of Russia. It is a riddle wrapped up in a mystery inside an enigma." — SIR WINSTON CURCHILL.




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\$24.95 Man's or Lady's Streamlite Samsonite Luggage	\$19.95 Girl's Spring Outfit
	\$4.50 (Box) Hanes Seamiess Hose
PRIZES FOR FRIDAY	
\$65.00 Lady's Spring Suit	\$11.95 Margolin Handbag
\$17.95 Lady's Spring Dress	\$10.95 Lady's Spring Hat
\$19.95 DeLiso Debs Shoes	
PRIZES FOR SATURDAY	
\$65.00 Hart Schaffner & Marx Suit	\$11.95 Dobbs Felt Hat
\$20.95 Florsheim Shoes	

\$269.50 MAGNAVOX 21" CONSOLE TELEVISION

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