

The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Huntsville, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. VII, NO. 49

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

APRIL 15, 1959

PERSHING TEST FACILITY SLATED

Clearance of Site To Start Here Soon

Construction firms have been invited by the Army to bid on site clearance for a test facility for the Army's newest weapon, the Pershing Ballistic Missile. The new test facility will subsequently be located south of Buxton Road and north of the Tennessee River at Redstone Arsenal in an isolated area as a safety factor.

The Army Ballistic Missile Agency will eventually test the solid propellant Pershing, which will be lighter, smaller, and more mobile than its giant predecessor, the Redstone. Prime contractor for the Pershing is the Martin Co. of Orlando, Fla.

The Army Engineers' specifications call for clearing of about 100 acres of land; excavation of approximately 57,000 cubic yards of earth and rock; constructing a booster pump station building, a 500,000-gallon ground storage reservoir, and a 4,000-gallon hydro-pneumatic water tank; constructing a water distribution system, a drainage system, and a paved access road about five miles long; performing extensive exterior electrical work and building a security fence.

Thiokol Chemical Corp., has successfully test-fired the first (See PERSHING on Page 2)

Keep Minds Up-to-Date, Col Holmes Urges Graduates

"The measure of a missile man's success is how well he keeps his mind from becoming obsolescent in our rapidly advancing space age technology," Col. Stelling C. Holmes, Assistant Chief of Staff for Research & Development of the Army Ordnance Missile Command, told graduates of the Ordnance Guided Missile School last week.

Speaking to three classes of officers and men graduating simultaneously in anti-aircraft and field artillery missiles and Corporal missile maintenance supervision, Col. Holmes stressed the need for off-duty study to keep up-to-date on fast-moving developments in missilery.

Lt. William G. Smith was honor student of the officers' anti-aircraft course; Lt. Roger W. Mic-

French to Produce Anti-Tank Weapon

A letter order has been placed with the French government to produce SS-10 and SS-11 anti-tank guided missiles and associated equipment for the U.S. Army, the Department of the Army has announced.

A definitive contract is currently being negotiated.

Initial quantities of the missile will be provided Seventh Army troops in Germany.

The SS-10 and SS-11, manufactured by Nord Aviation of Paris, are remote-controlled, wire-guided missiles with a solid propellant and are capable of putting out of (See FRENCH on Page 3)

FIRST TWO LACROSSE UNITS DUE TO BE ACTIVATED AT FT. SILL SOON

The first two units employing the mobile, highly accurate Lacrosse surface-to-surface guided missile will be activated at Ft. Sill, Okla., within the next two months, the Department of the Army has announced.

Scheduled to become active before June 25 are the 5th Missile Battalion, 41st Artillery; and the 5th Missile Battalion, 42nd Artillery, each with approximately 170 officers and enlisted men.

The solid propellant Lacrosse missile, developed out of experiences of the Pacific campaign in



TELEVISIONING OGMS SHOW—John P. Carrigy, director, writes cues on teleprompter during yesterday's live television beamed from the Ordnance Guided Missile School to the National Press Club in Washington. Left to right are Capt. George E. Pickering, Bob Brown, and Sfc. E. D. Arnold.

IN LIVE TV REPORT TO CAPITAL

New Type Press Confab Held by OGMS

A new kind of press conference originated here yesterday when the Ordnance Guided Missile School televised a 45-minute live report on Army missile training to the National Press Club in Washington, 730 miles north.

About 500 correspondents of the nation's leading newspapers and press services witnessed the closed circuit transmission which was the first such report to the public to be beamed over such a dis-

tance, according to Col. H. S. Newhall, OGMS Commandant.

This was the second time, however, that the school had beamed a program to the nation's capital since the installation last Fall of its television facilities which now compare with New York and Hollywood studios in the scope of equipment.

Feb. 18th Show

Last Feb. 18th, OGMS transmitted a two-hour course on mis-

sile maintenance from its campus here to the Pentagon where Secretary of the Army Wilber M. Brucker and high-ranking officers saw it.

The program was so well received, Col. Newhall said, that Maj. Gen. H. J. Storke, Chief of Army Information, asked that a special live report on the Missile School's pioneer methods of missile training be prepared for the National Press Club which in the past few weeks has heard from President Eisenhower, Deputy Premier Mikoyan, King Hussein of Jordan and General Lauris Norstad, Supreme Commander of NATO Forces in Europe.

"We could not possibly bring 500 top-flight at once to OGMS to see the Army's advances in missile training," Col. Newhall said, "so we are taking the mountain to Mohammed. It is a great opportunity to tell the OGMS-Huntsville story to one of the most discerning audiences in the world."

Introductions

The program was introduced to the newsmen by William T. Lawrence, president of the Press Club and chief of the Washington bureau of The New York Times and by Maj. Gen. Storke and Maj. Gen. J. H. Hinrichs, Chief of the Army Ordnance Corps. Following the preliminaries, Col. Newhall pressed a missile firing button that opened the television circuit from the Press Club ballroom to the OGMS campus here. The program was viewed on a giant screen measuring 12 by 15 feet.

Highlights of the program included a number of "TV firsts"

A demonstration of the capability of the Army's new super sonic Hawk missile to be transported by helicopter to battle stations;

A report on Air Force training on the Army-developed Jupiter, intermediate range ballistic missile and on the schooling of the first missile units from 10 member nations of the North Atlantic Treaty Organization and the Southeast Asia Treaty Organization (See NEW TYPE on Page 2)

Safe-Driving Plaques Will Be Distributed To Post Organizations

Plaques are being prepared now for awarding to organizations on the installation in recognition of periods of safe driving, according to an announcement from the RSA Safety Division.

These safe driving plaques will be awarded to the organizations on the installation which account for the greater part of the mileage accumulated by government vehicles. Among those that will receive plaques when they qualify without accidents are, in part, by having driven specified periods of safe driving, according to an announcement from the RSA Safety Division.

In order to qualify to receive a plaque, an organization must drive at least 30 days without an accident resulting in any damage to a government vehicle. If it continues to drive safely for 60 days, the 30-day plaque will be replaced with a 60-day plaque; and if the same organization continues to drive safely until 90 consecutive days are driven without an accident, a 90-day plaque will be awarded for permanent possession.

Plaques are being prepared in all now and as soon as they are ready the first awards will be made, based on the driving record as shown in The Redstone Rocket (See SAFE-DRIVING on Page 2)

Swedish Visitor Expresses Gratitude For Hospitality Here

Brig. Gen. J. M. Colby, Deputy Commanding General of AOMC this week received warm appreciation from a recent foreign visitor to the installation.

General-Inspector Sven Thofelt of the Swedish Antiaircraft Artillery wrote from Stockholm:

"By this letter I want to thank you heartily for the very agreeable and most interesting time you gave us Swedes during our visit to Redstone the 19th of February. We are fully aware that this success was chiefly due to you and to the interest and support which you extended us by personally occupying yourself in the matter.

"I am also particularly desirous of conveying to you my unreserved admiration of the perfect military bearing that marked all the officers and men with whom we came into contact. I must also (See SWEDISH on Page 2)

Former Navy Secretary Kimball to be Speaker For Meeting of AOA

D. A. Kimball, president of Aerojet General Corporation and former Secretary of the Navy will be guest speaker for the Spring meeting of the Tennessee Valley Post, American Ordnance Association, on Friday, April 17.

A social hour, beginning at 6:30 p.m., will precede the dinner meeting, which will be held at the National Guard Armory, South Memorial Parkway.

Members and friends of AOA are invited to attend.

Tickets are available at the offices of Lt. Col. Paul A. Lamoure, ext. 4603; Col. Thurston T. Paul, ext. 2124; Capt. Shepard Newell, ext. 2500; Lt. Col. Ernest W. Ewbank, Jr., ext. 2737; or Gordon Harris, ext. 4400.

In downtown Huntsville, tickets are available from Karl Waltersdorf at the Utilities Building or George Mahoney, Sr., at Johnson-Mahoney Clothing Store.

TOP ARMED FORCES DAY EVENT SET

'Most Significant' Predicted by Chmn.

(Photo Inside)

The chairman of the Rocket City 1959 Armed Forces Day committee, L. G. Dawson, last week predicted "the most significant celebration in honor of America's fighting men and women that Huntsville has ever observed" will be held here next month.

The 1959 Armed Forces Day observance will present to the public "a comprehensive picture of the solid scientific and military accomplishments achieved by the Army-Industry-Science team, locally and nationally," Dawson said.

The chairman made his comments Wednesday following a study of the reports made at the first full meeting of the Huntsville committee yesterday.

Industries Invited

In addition to inviting the military agencies at Redstone Arsenal to participate in the annual events staged in the city, some 30 industries have been asked to play a prominent role by displaying and explaining their contributions to national defense and related efforts.

Dawson, general manager of the P. R. Mallory Company plant in Huntsville reported that substan-

(See TOP on Page 6)

Australian Wind Tunnel Expert Joins ABMA Lab

(Photo Inside)

An Australian wind tunnel expert, Dr. Heinz A. Gorges, has joined the Army Ballistic Missile Agency under a one-year consultant contract.

Dr. Gorges is employed in the Aeroballistics Laboratory, the segment which operates the Missile Agency's two wind tunnels.

In Australia, Dr. Gorges is employed in his government's missile research and development work. He is principal officer of the Wind Tunnel Group at the Weapons Research Establishment near Adelaide in the south of Australia. The Weapons Research Establishment is the base station to Woomera Rocket Range, which is operated as a joint effort of the Australian and British governments.

At Huntsville, as in Australia, Dr. Gorges is concerned with high speed airflow and its influence upon missile design and development.

Lifelong Friend

Dr. Gorges is a lifelong friend of Dr. E. D. Geissler, director of the ABMA Aeroballistics Lab. (See WIND on Page 3)

National President Of AFGE to Speak At Local Lodge Meet

Mr. James A. Campbell, national president of the American Federation of Government Employees, will address Redstone Arsenal Lodge 1858 at a dinner meeting Wednesday evening, 29 April, at 7 p.m. in the ballroom of the Russell Erskine Hotel, Huntsville.

Members desiring to attend must purchase tickets by April 20, AFGE officials announce.

NEW PLASMA JET TEST FACILITY AIDS HIGH-TEMPERATURE RESEARCH

BY MRS. WANDA THROWER Of PIO - AOMC

Two years ago Dr. Thomas A. Barr, Jr., left his duties as college professor at the University of Georgia to initiate a high temperature research program at the Army Rocket and Guided Missile Agency. Today, as a result of his efforts, a highly useful test facility for the Army's missile programs has been developed.

Photo Inside

Dr. Barr, a physicist, is chief of the Magnetohydrodynamics Unit in the Agency's Ordnance Missile

Laboratories Division. The new high temperature test facility - often referred to as a plasma jet test facility - is now in prototype operation with construction of the final version underway.

50,000 Degrees F.

The prototype facility is capable of producing temperatures up to 50,000 degrees Fahrenheit through the use of electric current to heat gas.

Such temperatures are of a much higher degree than it is (See NEW on Page 5)

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hoffhaus, Huntsville, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

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NEW TYPE

(Continued From Page 1)

The first televised demonstration of the use of new "video tape" in missile instruction; The first demonstration of new Teleprompter group communication devices and techniques used to speed missile training; A view of a "classroom of the future" where the latest training aids, such features as "black light" and different types of instructional equipment have been adopted for use at OGMS; Close-up views of most of the Army's family of operational missiles now used by troops around the world.

Men in Charge

Maj. Peter L. Horne Jr., Maurice F. S. Penn, and Clifford Paul of the OGMS staff were in charge of production of the program which was written under contract by Robert Cochran, well-known script-writer from New York. Thirteen officers and men who instruct at OGMS were the "stars" of the show, including Maj. Parker, Capt. Thomas F. Brady, CWO Solomon F. Strickland, Jr., Sfc. Arthur E. Williams, Sfc. Neil S. Wilson, CWO Henry D. Arrott, Capt. Gerald A. Ludick, CWO Norman C. Stuart, Capt. Jerome H. Ongies, Capt. Bernard C. Rulong, and Capt. G. E. Pickering. Press liaison for the event was handled in Washington by Reavis O'Neal, Jr., OGMS Information Officer.

The OGMS-TV facilities are used several times a month for regularly scheduled courses in missile maintenance sent to the Armor School at Fort Knox, Ky. Some 20 other courses or portions of classes are transmitted daily to OGMS classrooms where missile training is conducted around-the-clock.

SAFE-DRIVEING

(Continued From Page 1) at that time. Therefore, all organizations should be encouraged to maintain their present string of accident free days, according to Safety Division officials.

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(Continued From Page 1)

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MINDS

(Continued From Page 1)

kelson led the field artillery class; and SP2 John L. Crepau excelled in Corporal maintenance supervision. The graduates included 20 officers, one civilian, and seven enlisted men.

PERSHING

(Continued From Page 1)

solid propellant motors in the Pershing missile system. Thiokol's Redstone Division is under subcontract to Martin for development of solid propellants for the Pershing system. The Pershing test facility will have a test stand, a blockhouse, and numerous support buildings and support areas. The Pershing is a ground-to-ground missile for use by the Army as a close support weapon. Bids for the site clearance contract will be opened at 11 a.m. CST on May 7, 1959, at the Corps of Engineers District in Mobile, Ala.

FIRST TWO

(Continued From Page 1)

can be mounted on a standard 2 1/2 ton Army truck. The equipment and crew can also be easily airlifted to battle areas if necessary. Lacrosse units are designed to supplement and replace conventional field artillery. The missile is controlled by a forward guidance station which serves as an observation post — similar to that employed by field artillery. However, in the Lacrosse system, precise target data is not required at the launch site. The missile can hit targets that can be located from data supplied by a target survey unit or other sources such as map coordinates. Lacrosse is in production by the Martin Co. at Orlando, Fla. The Army Rocket and Guided Missile Agency of the Army Ordnance Missile Command is responsible for development, production, and field support equipment.

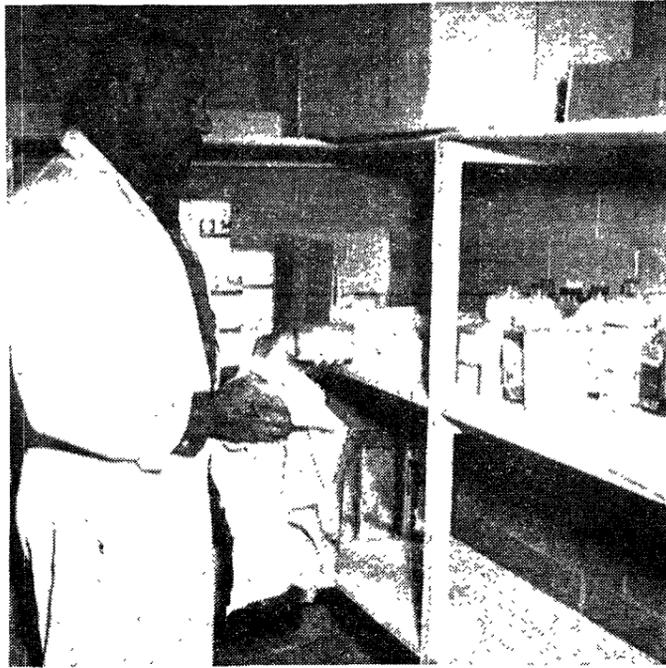
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GOOD HOUSEKEEPING is especially important in such out-of-the-way places as janitor's supply rooms where fire can start and gain considerable headway before detected. Shown above displaying how a supply room should be kept is Willie Lanier who keeps in order Buildings 3649, 3641, 3658, and 3655.

Why Management Endorses 'Good Housekeeping'

(Editor's note: This is "Good Housekeeping" Month on the Arsenal. The following article, on the subject, was written and submitted to The Rocket by T. W. Davidson, Chief of the ARGMA Safety Branch.)

Did you ever wonder why management wants "good housekeeping?" Let's take a look at some of the reasoning behind this desire. An operation that is orderly and clean enables the supervisor to know exactly what is taking place in his area. It makes inventory control easy. It improves the morale of the employee. Many companies have plant facilities but also encourage the employee to take pride in his work area. It eliminates many hazards such as possible causes of fires, falls, lacerations, etc. It discloses defective equipment, tools, floor, and material handling methods.

All areas of the plant are visited regularly by outside agencies, survey parties, contractors, inspectors, engineers, and others. The first impression they receive of the installation, and often the most lasting one, is its appearance. Well-kept grounds, shops and offices immediately suggest that where such order exists there must be efficiency. This is usually a true impression. The experienced man has found that those plants which produce the best product most efficiently under given circumstances are nearly always well-maintained and orderly.

Certainly efficiency cannot exist if the work area is so cluttered that the hazards mentioned above are present. Every accident that occurs as the result of a hazardous condition immediately interrupts the operations and disrupts any efficiency that might have existed.

An employee who is given an orderly and clean work place realizes that management is interested in his welfare and, in turn, is usually anxious to produce to the best of his ability.

Accident prevention personnel have long considered the achievement of good housekeeping as the basic in any good safety program. Once this basic step is achieved and maintained the program can then be expanded to all phases. Invariably it has been proven that plants with good housekeeping records also have accident prevention records.

For an efficient, safe plant that will be the pride of the Ordnance Corps, start now with good housekeeping.

10 'Good Housekeeping' Tips to Prevent Fires

BY PAT PRUITT, Fire Chief, RSA

1. Don't allow unnecessary accumulations of combustible material such as paper, excelsior, packing materials, etc.
2. Clean up flammable liquid spills as soon as practicable.
3. Discard cigarettes, cigars, and used matches into special containers—not into wastebaskets or other containers of combustible materials.
4. Keep tops on all GI trash cans always.
5. Don't permit storage of combustible materials too close to heat sources (including electrical installation).
6. Clean vent hoods and ducts of flammable dust, grease, etc. regularly.
7. Provide firebreaks free of combustible weeds, grass and underbrush when burning outside.
8. Keep oily rags in metal containers with self-closing lids.
9. Store flammable liquids such as paints, thinners, oils, etc. separate from other combustibles. Keep tops on containers except when using.
10. PRACTICE GOOD HOUSEKEEPING ALWAYS ALL WAYS! PREVENT FIRES!



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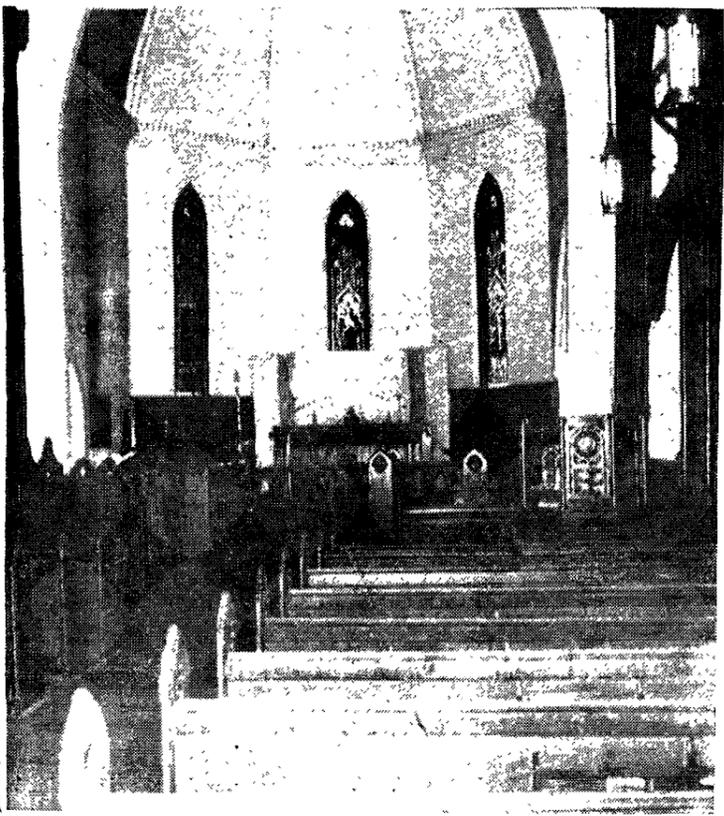


East Jackson County





'GLIMPSES OF ANTE-BELLUM HUNTSVILLE' — A highlight of a forthcoming tour of historic Huntsville buildings by Arsenal enlisted personnel, and their families and guests, will be a visit to the Episcopal Church of the Nativity (corner of Eustis and Green Streets). In photo above, the Rev. Emile Joffrion, rector, stands at entrance to church's courtyard. Picture below shows interior of church, which was built in 1845. The city tour, to be sponsored by the Arsenal's Rocket Service Club on Sunday, May 3, will be called "Glimpses of Ante-Bellum Huntsville." In addition to the Episcopal Church, several local homes of historic and architectural interest will be on the tour group's itinerary.



FRENCH

(Continued From Page 1)

action any tank known to exist in present-day armies.

These missiles can be hand-carried, dropped by parachutes from planes, operated by one soldier, and launched from the ground, vehicles, helicopter, or airplane.

The United States government has contributed to the development of the SS-11, which, while based on the SS-10, is a weapon complementary to it, having greater speed, range, and effectiveness. The contribution by the U. S. was made under the U. S. mutual weapons development program, a part of the American foreign military aid program.

The SS-10 anti-tank missile is basically designed for ground forces and is being procured for use by the U. S. Army.

The SS-11, with a range of more than double that of SS-10, is somewhat heavier than the SS-10, and being procured for evaluation.

The SS-10 has been adopted as a standard item of equipment for U. S. forces. A determination regarding the SS-11 will be made following the presently planned program for evaluation of this system.

CAPT. MILLER IS ABMA ADJUTANT

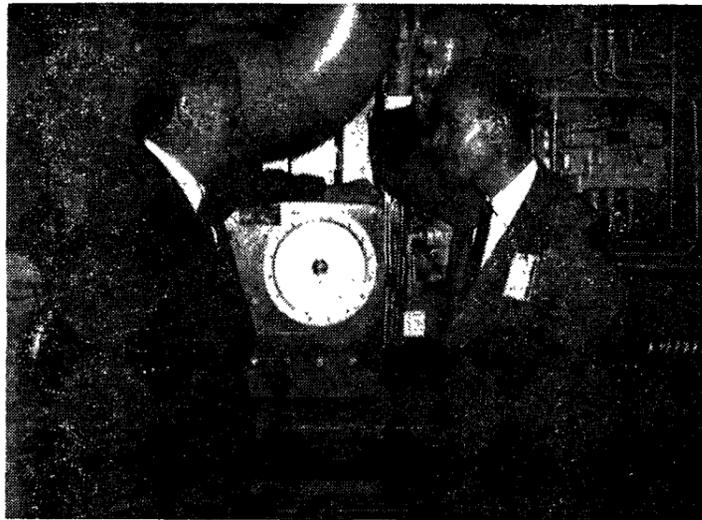
Capt. Stuart L. Miller has been assigned as Adjutant at the Army Ballistic Missile Agency.

Capt. Miller received his BS degree in 1951 from the U. S. Military Academy. Prior to his assignment with the Army Ballistic Missile Agency he was a student at the Army Ordnance School, Aberdeen Proving Ground, Md. from July until December 1958, and was with the 7th Armor First Medium Tank Battalion at Ft. Hood, Tex., from December 1957 until June 1958.

During his service career, Capt. Miller has served in Wildflecken, Germany, with the 373rd Armored Infantry Battalion, in Frankfurt, Germany, with the 513th Military Intelligence Group, and in Korea with the 223rd Infantry Regiment, 40th Division.

During his service in Korea he received the Combat Infantry-Badge and the Bronze Star for Valor.

Capt. and Mrs. Miller reside in Huntsville with their four children, Kenneth Warren, age 7; David L., age 4; Catherine E., age 3; and Nancy Lynne, 8 months old.



DR. HEINZ A. GORGES, left, and Dr. E. D. Geissler talk before one of the wind tunnels at the Army Ballistic Missile Agency. Dr. Gorges, an Australian wind tunnel expert, has begun a one-year period as consultant to the ABMA Aeroballistics Laboratory, of which Dr. Geissler is director.

WIND

(Continued from Page 1)

They were schoolmates for five years at the Dresden Technical University in Germany, where Gorges was studying engineering and Geissler technical physics.

The 46-year-old Gorges has worked in his present field in three countries over a period of 20 years. He worked at the large wind tunnel facility near Brunswick, Germany from 1940 to 1945. He then went under contract to England where he was employed at the Royal Aircraft Establishment at Farnborough. In 1949 he accepted his present position in Australia.

He is now an Australian citizen, with residence at Adelaide, a town near the Weapons Research Establishment.

ABMA Responsibilities

ABMA is responsible for developing the Army's long-range missiles such as Redstone and Jupiter, and conducting space exploration assignments. The agency launched the Free World's first earth satellite, Explorer I, and the first U. S. Satellite of the Sun, Pioneer IV.

At the Australian post Dr. Gorges is responsible for all labor-

atory techniques in the field of supersonics. His lab equipment includes two wind tunnels very similar in capability to ABMA's, he said.

Dr. and Mrs. Gorges are living at 3311 Bellcrest Dr., S.E. Huntsville.



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Social News

Annual Fashion Show Set by NCO Auxiliary

The NCO Auxiliary held its monthly business meeting Thursday and slated its annual fashion show for the month of May.

Members of the Auxiliary will participate as models in the fashion event to be sponsored by a Huntsville department store. More details will be announced later.

The Ways and Means Committee chairman, Mrs. Orthal Roark, told members of the club that the Auxiliary candy sale was successful.

Mrs. George Steffens announced that enlisted men would be

named to the Arts and Crafts Committee

Mrs. M. R. France, of the Red Cross Committee, reported that a course in home nursing was being initiated.

The Auxiliary will hold its monthly social on April 23 at 7:30 p.m. Reservations may be made prior to noon on April 21 by contacting Mrs. Jack Greenwood.

Hostesses for the meeting were Mrs. India Lou Davis, Mrs. Wilma Byrd, and Mrs. Greenwood.

Members of the Auxiliary were urged to contact Mrs. Melvin Collins regarding publicity items.

At the Service Club

The "Chattanooga Choo-Choo Square Dance Caller," Fred Goodner, will be with us to call the Square Dance for Thursday, April 23, starting at 8 p.m. Mr. Goodner called a WESTERN style Square Dance here back in January. Everyone enjoyed him so much that we've asked for a repeat performance. If you can't square dance, Goodner gets out and joins the crowd until he's sure you're on your own. Everyone has a good time whenever Fred Goodner and his cute wife are entertaining.

Camera friends, here's your chance to make some pictures of historical Huntsville. Join the tour on Sunday, May 3, leaving at 2 p.m. from the Service Club. The Birmingham hostesses will come to the Service Club on Sunday morning at 10 a.m. for coffee. The schedule for those participating in the tour will be as follows:

11 p.m.—Birmingham hostesses will attend church services at Post Chapel.

12 p.m. — Dinner at Mess Hall No. 1.

2 p.m. — Tour leaves from Service Club.

6:30 p.m. — Buffet Supper at Service Club.

7:30 -9:30 p.m. — Dance.

Register for the tour at the Service Club.

John Allo won the Pool Tournament on Thursday, April 9, at the Service Club. Join the crowd for the pool tournament on Thursday, April 16, at 7 p.m.

Dot and Betty Worley, Shirley Glass, Cathy Vaughn, Kathy Atchley, Bette Whitt, Betty Rozell, Liz Hale, and Pat Morgan were the Huntsville hostesses for the Record dance on Friday night. Everyone enjoyed the cha chas, waltzes, polkas, jitterbugs, and foxtrots.

Girls, we need you for the dance classes! Wednesday night there were 22 boys and 7 girls for the foxtrot class. We had a great time learning the new steps in the classes. Ray Pisani and his lovely wife really keep you dancing. Plan to attend the next class on foxtrot at 7:30 and rhumba on Wednesday, April 15.

Sports movies will be shown at 6:30 p.m. on Thursday, April 16, and 23. Sports Highlights of 1956 will be shown on April 16. Great moments of 1956 pro football history — Ed Furgol shoots 15 under par to win the second Miller High Life Open — big car race drivers test themselves, and their machines on Milwaukee's State Fair Park asphalt oval — these are some of the filmed events that await viewers on April 16.

Who'll win the Grand Prize in Bingo on Monday night? The game starts at 8:15 p.m. Hope you can make it.

BARBARA

Military Engineers To Hear Col. Love At Meeting Tomorrow

The next meeting of the Huntsville Post, Society of American Military Engineers, will be held at the Officers' Open Mess, Bldg. 111, tomorrow.

Social hour will begin at 6:30 p.m. with a steak dinner (price \$2) being served at 7:30.

Guest speaker for the evening will be Col. R. W. Love, District Engineer, Corps of Engineers, Mobile District, Mobile, Ala.

Col. Love has had a distinguished career with the Corps of Engineers. He is a frequent visitor to Redstone Arsenal in connection with the Arsenal construction program, which is under his jurisdiction as Mobile District Engineer, and is well known to many members of the local post.

Red Cross Gray Ladies Meet at Mrs. Jean's

Fifteen new Red Cross Gray Ladies recently attended a meeting in the home of Mrs. J. N. Jean for the purpose of discussing work schedules and assignments. Mrs. Jean, chairman of Red Cross volunteers, and Mrs. D. J. Walsh, chairman of the Gray Lady Service, reviewed with the new volunteers their responsibilities and schedules.

Others attending the meeting were: Mrs. J. M. Bishop, co-

City Toastmistress Club Wins Prize for Exhibit and Yearbook

At the Council meeting of Toastmistress Clubs, International (composed of 16 member clubs from Alabama, Tennessee, and Georgia), which was held in Chattanooga on 4-5 April, an Exhibit and Year Book entered in competition by the Huntsville Toastmistress Club won first place in the Club of the Year contest.

This entry will be judged again at Regional level in Miami, in May. The award was based on weighted points given various phases of Toastmistress work, including club program participation, community service, and public relations activities by members of the local club. The theme of the Year Book is "We Explore Tomorrow" and use of a rocket and its various stages was carried out in the art work throughout the book.

Art Director was Mrs. C. E. Michaels, assisted by Mrs. C. F. Bjork. Mrs. L. K. Wood, General Chairman of the Year Book Committee, did the tooling of the copper cover for the book, which was designed by Mrs. Michaels. Mrs. Gervaise Wyss was responsible for photographs and exhibits in the winning entry. Other members of the Year Book Committee included Mrs. R. N. Flint, Mrs. J. E. Spencer, Mrs. Meme Warren, and Mrs. R. G. Barker.

Members of the Huntsville Toastmistress Club who attended the Council meeting included Mrs. Cora Carr Briskey, President; Mrs. Gervaise Wyss, Club Representative; Miss Dollie Wiginton, Chairman of the Council Nominating Committee; Mrs. C. D. Leatherman, representative of the Alabama Toastmistress Clubs in the Council Speech Contest; Mrs. E. W. Ewbank, one of the organizers of the Huntsville club; and Mrs. Edith Neilson, Secretary.

Two guests, Dr. C. D. Leatherman and Lt. Col. E. W. Ewbank, attended the banquet and speech contest held at the Patten Hotel in Chattanooga.

Mrs. Leatherman, competing with five contestants, placed second at the Council level. Contestants this year were judged entirely on extemporaneous speeches. Each contestant was given three subjects from which to choose her talk, and 12 hours in which to prepare it. Speeches had to be of original materials, and could not be less than five, nor more than seven minutes in length. They were judged on their organization and content as well as delivery.

Members of the Huntsville club who appeared on the Council Program included, Mrs. Briskey, who gave the response to the welcoming address, made by Commissioner G. E. McInturf, of the City of Chattanooga; Mrs. Gervaise Wyss, who discussed speech presentation in an afternoon work-

BRIDGE RESULTS

Five tables of party bridge were played at the Squirrel Hill Officers Club on Monday evening, April 6, with the following results:

Men: first, Capt. George Pickering; second, Robert Granger; low, Capt. W. Wilson.

Women: first, Mrs. W. Wilson; second, Mrs. John Conway; low, Mrs. Wells Gibbs.

Hosts for the evening were Capt. and Mrs. George Pickering.

chairman of volunteers, and Miss Corrie Knight, Red Cross Field Director.

The new class of Gray Ladies will be capped May 10 in the Post Chapel.

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GEORGIA TECH STUDENTS VISIT — Henry Hillbrath (right), president of the Georgia Tech student chapter of the American Rocket Society, discusses rocket engines with Rod Stewart, of the Thiokol Chemical Corporation's Redstone Division, during tour of Redstone Arsenal recently by 13 members of the Tech chapter. Stewart is president of the Huntsville chapter of ARS.

Naval Research Lab Scientist to Speak At IRE Meeting Fri.

Principal speaker for the April 17 Student Day Program of the Huntsville Section, Institute of Radio Engineers, will be Dr. Robert M. Page, Director of Research at the Naval Research Laboratory.

The dinner is scheduled for 6:30 p.m. at Dale's Restaurant, and the meeting will begin at 8 p.m.

Dr. Page's topic will be "Frontiers of Space Research" Dr. Page built the first pulse radar system in the United States. In his present capacity, he directs and coordinates the Naval Research Lab's overall research program, which includes research in 13 fields of the physical sciences. During his more than 30 years service, he has pursued development of the finer aspects of the art of radar. More than 40 patents have been issued to him and 27 are pending.

In order to properly accommodate the people attending this combined dinner and meeting session, it is desired that everyone planning to attend make their re-

shop covering "Speech Preparation, Presentation, and Evaluation"; and Miss Wiginton, who served on a three-member panel of evaluators covering the entire Conference.

University of Tenn. Alumni Chapter Set; Meeting Is April 23

Arsenal personnel interested in joining a new University of Tennessee alumni chapter is invited to attend an organizational meeting on April 23, according to Gene Brewer, of ABMA Industrial Division, who is temporary chairman of the chapter.

The meeting, a dinner affair, will be held at 7 p.m. at the St. Thomas Episcopal Church, corner of Bob Wallace Ave. and Whitesburg Drive.

Guest speaker will be the dean of the Tennessee Engineering School, J. J. Dougherty. Election of officers will also be held.

Tickets for the dinner, at \$2 each, may be obtained from Brewer, ext. 5048, or Dick Bray, ext. 5282, through Friday, April 17.

BRIDGE RESULTS

The Redstone Arsenal Officers Wives Bridge Group met Thursday for weekly competition with the following results:

Party Bridge: 5 tables, first, Mrs. Hubert L. Carmichael, Jr., 2nd, Mrs. Archibald E. Dean; 3rd, Mrs. Hal D. White; low, Mrs. Ralph Neulist.

servations with Charles W. Parker, JE 6-1168 or RSA ext. 3902 or 5941, or John B. Chase, JE 6-6544.



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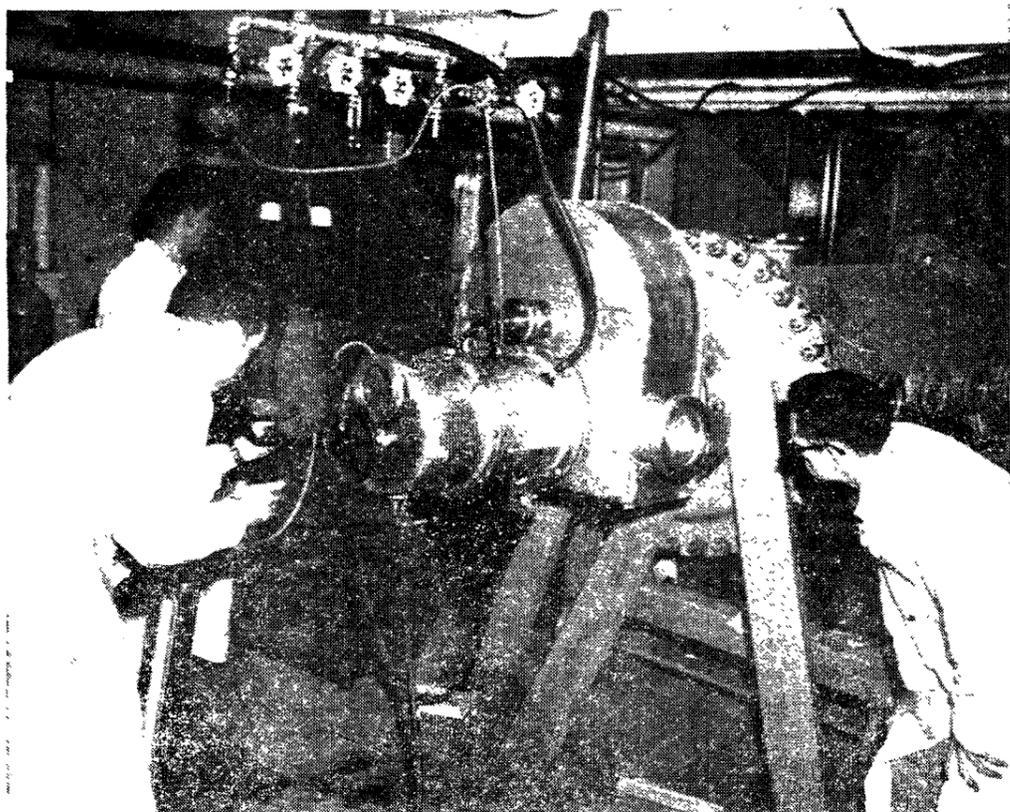
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HIGH TEMPERATURE TESTING—Dr. Thomas Barr, Jr. (right) observes a test in progress in the prototype high temperature test facility which he developed, as Charles M. Cason (center) operates the arc column and Thomas C. Roberts (background) controls the arc power.

NEW

(Continued From Page 1)

possible to achieve through any chemical combustion process. In fact, at such extreme temperatures, decomposition of gases occurs as opposed to combustion. Not only are molecules dissociated into atoms, but atoms are dissociated into ions and electrons. Gases in this extreme state are referred to as plasmas.

The process by which such tremendous temperatures are achieved is simple in concept. Within the test facility there is a carbon nozzle, or ring. A water cooled carbon electrode fits into, but does not touch, the nozzle. Outside the test chamber a direct current generator is connected between the nozzle and the electrode, causing an electric arc to be struck in the gap within the test facility.

Tremendous Heating

Upstream from the electric arc is an arc chamber; downstream is a low pressure chamber created by use of a vacuum pump. Gas, under pressure, is sent from the arc chamber through the arc stream into the low pressure area. As the gas passes through the electric arc it undergoes tremendous heating. The amount of heating depends on the amount of electric power sent through the arc.

In the prototype, the gas flows through the arc in a supersonic jet, with a maximum flow of 13,000 feet per second. Thus the term plasma jet test facility has developed. Characteristics of the jet flow are regulated by adjusting the arc column, or electrode, in its position in the nozzle.

Argon gas has been used principally in the prototype since it is inert and has good electrical properties for conducting high currents.

Spectroscopy Used

The exact amount of heating which occurs in a measured through use of a spectroscopy, which measures temperature of gases by the color of light produced. Measurements made in the

prototype facility indicate that a maximum of 50,000 degrees Fahrenheit has been achieved.

Such high temperature capabilities are invaluable in the missile program for the testing of materials which must withstand the extreme temperatures encountered in missile flight — largely resulting from aerodynamic heating as a missile passes through the atmosphere.

The method is also useful for testing the high temperature properties of various gases which may be used or encountered in missile development and flight, or simulating stellar atmospheres.

Unique Facility

Results achieved in the prototype are constantly evaluated to determine what capabilities will be included in the final test facility. This facility, now under development, is expected to be in operation sometime in the spring. Like its prototype, it will be unique in both design and functions.

The final version will have greater capabilities than the prototype. Electric power will be provided by six main propulsion generators of the type used in destroying escort vehicles during World War II. These generators will be capable of producing up to eight million watts of electric power as opposed to the 75,000 watt capability of the generator now in use in the prototype. This increase in power will make it possible to heat a much larger body of gas.

A number of operations, such as the controlling of arc power and regulation of the arc column, will be accomplished automatically.

Thus the new facility will be used for aerodynamic testing as well as high temperature testing and can be properly termed a hyperthermal wind tunnel.

Type of Testing

Testing conducted in the prototype has been largely confined to that related to developing the final facility, rather than testing directly related to any specific missile project.

When completed, the hyper-

thermal wind tunnel will serve the testing needs of all elements of the Army Ordnance Missile Command.

Upon arrival at the Army Rocket & Guided Missile Agency in 1956, Dr. Barr first undertook a review of literature in the high temperature field to determine the best method to use in developing a high temperature test facility. He selected the electric arc method as the easiest for producing sustained high temperatures, and put his first arc into operation in June of 1957. The prototype facility now in use was completed six months ago.

Dr. Barr received his Bachelor's

degree from the University of Chattanooga in 1947 and his Master's and Doctor's degree in physics from Vanderbilt University in 1950 and 1953. Prior to joining the missile agency he was Assistant Professor of Physics at the University of Georgia for five years.

Second Facility

In addition to the hyperthermal wind tunnel, Dr. Barr is developing a second facility designed to give transient high temperatures up into the millions of degrees in low density gases. This facility is still in a preliminary state of development.

Dr. Barr has been assisted in his research by Walter LaVaughn Hales, Thomas C. Roberts and Charles M. Cason III.

Hales, a spectroscopist, operates and analyzes results from the spectroscope. He earned his Bachelor's degree in astronomy from the University of Alabama and is now working on his Master's degree in mathematics.

Roberts, who holds Bachelor's and Master's degrees from the University of Georgia, was a student under Dr. Barr while completing requirements for his Master's degree. His work pertains mainly to the development of the transient high temperature facility.

Cason earned both Bachelor's and Master's degrees in physics from the University of Alabama. His primary interest lies in studying the electrical conductivity,

ionization and effects of magnetic fields in plasma jet gases. Currently he is also working on the effects of high temperature environments on various materials.

In addition, Dr. Barr has two employees on the co-op plan in his unit: Charles H. Cox, who is studying engineering physics at Alabama Polytechnic Institute, and Noel B. Summers, a physics student at the University of Alabama. On the co-op plan they alternate between a term at school and a term at work with Dr. Barr.

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AT ARMED FORCES DAY MEETING—Present for the meeting of the 1959 Armed Forces Day Huntsville Committee meeting held last Wednesday were, left to right, (seated) George Mahoney, Jr.; V. M. Burket; Tom A. Jones; Miss Eugenia Smith; L. G. Dawson, general chairman, 1959 Armed Forces Day Huntsville Committee; Lt. Col. Lester H. LeVine, co-chairman; Maj. Jesse Garner; W/O Thomas W. McBride; Lt. Col. John G. Stanley; (standing) Maj. E. W. Kreisler; Ranson E. Crawford; Richard Spencer; Arnold Hornbuckle; Jerry Breedlove; Cecil Sanderson; Solicitor Macon Weaver; Mayor R. B. Searcy; Dorsey Uptain, president, Huntsville-Madison County Chamber of Commerce; Maj. Max M. Axelson, USAF; Capt. Charles H. Specht; and Roger Nance.

TOP

(Continued From Page 1)
 tial industry participation by local and national concerns is already scheduled.
 The 1959 Armed Forces Day will be celebrated locally on May 15-16. The principal speaker and schedule of events will be announced soon.

30 Attend
 Wednesday's committee meeting was held at the Chamber of Commerce with some 30 members attending. Among those attending were: Dawson, Lt. Col. Lester H. LeVine, co-chairman of the Huntsville committee and Armed Forces Day project officer for the Army Ordnance Missile Command; Mayor R. B. Searcy, M. B. Spragins, Sr., Dorsey Uptain president of the Huntsville-Madison County chamber of commerce, Macon Weaver, county solicitor.

Huntsville's Armed Forces Day boss this year describes himself as unusual in that he has no military background "other than a natural interest in the military agencies located in this area." Dawson, who was once a professional musician in a popular orchestra and a regular performer over Station WSAZ in Huntingdon, W. Va., has been with the Mallory Company for 24 years. Before coming to Huntsville, he served as manager of plant engineering and maintenance for Mallory's 22 U. S. plants, plus nine plants in foreign countries. He came to this city from Indiana-

polis.
 He is an ardent golfer, and shoots in the low eighties and high seventies.
 Dawson is a director of the Chamber of Commerce, the HIEC, the Kiwanis Club, and a member of the Huntsville Airport Authority. He is also a director of the Boys Club and vice-president of the Madison County Red Cross.
 He and Mrs. Dawson have two sons, both of whom live in Indianapolis.
21,000 ROCKETS—REACHING A \$2½ MILLION WEEKLY INCOME GROUP



NATIONAL ORDNANCE MANUAL '4-4' COMMITTEE MEETS—Shown above at last week's meeting here of the National Ordnance Manual "4-4" Committee are (left to right) Les Hermon, of Office, Chief of Ordnance; R. W. Cuthill, Chief Engineer, AOMC; Col. Jerome S. Jefferds, Assistant Chief of Staff, Industrial Operations, AOMC; Brig. Gen. J. M. Colby, Deputy Commanding General, AOMC; C. A. Nazian, of Frankford (Pa.) Arsenal, chairman of the committee; J. J. Dunn, of Armed Forces Supply Support Center, Dept. of Defense; and W. J. Bright, of Office, Assistant Chief of Staff, Industrial Operations, AOMC.

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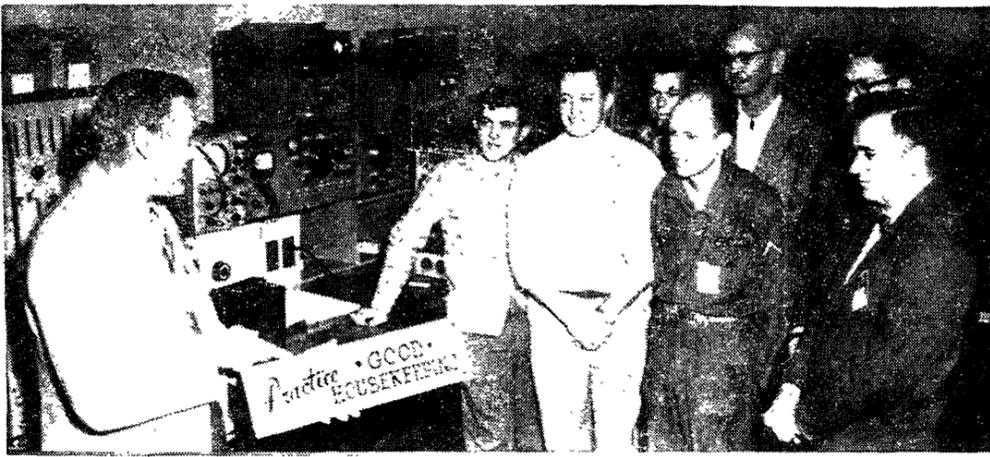
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'GOOD HOUSEKEEPING' CONTEST — Indicative of interest being shown in Redstone Arsenal's current "Good Housekeeping" campaign, reports the RSA Safety Division, is a friendly contest between two units of RSA Field Maintenance Division to see which can keep the cleaner, neater shop. Photo above shows William J. Anderson (left) giving a "pep talk" on good housekeeping efforts to personnel of one of the "rivals", of Electronics Maintenance Branch. Left to right in group are Anderson, Grett, Steinman, Owens, Eshleman, Edgar, Jernigan, and Ellenburg. In photo below, personnel of the Division's Automotive Section pose before one of their neatly-kept tool boards—every item in its proper place. Standing, left to right, are Harry Bradshaw, Leonard Woodward, Carlton Stapler, C. C. Montgomery, (Branch Chief), Lloyd Pinckley, and James King. Kneeling, left to right, are W. W. Smith, John Corruith, Ralph Renfroe, Raymond Frady, James Camp, Ed Casteel, and James Wilcutt.

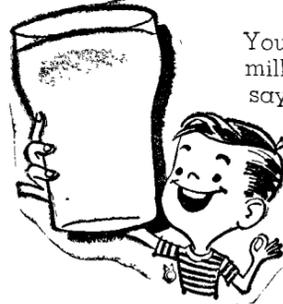


FIRST E-8 FOR ARGMA—Master Sergeant Jack E. Greenwood, right, First Sergeant of Detachment "A", Army Rocket and Guided Missile Agency, is shown during a promotion ceremony held by Brig. Gen. J. G. Shinkle, Commander of ARGMA. M/Sgt. Greenwood was the first ARGMA enlisted man to be promoted to the new pay grade E-8. Greenwood was first sergeant of Company "K" with the 7th Infantry Division in Korea in 1951-52 and holds the Combat Infantryman's Badge.



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SPORTS



POST BOWLING TEAM—Members of the Redstone Arsenal Bowling Team which participated in the Third Army Bowling Tournament last week at Ft. Bragg, N.C., are shown above (left to right back row): Lt. Clay McFarland, Sfc. Neal Anderson, M/Sgt. E. B. McGowan. Front row: Pfc. Dave Bell, Sfc. Edward Reese, and Pvt. Robert Soha.

Arsenal Bowling Team Participates in 3rd Army Tourney in N. C.

The RSA Bowling team competed in the Third Army Bowling Tournament held at Fort Bragg, N.C. last week. In the six-man team event, Redstone placed seventh with a total of 9181 pins for the nine games. Fort Bragg won with a total of 9625, followed by Fort Gordon, Ga., with 9509. The Redstone doubles team of Reese and Anderson placed eleventh in the event which was won by Levich and Taft of Fort Bragg with 1168. In winning the event, Levich rolled the high three-game series of the tournament of 638. Dave Bell of Redstone pushed the winner in the singles event with 608 for third place. His 243 game was second high individual game. Hornback of Fort Campbell, Ky., won this event with a 625 series. The All-Event was won by Levich of Fort Bragg with 2833. In winning, he posted two of the five 600 series rolled. RSA BOWLING TEAM members were: Lt. Clay McFarland, UTC - OGMS; Sfc. Neal Anderson, Hq. Det. "B" OGMS; Sfc. Edward Reese, USAG; Pfc. Dave Bell, Hq. USAG; and Pvt. Robert Soha Hq. USAG; M-Sgt. E.B. McGowan, Hq. Det B, OGMS.

Arsenal Sends M-1 Rifle Team to 3rd Army Tournament

Redstone Arsenal is sending an M-1 Rifle Team to compete in the Third United States Army Rifle Matches being held at Ft. Benning, Ga., 11-25 Apr. Team members and their organizations are: Lt. Ben M. Phillips - OGMS (Team Captain), Sfc. Robert Payette - OGMS, Sfc. Harley Winterrowd - OGMS, Sgt. Buford Harrison - USAG, Pfc. James E. Fox - ABMA, and Pfc. Robert Fassett - OGMS. The Redstone Arsenal Rifle Team is unique as there is no rifle range on Redstone Arsenal for practice. However, in competitive firing in the 3rd Army Area, about 60 awards were won by the team during the past year. This included competition with the All-Navy Team, Ft. Campbell Team and the Ft. Benning Team. The total pins rolled by members of the RSA team for the fifteen games are as follows: Bell - 2730. McGowan - 2659. Reese - 2520. McFarland - 2505. Soha - 2497. Anderson - 2464.



GOLF PRIZES GIVEN—Mrs. George Koebbe (left), tournament chairman for the Redstone Arsenal Officers Wives Golf Group, presents prizes to members of the first place team in last week's golf tournament, held at the Municipal Golf Course by the Redstone Arsenal Group with members of the Huntsville Golf and Country Club as guests for the event. Recipients were, left to right, Mrs. Harry Webb, team captain, Mrs. Robert W. Martin, Mrs. C. J. Payne, Mrs. Herman Rabinowitz, Mrs. John Zierdt, and Mrs. S. J. Dobbs. In addition, Mrs. Webb received honors for hitting the longest drive of the day.

48 Take Part in Ladies' Golf Event

Forty-eight ladies of the Huntsville Golf and Country Club and the Redstone Arsenal Officers Wives Golf Group met last Wednesday morning (Apr. 8) for a golf tournament at the Municipal Golf Course, followed by lunch at the Redstone Arsenal Officers Club. The Huntsville ladies were guests of the Redstone Arsenal group. The golfers were divided into eight teams for the tournament, with four Redstone Arsenal golfers and two Huntsville golfers on each team.

First Team

First place team in the tournament was headed by Mrs. Harry Webb and included Mrs. Robert W. Martin, Mrs. C. J. Payne, Mrs. Herman Rabinowitz, Mrs. John Zierdt, and Mrs. S. J. Dobbs. In addition, Mrs. Webb won top honors for longest drive of the day — 225 yards on number 9. She is a former Alabama State Champion (1951) and won the Birmingham Chamber of Commerce Invitational Tournament last year. Second place team in the tournament was headed by Mrs. T. T. Lanier and included Mrs. J.W. Johnston, Mrs. George Koebbe, Mrs. H. H. Wishart, Mrs. R. L. Spragins and Mrs. Gibbs.

Consolation Prizes

Consolation prizes went to members of Mrs. John Lowe's team which included Mrs. J. L. Edmundson, Mrs. R. O. Lehtonen, Mrs. H. E. Fite, Mrs. A. Creel and Mrs. Robert Cuthill. Members of the first place team received two golf balls each and second place team members were awarded one golf ball apiece. Consolation winners received packages of golf tees. Mrs. Webb was presented three golf balls in recognition of her winning drive. Among the Huntsville guests present was Mrs. Milton Cummings, chairman of the Country Club golfers. On Committee Serving on the committee for the luncheon were Mrs. Harry Murray, Mrs. T. T. Paul and Mrs. W. J. Durrenberger. This week the Redstone Arsenal Officers Wives Golf Group was scheduled to hold a long and short tournament.

Pistol Tournament Held Here Is Won By Guntersville Man

The second NRA-approved pistol tournament of the Redstone Arsenal Club was held at the Arsenal Pistol Range Sunday 12 April. Tournament Supervisor was A. G. Loughhead, Range Officer Sgt. Biel. Tournament winner was Aubry G. Burdette of Guntersville with an aggregate of 858 out of a possible 900. Burdette was also the winner of the .22 slow fire match, .22 National Match course, and the .22 rapid fire match.

CWO Daniel D. Cogswell of Redstone Arsenal was the winner of the .22 timed fire match. R. F. Hayes of Nashville, Tenn. took first expert in the Tournament aggregate with a score of 816 out of a possible 900 and collected 1st expert honors in the .22 slow fire and .22 rapid fire matches. Ray L. Carpenter of Florence, Ala., took 1st expert in the .22 National Match Course and .22

RSA OFFICERS MIXED BOWLING LEAGUE

As of 6 April

	Won	Lost
Peapickers	149½	75½
Bombers	134	91
Hi-Counts	128½	96½
Pindroppers	119	106
Bowlweevils	105½	119½
Blind-mice	94	131
D-Yanks	92½	132½
Holyrollers	78	147

200 Games, Men: 202 Vowell, 242 Dooley, 239 Walsh, Ashley 212.
180 Games, Women: 187 Holmes, 181 Dooley.

times fire match. Harry Lee of Huntsville captured top honors in the marksman classification with first marksman for tournament (719 out of 900 possible) and 1st marksman in .22 National Match Course, .22 timed fire match and .22 rapid fire match. Henry C. Nichols, of Florence, took the remaining marksman award with 1st marksman in .22 slow fire match. There were no sharp-shooter entrants.

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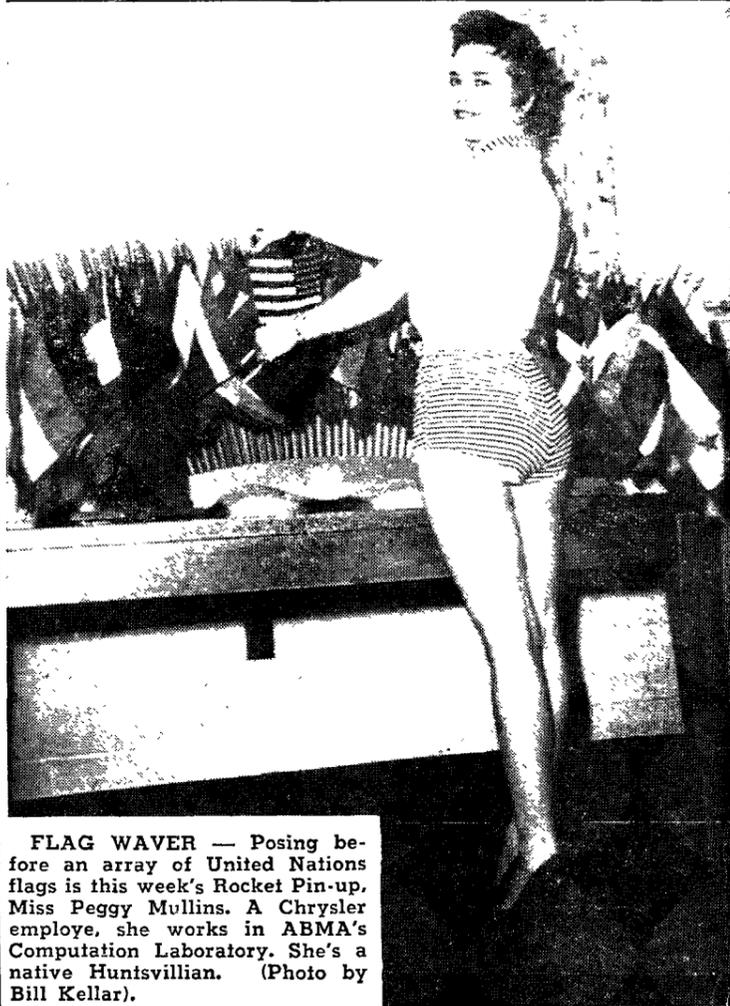
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POST VOLLEYBALL TEAM—Shown above are members of the Redstone Arsenal Volleyball Team which recently participated in the Third Army Tournament at Ft. McClellan, Aa., where they won one game and dropped two. Representing Redstone Arsenal was "A" Detachment of the Ordnance Guided Missile School. Back row, from left to right are: Sgt. Joe A. Harsa; Pfc. Frank G. Frano; Pfc. Larry L. Schmidt; Pfc. Elliott V. Ryan and Pfc. Ron G. Newman. Front Row (L-R): Pfc. John E. Rautine; Pfc. Kim J.ardino; Pfc. Don G. Carfagnini and Pfc. Richard Zbierski.



FLAG WAVER — Posing before an array of United Nations flags is this week's Rocket Pin-up, Miss Peggy Mullins. A Chrysler employe, she works in ABMA's Computation Laboratory. She's a native Huntsvillian. (Photo by Bill Kellar).

Mrs. Kathleen Medlock 'Safe Worker of Week'

Mrs. Kathleen Medlock, a chemist in the Quality Control section of Thiokol's Pilot Lines Department, is the recipient of this week's Safe Worker Award, according to the RSA Safety Division.

Mrs. Medlock is originally from Memphis, but lived sometime in Atlanta before coming to Huntsville. She has been employed at Thiokol since 1949.

The former Kathleen Wade is married to James Medlock, who is also an employee of Thiokol. They have one child, Kathy, who is 11 years old.

Mrs. Medlock was educated at Girl's High School and Agnes Scott College in Atlanta where she received the Bachelor of Arts degree in chemistry. She is a member of Chi Beta Phi, national honorary scientific fraternity, and she completed a min-

Safety Scoreboard

(As of April 13)

Days since last civilian disabling injury	43
Our goal	60
Days since last military disabling injury	17
Our goal	30
Days since last contractor personnel disabling injury	19
Our goal	50
Days since last government motor vehicle accident	0
Our goal	30

DRIVING RECORD (Government Vehicles)
(As of 13 April)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	4	10
Post Engineer Div. (RSA)	7	57
Provost Marshal Div. (RSA)	5	0
Depot Operations (RSA)	7	34
All other RSA	1	56
Thiokol (ARGMA)	2	37
All other ARGMA	2	24
OGMS	7	6
ABMA	3	9

Special Services Activities

POST SERVICE CLUB OPERATING HOURS
Monday thru Saturday 1000-2200.
Sunday and Holidays 0900-2200.

POST LIBRARY OPERATING HOURS
Monday thru Friday 0900-2200.
Saturday and Holidays 1000-2200.
Sunday 1200-2200

CRAFTS SHOP OPERATING HOURS (Effective April 5):
Monday through Friday 1000-

industrial installation, and she is aware of the potential danger she works with daily. Because she is familiar with the materials she handles, she is qualified to present in the type of materials understand the importance of safe handling. It is probably because of this that she has never had a lost-time accident in the 10 years she has been a member of the Thiokol organization.



MRS. KATHLEEN MEDLOCK

or in Bible. Besides her work as a chemist, she has a variety of interests and activities which include civic and church work. She is superintendent of the junior department, and leader of her circle in woman's work at First Presbyterian Church. An excellent contralto, she is active in choir work. She confesses that there is hardly time for much music-making now, since she is busy almost every spare minute decorating a handsome new home.

Mrs. Medlock has seen many changes as Thiokol has grown from a handful of employees in 1949 until it has become a large

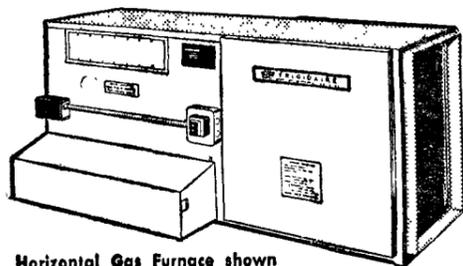
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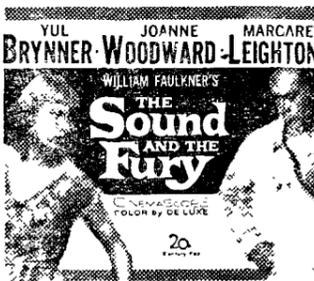
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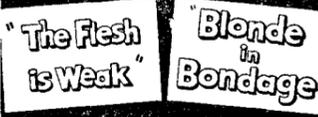
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SUN., MON., TUES.



STARTS WEDNESDAY





WAGE BOARD SUPERVISORS representing all major elements of the Army Ballistic Missile Agency are shown above at meeting to discuss organization of a Foreman's Club. Front row, left to right: Miles Hollingsworth, Missile Firing Lab; S. E. Land, Technical Material and Equipment Branch; Carl Walker, Aeroballistics Lab; Ben Curtis, Test Lab. Back row: Gordon Stephens, Systems Support Equipment Lab; William Linstead, Guidance and Control Lab; Arthur Sanderson, Director of Personnel; Stephen Little, Fabrication and Assembly Engineering Lab; and William Buttram, Structures and Mechanics Lab.

FOREMAN'S CLUB BEING ORGANIZED BY ABMA WAGE BOARD SUPERVISORS

Wage Board supervisors representing all major elements of the Army Ballistic Missile Agency met last week with Arthur E. Sanderson, ABMA's Director of Personnel, to discuss the organization of a Foreman's Club.

The groundwork for this action had been laid for several months in preliminary meetings in which Brigadier General J. A. Barclay, Commander of the Agency, and Colonel T. T. Paul, Deputy Commander, participated. Sanderson commented on the fact that not only the supervisors involved but also the directors of the concerned ABMA segments have expressed their full support and cooperation for the Foreman's Club.

He stated that "this club will contribute materially to much better relations between top management of the organization and all Wage Board supervisors. You then will be in much better position to lead and inform your work force."

The group elected Stephen Little, Fabrication and Assembly Engineering Laboratory, to be temporary chairman. Little announced plans for an organizing meeting to which all of the 160 Wage Board supervisors of ABMA will be invited. He appointed S. E. Land, Technical Material and Equipment Branch, to make the arrangements for this meeting. Little pointed out the advantages of forming Foreman's Clubs in each laboratory. He is at present the president of the club organized several months ago in his laboratory.

Little said, "We enjoy the fullest understanding and assistance of the laboratory director and his administrative officer. Our Foreman's Club is attempting to become an effective tool in the supervisor-employee relations of the

Details of Scholarship Programs Announced by Tenn. Valley Post, AOA

The Tennessee Valley Post American Ordnance Association, has announced details of two scholarships to be awarded to eligible and deserving students for college study.

Robert W. Cuthill, chief engineer, Army Ordnance Missile Command, and president of the Post, said the scholarships are being provided by the Human Resources Foundation, Inc., and Brown Engineering Co., Inc., both of Huntsville.

Milton Cummings, president of Brown Engineering and motivating leader in the Foundation, initiated the project. He is a director of AOA.

The Human Resources AOA Scholarship will be a four-year, \$5,000 grant. The recipient must be a girl, resident of Madison County, 25 years of age or under. It will finance study in the arts or sciences.

The Brown Engineering AOA Scholarship, also a four-year, \$5,000 award, will go to a boy 25 years of age or younger for study in the physical sciences. He must be a resident of the area of Tennessee Valley Post.

Both scholarships will be awarded this year, for the first time, for study beginning September, 1959.

AOA directors announced the selection criteria will emphasize scholarship, leadership, and participation in extracurricular high school programs.

The winners may select university or College subject to approval of AOA and the AOA will annually review the student's performance and progress.

Formal announcement of the laboratory."

The club will be organized and directed entirely by its own members. They will determine their organizational structure, establish their constitution and by-laws, elect officers, and hold meetings. Members of the ABMA Personnel Office and other personnel of the agency will be available to the Foreman's Club for assistance during the formative phase and for obtaining suitable programs for club meetings.

Lt. Col. McBride Gets Commendation

Lt. Col. George H. McBride, of the Army Ballistic Missile Agency (Assistant to the Director, Industrial Operations Div.) was recently awarded the Commendation Ribbon with Metal Pendant for meritorious service by Brig. Gen. J. A. Barclay, Commander of ABMA.

\$397 Donated to fire Victim by RSA Units

Personnel of the Depot Operations Office and Depot Division, Redstone Arsenal, recently contributed 397 to one of their fellow employees whose home was destroyed by fire.

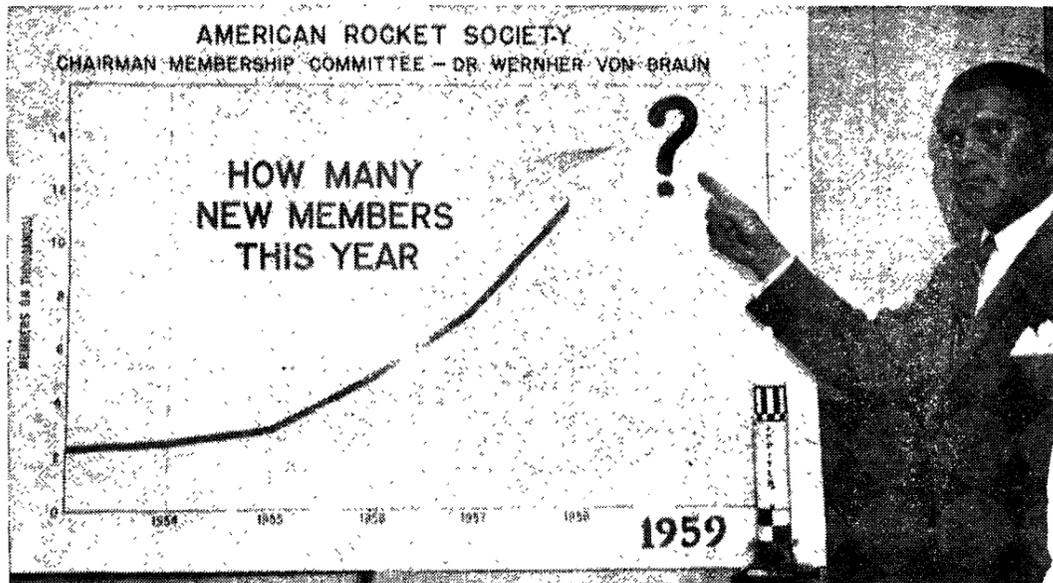
Recipient of the gift was Robert P. Steadham of Morgan City.

program will be made to members of the Post and their guests at the Spring dinner meeting April 16. Jeff Darwin, executive secretary, said tickets are available through AOA members.

Births at Post Hospital

- William Robert Houk, 8 lbs. 1 oz., 1 Apr., son of Pfc. and Mrs. William F. Houk, Jr.
- Frederick Lynn, Patterson, 8 lbs., 8½ ozs., 1 Apr., son of Pfc. and Mrs. Malcolm T. Patterson.
- Yancy Dean Edmonds, 9 lbs., 3 ozs., 2 Apr., son of Sp-4 and Mrs. Wiley D. Edmonds.
- Matthew Joseph Kinchen, 6 lbs., 5 ozs., 2 Apr., son of Sp-4 and Mrs. Duncan W. Kinchen.
- Marc Jean Alain Delvaux, 8 lbs., 3½ ozs., 3 Apr., son of Lt. Didier C. Delvaux.
- Frederick Thomas Kleis, 5 lbs., 8½ ozs., 3 Apr., son of Lt. and Mrs. Frederick Kleis.
- Linda Sue Dunham, 7 lbs., 15½ ozs., 6 Apr., daughter of CWO and Mrs. Raymond L. Dunham.
- Tony Huston Eeagroves, 7 lbs., 2½ ozs., 7 Apr., son of Pfc. and Mrs. Birl H. Seagroves.
- Jay Dean Cramblit, 6 lbs., 14½ ozs., 8 Apr., son of Pvt. and Mrs. Junior D. Cramblit.

WANTADS GET RESULTS



ROCKET SOCIETY GROWTH DEPICTED — Dr. Wernher von Braun, new American Rocket Society membership chairman, points out the rapid growth of one of the most rapidly growing professional societies in the world and ponders future membership growth for 1959. Founded in 1930, the American Rocket Society has approximately 12,000 members and has had a 60 per cent membership increase in 1958. Dr. von Braun is Director of Development Operations, ABMA. He is a member of the board of directors of the Rocket Society.

Rhymes of the Times

PEOPLE MOST OFTEN ASK ADVICE OF THOSE WHO KNOW HOW TO KEEP IT ON ICE. ...Agen



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INVITATION—April has been proclaimed as "Good Housekeeping" Month throughout the Arsenal. Miss Gayle Colbert (above) of ABMA invites everyone to join in the campaign. After several examinations of this photo, you may notice that "Good Housekeeping" posters are exhibited in the background. Miss Colbert, a former Rocket Pin-up, works in the Procedures Section of ABMA's Operating Services Office.



SENATORS VISIT MFL—A group of senators who recently visited ABMA's Missile Firing Laboratory at Cape Canaveral is shown above, with escorts, on a Jupiter launching pad. From left to right: Capt. J. A. Ross Jr. of the AOMC Field Office, PAFB; Sen. Thomas J. Dodd (D-Conn.), Sen. Howard W. Cannon (D-Nev.), Sen. John Stennis (D-Miss), Brig. Gen. William Rogers, deputy commander of the Atlantic Missile Range, Sen. Stephen M. Young (D-Ohio), Sen. Clifford P. Case (R-N.J.), Sen. Thomas E. Martin (R-Iowa), and Ex-Sen. Homer Ferguson of Florida.

AOMC Has Low Voluntary Loss Rate

The Army Ordnance Missile Command continues to enjoy a phenomenally low voluntary loss rate, according to Robert F. Mello, Civilian Personnel Director. During the first quarter of the current fiscal year, starting July 1, the loss rate was 2.4 percent of total employment while in the second quarter it was reduced to

2.2 percent. The Army Ballistic Missile Agency reported percentages of 1.5 and 1.7 to Command headquarters. The figures for the Army Rocket and Guided Missile Agency were 3.0 and 2.0, Redstone Arsenal 1.8 and 1.4 and White Sands Missile Range 4.25 and 2.7 percent. During the second quarters, Mello said the Command recruited 96 employees in the hard-to-fill professional and scientific categories.

electronic and optical tracking stations. The launching areas are adjacent on Cape's southeast coast area. Each site is equipped with a huge gantry service structure which contains a missile during final preparations and fueling.

In addition the Laboratory has two assembly buildings where incoming missiles undergo tests and are prepared for firing.

The Missile Firing Laboratory headed by Dr. Kurt Debus, is one of 10 laboratories of the ABMA Development Operations Division directed by Dr. Wernher von Braun.

Marshal Lott was accompanied by Marshal Angelo Mendes de Moraes, federal deputy; Col. Andre Fernandes de Souza, public relations officer, office of the Minister; and Capt. Duvally Verlangeiro, aide-de-camp. The group was escorted by Lt. Col. Del Monte, U. S. Army, and also accompanied by Maj. Gen. Donald Yates, U. S. Air Force, Range Commander, and Capt. Henry Paul of the Missile Firing Laboratory.

The tour included a launch facility, blockhouse and Jupiter missile. In addition the group visited other launching facilities at the Range.

The Missile Firing Laboratory's facilities have been the site of many historic launchings including the Free World's first earth satellite, Explorer I, on January 31, 1958, and the Free World's first successful deep space probe, Pioneer IV, launched March 2, 1959, and now in orbit around the sun.

The Laboratory operates two firing complexes, each with two firing pads, a blockhouse, and

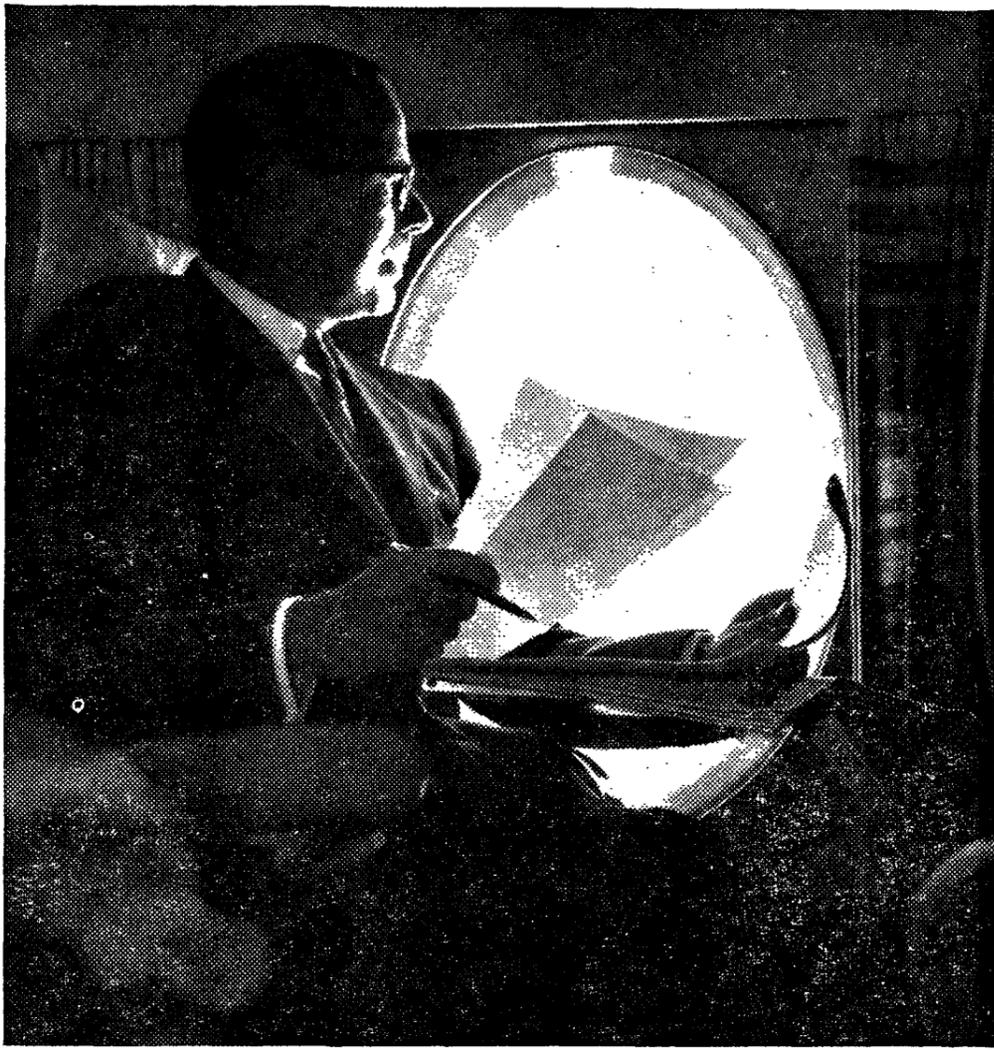
Brazilian Minister Of War Tours MFL's Facilities at Cape

Marshal Henrique Lott, Minister of War from Brazil, visited the Army Ballistic Missile Agency's Missile Firing Laboratory facilities at the Atlantic Missile Range last week.

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'OPERATION ALERT' SLATED THIS WEEK

The first phase of "Operation Alert," an annual exercise conducted by the U. S. Civil Defense Agency in cooperation with the National Warning Service, will be conducted throughout the nation on Friday and Saturday, April 17 and 18.

"Operation Alert" will be conducted throughout the year, in several other phases, on a local, regional, and national basis. The exercise will test air raid warning systems, evacuation procedures, operation of control centers, operation of reception centers and care of evacuees, and establishment of normal activities within areas damaged by hypothetical bombing.

Redstone Civil Defense Coordinator is Howard Slayden, executive assistant, S-3 (Assistant for Plans and Training), Redstone Arsenal.

"It is not anticipated that Redstone Arsenal will participate in all activities included in these tests," Slayden said. However, it is vital that all personnel should thoroughly familiarize themselves with pertinent information regarding Civil Defense.

He pointed out the distinction between a "Red Alert" and a "Yellow Alert" in Civil Defense code "Red" being a wailing of sirens for three minutes and meaning "Attack Probable — Begin Evacuation," and "Yellow" being a steady blast on sirens or horns for three to five minutes and meaning "Attack Imminent — Take Cover."

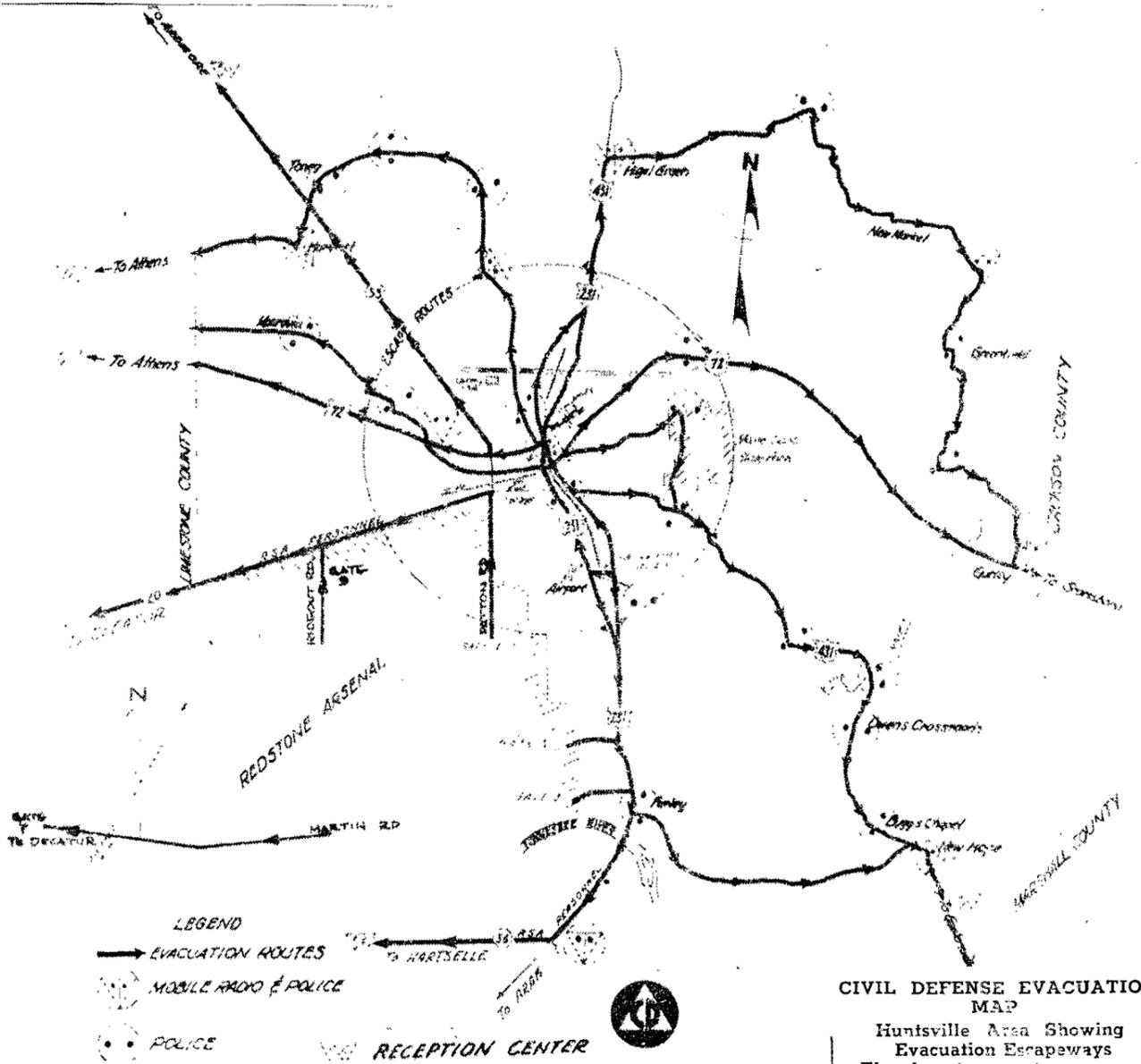
Slayden announced that a command post for supervision of Arsenal participation in this week's "Operation Alert" will be set up under direction of Capt. Biagio Saletto, of office of Assistant Chief of Staff for Military Applications and Training, AO-

MC.

Representatives of the various

agencies on post have been ap-

pointed to work on emergency ed.



CIVIL DEFENSE EVACUATION MAP

Huntsville Area Showing Evacuation Escapeways

The downtown getaway area—permits traffic to move out in any direction but must observe traffic signals and will not be permitted to cross escapeways outside of this area but may enter them at any point.

Outside of downtown area all traffic will move one way—Out only and will not observe traffic lights — traffic on these escape highways will be controlled by Police, Military and Civil Defense Personnel.

Questions and Answers on Raids, Evacuation

(Editors note: The following article was submitted The Rocket by the Redstone Arsenal Provost Marshall Office.)

A few prime questions regarding Air Raids and Evacuation along with CORRECT answers are listed below. See if your answer matches the correct answer. If it doesn't, you need to orient yourself And YOUR FAMILY on the correct procedures.

Q. Suppose I am working on the Arsenal when a YELLOW ALERT is sounded on the sirens. What should I do?

A. Remain where you are and continue with your normal routine.

Q. If a RED ALERT is sounded what should I do?

A. Cease work and WALK to

the nearest exit of the building you are in, if you are in a building, and once outside the building WALK to your vehicle or that of another persons which is located adjacent to your building in area of work. Remain in vehicle with at least one (1) window rolled down and the motor off. If evacuation of the Arsenal is ordered you will be notified by either your Area Air Raid Warden, a Civilian Guard, or Military Policeman. If return to work or seek cover is ordered you will be notified in the same manner.

Q. As a resident of the post what action do I take?

A. The same as the people who are at work except that your Evacuation Pack should be loaded

seek shelter.

Q. If evacuation of the Arsenal is ordered, what should I do, where should I go? How and when will I be reunited with the rest of my family?

A. There will of necessity be a period of separation for most families. Evacuation of Redstone Arsenal will be conducted concurrently with evacuation of Huntsville. It must be carried out in the shortest possible period to save the most lives.

STAY CALM! Drive slowly from where your vehicle is parked along the main traffic artery leading to the Gate through which you must leave the Arsenal. See Map on this page. Do not crowd the other traffic. Stay in line and conserve gasoline.

Tune your radio to 640 or 1240 kilocycles. These are Conelrad Stations over which information and instructions regarding the emergency will be broadcast.

Proceed out Arsenal Gate assigned your area and merge with the other traffic headed towards the Reception Center located along your evacuation route.

Do not get excited. Follow the instructions of the persons located along the evacuation route and at the Reception Centers.

Upon arrival at your Reception Center you will be processed along with the other thousands of personnel, fed, given shelter, and in all probability assigned some easy task to perform both be-

cause of necessity and as a mental therapy. Within a few hours the rest of your family will be located and their condition made known to you.

Q. Is there anything I should do now to prepare for such an eventuality?

A. Yes, very definitely. Become informed about Civil Defense; plan with your family for coping with emergencies, and take an active part in the Madison County -City of Huntsville or other Civil Defense organizations.

Each family should have its own EVACUATION PACK kept in constant readiness containing the essential items needed to keep the family alive for at least three days; as follows:

FOOD: Canned vegetables; canned meats; canned fruit juices; sealed boxes of crackers; bottled or canned candies, sealed packages of dried fruit, such as dates, figs, raisins or peaches; canned milk; salt and sugar. (Rotate periodically.)

WATER: In thermos bottles or jugs with cups (clean milk cartons with the tops taped over serve well); also water purification tablets.

CLOTHING: Include a complete change and raincoats.

GENERAL: A toy or two for the children; spare blankets, First-Aid Kit; flashlight; battery type (transistor if possible) radio; and a spare can of gasoline.

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BY RHODA STAMBAUGH
Of PIO-AOMC

(Editor's note: This in National Library Week. In keeping with that theme, the following article describes in detail the job performed every week of the year by the various libraries located at Redstone Arsenal.)

Libraries at Redstone Arsenal are stocked to provide enough material for accreditation in colleges and universities in the fields of chemistry, physics, engineering, management, and semantics.

The libraries also contain documents relating to every phase of missilery from completed projects to progress reports and future ex-

pectations.

The Army Ballistic Missile Agency's Technical Documents Library circulates periodicals and documents to every segment of the Agency, and keeps everyone from lab technicians to management informed of new additions through circulated lists of new items and through abstracts. The service includes contractors and representatives of other Agencies working with the ABMA people on specific projects.

ABMA Staff

Mrs. Charlotte Chesnut is chief of this library, with Miss Lois Robertson as her deputy. The staff includes librarians, library assistants, and the administrative

personnel necessary to keep the flow of material catalogued, as well as the paperwork involved with borrowers from the library and borrowing from other sources for the borrowers. In all, it takes 21 people to keep material flowing smoothly around and from the library in Room 200-C of Bldg. 4488.

The library contains carrels (study rooms), equipped with tables capacious enough to spread documents out for easy reference in making notes, or to refer back to while studying. These rooms are also equipped with micro-readers and visual aids such as slides.

The same procedures are used at the Army Rocket and Guided Missile Agency's Technical Library where the chief, Mrs. Cleo Cason, has a staff of 35 to discharge library services. The carrels in this library are on a corridor guarded by a metal gate and vault-like door with a three-way lock. (A painter once closed the gate in the course of his painting and had to be rescued by a librarian with a key to the gate.) Classified as well as unclassified material can be scrutinized and absorbed by experts or novices in complete privacy. The librarians maintain a file of security clearances for every library user.

Study Rooms Available

Project officers can reserve a study room for contractor representatives who need to study a particular project during a visit to the installation. The room is assigned to the contractor representative for the duration of his stay. Micro-readers and other visual aids are a part of the standard equipment in the ARGMA library as well as the ABMA library.

Paradoxes accompany people. One of the most common — resistance to change — is evident in users of the Technical Libraries.

The librarians are making use of a fairly recent innovation in library history — the micro-card files. Approximately 58 pages can be stored on one 3"x5" file card. Micro-readers project images at more than average page-size on lighted screens that adjust to the reader's best image for seeing. The study lights for note-taking are adjusted to throw light on the note page. But many of the scientists here miss the comfortable familiarity which a book in hand imparts, and are not yet utilizing this new service to full advantage.

Micro-Card Advantages

Librarians find the micro-cards easily stored, easily produced, and easily obtained from originators. Despite some reluctance by scientists to change their study habits, their dependence on the library is stronger than adverse reaction to new-fangled study gadgets.

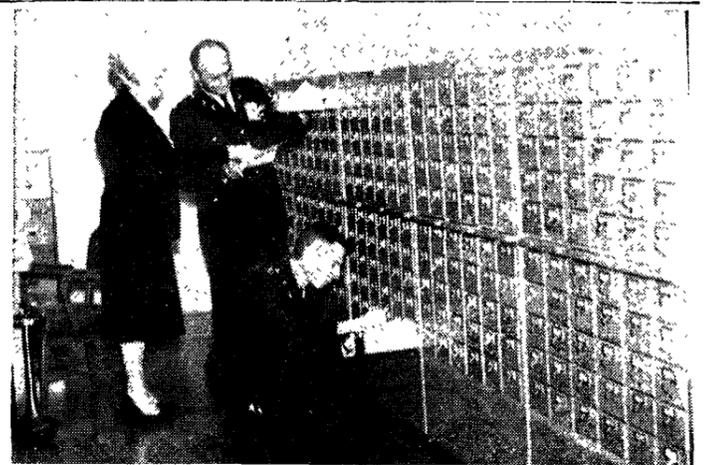
The two libraries mentioned are not the only ones on post, however. The two major contractors at Redstone — Thiokol Chemical Corp. and Rohm and Haas Company — maintain technical libraries. The Ordnance Guided Missile School stocks a library with backup material for students, faculty, and staff use. The largest law reference collection is in the Judge Advocate's library with law books scattered among the Legal Sections of the various Agencies for ready reference. The Industrial Division and the Field Service Division of the Army Rocket and Guided Missile Agency have established libraries with documents peculiar to their own use. The Post Library caters to the military personnel stationed here and includes selections from best-seller lists in both fiction and non-fiction.

According to Mrs. Chesnut at ABMA, service, "spelled with capital letters and double underscored," is the primary aim of her library staff.

Mrs. Cason's Philosophy

Mrs. Cason spells it out differently, but the addition is the same. She says, "The most important function of a librarian is to get the material to the right person at the right time."

This sounds easy, but sometimes it isn't. A librarian knows generally where to go for material if it isn't on the library shelves. Universities, the Library of Congress, the Armed Services Technical Information Agency with headquarters across the District of Columbia line in Virginia, and innumerable other library service agencies willingly lend items from their own collections for specified periods of time, usually two weeks. A few charge a small stipend. But the trick is to find out who has the needed material and can lend it for the time



MRS. CHARLOTTE CHESNUT, Chief of the Army Ballistic Missile Agency Technical Documents Library, helps Maj. Gerald A. Champlin, Liaison Officer for the Surgeon General at ABMA, find a document from the card reference files where 17,000 titles are stored as well as 75,000 micro-card documents from the Armed Services Technical Information Agency, the central agency for gathering and disseminating technical material to all other government agencies. Kneeling to find his own material is Capt. George M. Montgomery, ABMA Research and Development liaison officer for the Control Office.

* * *

required. This often entails perusing many guides. Skips in a series of periodicals or mislaid documents are the greatest headaches, because the documents are registered as being on hand.

But when a librarian can't put her hands on these items, she doesn't let her frustration show. She looks for another possible source, and another until all possibilities have been exhausted. The document is "out of print" and no one has a copy she can borrow.

Sometimes she must admit defeat.

Foreign Periodicals

Many foreign periodicals are received by the various libraries. Two Russian linguists, one a native and one a graduate engineer who studied Russian in this country, complement each other in their field—one with language grasp and the other with technical knowledge. They are M-Sgt. George F. Hill and Pvt. Eugene Lyssenko. Pvt. Peter Seitz is a German interpreter. All three

* * *

have desks in the ARGMA library on the second floor of Bldg. 7120.

Many of the librarians and library assistants have picked up enough German, French, Spanish, and sometimes combinations to classify newly arrived documents without referring to translators (Continued on Page 14)



IN THE PERIODICAL ROOM of the Army Rocket and Guided Missile Agency Technical Documents library, Mrs. Cleo Cason, Chief, helps Herbert Holl, a relative newcomer, locate an article. Sitting against the window is Hans G. Baussus. Both men are assistants to the chief of the Aeroballistics Laboratory, Army Ballistic Missile Agency. Rearranging the magazines is Mrs. Clara Rogers, of the ARGMA library staff.



AT THE POST LIBRARY, Pfc. Juergen Eberhardt of the German Air Force examines some of the collection of foreign-language books published in the country of origin which Miss Anna Farrar, Post Librarian, has added to the book shelves. This is a special collection authorized by the library service for use of NATO troops who wish to relax with current and classical literature in a more familiar tongue than the English with which they work at the Ordnance Guided Missile School. The collection includes books in German, French, Danish, Italian, Dutch, and Norwegian.

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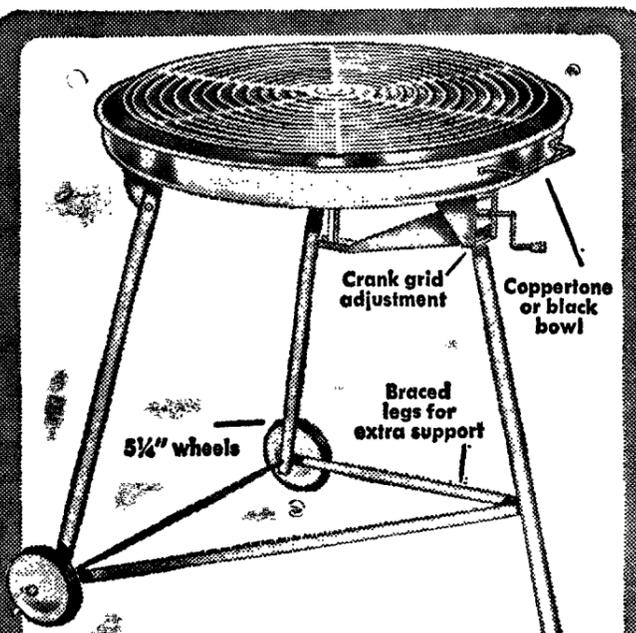
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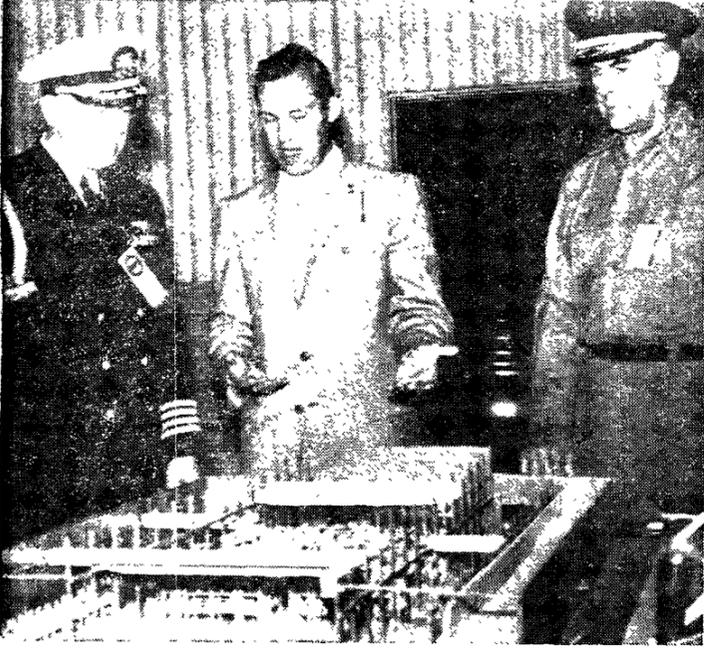
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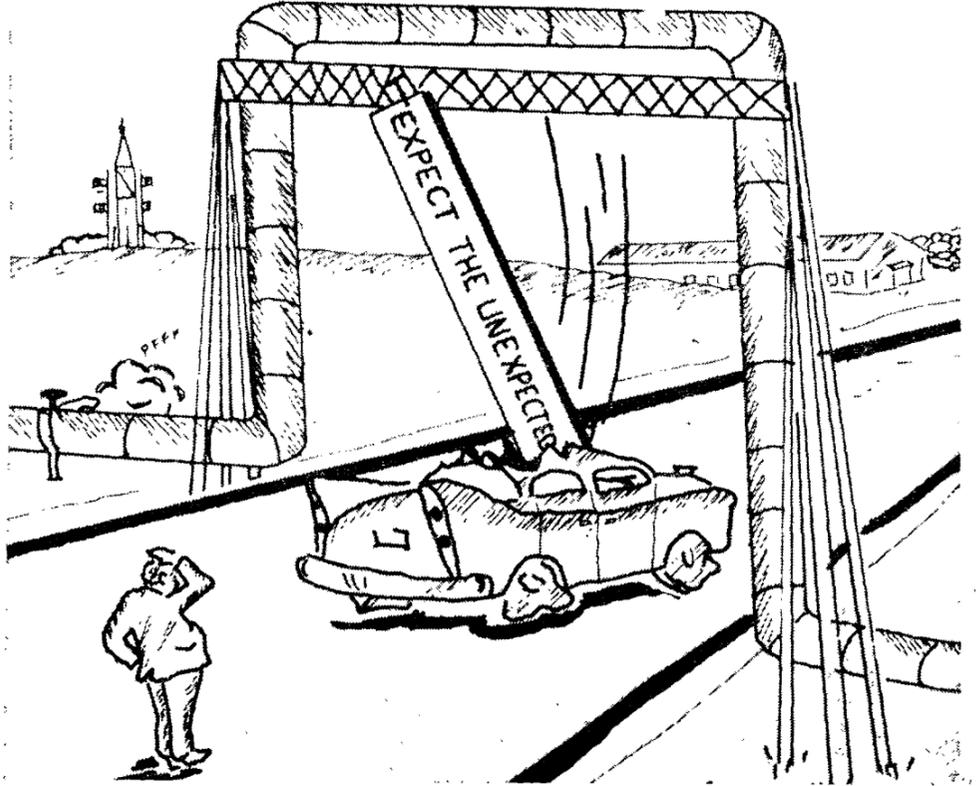
Picnic fun is as near as your own backyard with this handy portable! Cooks a family size meal! Crank grid adjustment. One-inch tubular steel copper-tone legs. Rubber tires.

7⁷⁷

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PRESIDENT'S NAVAL AIDE VISITS—Capt. E. P. Aurand (left), Naval Aide to President Eisenhower, inspects model of Fabrication and Assembly Engineering Laboratory Building at Army Ballistic Missile Agency during recent orientation tour of facilities. Showing the captain about are Wernher R. Kuers (center), Deputy Director of the lab, and Col. Thurston T. Paul, Jr., Deputy Commander of ABMA.



(Editor's note: The cartoon above was drawn and submitted to The Redstone Rocket by Ivan Teal of Research and Development Division, ARGMA. We hope the Safety Office has as good a sense of humor.)

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Three fine lines of new watches: ELGIN, MIDO & SELDON'S. MIDO GUARANTEED for three years. Finest watch repair by Seldon Smith.

PHONE JE 6-0271

LIBRARIES

(Continued From Page 13) for subject matter. Many of them studied some languages in school before coming to work in the technical libraries.

One of the growing collections relates to welding of different materials, new techniques, methods of development, and new materials which need special handling. The men who make the bodies of missiles are as deeply engulged in study as the precision engineers who work with the most delicate instruments for guidance or relaying information.

Young Library

Comparatively, the ABMA Technical Documents Library is young, because the Agency is young. It was established in 1956.

The ARGMA was established in 1949 with its basic material supplied by the Chief of Ordnance library service. More documents were added when the Ordnance Rocket Center was moved from Fort Bliss, Tex., in 1951. With the technicians and scientists, the documents accumulated in Texas were supplemented by the original material from Peenemuende where the German-born scientists associated with the program got their start in missile "know-how."

The original documents were copied and bound for reference here. Then, the originals were returned to the Adjutant General for ultimate return to Germany.

As long as a librarian has a source, subject, and author (all three are preferable), the librarian can usually track down a need.

Approximately 2400 magazines or books a year are loaned the librarians on post by the Library of Congress and others. The only cost from this source is postage. This is true with many university, industrial, or civic libraries, too. Most libraries deposit stamps with the Library of Congress if they have a large demand on that institution.

Far-away Places

Occasionally, the librarians here request things from as far away as the Sorbonne in Paris and have the additional challenge and fun figuring the postage refund in international coupons.

More than 1,778 periodicals are circulated monthly. Another service is furnished Ordnance prime contractors and liaison officers, Abstracts of reports and docum-

Capt. Mauceri Named to AOMC Signal Post

Capt. Charles Mauceri has been assigned with the Signal Office at the Army Ordnance

Missile Command.

Capt. Mauceri is serving with the Signal Office's Pictorial Plans Division.

He was formerly an editorial officer for motion pictures with the 69th Signal Co., U.S. Army, Europe. Prior to entering the Army in October 1940 he was employed as a film editor with Metro - Goldwyn-Mayer, Culver City, Calif. In 1945 he returned to this position for three years.

He is a member of the United Service Masonic Lodge, New York, and the National Sojourners.

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FOR RENT — Nice clean room in private home, kitchen and living room privileges, 2102 Maysville Road after 4 p.m. or phone Redstone ext. 5162. 1tc

FOR SALE or TRADE — 1954 Sun Valley Mercury in good condition. Would like to get small Nash or foreign car. Call JE 6-7591. 1tp

Largen Motor Inn, Fayetteville, Tenn., second to none and the price is right. Reverse your call for reservation to Fayetteville HE 3-1542. Single rooms \$3.50, double \$4.00, porter and dining service. 5-13p

FOR RENT — Almost new 2 bedroom home located at 1814 Oakwood N. E., phone JE 9-2565. 1tc

FARM FOR SALE — 120 Acre Cattle Farm. Good barn, corral and loading chute. About 40 acres under good fence and blocked for rotation. Two everlasting springs and year round running stream (Cotaco Creek). Pasture seeded in 1951 to Kentucky 31 Fescue and white dutch clover. About 15 acres outside fence in row crop. Almost one half mile road front. Less than 20 miles from Redstone Arsenal. Only \$100 per acre. Contact Elgin M. Bowen, Somerville, Ala., Route 2. 1tp

FOR SALE — House on corner lot in Arab, 1675 sq. ft. living area, 600 sq. ft. attached garage, \$3500 down and assume \$11,750.00 mortgage at \$88.10 per month, will finance part of down payment or can re-finance house. See at 431 Second Ave., N.E. Arab, or call JU 6-4771. 1tc

FOR SALE — Clean 1950 Cadillac, 4 door, \$450, or 1952 4-door Studebaker V8 with overdrive \$250., at 431 Second Ave., Arab, or call JU 6-4771. 1tc

FOR SALE — 3 bedroom home in Belmont Subdivision in Athens, Ala., tile bath, carport, concrete driveway, nicely landscaped, a real bargain. Contact Athens Real Estate and Insurance Co., phone 1181. 4-29p

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Ask for details on the low-cost, long-term, real estate loan plan now available from the Equitable Life Assurance Society of the U. S

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Office Phone - JE 4-0371
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MODERN HEALTH Club Services — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy, sun lamp, swimming pool. Graduate Masseuse in charge. Phone JE 2-2444. ttc

WE BUY — SELL OR TRADE — AUCTION HOUSE, W. Holmes St. Furniture sold off the floor each day of the week. Phone JE 6-2241. ttc

DO YOU NEED colored maid service? Let us help you with all your domestic help needs. Ph. JE 4-6437, Dixie Employment Service, 111½ Washington St., N. W. ttc

PRUDENTIAL, INC., OF AMERICA for the best in Life Insurance. Big dividends and cash surrender values. For your home—the new home owners package at new reduced rates plus our fine dividends. JOHN E. BROYLES AGENCY, Times Bldg., Huntsville, Ala., Phone JE 6-0711 or JE 2-8615. ttc

C & M TV SERVICE offers reliable and guaranteed TV repairs at reasonable prices. Service calls \$3.00, home calls 'til 10 p. m. daily, phone JE 6-2596 or JE 6-2838. ttc

FOR SALE — 5 h.p. Plow-Trac Garden Tractor with cultivator, rototiller, cutter bar mower, 2 years old, used very little, Ph. JE 4-1464. 1tc

HARD WORK? Not if you buy this 3-bedroom brick, all electric, attached garage, in LAKEWOOD. Near new school, churches, shopping. 4½% GI Loan available by paying \$2975 equity. Monthly payments \$88 including taxes and insurance. 3900 Force Drive, NW, Huntsville. JE 6-4295. 1tp

FOR SALE—1958 Renault Dauphine. Radio and Heater, 11,000 miles. Asking \$1200. No trades. Phone Redstone ext. 6068 or JE 6-9809 evenings. Paul Kunitz. 1tp

FOR SALE — Montgomery Ward refrigerator, 9.2', for information call JE 6-4139. 1tc

For Sale

3 lots on Honeycone Park, each 100x200 feet, located on black top road overlooking Honeycone Lake. Each \$850.00.

2 lots on Thomas Road, off of Ridge Crest in Huntsville, zoned for apartments, 66½x-227½ feet. \$6,000.00.

1 lot on Panarama Drive, Monte Sano, 140 feet front, with lots of shade trees. Located in AA zone. \$2900.00.

Call Guntersville Justice 2-4077 or Jefferson 6-4411, Extension 5675, Felox Dillard.

AUCTION SALE—Our next auction sale will be held tomorrow night (Thursday, April 16, at 6:30 p.m. There will be plenty of good used furniture and appliances and other useful items. Prizes given all during sale. (Use your cents to save dollars). Warehouse Sales Co., 5013 Governor Drive, Phone JE 6-2103. 1tc

NOW OPEN — Self service coin operated Brandon Street Laundromat. Open 24 hours a day 6 days a week at 2108½ Brandon St. S. W., next to Hill's Super Market. ttc

CHARM BEAUTY SALON featuring personalized hair styling, body waves and tinting. Phone JE 6-0912 for appointments. Located corner Church and Canal Sts. ttc

PARADISE SHORES—Lake front at Wheeler Lake located at Brown's Ferry, Limestone County, Ala. Restricted area, terms to suit. See Wayne Black, owner, or phone Athens 294-W3. 5-6c

GOVERNMENT EMPLOYEES FINANCE CO. Offers Officers and First three Grades Specialized Auto Financing. Low rates, long terms, and free movement of auto; to include overseas.

INTERNATIONAL SERVICE INSURANCE CO. Offers to all Government employed personnel . . . Low rates on your Auto Insurance. Local Representative W. W. BRYANT 2901 N. Bayless Dr., Phone JE 6-0156. ttc

FURNITURE & APPLIANCE BARGAINS Drive out and see our display of quality home furnishings at wholesale prices. Our low overhead permits us to give you extra discount savings. Ask about our easy pay plan. Furniture Outlet Store, Meridianville, Ala., Phone JE 6-6857. Go Out-a-way — Less-to-pay ttc

FOR SALE — 2 Scott-Atwater 33 h.p. outboard motors, all controls, 1956 models, 2 propellers each at give away price. Contact Athens Warehouse Co., phone 399. 4-29p

FOR SALE — Small house on 50' x150' lot at 807 Third Ave., \$3,750 will buy. Phone JE 2-5477 after 6 p.m. 4-29c

FOR RENT — New brick unfurnished duplex, modern conveniences, ceramic tile bath, close to bus and schools southeast Huntsville. Call JE 4-0467 or JE 4-1927. 1tp

TRAILER SPACE available at Decatur Trailer Park, concrete patios, laundry facilities on Highway 31 South, also at Uptown Trailer Court, Decatur, Ala. Convenient to churches and schools, business district. Five blocks south of river bridge on Highway 31. Modern laundry facilities. Wiring adequate for any kind of electrical appliance. Free laundry service to patrons of Decatur Trailer Park. For reservation write P. O. Box 239, Decatur, Ala. ttc

TRICKS AND NOVELTIES—Ladys Susan Candies, N. Memorial Parkway. ttc

FOR SALE by Owner: Three bedroom brick home, large corner lot, fireplace, bath and a half, paved drive, garage, Flemington Heights Section. Call JE 6-2234. 4-15-p

BLUE SPRINGS Development — new addition on Elk River of Wheeler Lake, Limestone Co., Ala. Waterfronts, private restricted area, 9 miles west of Athens on Highway 72. Dr. Carl Jones, owner, phone 1453 or 295 and 1181 Athens. Guides on property Saturday and Sunday. Information at boat dock. Phone 469J3. 4-22c

ARE YOU TIRED OF LOOKING? Come out and see my 3 bedroom air conditioned brick ranch home, on large lot in Huntsville's finest suburban area. Equity sale or re-finance. 7703 Martha Dr. JE 6-4375. After 5 p.m. or Redstone extension 6019 during duty hours. 1tc

FOR RENT — Almost new, unfurnished, 2 bedroom brick duplex, 2 apartments, private porches, utility rooms, floored attic storage space, TV antenna and connections, aluminum storm doors and windows, pine panel kitchen with washer connections, exhaust fans and plenty of cabinets, ceramic tile baths with vanity, tub and shower, venetian blinds, curtain rods, close to arsenal. Phone JE 6-2693. 1tc

FOR SALE — Mahogany dining room set, Duncan Phyfe table with extension, 6 chairs, buffet, china closet, table pads, mirror, good condition, \$325, phone JE 6-4150. 1tc

FOR RENT — Three room furnished apartment near Redstone. \$115 per month, phone JE 6-8553 days or JE 2-8562 evenings. 1tc

FOR SALE — 16' boat, upholstered seat and bunks, windshield, top, lights, speedometer and trailer. 40 h.p. motor with starter, generator, like new. Can be financed. JE 6-1433. 4-22p

LEARN TO DRIVE in a Dual controlled car with a professional instructor. We pick you up. Reasonable rates. Satisfaction guaranteed. For full information call JE 6-8895. ttc

LOTS FOR SALE — Suitable for duplex or apartments. Phone JE 2-2652. ttc

ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-6452. ttc

JOHNSON SEA-HORSE Sales & Service, boats, trailers, marine accessories, used outboard motors, easy terms. AUTOMOTIVE PARTS Co., 610 Meridian St., Phone JE 2-5654. ttc

Movie Schedule

Wednesday, 15 Apr., "The Banquet of Zohbe" starring Victor Mature, Anne Aubrey and Anthony Newley. Time 1315, 17-45 and 1945.

Thursday & Friday, 16 and 17 Apr., "Thunder in the Sun" starring Susan Hayward and Jeff Chandler. Time 1315, 1745 and 1945.

Saturday, 18 Apr., SPECIAL MATINEE, "Mister Rock and Roll" with Alan Freed and featuring a big line-up of Rock N' Roll stars. Time 1000 hrs.

Saturday, 18 Apr., "Hey Boy! Hey Girl!" starring Louis Prima and Keely Smith. Time 1745 and 1945.

Sunday, 19 April "The Wild and the Innocent" starring Audie Murphy, Joanne Dru, Gilbert Roland and Sandra Dec. Time 1400, 17-45 and 1945.

Monday, 20 April, "A Streetcar Named Desire" starring Marlon Brando, Vivien Leigh, Karl Malden and Kim Hunter. Time 1315, 1745 and 1945.

Tuesday, 21 Apr., "Gunfight at Dodge City" starring Joel McCrea and Julie Adams. Time 17-45 and 1945. NO MATINEE.

FLORIDA RANCH FOR SALE — Reasonable. 365 acres. Good land. Crossed by U.S. Highway 27. Highly developed. Approximately 100,000 feet of Pine timber. Owner retiring. Write T. S. Wetherington, Box 163, Williston, Florida, or call Huntsville, JE 6-3696. 4-22p

FOR SALE — Montdale, \$2000 down, 3 bedroom, 2 baths, living and dining rooms, large kitchen and storage, garage, air conditioned, TV cable, near Blossomwood School and swimming pool. Immediate possession. Phone 2-2734. 1tp

FOR SALE—1958 Biscayne Chevrolet, V-8 Powerglide, radio & heater, 15,500 miles. \$300 equity or trade and assume payments. 21 months @ \$92.35. JE-6-7574 or 6901 (Arsenal). 1tp

FOR SALE — By owner, private built 3 bedroom brick home, splendid condition. Venetian blinds included. Will consider second mortgage. Phone JE 6-3821. 421 Arthur St. N.W. 1tp

LIVE IN ATHENS — Happy neighborhoods ready to occupy. Save \$2,000 to \$3,000 on 3 bedroom brick veneer homes, \$12,500 to \$14,000. Lots \$1,750.00. Athens Real Estate, Athens, Ala., phone 1181. Mahlon Jones or Wayne Jennings. ttc

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Huntsville Computer Center of GE Performs Important Role for ABMA

The Huntsville Computer Center of General Electric is performing an important role in the mission of the Army Ballistic Missile Agency.

The Center, a sub-section of the General Electric Co. Computer Department's Scientific Applications Section, has a contract with the Agency, not only to operate the digital facilities of the Computation Laboratory, but also to provide the programming for the problems.

The scientific problems come chiefly from Dr. Werner von Braun's group of 10 laboratories, of which the Computation Labor-

atory under Dr. Helmut Hoelzer is a part. These laboratories are located both at Redstone and at Cape Canaveral, Fla. The labs are staffed by approximately 4,000 people, the majority of whom are scientists, physicists, mathematicians, engineers, and technicians.

Other Work

In addition to scientific work, some of the 140 General Electric employees do business data processing such as inventory control and financial statistics for Redstone.

Growth of the Center is expected to continue as the digital

mission of the Computation of ABMA grows. New missions, such as the recently fired space probe, will mean challenging new work in fields never before tackled on high speed computers. Dr. Helmut M Sassenfeld, manager of the Center, stated.

The Center is currently operating on three-shifts-per-day, seven-days-a-week basis. Equipment in the central facility at Redstone includes two 704's, a 705, and a 709, a more powerful version of the 704.

The Center provides computer techniques and counseling, programming, and operations as needed for other smaller equipment such as the Burroughs E-

101's and IBM 610 Autopoint Computers, in addition to the larger and more complex equipment. A Burroughs 205 computer is operated by General Electric at ABMA's operation at Cape Canaveral.

Nine Units

The operation at the Center is organized into nine Units. They are Administration, Operations, Business Applications, Trajectory Applications, Trajectory Studies, Scientific Programming, Computer Techniques, Computer Services, and Inventory Services.

Some of the work done by the various scientific Units includes pre flight and post-flight analysis of missiles and their flight paths,

flight mechanics and guidance theory analysis, earth satellite and space probe trajectories, heat transfer, flutter, stress analysis, and fuel sloshing. Business Applications and Inventory Services handles the commercial data processing while Computer Techniques provides standard sub-routines for maintenance of the computer "library" and assistance to other programmers and their problems. Operations is in charge of running the equipment in the Laboratory, and Administration is concerned with budget-cost control and personnel administration. Computer Services provides support for the Cape Canaveral operation.

Francis S. Hodge Is 'Safe Supervisor'

The Safe Supervisor of the Week, selected by the RSA Safety Division, is Frances S. Hodge, Equipment Foreman, Roads and Grounds Branch of RSA Post Engineer Division.

Hodge supervises all heavy equipment operation, riggers, and iron workers. His overall safety record is excellent. He has not had a disabling injury and has had only one under his supervision. He has a total of 21 years



FRANCIS S. HODGE

of government service. He came to Redstone in 1942 and has worked continually since that time. He has received a number of letters of commendation for the way he has handled unexpected hazards. His first thought is always the safety of his people. When asked how he attained such an outstanding safety record he replied, "I study the job; get the right man and equipment; give proper instructions and follow up to be sure the instructions are followed."

The Safe Supervisor of the Week is married and lives with his wife and two children, Glenda, 19, and Ronald, 16, at 1005 Wells Avenue, N.E. Hodge is an "outdoor" man all the way. He spends much of his spare time hunting and fishing. Here he also applies the safety he has learned on the job.



WEIGHING IN — Bet weled and lovely Joi Lansing checks her weight. After five years of TV appearances, she has just finished her first movie.

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