

**Arsenal-Wide
Spot News
Dial 112**

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers 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. XIII; NO. 40

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 17, 1965

Marines Observing Iwo Jima Invasion

The 20th Anniversary of the Marine invasion of Iwo Jima during World War II will be commemorated Friday with Memorial Services at the Redstone Arsenal Post Chapel.

Chaplain Donald F. Carter will conduct the service at 7 p.m.

Joining in the service will be about 45 Marines presently assigned at Redstone.

Regular, reserve, retired and former Marines and their families living in the Huntsville area are especially invited to attend the Memorial Service. The invitation is also extended to all other persons who wish to attend.

Command Scores First

Six Inventors Given Patents

Six inventors at the Army Missile Command have been issued patents for their latest creations. All are in the Research and Development Directorate.

The patent awards were made by Col Thomas W. Cooke, Commander, Army Missile Support Command, in a recent ceremony. The inventions were patented by the U.S. Patent Office through the Army

Missile Patent Center at Redstone Arsenal.

Thomas M. Moore, Future Missile Systems Division, invented a jet vest which can give its wearer flight capability by use of a jet thrust. He shares the patent with Herman F. Beduerftig, Marshall Space Flight Center.

Two men in the Inertial Guid- (See SIX INVENTORS on Page 3)

With nine out of every ten personnel listed as a voluntary regular buyer of U. S. Savings Bonds, the Army Missile Command has become the first Army Materiel Command installation to attain 90 per cent participation in the payroll deduction program.

At the close of 1964 the Missile Command had an assigned strength of 11,916 military and civilian personnel. Of these, 10,739 were regular participants in the program. Both the military and the civilian personnel topped their respective category among the seven AMC sub-commands.

The total AMC participation at the close of the year showed 57 per cent among the military and 70 per cent for the civilian personnel. In the Department of Army figures the military had the better rating with 77 per cent to 64 per cent for the civilians.

When informed of the No. 1 rating of the Missile Command, Maj. Gen. John G. Zierdt said the real credit for this outstanding record belongs to personnel who have voluntarily participated.

He also credited the continuous educational program initiated last summer by the Redstone Arsenal Savings Bond Coordinator, Col. David Marcelle, Army Missile Support Command Finance and Accounting Officer.

Since the plan was initiated at the close of the annual person-to-person canvass in June, participation has risen steadily. The 90 per cent objective was reached late in the year.

"Even more heartening," commented Col. Marcelle, "has been a voluntary trend among Arsenal personnel toward increasing the amount of their regular deductions."

In attaining the coveted 90 per (See COMMAND on Page 3)

Dr. Carter Reviews Programs

A review of the Army's missile flight test programs and some of the problems involved were outlined Monday by Dr. W. W. Carter to more than 400 experts in flight testing.

Dr. Carter, Chief Scientist of the Army Missile Command, was guest speaker at a kick-off luncheon of the Joint AIAA/NASA/Army Missile Command Flight Testing Conference held at the Redstone Officers Open Mess.

"More than 2,900 missiles and rockets were fired on test ranges at the Army Missile Command in 1964," Dr. Carter told the meeting.

About 60 per-cent of these firings involved anti-tank weapons, while most of the others were done for aircraft armament systems.

"Our problem areas," he pointed out, "include such things, naturally, as greater accuracy and precision and faster data reduction. After firings, we need test results that can be fed back into subsequent tests in short order."

(See DR. CARTER on Page 3)



PROPOSED NEW ANTI-TANK WEAPON—This is an artist's concept of one candidate being evaluated as a medium anti-tank weapon, the DC-MAW (Directional Control, Medium Assault Anti-Tank Weapon). Now in exploratory development, the DC-MAW program is managed by the U. S. Army Missile Command at Redstone Arsenal.

Hot Air Has Its Uses In Missile Development

There's a good reason why Jack Clayton and some of his cohorts at the U.S. Army Missile Command probably take more than their share of kidding about "generating a lot of hot air."

And it has nothing to do with their ability to "shoot-the-breeze!"

Clayton, an engineer in the Control Systems Branch of the Army Inertial Guidance and Control Laboratory, is doing vital research with a unique hot gas facility.

At this facility, tucked away in a remote area of Redstone Arsenal, important studies are being made in missile guidance and control.

By using a hot gas generator, which actually is a miniature rocket engine, Clayton and other Army scientists and engineers can test and evaluate any missile control system which uses hot or cold gas as a power source.

An explanation of how this hot gas facility works is about as easy to understand as a course in advanced physics. But basically, the pressure and flow rate of the gas can be used as a source of power—much the same as an air compressor for air brakes.

At present the lab is doing extensive testing of pure fluid control components. These components use streams of air, or gas, directed by tiny channeled plates carried in-

side the missile, to tell the 'bird' which way to go. They differ from conventional components in that they have no moving parts except the working fluid.

One test instrumentation missile (TIM), using a pure fluid control system, was fired successfully on one of the Missile Command ranges late last year. Another shot is scheduled in July.

"We now are designing the hot gas jet reactors and driving circuits for this next shot," Clayton said. "Naturally, we will test these devices on our facility before they will be fired on the range."

In addition to its research in pure fluid systems—the Control Systems Branch designs and develops many fluid amplifiers—the lab evaluates both in-house developed hardware as well as industrial components.

To accomplish its job, this branch of the Research and Development Directorate has two test cells. Both areas are separated from a control room, which has monitoring equipment and a closed circuit TV system, by 12 inches of reinforced concrete.

One area has a liquid gas generator where various pressures and flow rates can be used to check the hardware. The second area is set up for solid hot gas generators and high pressure cold gas testing. In this area, an almost limitless number of propellants for gas generators can be utilized.

"Some hardware works better under certain pressures and flow ranges than others," Clayton said. "We try to find the optimum op-

erating limits."

Why is hot gas used in the first place?

Many of the Army's smaller missile systems use hot gas generators as part of their guidance and control packages because hot gas gives more energy, can be packaged in a smaller volume and has less weight than stored cold gas. It is more desirable for many of the higher performance missiles.

There are certain disadvantages, however.

"Any time you have moving parts in a hot gas system you have potential problem areas," it was explained. "Such things as erosion caused by expansion to high gas temperatures and clogging of vital parts by residue."

In actual hardware tests, Clayton said, cold gas is used first.

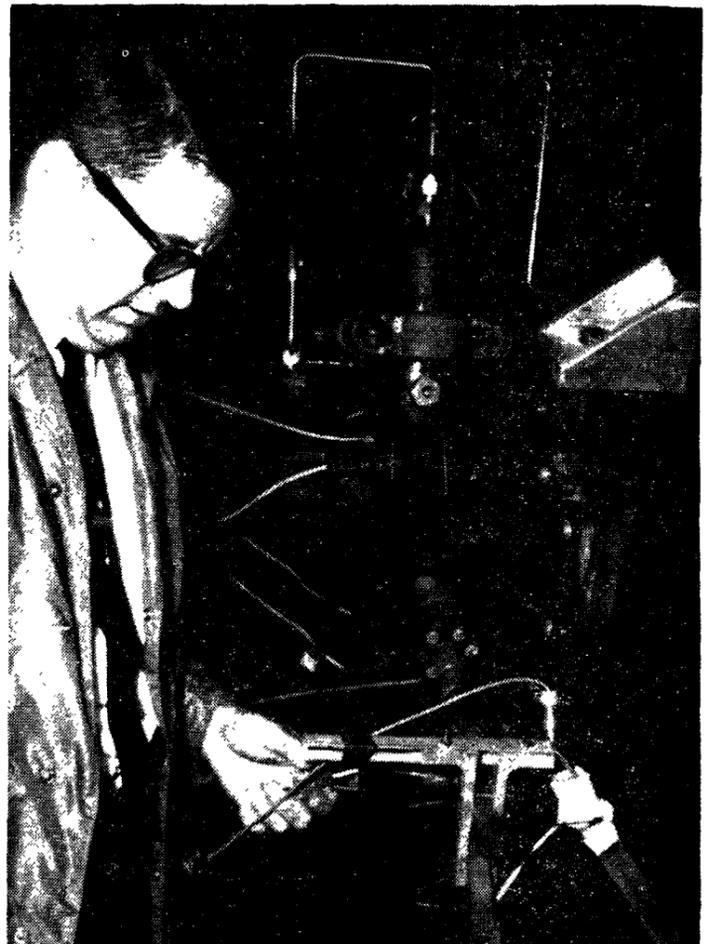
"This method is cheaper, it allows us greater ease of handling and it isn't as dangerous. We call this ironing out the bugs—checking such things as instrumentation circuits."

Next comes the liquid gas generator and, if all functions well here, the hardware goes to the solid test bay where it is operated in its flight configuration.

"We are not in the propulsion business," Clayton explained, "but we do have to be familiar with many different types of hot gas generators in our operations."

Clayton has been at Redstone Arsenal more than three years and has been working with the hot gas facility for about two years.

A native of Fort Worth, Texas, he is a graduate of Texas A&M with a degree in Electrical engineering.



COOKING WITH GAS?—Jack Clayton of the Army Missile Command's Inertial Guidance and Control Laboratory isn't cooking, but he is looking at a hot gas facility. The hot gas generator is used to test and evaluate missile control systems which use hot or cold gases as a power source.

Decal Deadline

Deadline for affixing the new Redstone Arsenal bumper decal is March 10.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication. The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

Rocket Ruminations

THE IDEAL HOSTESS:
 She gleans how long you wish to stay;
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 —Grenville Kleiser

Washington Monument Is Symbol Of U. S. Freedom

The Washington Monument will be 80 years old Feb. 21. On that day in 1885, the impressive structure which is the focal point among the many monuments in the nation's capital, was formally dedicated to the first President of the United States, for his leadership and deep desire for freedom.

Just as George Washington and the revolutionaries had to fight for the freedom of the United States, the Washington National Monument Society, formed in 1832, had a difficult struggle in building the monument.

Although the cornerstone for the Washington Monument was laid in 1848, some unusual circumstances delayed its completion until December 1884. The monument society sent requests to states, organizations and other nations to donate memorial stones to be inlaid in the inner walls of the monument. Among the stones they received was a block of marble presented by Pope Pius IX from the Temple of Concord in Rome.

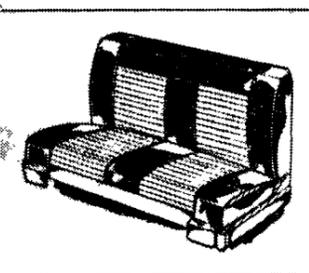
The marble block was stolen and supposedly thrown into the Potomac River by a group believed to be members of the American Party. This party was a secret society that protested against immigration and the election or appointment of foreign-born persons to official.

The robbery was such a shock to the public that contributions all but stopped. The monument society, realizing they had no chance of defeating the American Party alone, appealed to Congress for aid. Congress agreed to furnish them funds, but the night before the funds were to be given, members of the secret society struck again. They broke into the offices of the monument society and declared themselves in possession of the monument. As a result of the publicity, Congress abandoned any attempt to help the society until 1876, when it voted to finish the monument at government expense.

Today, standing 555 feet, 5 1/8 inches, the structure is a symbol of the courage and spirit of George Washington and of the country he helped create. About one million people visit the monument annually to pay respect to the Father of Our Country. (AFPS)



A DISTINGUISHED FIRST AT THE MISSILE COMMAND—Maj. Gen. John G. Zierdt, right Commanding General of the Army Missile Command, congratulates Maj. Victor L. Miller who has just received the Joint Service Commendation Medal for meritorious service while assigned in Vietnam. The medal, awarded by the Secretary of Defense, is the first of its kind to be presented to an officer stationed at the Missile Command. The citation covers the period when Maj. Miller served as Special Security Officer, U. S. Army Special Security Detachment, Office of the Assistant Chief of Staff for Intelligence, attached to the U. S. Military Assistance Command, Vietnam. Mrs. Miller attended the ceremony and shared in the congratulations.



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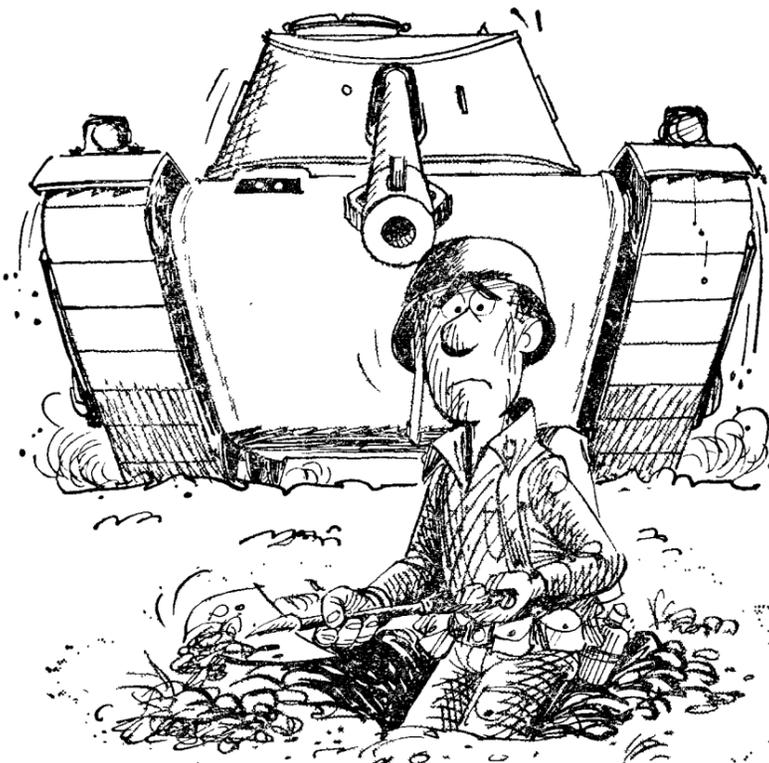
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SIX INVENTORS

(Continued From Page 1)

ance and Control Laboratory, Charles E. Riley and Billy B. White, received a patent for a multi-interval switch actuator.

One of the inventions patented is a pendulous North-seeking gyroscopic assembly. The co-inventors are James V. Johnston, Inertial Guidance and Control Laboratory, and Keith H. Clark, Marshall Space Flight Center. Johnston also received a patent on an electron gyroscope.

Dr. Bernard Steverding, Physical Science Laboratory, and Leonard N. Werner, National Aeronautics and Space Administration, patented a method and device for determining impurities in inert gases.

The patent awarded to Charles H. Martens, Propulsion Laboratory, is for an invention which provides improvement in the working and shaping of metals in a low-temperature environment.

A patent also went to Stanley C. Wilkins of the Army Missile Support Command's Transportation Division. It is for a semi-trailer which can be used to transport, load and unload fork lifts.

All persons involved in these patents were connected with the Army at Redstone at the time applications were entered.

COMMAND

(Continued From Page 1)

cent participation, four Missile Command organizations have earned the right to fly the treasury Department's Minuteman Flag.

They are the Army Missile Support Command and the three large directorates, Supply and Maintenance, Research and Development, and Procurement and Production.

In addition to these, the Minuteman Flag also flies over the Ordnance Guided Missile School. The OGMS rate of participation also exceeds 90 per cent but is not in-

Salvation Army Begins Building Fund Drive

The Board of Directors of the Madison County United Givers Fund has authorized the Salvation Army of Huntsville to conduct a Building Fund campaign from February 18 until March 5.

Mayor Glenn Hearn, Chairman James Record of the Madison County Board of Commissioners and Senator Roscoe Roberts, are co-chairmen for the campaign. L. M. Brockman has been designated coordinator for the campaign on the Arsenal.

Arrangements have been made on the pay days of Feb. 18 and 25 to furnish all personnel at Redstone Arsenal information which will allow them, if they desire, to make a pledge to the Salvation Army. The pledges would be paid over a period of three years.

We are already acquainted with the outstanding work that is done

by the Salvation Army among the poor and the underprivileged of Huntsville.

In recognition of this it is hoped that all of us will give serious consideration to the noteworthy community activity, and that all of us who are able will participate in helping the Salvation Army construct the building in which to service the needy of our community.

A self-addressed envelope with a pledge card attached will be furnished each prospective donor for this purpose. Personnel will be advised where to send their donations and pledges. No funds will be collected on the Arsenal.

Thiokol Man Goes To Metal Congress

A Thiokol metals man has been selected to speak at a technical session of the American Society for Metals Western Metal Congress, February 22-26, in Los Angeles.

Thomas H. Burns, Chief of Metallurgy and Manufacturing, Thiokol Chemical Corporation, Huntsville Division, will speak on "Submerged Arc Welding of Maraging Steels," Tuesday, Feb. 23, at 2:00 p.m. in the Renaissance Room of the Biltmore Hotel.

The technical sessions are being presented in conjunction with the 1965 Western Metal and Tool Exposition, which is co-sponsored by ASM and the American Society of Tool and Manufacturing Engineers.

The Exposition in Great Western Exhibit Center will be open Monday, Feb. 22 through Thursday, Feb. 25, 1:00 to 9:00 p.m.; and Friday, Feb. 26, 10:00 a.m. to 5:00 p.m. Congress sessions at the Biltmore Hotel will be open Monday, Feb. 22 and conclude Thursday, Feb. 25. In what shapes up to be one of the largest and most

DR. CARTER

(Continued From Page 1)

Discussing the Army's programs at White Sands Missile Range as well, Dr. Carter mentioned such programs as Lance, Pershing, Shillelagh, Sergeant and some of the Advanced Research Projects Agency's undertakings.

"Another big problem at the moment," Dr. Carter said, "is the need for better miss distance information for defensive missile systems. We are doing some work in this particular area right now at Redstone Arsenal," he told the group.

The national technical conference is scheduled to end here today.

cluded in the Missile Command figures.

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ZERO DEFECTS WORKSHOP

John J. Riordan, Director, Quality and Reliability, Office, Assistant Secretary of Defense, recently gave the keynote address at a Zero Defects Workshop in Orlando

This Workshop is one of eight held under sponsorship of the Army Materiel Command for representatives of industry and government. Each session will be for a two-day period and will be at the Cherry Plaza Hotel in Orlando.

Management of the Workshops is under the Quality and Reliability Management Office of the Army Missile Command, Redstone Arsenal, Alabama.

comprehensive Western programs ever developed by ASM, some 70 technical papers and panel presentations in 8 sessions will be presented by ASM with an additional 17 sessions expected to be programmed by ASTM and the Society for Nondestructive Testing

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Coming Events

Feb. 18—American Association For Contamination Control. Speaker: Will Gibson. Res. Day, 876-2220.

Feb. 18—Society of American Military Engineers. Speaker: Maj. Gen. R. H. Curtin. Students Night. Res. Boudreau, 876-5332.

Feb. 18—Association of Federal Accountants. Speaker: L. M. Brockman.

Feb. 21-27—ENGINEER WEEK

Feb. 26—Institute of Electrical and Electronic Engineers. Speaker, Curtis Caldwell. Information: 876-4061.

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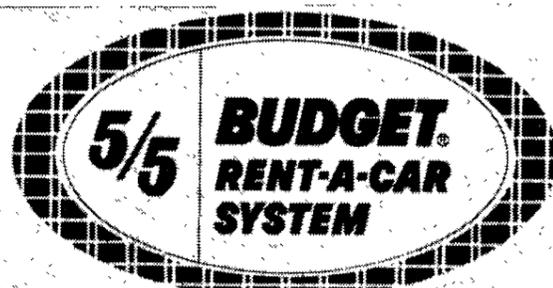
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Indoctrination Briefing Set For Joint Fund Chairmen

An indoctrination briefing for organizational vice-chairmen will complete the preliminary planning phase for the 1965 Joint Fund drive on the Arsenal. The briefing will be conducted on Friday in the Director's conference room in building 5681 starting at 0900.

The purpose of the briefing, according to Enoch Sparks, Executive Chairman of the drive, will be to initiate an educational program covering the campaign procedures and the objectives of each agency included in the drive.

Sparks will emphasize the voluntary nature of the drive which will be conducted over a five-week period starting March 15. He said that "We hope to get a contribution from every member of the Arsenal team, but that we want the contribution to come from the heart rather from some pre-determined fair share."

In calling for the indoctrination briefing, the drive chairman stated that, "We hope to impress upon all Arsenal personnel the tremendous advances in medical research and world peace that have been made possible through their contributions in previous drives, and the urgent need for a continuation of this work."

All donations to the drive will be accepted in sealed envelopes provided by the state headquarters for the National Health Agencies and the Joint Crusade.

The envelopes together with campaign literature and procedures will be distributed to the vice-chairmen at the briefing. They will in turn conduct orientation briefings for solicitors and key workers within their own organization.

In addition to Sparks, the executive committee for the drive is made up of Leonard Twinem, executive chairman, and Horace Williams, finance and reports chairman.

Responsibility for managing the drive within the organizations will rest with 38 voluntary vice chairmen.

Within the large directorates this responsibility will be handled by Walter Redden, for Research & Development; Willard Collins, in Procurement & Production; David Balkin, Supply & Maintenance and Betty Burgess in Missile Intelligence.

The vice chairmen in the project offices are, Sgt. Herbert Campbell, TOW; Joe Johnson, Lance; Paul Wisner, Pershing; Lucille Price, Sergeant; Nelta Hunter, Shillelagh; Carmen Harrell, Hawk-NATO/Hawk; Herbert Gary, Hercules; Fred Hill, Mauler; and Stella Myers, Redeye.

Lt. H. W. Howze is vice chairman for the Commanding General, MICOM, the office of the Chief of Staff and the Protocol Office; R. A. Malone will administer the drive for the Deputy Commanding General, Land Combat Systems, and Maj. M. E. King will head the campaign for the Deputy Commanding General, Air Defense Systems.

Vice chairmen for other MICOM staff elements include: William Venable, Administration Office; Eunice Jones, Comptroller & Director of Programs; Don Southard,

Installations & Services; MSgt. Arthur Parrow, Staff Judge Advocate; Myrtle Copeland, Personnel & Training; and George Rogers, General Counsel.

John Debs, Inspector General; Patsy Johnson, Mgmt Sc & Data Sys Office; Aaron Brackeen, Quality & Reliability Office; Herbert Jones, Small Business Office; Lt. John Rollo, ADFDS; Lt. Howard

Ubert, Air Defense System Commodity Office; and Donald Graham, AADS-70 Commodity Office.

In addition to these, E. E. Dutton will serve as vice chairman for the liaison offices and the office of the Chief Scientist, the Chief Engineer, Special Review and Labor Relations.

The vice chairman for the Army Missile Support Command will be Guy Piercy and Lt. Col. J. M. MacDonnell will fill the responsibility for the Ordnance Guided Missile School. James Mitchell will head the campaign for the Mobile District Area Engineers and Judy

Kennedy will do the same for the Huntsville Office of the Army Audit Agency.

Harold Speake will direct the drive for the Alpha Division of Thiokol Chemical Co., and Peter Campbell will head the Rohm & Haas Co. Joint Fund campaign.

March 1, 1918—The Aberdeen Chronograph was first set up and successfully used. This velocity measuring instrument was design-

ed and developed at Aberdeen Proving Ground (Maryland), now an installation of the U.S. Army Materiel Command, and was an improvement over existing commercial instruments.

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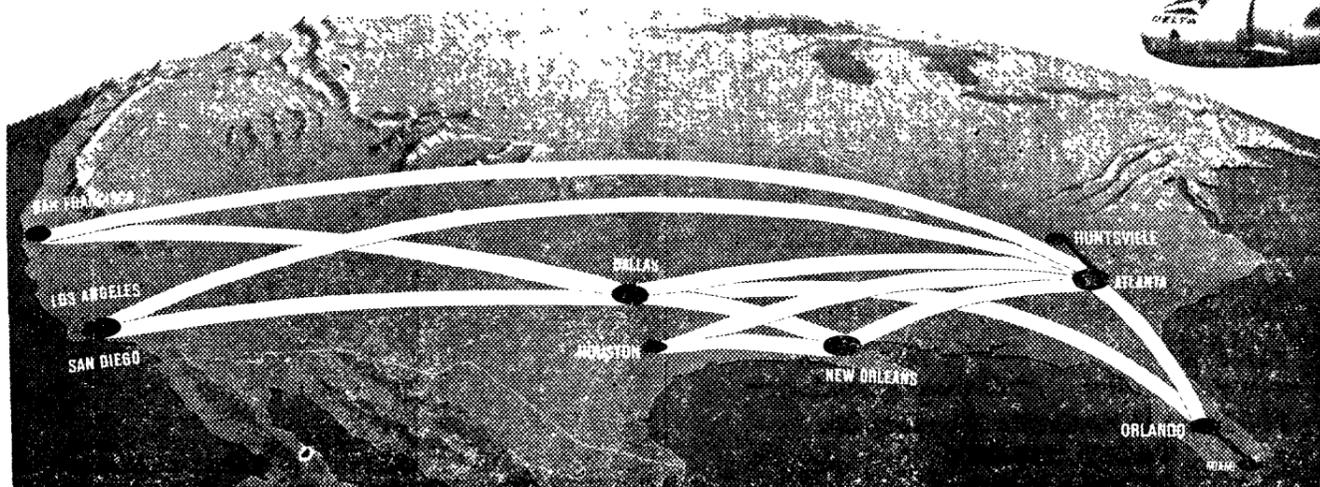
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PANAVISION

Army Plane Helps Spot Plumbing Problems

Last Fall an Army plane, with the door removed, weaved slowly just a few hundred feet over sprawling Redstone Arsenal. Inside one man sat firmly strapped to a seat by the doorless entrance and peered at the browning autumn landscape below. Another man sat next to the pilot, map in hand, and directed the navigation.

The first man was Herbert L. Varnon, chief of the Army Missile Support Command Post Engineer Water and Sewage Maintenance Section. The door was off so he could clearly see the terrain and readily notice any spots of green vegetation among the drying grass and shrubbery on Redstone pastures and fields.

The navigator was Charles A. Knott, a handsome, thoughtful-looking young man who is chief of the Post Engineer Sanitation Branch. His map, which is scarcely needed because he knows the route so well, showed the 178 miles of pipe lines that carry water all over Redstone for both domestic and commercial use.

Why the significance of green spots of growth? They mean a leak in the line.

"However," Knott says, "there have been very few breaks or leaks in the system. But the plane affords the most efficient way to check because much of the line runs in places not accessible by surface transportation. Even with a jeep, we couldn't cross some of the gullies or go over farmers' fences. With a plane, we finished the inspection job in less than an hour."

Another passenger on the plane was W. C. Lawhorn, water treatment plants foreman. Lawhorn is a real old-timer at Redstone. He came to work as an operator when Plant No. 1 opened in 1942. "It was almost my home for 17 years," he said. He moved to Plant No. 3 in 1959.

Lawhorn is a walking encyclopedia of information on water treatment and plant operation. Trying to add something to his information on these subjects would be like carrying crocodiles to the Nile!

It takes only 17 men to run Redstone's three plants which pump billions of gallons of water annually, and Lawhorn is proud of

his crew and the length of service many of them can boast. For instance, James L. Fretwell, John Scarbrough and Ira Lawhorn have been working in water plants since 1942, Roy Webster, lead foreman, since 1943, Ernest C. Lamb since 1944, Prince Weiler since 1946, Henry Fanning since 1947 and Raymond Foster since 1950.

Other skilled operators with less service include Joseph Reneger, Wallace Holcomb, Whitney S. Brewer, David L. Cantrell, Raymond Swaim, John L. Conkle, Joseph E. Miller and Ernest L. Buchanan.

Two of the plants are down on the Tennessee River on the Arsenal's southern boundary, and the other plant is approximately in the middle of the arsenal. Together they have the capacity to furnish 34 million gallons of industrial water and nine million gallons of domestic water per day.

In 1964 alone, 1,474,113,000 gallons of water for domestic use flowed through the lines. The total gallons of industrial water topped five billion.

Domestic water is the kind you drink, and received several more steps of treatment than the industrial supply. The water is pumped in directly from the surging Tennessee River and put into a settling basin. Subsequently it is filtered and chlorinated. Other chemicals are added to assist in the filtration and to make the water clear and bacteria free.

Alum is used to clear the water and is part of the settling process. Phosphate and caustic are added to adjust alkalinity of the water to cut down on pipe corrosion and scale formation. The chlorine disinfects and purifies the water and is a taste and odor controlling factor. Ammonia is a stabilizing agent for the chlorine, and fluoride is added to control tooth decay (it was first added in 1956).

Water samples are tested hourly, and the water that goes out into domestic lines is truly sparkling, crystal clear, and pure before it leaves the treatment plant.

Knowing just how much of each chemical to use takes skill and experience. Lawhorn says the men have been doing this work so long that they have it all down to a fine point. "In some cases, we

can just about tell how the water is going to test by looking at it," he said.

"All this know-how contributes to savings in plant operation," Knott said. We save through careful utilization of manpower, and close surveillance of the amount of chemicals used. Chemicals run up the cost of water treatment, and

adding more than necessary would be wasteful, expensive and useless.

"We've managed so well," he added, "that we run the most economical water treatment operation of this type in the Third Army area."

The whole history of Redstone

can be traced by the records of amounts of water used through the years. Water usage climbed from 1.9 billion gallons of industrial water in 1942 to 5.7 billion in 1944 at the height of World War II production. In 1946, it fell to 516 million.

(See WATER on Page 6)



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Water Treatment At Arsenal Takes Versatility

WATER

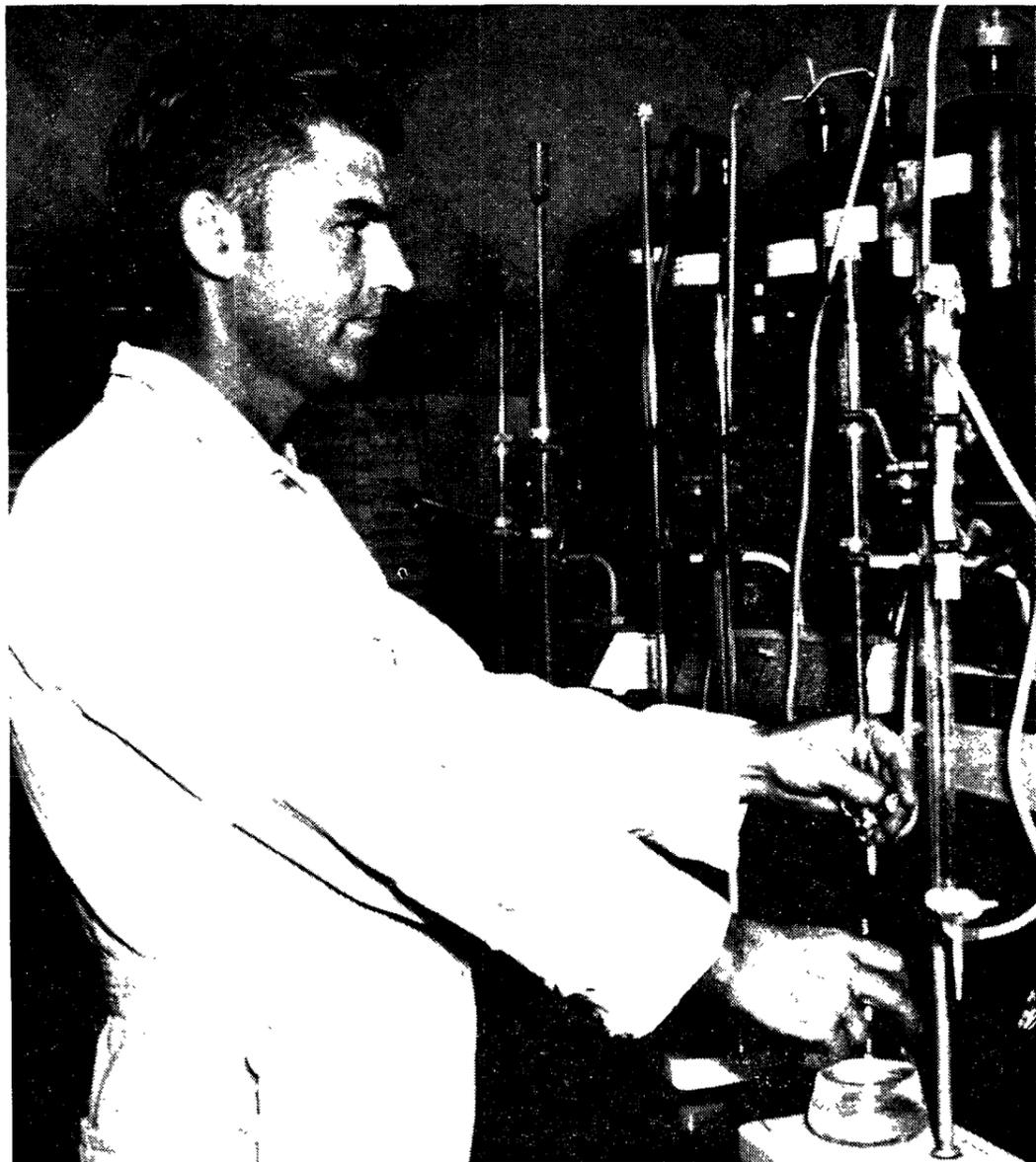
(Continued From Page 5)

The Korean conflict brought another rise, and then the missile and rocket missions got into high gear piling the score ever higher. The same trend is reflected in the

use of domestic water.

So far, the maximum amount of domestic water used in one day was July 10, 1962 when 6,291,000 gallons of domestic water went through the system. The next day, usage of industrial water hit a peak of 32,413,000 gallons.

(See WATER on Page 7)



TESTING, TESTING—Wallace Holcomb runs a residual test on domestic drinking water at one of the water treatment plants operated by the Army Missile Support Command Post Engineer on Redstone Arsenal. Samples of water are tested ever hour to insure that proper amounts of chemicals are being added for purification.



MILLIONS OF GALLONS A DAY—Roy Webster, lead foreman, checks the flow chart at water treatment Plant No. 1 to see how much industrial water is being pumped through the 36-inch main at this location on the Tennessee River. Industrial water is used for fire fighting, air conditioning, cooling in missile test towers and by industrial lessees. The Army Missile Support Command Post Engineer runs the three water treatment plants on Redstone.



WATER TREATMENT PLANT OPERATORS are, back row, left to right, John W. Scarbrough and John L. Conkle. Front row, Ira A. Lawhorn, Joseph E. Miller, Ernest Lamb and Raymond Swaim.



DOWN AT PLANT NO. 1—Whitney S. Brewer, an operator employed by the Army Missile Support Command Post Engineer, checks the filter controls at the first water treatment plant built on Redstone in 1942. Note the use of marble in the base and top of the instrument console which marks the era before the perfection of plastic products for such purposes. This plant has the capacity for treatment of 22 million gallons of industrial water and three million gallons of domestic water per day.



IT TAKES LAB WORK—A veteran of almost 20 years in water treatment plant operation, Henry Fanning, runs tests in the laboratory at Plant No. 1. There's much, much more to running a plant than making sure the pumps function and the lines are maintained in good repair. The water that is supplied must be the best whether for domestic or commercial use, so quality is a watchword. The Army Missile Support Command Post Engineer manages the water treatment plants.

Pollution Prevention Portends Potable Water

WATER

(Continued From Page 6)

Industrial water is used for fire fighting, air conditioning, cooling at rocket and missile test towers and by industrial lessees.

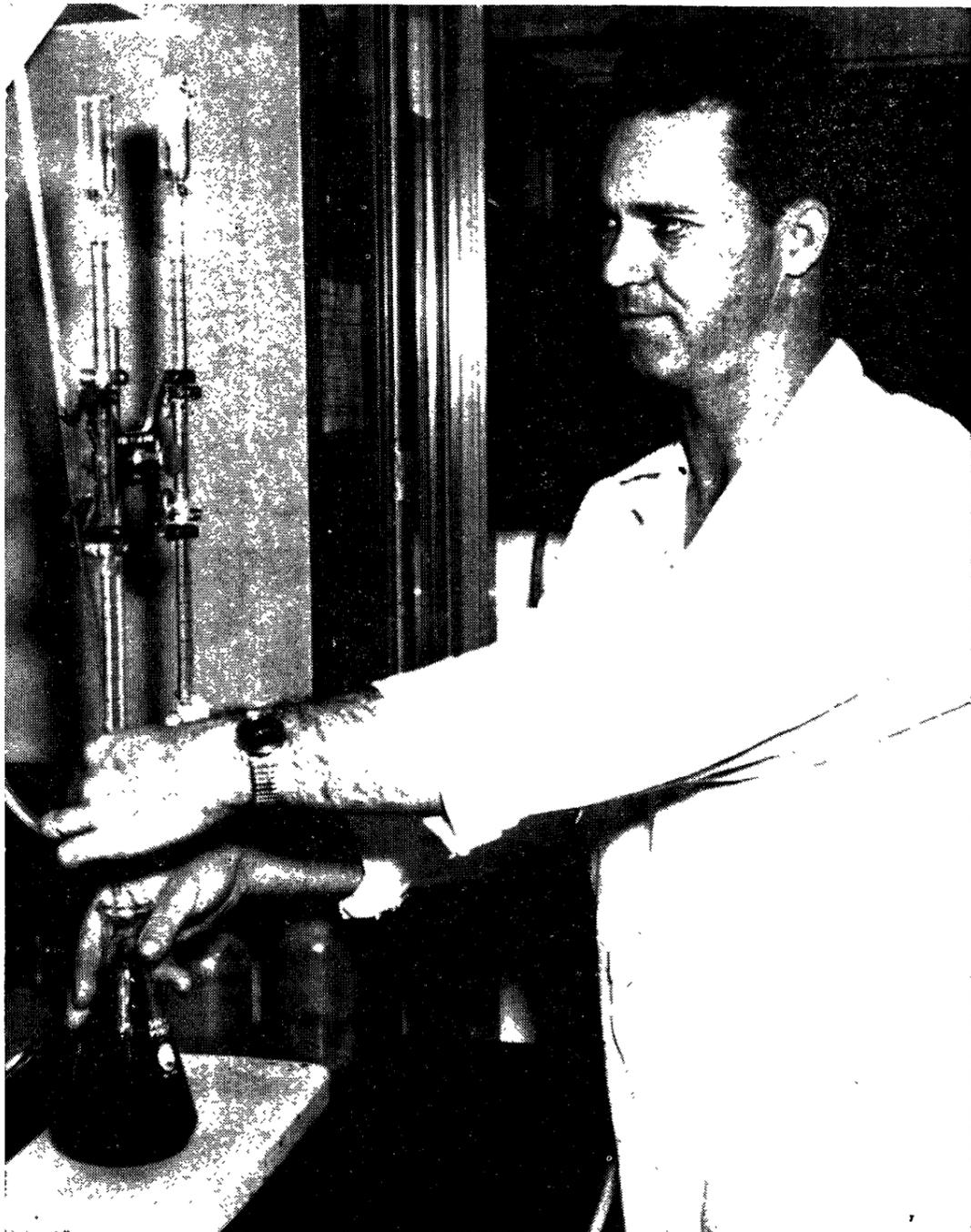
When the Tennessee River

floods, the men who work at Plant No. 1 have often had to get a boat to reach their destination—the water plant is perched well above flood stage, but part of the road has been too low to escape at times.

Redstone is one place that can claim that, with "Water, water, everywhere" there's plenty of water to drink.



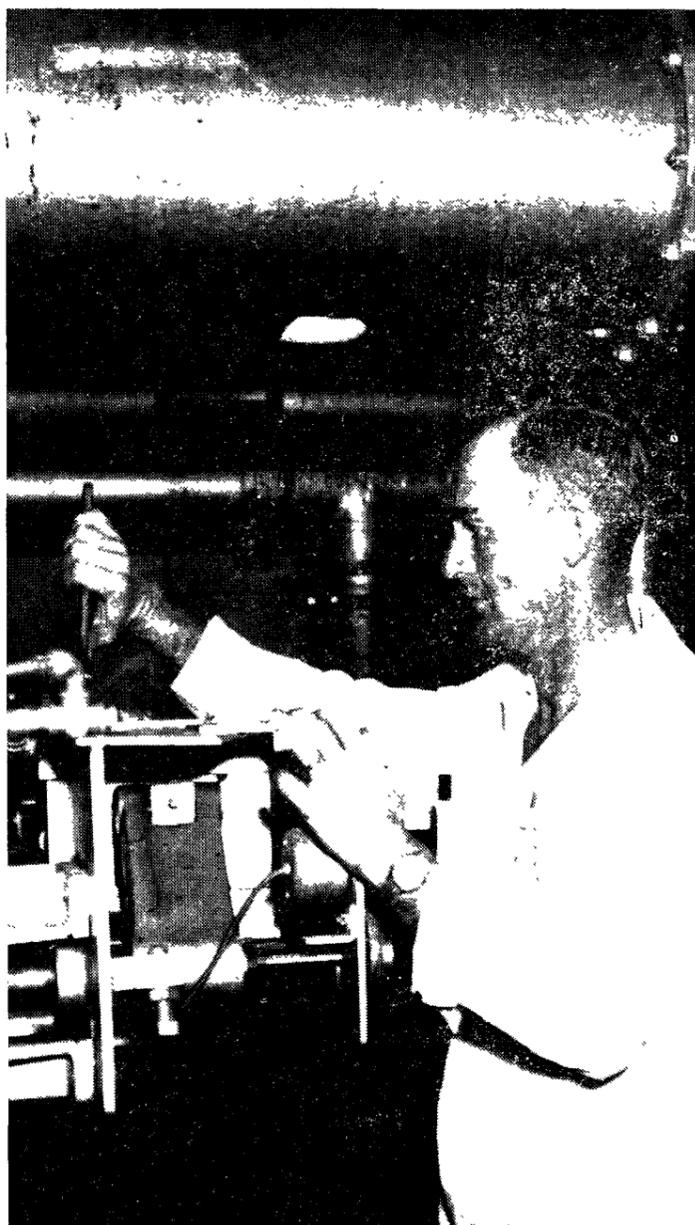
LET'S GET JUST THE RIGHT AMOUNT—Prince Weiler, who has been working in the Army Missile Support Command Post Engineer water treatment plants since 1946, makes a careful adjustment of the feed of chlorine into the water system. Chlorine disinfects and purifies the water and is a taste and odor controlling factor.



READING THE GAUGES—David L. Cantrall is testing water samples to determine the chlorine residual in water being treated for domestic use at Redstone. He is one of the skilled plant operators employed by the Army Missile Support Command Post Engineer.



THE BOSSES—Charles A. Knott, left, chief of the Post Engineer Sanitation Branch, and W. C. Lawhorn, water treatment plants foreman, read the charts beside one of the filtration tanks at Plant No. 3 where the capacity is six million gallons of domestic water per day. This is the newest of the three plants, which combined, can pump 34 million gallons of industrial and nine million gallons of domestic water per day. All plants are immaculately clean in every nook and corner.



IN THE PIPE GALLERY—On a lower level of water treatment Plant No. 3, Ernest L. Buchanan, works on one of the devices used to pump water through the gallery of manmoth pipes which are part of the system. With the roar of rushing water and the beat of gigantic pumps as a background, the pipe gallery can take on an eerie atmosphere. The Post Engineer of the Army Missile Support Command runs this show.

SOCIAL ^{and} CLUB EVENTS

Brunch And Cards Draw Wives For Social Day

Brunch and cards were the order of the day at the February meeting of the Redstone Arsenal Officers Wives Club last week at the Officers Open Mess.

Red azaleas were centered on the serving table. Approximately 140 members and guests attended the brunch.

Following that three tables of canasta were in competition with Mrs. A. C. Millner and Mrs. W. M. Culver the winner and runnerup

respectively. Twenty-one tables of bridge were in play. Winners were Mrs. W. K. Gillmore, first; Mrs. Lela Mullins, second; Mrs. Z. C. Layson, third; Mrs. Arthur Woodward, fourth and Mrs. W. A. Brooks, fifth.

Hostesses for the event were wives of retired officers: Mrs. O. M. Hirsch, chairman; Mrs. R. C. Leech, Mrs. H. M. Murray, Mrs. H. F. O'Meara, Mrs. R. L. Crossman and Mrs. A. C. McDermott.



MISS JULIA ANN EIFLER

Miss Eifler's Engagement Is Announced

Brig Gen and Mrs. Charles W. Eifler, 7 Wadsworth Drive, Redstone Arsenal, announce the engagement of their daughter, Julia Ann, to William Joseph Roberts, son of Mr. and Mrs. William J. Roberts of West Wyoming, Pennsylvania.

The bride-elect is a graduate of Butler High School and a senior at the Pennsylvania State University where she is studying Merchandising of Home Furnishings. She is a member of Alpha Delta Pi social sorority.

The bridegroom-elect is a graduate of West Wyoming High

Mrs. McCollum Mrs. Davis Tie At Bridge Table

The Thursday Bridge Group sponsored by the Redstone Officers Wives Club had eleven tables in action last week at the Officers Open Mess.

Winners were Mrs. William McCollum and Mrs. Jess Davis tied for first; Mrs. Harry Gorman, second.

Reservations to play with the group are handled by Mrs. R. U. Scott.

School To Welcome Newcomers At Party

An Ordnance Guided Missile School party an official social function for new arrivals and departing officers, will be held Friday (Feb. 19) at 7 p.m. at the Redstone Officers' Open Mess.

Assigned officers, student officers and civilians entitled to club attendance are invited to the get-together, according to the Office of Logistical Support, sponsor of the event.

Business suits with name tags are preferred for men; name tags for ladies will be provided at the club, it was announced.

Crabtree Honored By Fellow Workers

Co-workers of Charles L. Crabtree, senior instrument maker in the Directorate of Research and Development's model shop, honored him at a party Friday night at the Redstone Officers Open Mess.

The event was scheduled as a part of retirement festivities for Crabtree who intends to live on his farm near Chattanooga. Approximately 40 of the Propulsion Laboratory staff attended. A veteran of World War I, Crabtree has worked at Redstone for the past nine years.

He has two sons and a daughter living in Chattanooga.

School. He is a senior at the Pennsylvania State University and is a member of the American Institute of Physics.

A summer wedding is planned.

ACCOUNTANTS WILL MEET

The Huntsville Chapter of the Federal Government Accountants Association will meet tomorrow night at 7 p.m. at the Redstone Officer Club.

Guest speaker will be Leonard M. Brockman, special assistant for Labor Relations, U. S. Army Missile Support Command, Brockman will speak of current concepts in Labor/Management Relations, as applied to Federal Financial Management Personnel.

Brockman is a graduate of Pennsylvania State University and holds a B.S. degree in Education and a MA degree in Political Science. In addition to Brockman's degrees in the above fields, he was awarded the Meritorious Civilian Service Award, the American Legion Distinguished Citizenship Award and numerous citations from citizen groups and national welfare agencies.

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MRS. SAHOLSKY, MR. McBREARTY WIN AT BRIDGE

Mrs. B. A. Saholsky and C. McBrearty won at Monday night bridge last week at the Redstone Arsenal Officers Open Mess.

Runnersup for the women and men among the 14 tables in play were Mrs. Robert T. Hall and 1st Lt. T. Uemura.

Mrs. R. U. Scott handles the reservations to play with the group.

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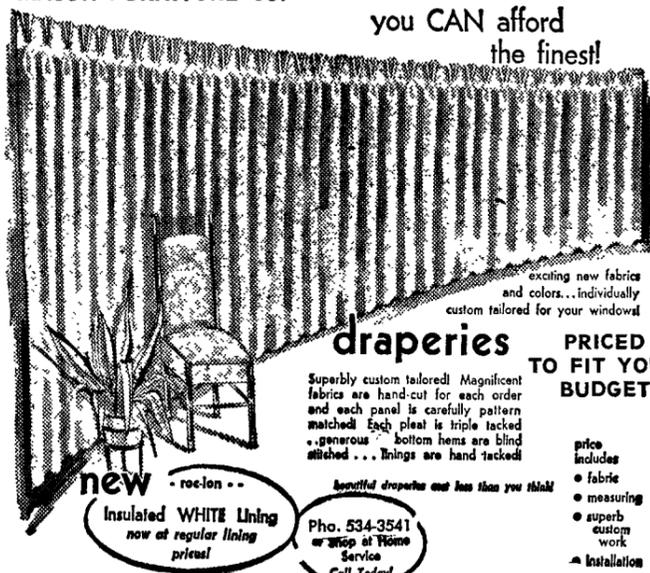
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INSTALLS SPORTSMEN OFFICERS—Chaplain (Lt. Col.) Donald F. Carter (right) hands the gavel to the president of the Redstone Arsenal Sportsmen's Club, SFC Eugene C. Pettinger, during the dinner and installation meeting at the NCO Club last week. Other officers (left to right) are: Capt. Estel M. Hobbs, third vice presi-

dent; Gunnery Sgt. Irving C. Latham, second vice president; SP6 James C. Stinson, secretary; Lt. Frederick R. Pinkerton, first vice president; SFC Pettinger; SFC Joseph E. Cormier, treasurer, and Chaplain Carter.

Officers For Sportsmen Installed At Dinner Meet

The Redstone Arsenal Sportsmen's Club installed officers at a dinner meeting at the NCO Club last week. Chaplain (Lt. Col.) Donald F. Carter was the installing officer.

The new president is SFC Eugene C. Pettinger; first vice president, 1st Lt. Frederick R. Pinkerton; second vice president, Capt. Estel M. Hobbs; third vice president, Gunnery Sgt. Irving C. Latham; secretary, SP6 James E. Stinson; and treasurer-custodian, SFC Joseph E. Cormier.

Thomas Atkeson, manager of the Wheeler National Wildlife Refuge, was the guest speaker. He traced the history of the wildlife refuge from its conception to its present development as one of the five hunting areas in North Alabama. He commended the Arsenal sportsmen for the program of conservation they have undertaken.

Membership in the club is open to all active and retired military personnel in this area. Details can be obtained from S/Sgt. D. L. Carrol, 877-3436.

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WEDNESDAY, Feb. 17
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THURSDAY-FRIDAY, Feb. 18-19
"Tom Jones" (M)
SATURDAY, Feb. 20
"Mara of the Wilderness" (F)
SUNDAY-MONDAY, Feb. 21-22
"Rio Conchos" (M-YP)
TUESDAY, Feb. 23
"The Unsinkable Molly Brown" (F)
Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

Births At Post Hospital

Caroline Drissel, 7 lbs. 1 oz., Feb. 1, daughter of Maj. and Mrs. Don J. Drissel.
Carl Anthony Palmer, 7 lbs., 13 ozs., Feb. 6, son of Ret CWO and Mrs. Harry D. Palmer.
Kathryn Dianna Manley, 7 lbs., 14 ozs., Feb. 7, daughter of SSGT and Mrs. Owen D. Manley.
Larry Hubern McCullough Jr., 6 lbs., 3 ozs., Feb. 8, son of PFC and Mrs. Larry H. McCullough.
Katrina Leigh Johnson, 7 lbs., 1½ ozs., Feb. 8, daughter of CWO and Mrs. Marvin R. Johnson.
Vivian Billy Moeller, 8 lbs., 1 oz., Feb. 8, daughter of M/SGT and Mrs. Karl H. Moeller.
Angela Mabelle Ross, 9 lbs., 3¼ ozs., Feb. 8, daughter of 2/LT. and Mrs. Robert S. Ross.



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Redstone Rockets Roarin' For Revenge Tonight

Losing their first three encounters, the Redstone Rocketeers hope to even the slate with a trio of games on their home

court this week. Oakwood College comes to the Post Gym for a 7 o'clock game tonight and Ft. McClellan moves

in for a pair on Friday evening and Saturday afternoon.

The Rockets will be looking for a bit of revenge in the pair with McClellan for it was the Anniston-based five that started the locals on their skid with a pair of setbacks.

The Brown Engineers, kingpins of the Huntsville Industrial league, made it three straight with a stinging 109-67 defeat last Friday.

Mel Anderson, playing coach of the Rockets, said earlier in the week that he wasn't overly distressed over the losses since they were administered by a pair of real fine ball clubs.

In each of the games Anderson has had the opportunity to shift his personnel around freely as he has attempted to find the right combination before the Rockets enter the Third Army Tournament late in March.

Seven of the Engineers scored

in double figures as the Brown five took an early lead and continued to expand their margin throughout the game. Frank McMillan was the only Rocket to hit with any degree of consistency and he ended the evening with 21 points.

The man that the Rockets will have to stop if they are to have any success with the McClellan five this week end is Frank Blomquist.

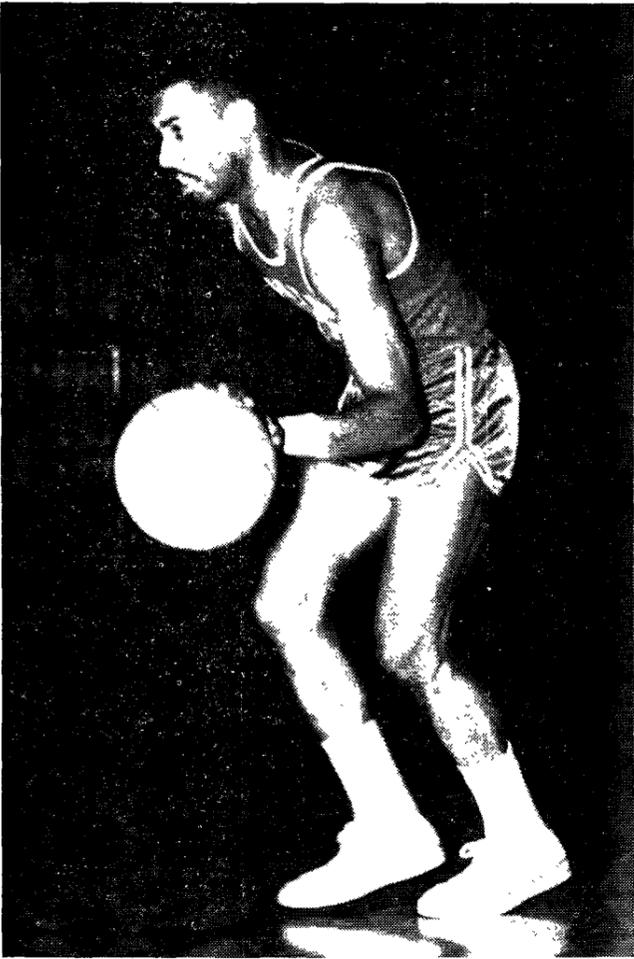
The tall marksman hit for 27 points in each of the games played earlier on the McClellan court.

Each time the Rockets were victimized by an extended dry period. In the opener McClellan took an early 15-point lead and protected it all the way for an 84-68 win.

In the Saturday game the two teams battled on even terms through the opening quarter with the home team leading 23-22. But the second period was a different story as McClellan poured 31 points through the net while the Rock-

ets were being limited to six. Once more the dry spell told the story with the final score being 105-72.

Ron Percifield was the leading Rocket scorer in the opener with 22 and Mike Stuart scored the same to set the pace in the second game. McMillan hit for 17 in one game but was only able to connect for 8 in the other.



DOUBLE DUTY—Star playmaker of the Rocket basketball team, Mel Anderson doubles as the playing coach. He will lead his mates onto the floor in three games this week. Oakwood College will play here tonight and Ft. McClellan comes in for a pair of weekend games on Friday evening and Saturday afternoon.

German Airmen Trounce Columbia Military Academy

The powerful OGMS German Air Force soccer team sank Columbia Military Academy 19-3 on a muddy Missile School field.

In a return match, Columbia attempted to better a 15-0 beating suffered at the hands of the OGMS seasonal champions. Following the match, S/Sgt. Siegfried Schroeder, captain of the local crew said, "We are accustomed to playing on muddy fields in Europe, the Columbia men are used to hard fields. It was more difficult for them this time, but they got three points past us. In soccer, that is very good."

Schroeder said it was obvious that the younger Columbia players had learned various techniques used by the German Air Force men. "Had we been playing on a hard field, I know we would have had to work twice as hard."

The GAF champs are slated for a match in Nashville Feb. 26 against the International Soccer Team.

SKIERS PLAN OUTING

The Huntsville Ski Club will meet at the Naval Reserve Center at 7:30 p.m. tomorrow night to plan a weekend at Cattaloochee, N.C.

The skiers will charter a bus for the trip. Discussion will center around the charter trip. A film of the trip in January will be shown.

Interested persons who want to attend can gain details from Gen. Lewis, 539-8950. At present the membership in the club is about 90.

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3901 VOGEL DRIVE

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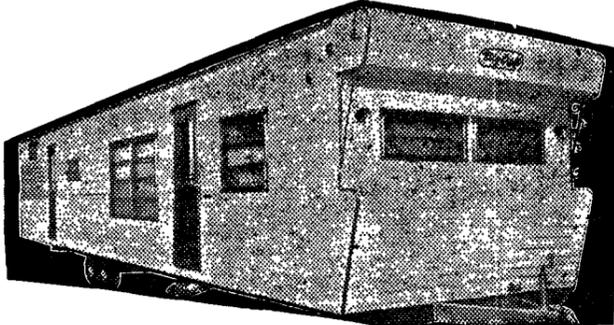
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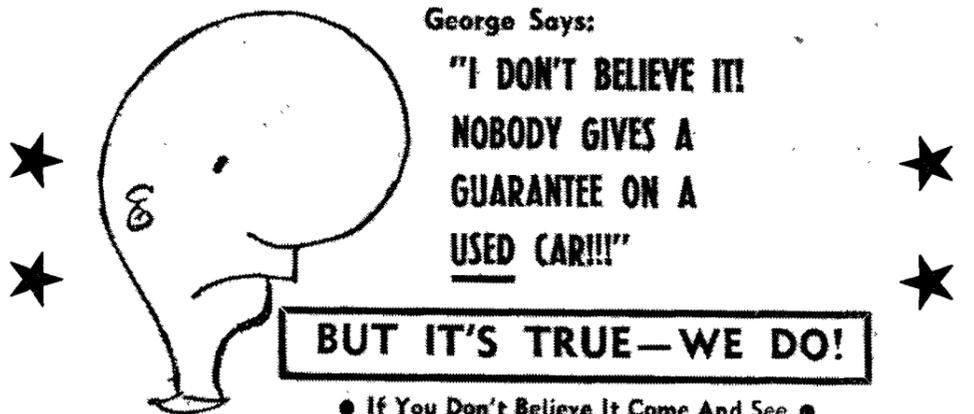
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Players Use Zero Defects To Win Games

If Zero Defects is good enough for production of military material, why shouldn't it be useful in other fields? A letter recently received at the U.S. Army Missile Command proves that it is.

Zero Defects is a program of encouraging workers to eliminate production errors to begin with rather than having to go through the long and costly process of correcting mistakes after they take place.

Early the past summer the Army Missile Command held a Zero Defects seminar at Redstone Arsenal during which 300 industrial executives in missile-related industries were briefed on the program.

Since that time, the Missile Command's Quality and Reliability Management Office has been the center of management for Department of Defense Zero Defects Program. George E. Fouch Deputy Assistant Secretary of Defense (Equipment Maintenance & Readiness), has overall direction.

Time magazine published an article in November describing how the Zero Defects program was successfully used in Army missile programs. Vince Lombardi, coach of the Green Bay Packers, reportedly read the article to his players prior to their football game with the Cleveland Browns, which the Packers won by not making a single error.

Secretary Fouch, a former football player for Ohio State University and a fan of the Browns, followed up this game by sending a DOD Zero Defects brochure to Joan Ryan, wife of Brown Quarterback Frank Ryan. In his accompanying letter, Fouch pointed out . . . "Many of the basic ideas contained in the Zero Defects program . . . came from the football playing field . . ."

The brochure found its way to the desk of Brown Head Coach Blanton Collier.

On December 12, the Browns ran over the New York Giants to win the National Football League Eastern Division title.

One month later, in January, the Browns won the NFL Championship by trouncing the Baltimore Colts.

How did they come back to win these top games? By using Zero Defects.

Following the championship game, Coach Collier wrote Fouch to express appreciation for sending the brochure.

"I am completely sold on the Zero Defects program, not only as it applies to the Defense Department but also its application to football," Collier said.

" . . . I credit it with a major assist in the winning of the game . . . I explained (to the team) the 'do it right the first time' theory and explained that in a football play we had to adopt the slogan 'do it right every time' since we could not rerun the play . . ."

Literally hundreds of letters from industry, business, schools and other government agencies have poured into the Zero Defects nerve center at Redstone Arsenal asking for more information on

The MPs made a clean sweep of Unit Level basketball honors for the year last week when they added the post-season playoff title to their regular season crown.

The undisputed cage rulers captured the tournament with a 67-60 win over the Officers in the final game. It was the 17th win in an unbeaten season, and marks the first time a team has been able to complete an undefeated season in Unit Level basketball play.

The Officers earned the right to challenge the MPs in the tourney finals with a 52-42 conquest of C Company after the latter had elim-

inated Hq STC with a 69-48 victory.

It was the third unsuccessful attempt to derail the MP express by the Officers, who also trailed the leaders in the regular season standings.

The two finalists battled on virtually even terms through the first half with the MPs holding a slim 33-31 lead at the intermission. Tony Cerna fired a trio of fielders to open the second half and Mike Stuart added two more as the winners opened a 12-point bulge midway in the third period.

With Johnny Bowen in the leading role, the Officers staged a gallant comeback that closed the gap to three points with less than four minutes on the clock. But when Bowen picked up his fourth personal the Officer hopes all but disappeared.

Cerna led the winning attack with 20 points, Stuart added 16 and Ron Percifield collected 15. Bowen tallied 21 of the Officer points and Dave Collier hit for 16.

the program.

K. E. Joy is chief of the Missile Command's Quality & Reliability Management Office and served as Executive Director of the Two DOD Zero Defects Seminars sponsored on a national level for industrial and governmental executives.



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Engineers Week Set February 21-27

National Engineers' Week, observed across the nation, is a tribute to professional engineers and their achievements. The week of George Washington's birthday, Feb. 21 to Feb. 27, is traditionally celebrated as Engineers' Week because the father of our country was first an engineer.

The Engineers' Week Committee of the Northeast Alabama Chapter, Alabama Society of Professional Engineers, with John R. Macintyre as committee chairman, has been working to make this year's observance an excellent one. Engineering for human needs is the theme for the week, and the role of the engineer and scientist in supplying this need will be highlighted by press, radio and television news releases.

The week will begin with displays by local merchants of engineering exhibits donated by aerospace firms. Engineers are scheduled to speak to the students of the local high schools on various as-

pects of the role engineers play in our society. A panel of three engineers will discuss the local chapter's scholarship fund, opportunities for women in engineering, and the functions of the local, state and national societies. The members of this Lance Project, President-elect of the Alabama Society of Professional Engineers.

Chapter President R. T. Gilbert has announced that the week's observance will end with a dinner-dance at the Redstone Officers'

Open Mess. Awards will be given to outstanding engineers of the Engineering and Professional Societies, and a talk on professional engineering will be presented. Guest speaker for the occasion will be Charles F. Savage, manager, Engineering Placement and Professional Relations, General Electric Company, Syracuse, N.Y. Proceeds from the dance and contributions from local aerospace firms will be added to the Chapter Scholarship Fund.

Bids Asked For Building Gas Mains

Army Engineers will receive bids on March 4 at the Corps of Engineers district office at Mobile for converting facilities at Redstone Arsenal, to the use of natural gas.

The job, which will be an exten-

sive one, will include the construction of new gas mains, service lines, and gas metering stations; the conversion of steam boilers, hot water boilers, packaged boilers, and forced-warm-air furnaces to natural gas; and miscellaneous electrical work.

The contract has been set aside for award to a small business concern in the interest of assuring such firms a fair share of government contract work.

Editor Will Talk To Graduates

Norman Bradley, associate editor of The Chattanooga, Tennessee, Times, will be the principal speaker at a graduation ceremony of the Army Ordnance Guided Missile School here Friday (Feb. 19).

The veteran newsman will address one of the largest classes in Missile School history as more than 100 Belgian, German, Greek and U.S. Army and Marine Corps officers, warrant officers and enlisted specialists receive diplomas at the exercises in the Post Theater.

Born in Flora, Miss., Mr. Bradley was educated at Millsaps College in Jackson and then served with the Associated Press for more than a decade in a number of Southern cities, including Atlanta, Nashville and Little Rock.

He joined The Chattanooga Times, as an editorial writer in 1947 and has been with that paper since, with the exception of several months in 1954-55 when he served as editor of the newly established Jackson, Miss., State-Times.

Mr. and Mrs. Bradley will be honored by Col. William J. Macpherson, Missile School commandant, at a reception and dinner at the Redstone Arsenal Officers Open Mess on Thursday evening to which representatives of local news media have been invited.

Officers Assigned

The Ordnance Guided Missile School's Department of Individual Training, Missile Components and Training Literature Branch gained a number of new officers recently.

New officers at DIT include Capt. Moarion Heeke of Atlanta, Ga.; Capt. James P. Mooney of Somerville, Mass.; 1/Lt. Robert A. Goodwin of Houston, Texas; 2/Lt. Peter Gutter of Woodside, Calif.; and 2/Lt. Paul Ramsden of Warren, R. I.

Second Lt. Donald Hall of Whitinsville, Mass., joined the Missile Components Division, and CWO Melvin R. LaPoint of Rumford, Maine was assigned to the Training Literature Department.

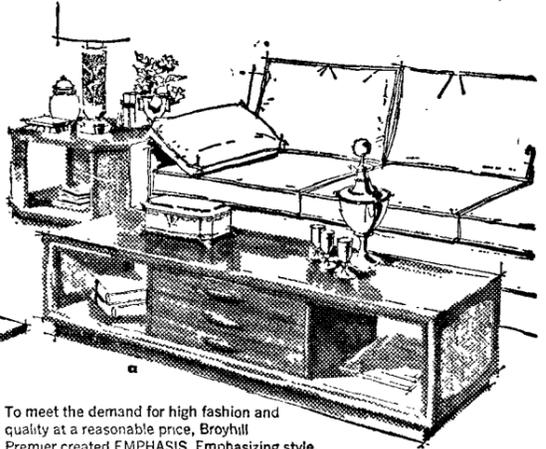
March 1, 1961—The Peace Corps, comprised of U. S. men and women volunteers for service in under-developed foreign countries, was established. R. Sargent Shriver was designated Director.

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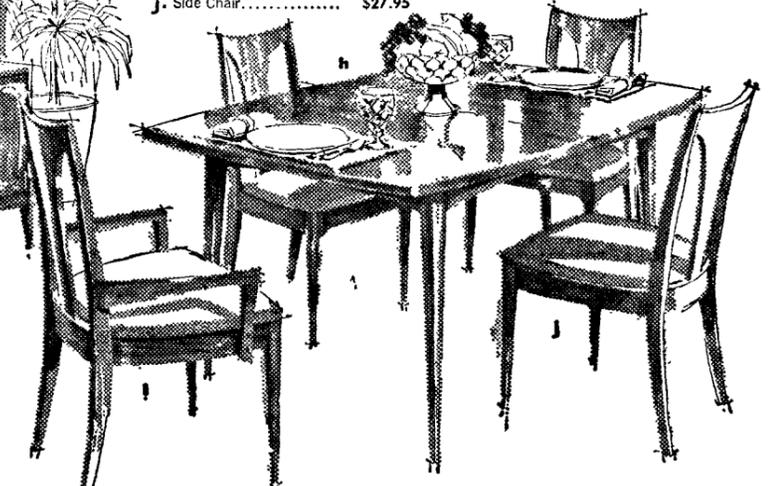
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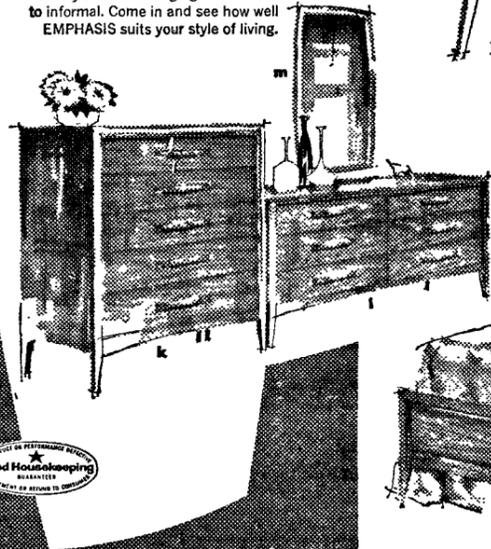
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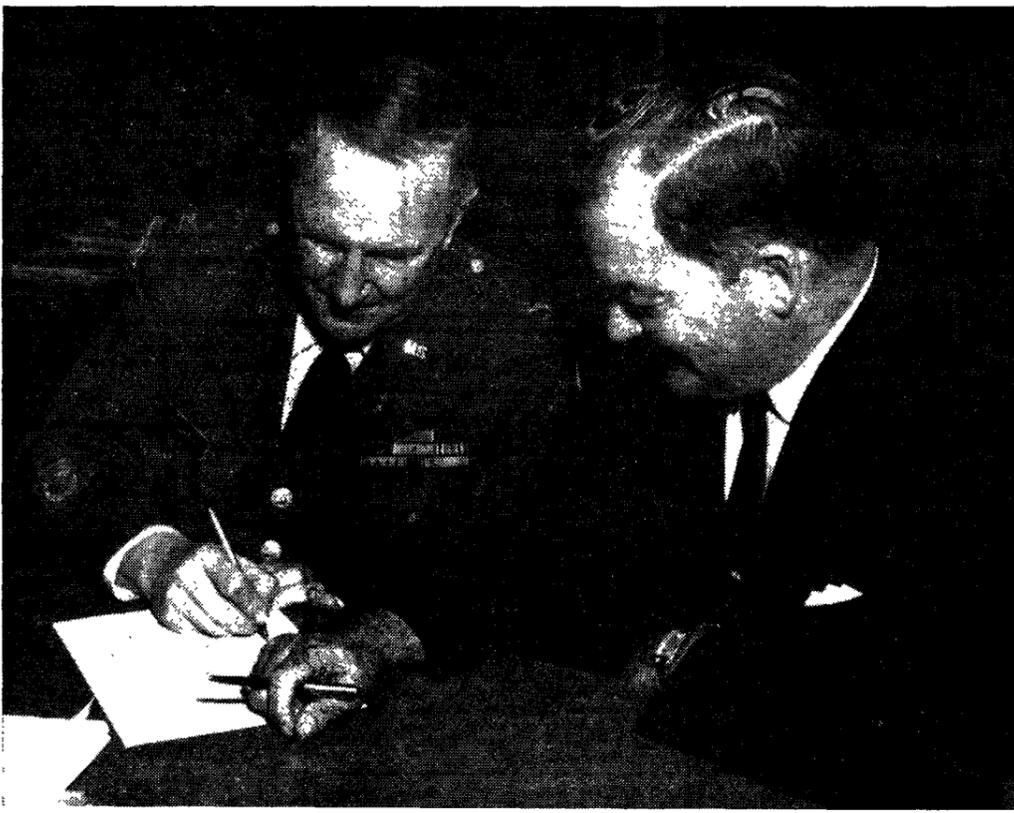
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LABOR AGREEMENT INKED—Col Thomas W. Cooke, Commander, Army Missile Support Command, signs a new labor agreement covering AMSC employees. The agreement now is operative, but must be approved by the Department of the Army before it is binding. It was arrived at after seven days of negotiations by a 12-man committee. Waiting his turn to sign the document is Dennis Garrison, representing Lodge 1858, American Federation of Government Employees.

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MAJ. GEN. R. H. CURTIN

Gen. Curtin To Be Speaker At SAME Dinner Tomorrow

The Huntsville Post of the Society of American Military Engineers will meet tomorrow night at 6:30 p.m. for dinner and a meeting at the Redstone Officers' Open Mess.

Maj. Gen. Robert H. Curtin, Director of Civil Engineering, Headquarters, U.S. Air Force is scheduled to speak on "Military Engineering as a Career."

This is the annual student night meeting, aimed at increasing interest of high school students in an engineering career.

Gen. Curtin is a native of Massachusetts and a graduate from the United States Military Academy, class of 1939.

He has served in Europe and in the Pentagon among other assignments and has been awarded the Legion of Merit for work he did while assigned to the Directorate of Installations, Headquarters, Washington, D.C.

Missilemen Lob Four To Graduate

A United States Army Pershing missile battalion has been graduated with the firing of the last of four missiles on White Sands Missile Range in Southern New Mexico.

The final launching was made last Thursday by troops of the Second Battalion, 79th Artillery at Ft. Wingate, N. M.

The four missile firings over the past two weeks were graduation shots by troops of the Ft. Sill, Okla., trained battalion.

Pershing is the Army's two-stage, solid propellant ballistic missile with a range of 100-400 nautical miles. It is in use by U. S. and Allied troops. The missile system is directed from the Army Missile Command at Redstone Arsenal, where Col. Edwin I. Donley is Project Manager.

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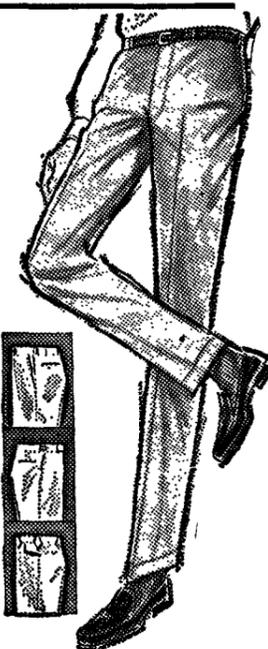


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Page 14 The Redstone Rocket — February 17, 1965

1 For Rent

WANTED—Settled lady to share two bedroom modern apartment in nice section of town. Conveniently located—2408B Whitesburg Drive. Virginia Daniel, 842-3200 or 539-9067. 1-t-p

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2 BEDROOM TRAILER FOR RENT, air conditioned, central heat, \$90.00 month. Convenient to Gate 9, phone Mrs. McClellan 837-1309. 2-17-c

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964-65 models. Ph. 536-9761 Central TV and Stereo Co., corner Governor's Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. tfc

OFFICE SPACE FOR RENT—Parking located 2008 Triana Blvd. Call 539-7421. t-f-c

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2. Cars For Sale

FOR SALE—1960 Pontiac, 4 door, radio, and heater, whitewall tires. Better than average condition. Phone 732-4315, or 232-4864. 3-10c

FOR SALE—1961 Ford Econoline Van in real good condition. Ideal for camping or work horse. Will accept any reasonable offer. Phone 852-1452 or 539-9625. 1tc

3. Miscellaneous

GOING INTO INSURANCE?—If you are considering entering the Life Insurance Business, you owe it to yourself and your family to check what the John Hancock can offer you. Write or call Mr. Martin at 534-4655 — 2109 West Clinton Building E.O.W. tfc

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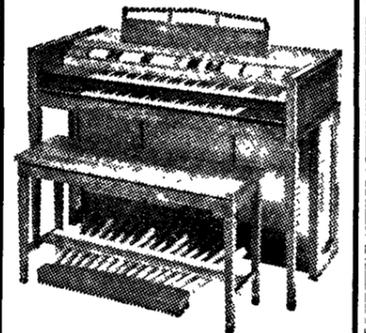
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6. Pets

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CITED FOR EFFORTS—Outstanding Executive Awards have been made to four employees of the Army Missile Support Command by Col. Thomas W. Cooke. Mrs. Betty Layton, Chief, Data Systems Branch, and Robert C. Newton, Chief, Ordnance Guided Missile School Account Division, Finance and Accounting Office (both on the left) were named principle winners of the awards. Gilbert Appler (right) Administrative Officer, Assistant for Personnel and Administration, and Marlon W. Cantrell (not shown) Disbursing Division, Finance and Accounting Office, received honorable mention certificates.

March 3, 1863—The U.S. Army first in the world to establish the Signal Corps, a predecessor of the position of Signal Officer and the U.S. Army Materiel Command, was first to have a separate Signal Corps established. Our Army was the

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At The Service Club

By BETTY HAYES

Are you wondering where you can spend your long week-end and save money? I have the answer for you—the Service Club. Kitchen kapers, a record dance, and an evening of games are on the program for the holiday week-end. Wait a minute! Let me back up and tell you the events in order starting with this evening.

Tonight, at 7 p.m., the Junior Hostesses will meet. Maybe you girls would like to be responsible for programs in the months to come. Come out and let's discuss these events for the future.

Attention bridge players! The main lounge will be reserved for you on Thursday evening, at 7:30 p.m.

Friday night, at 8 p.m., we have scheduled a table tennis contest. I know that most of you play table tennis because the equipment is constantly in use. Why not show your friends that you are a real table tennis champion!

Saturday afternoon, at 3:30 p.m., has been designated as coffee time.

On Saturday evening you will smell the aroma from the kitchen when Molly prepares a surprise menu for kitchen kapers, at 6 p.m.

Coffee and donuts will be served on Sunday morning, at 9 a.m.

Swing and sway to your favorite records on Sunday evening, at 8 p.m.

Since Feb. 22 is a holiday, coffee and donuts will be served on Monday morning, at 9 a.m.

On Monday evening try for the prizes at the evening of games, 8 p.m.

The Third Army Show, MERRILY WE ROLL ALONG, will take place next week. Check this column next week for the time and the date.

See you at the Service Club.

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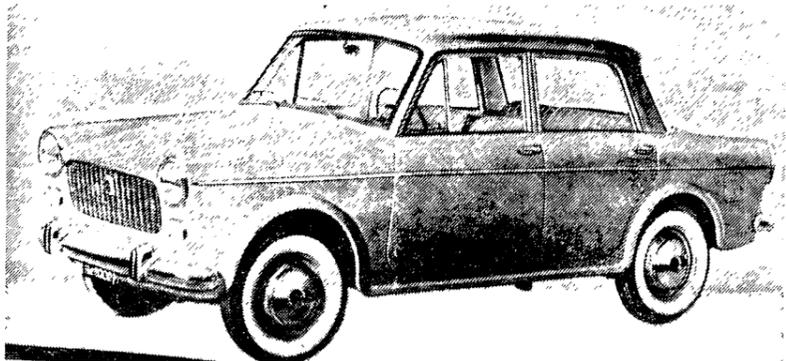
... With 43.23 Miles Per Gal. With an Amazing 51.718 Ton Miles Per Gallon.

3rd Place Winner

43.23 Miles Per Gal.

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Rohm And Haas Chalks Up Impressive Safety Record

The Redstone Arsenal Research Division of Rohm & Haas Company marked the completion of three years without a lost-time accident recently at a meeting of all employees. Maj. Gen. John G. Zierdt, Commanding General, U. S. Army Missile Command, was principal speaker. Gen. Zierdt pointed out that the division had worked almost two million accident-free man-hours and presented a challenge to keep the record intact.

Orville Loeffler, General Manager of the Redstone Division, gave a brief history of the Division's record. He pointed out that the three year milestone was reached "not just because there were no lost-time accidents, but because 232 dedicated individuals performed their complete job in a superior fashion."

Special guests at the meeting included Col. Thomas W. Cooke, Commander Army Missile Support Command; Col. B. A. Saholsky, Director, Directorate of Procurement & Production; Frank James, Director, Propulsion Laboratory; Lt. Col. Glenn Bass, Chief, Installation & Services Office; Tom Davidson, Head of Safety Division, Installations & Services Office, and Jack Haynes, Chief, Safety Division, Army Missile Support Command.

The program included a showing of a film on remote processing facilities developed by the Division for the safe handling of novel hazardous materials.

Completion of three years without a lost-time accident was also emphasized by the distribution of safety awards to all employees. "Although substantial, these awards are only a token of the Company's appreciation for a job well done," said Howard McGill, Safety Director of the local Division. "The real reward is the accident that didn't occur, the pain, suffering, loss of pay, inconvenience that people are not subjected to."

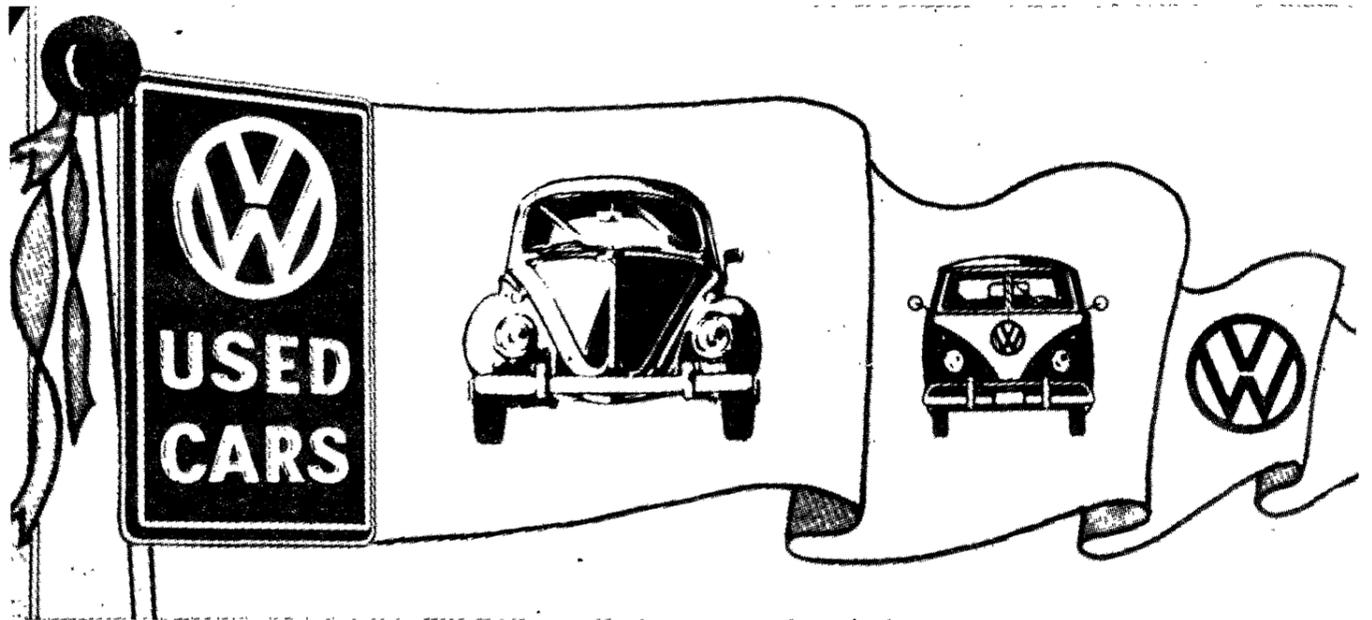
Rohm & Haas Company, a major chemical manufacturer in the United States, has operated pro-

pellant research and development facilities at Redstone since 1949. "During this time, although working with highly hazardous materials our overall safety record has been an enviable one," McGill continued. "The Division has pioneered in the development of new techniques for the safe handling of chemicals and explosives and in the evaluation of safety devices. For example, in 1958, we ran the first definitive tests on the ability of safety goggles to withstand flame and impact. The results of these tests were made available to protective equipment manufacturers and resulted in new developments in eye protection."

Rohm & Haas Company, parent organization of the local Division, employs over 10,000 people in plants at Philadelphia, Knoxville, Houston, and Louisville, Ky. It has an outstanding reputation for safety in the chemical industry.



SAFETY RECORD PRAISED—Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, congratulates officials of the Rohm and Haas Company for their impressive safety record. The plant at Redstone Arsenal has just completed three years without a lost time accident. From left are Buford Sanders, Earl McNeal, Solon Moring, Gen. Zierdt and O. H. Loeffler, General Manager of the Redstone Division.



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