

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. 42

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 3, 1965



FROM WATERTOWN TO REDSTONE—The Army Missile Command may add up to 100 employees from Watertown Arsenal, which will be closed down over the next three years. The first one to report, engineering technician William B. Stepp, is getting used to his new desk in the Procurement and Production Directorate at the Missile Command. Standing are Irving A. Laity, right, Chief of the Quality Assurance Division's Quality Engineering Branch, where Stepp is working, and Wilfred Davis, a co-worker who is helping him get settled in the community.

Watertown Man Transfers To Command Directorate

The first of 100 Watertown Arsenal, Mass., employees who have been offered positions at the Army Missile Command following announcement of plans to close the Massachusetts installation, has reported to his new job at Redstone Arsenal.

He is William B. Stepp, a 33-year-old engineering technician working in the Missile Command's Procurement and Production Directorate. Many more Watertown people are expected to follow him before the end of 1965, some to the Research and Development Directorate and some to the Supply and Maintenance Directorate.

Watertown Arsenal, which was under the Missile Command until

last June, had the mission of providing missile containers for the various systems managed from Redstone Arsenal. One-hundred-thirty people were involved in this mission, and 100 of them have been offered jobs here since Secretary of Defense Robert McNamara announced in November that Watertown will be closed by September 1967. Thirty have found positions at other installations.

Tuesday was the first day at work for Stepp, who is assigned to the Quality Engineering Branch Engineering and Quality Assurance Division, Production and Procurement Directorate.

Branch Chief Irving A. Laity has (See WATERTOWN on Page 3)

Safety Officials Attend Conference

Three Army Missile Support Command officials are in Tampa, Fla., this week attending the annual Southern Federal Safety Conference and Exposition.

They are Col. William Luk, Provost Marshal; and Ernest H. Haynes and Robert H. Seavers, Safety Division.

Seavers is on the planning committee for a workshop on traffic safety to be held during the four-day meeting which opened Sunday. Heading the workshop is Robert Tice, a safety officer at Redstone Arsenal until 1960. Tice now is working for the Department of Labor in Nashville.

Freeman Named Chairman Of Federal Service Drive

"As responsible Americans, all of us desire to see that our fellow men have a better chance for a fuller life," commented Orville Freeman on being named Chairman of the 1965 Federal Service Joint Crusade.

The Secretary of Agriculture was selected by President Johnson to direct the nation's appeal for funds to sustain the efforts of four private international service agencies. They are CARE, Radio Free Europe, Project HOPE and the American-Korean Foundation. "Each of these agencies," added Sec. Freeman, "helps in its own way to sustain the hopes and courage of the needy and oppressed overseas."

The Federal Service Joint Crusade is united with the eight National Health Agencies for the Joint Fund campaign that will be conducted at the Arsenal March 15 to April 16.

All of the FSJC member agencies are private, non-profit organizations depending upon the generous support of American citizens to help those in other countries to gain freedom from disease, poverty, starvation and oppression. Together they privately promote our nation's policy of helping others to help themselves to greater freedoms.

Last year voluntary contributions totalled in excess of \$2 million. Over 8,000 Arsenal voluntary contributors participated in the 1964 Joint Fund drive with donations totaling \$18,273.

CARE, through its many aid programs, fights starvation, poverty, disease and illiteracy throughout the world. In 18 years of operation, CARE has brought \$631 million worth of people-to-people aid to the needy of some 60 overseas countries.

The help provided through the generous contributions of Americans, has proven a very valuable supplement to our foreign aid program with direct and personal initiative.

Radio Free Europe is a free press in exile for 80 million captive peoples in the Soviet satellite countries of Poland, Hungary, Czechoslovakia, Rumania and Bulgaria.

To these captive people, RFE represents the strongest link with the truth and the free world; a link that we cannot afford to have weakened through lack of support. Project HOPE's medical ship (See FEDERAL on Page 3)

HIBEX Tested At White Sands

The Advanced Research Projects Agency Thursday fired a high-acceleration experimental missile booster (HIBEX) at White Sands Missile Range, New Mexico.

Due to the extremely high performance of the test booster, the flight created a noise which sounded much like a sonic boom.

ARPA officials said the missile booster, topped by a heavily instrumented second stage, was fired in a near vertical trajectory.

The test was one in a series of research experiments investigating high performance missile boosters.

The booster was assembled and launched by the Boeing Company, Seattle, Wash., under contract to the U. S. Army Missile Command. Hercules Powder Co. developed the solid propellant rocket motor for HIBEX under a subcontract to Boeing.

The HIBEX program is sponsored by ARPA, an agency of the Department of Defense. Today's test was in connection with ARPA's Project Defender.

Project Defender is the name for a series of investigations on techniques and concepts for bal- (See HIBEX on Page 3)

Army Funds Mauler Study

The U. S. Army has announced the award of a \$3,552,518 modification to a cost-plus-fixed-fee contract for the Mauler missile feasibility study. General Dynamics/Pomona, a division of General Dynamics Corporation received the award.

The work will be performed at the corporation's Pomona, Calif., plant.

Mauler, designed to engage high performance aerial targets in the battle area, is managed by the Mauler Project Office with headquarters at the Army Missile Command. Col. B. R. Luczak is the Mauler Project Manager.

The Los Angeles Procurement District will administer the contract.

Three Complete Thirty

Three Army Missile Command employees recently received certificates and pins in recognition of 30 years in government service. And one of the three, Mrs. Marguerite Linn, is believed to be the only woman employee at the Missile Command who has achieved this record.

Maj. Gen. John G. Zierdt, Missile Command Commanding General, presented the awards to Mrs. Linn, Thomas R. Peach and John J. Rega.

Mrs. Linn, a secretary in the Marine Corps Liaison Office, has worked for a number of government agencies during her 30 years of service.

A procurement analyst in General Support Operations of the Procurement and Production Directorate, Peach has been working at Redstone since May, 1958. He had two tours of duty with the Air

Force, and has worked at Maxwell Field, Ala., and for the Veterans Administration and the U.S. Treasury in Montgomery, Ala. During World War II, he was in Europe.

Peach is originally from Sheffield, Ala., and attended the McCallie School in Chattanooga, Vanderbilt University and Hampden Sydney College.

Rega is a retired Chief Warrant Officer, and is working as a supply data assistant in the Supply and Maintenance Directorate. He started working at Redstone in July, 1959, and is a native of Providence, R. I.

During his military career, he served with Artillery units. His last duty assignment before retirement was with the 46th Artillery at Ft. Sill, Okla. His overseas stations include the Panama Canal, the Southwest Pacific, Japan, Korea and Germany.



FOUR SCORE YEARS AND TEN—These three Army Missile Command employees, left to right, John J. Rega, Thomas R. Peach and Mrs. Marguerite Linn, have each had 30 years of government service. Maj. Gen. John G. Zierdt, right, Commanding General, Army Missile Command, recently presented certificates and pins in recognition of the employee's long terms of service. Rega is employed in the Supply and Maintenance Directorate, Peach in the Procurement and Production Directorate, and Mrs. Linn in the Marine Liaison Office.

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 only deadly sin I know is cynicism.
Henry L. Stimson

U. S. Constitution Ranks With World's Greatest Documents

In April, 176 years ago, George Washington was sworn in as the first President of the United States and the Constitution became the official law of the land.

In the years since its adoption, the Constitution of the United States has become one of the world's greatest documents. While providing for a strong centralized government, it guarantees the basic rights of the individual and the separate states. Young democracies throughout the world have used it as a model. Its flexibility and basic principles amid changing world conditions have proved so lasting that it has been amended only 24 times since its adoption.

Yet many of us take our Constitution for granted. Perhaps we wouldn't if we had been a member of one of the original 13 states when our nation was struggling to exist under the Articles of Confederation—its first attempt at a constitution.

The Articles served for eight troublesome years as our constitution. These years were marked by quarrels between the separate states who feared a powerful centralized government.

Under the Articles of Confederation, the federal government could declare war, make treaties, maintain an army and navy, and establish post offices but it could not levy or collect taxes, control foreign commerce or compel the states to obey its laws.

Quarrels among the states and fear of total collapse of the central government finally led to the Constitutional Convention at Philadelphia in 1787. The Articles were abandoned and a new agreement, the Constitution, was drawn up. It contained several compromises, such as dividing the legislature into two houses, with votes on the basis of population in the lower house and equal status in the upper house.

Remembering the weaknesses of the Articles of Confederation, and looking toward the future of our country, the Constitutional Convention produced a document recorded in history as a masterpiece of political forethought. A failure in itself, the Articles played an important role in our nation's history as forerunner of our present Constitution. (AFPS)



RECOGNITION—Maj. Shirley C. Gluck, newly assigned surgical nurse at the Redstone Arsenal U.S. Army Hospital, receives the certificate of achievement forwarded from Ft. Knox Army Hospital to the acting Hospital Commander, Maj. Mark Pfenninger. Maj. Gluck arrived on Valentine's Day, received the certificate Friday.



SAFE DRIVERS—Eleven drivers connected with the Medical Service were presented certificates for a year of driving without accidents by Maj. Mark Pfenninger, acting commanding officer of the U. S. Army Hospital at Redstone Arsenal. Left to right (back row) are: E. C. Bailey, Sgt. Eddie Sidon, Sp4 Larry Moody, S/Sgt. Stanley J. Skarzenski, Curtis Paul and Wilson William. In the front row (left to right) are: Sgt. Vandel Gann, Richard Graesser, S/Sgt. J. W. Berryhill, SFC Roberto Bitoni, and Stephen G. Pukie.

Maj. Gluck Takes Up Reins In Hospital Operating Room

Maj. Shirley C. Gluck, newly-arrived surgical nurse at the U. S. Army Hospital at Redstone Arsenal, preceded the certificate of achievement she earned during her assignment at the Ft. Knox Army Hospital.

Maj. Gluck came here Feb. 14 and the certificate was presented at an informal party Friday in the Hospital Mess. The ceremony included presentation of safe driver awards to eleven men connected with the Medical Service at the Arsenal.

Maj. Gluck is a graduate from the School of Nursing at Lebanon Hospital in the Bronx, New York.

Maj. Gluck served in the Army Nurse Corps in England during World War II, and then earned a bachelor's degree in education at New York University. Later she received a master's degree in education at Trinity College at San Antonio, Texas and studied a graduate course in operating procedures at Jewish Hospital in Philadelphia.

Although the Major had a six year break in service, she chose the Army because education and capability in the profession are recognized and accepted rather than exploited, a situation which confronted students she was teaching in a civilian hospital.

In the Army she has also done her share as an instructor. At Fort Knox she taught the applicatory

phase of operating room experience and established teaching programs for enlisted technicians.

She also taught at Brook Army Medical Center in San Antonio, Texas.

Maj. Gluck is well-suited for the role she played as a recruiter with

headquarters at Ft. McPherson in Atlanta. She travelled in Tennessee and the Carolinas, outlining the advantages of becoming an Army nurse. Her enthusiasm and trim appearance are compelling arguments for being an Army nurse.

Before she joined the staff at Ft. Knox, she spent three years in Landstuhl, Germany. Almost all of her experience has been in large general hospitals, and one of her sunniest assignments was in Hawaii.

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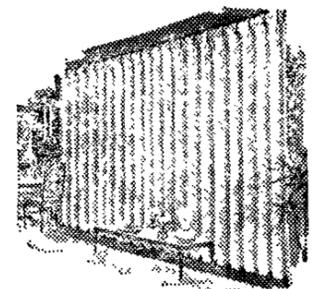
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TAKE OVER—James K. Fowler, Rufus Porter and Robert L. Powell represented the Army Missile Command when the Command took over the Birmingham Procurement District personnel assigned at the Martin Company, Orlando plant under the Plant Cognizance Program. From left are Ralph C. Connally, deputy chief, Orlando Branch office; Rufus Porter, personnel staffing specialist, Missile Support Command; Lt. Col. W. H. Boze, commanding officer, Orlando Branch Office; James K. Fowler, deputy assistant director, Procurement Operations, Directorate of Production and Procurement; Robert L. Powell, chief, Systems Contract Division, P&P; and John R. Lemna, chief, Operations, Orlando office.

Science Fair Slated In Huntsville

March holds great interest for Junior and Senior High School students of Science in Alabama because extracurricular science activity will be climaxed by judging individual efforts at the Eleventh Annual Regional Science Fair.

This year's fair is Mar. 11, 12, and 13 at the Madison County Coliseum sponsored by Alabama Academy of Science, and by daily newspapers in North Alabama, Athens College, Florence State

College, St. Bernard College and the University of Alabama in Huntsville, with the industries and scientific societies in North Alabama cooperating.

On Mar. 12, student members of the Junior Academy of Science will present papers at the University of Alabama, Huntsville Campus, in competition for state awards.

In addition to the benefits derived from scientific competition, both the Army Missile Command

and Marshall Space Flight Center have invited the more than 400 anticipated student participants from schools in Colbert, Cullman, Franklin, Jackson, Lauderdale, Limestone, Lawrence, Madison, Marion, Marshall, Morgan and Winston Counties to review their facilities.

Among the special individual awards are those given by the Grolier Society, Air Force, Navy, Army, Boeing and many others. Grand prize winners will be awarded an expense paid trip to the National Science Fair in St. Louis May 5-8.

A schedule for the public's review of the exhibits at the coliseum is forthcoming.

Applications for participation in the Northern Alabama Regional Science Fair must be received by Philip M. Mason, coordinator, no later than Mar. 4.

FEDERAL

(Continued From Page 1)

fighters disease and suffering in all of its ports of call, bringing the latest medical advances to needy people. Adapting its program to the needs of the nation being visited, the HOPE helps local medical and health authorities fill in their own special health gaps.

The medical staff is maintained at roughly a hundred physicians, dentists, nurses and medical auxiliaries. The vital element consists of 30-man rotating teams of physicians and dentists who serve aboard ship and ashore without pay for two-month periods.

The American-Korean Foundation is giving South Koreans the foothold they need to become self-sufficient members of the free world community.

Your contribution to the American-Korean Foundation will go a long way toward providing a better way of life for the people of South Korea.

It will grow a 4-H garden; it will train a crippled boy to walk; it will send a boy to school; it will create an acre of new farmland; it will give shelter and loving care to an orphaned baby; it will build a home.

March 16, 1945—Iwo Jima fell to the United States' 4th and 5th Marine Divisions after 26 days of bitter and bloody fighting. The price was high—4,129 Marines killed, 15,308 wounded, 441 missing.

But the Japanese also lost heavily. Twenty thousand were killed and the U.S. had a base within 750 miles of Tokyo.

HIBEX

(Continued from Page 1)

listic missile defense.

The HIBEX program is being directed by personnel at the Army Missile Command, Directorate of Research and Development.

WATERTOWN

(Continued From Page 1)

assigned a fellow worker, Wilfred Davis, as Stepp's sponsor. Davis is helping Stepp both on-the-job and off-the-job in becoming settled in Huntsville.

In recent weeks, two groups of Watertown people being offered jobs at Redstone have visited Huntsville and were shown what the community has to offer them if they decide to make their homes here. Stepp was in the first tour group in January.

Stepp has been employed by the Federal Government for the past two-and-half years. Before going to Watertown in 1963, he was at Rock Island Arsenal for six months.

A native of Arkansas, Stepp was born in the small Ozark town of Pettigrew. After high school in

Fayetteville, Ark., he attended the University of Arkansas, which awarded him a bachelor's degree in geology in 1959. He served two years in the Army and was stationed in the Panama Canal Zone most of the time.

The Tennessee Valley is well-known for two things which Stepp has adopted as hobbies—bass fishing and Indian artifacts collecting, and the young bachelor says he plans to do a lot of both as soon as he is settled.

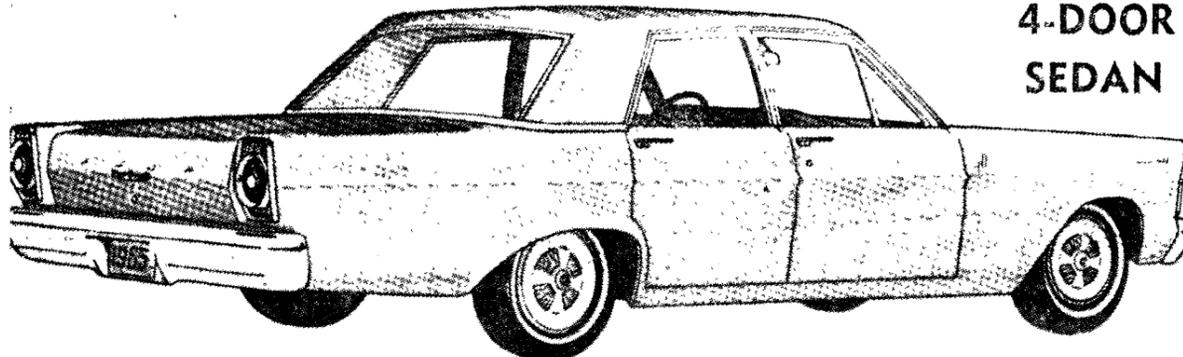
March 10, 1775—Daniel Boone with 30 axemen cut a path from the Cumberland (present location) settlement to the Kentucky river. This widely used trail became the Wilderness Road. Opened to wagon traffic in 1795, it facilitated settlement of the lower Ohio Valley. Since 1926, this road has been a section of U.S. Highway 25. It is known as the "Dixie Highway."

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Robot Takes Over Records

A robot in the shape of a giant electronic computer with whirling reels of magnetic tape and flickering lights has been employed to take over a good share of the clerical work necessary in keeping the personnel records of 10,000 civilians working for the Army at Redstone Arsenal.

The Official Personnel Folder or 201 File on each worker has been condensed and recorded on magnetic tape. This master tape, which has around 50 different elements of information, is readily at hand now and can be updated within a matter of minutes.

The automated system has relieved employees of menial, laborious clerical tasks and will materially help in permitting civilian personnel staff specialists to concentrate in the professional aspects of management, according to James Blackburn, Chief of Employment and Services Division in the Civilian Personnel Office.

This step toward automation in

the administrative area of civilian personnel work at Redstone has been adopted as a pilot project by the Army Materiel Command. The Data Systems Branch of the Army Missile Support Command's Control Office has the responsibility of standardizing the new system for use in all AMC installations with computer capability. George Moore is the programmer/analyst assigned to the project.

The shift in workload mainly has been in filling out forms—forms to make changes in pay, initiate personnel transfers and call for employee appraisals. Also, statistical surveys, which have taken weeks to make in the past, are available within minutes or hours.

The heart of the new system is an electronic computer which updates the 10,000 personnel records once a week. At this time, key-punch cards reflecting changes to be made or action taken are fed into the IBM 1410 computer at the Missile Support Command's Computation Center. These cards are punched by three clerks, Mildred B. Balch, Stacy T. Harris and Dorothy Paseur, across the Arsenal in the Civilian Personnel Office.

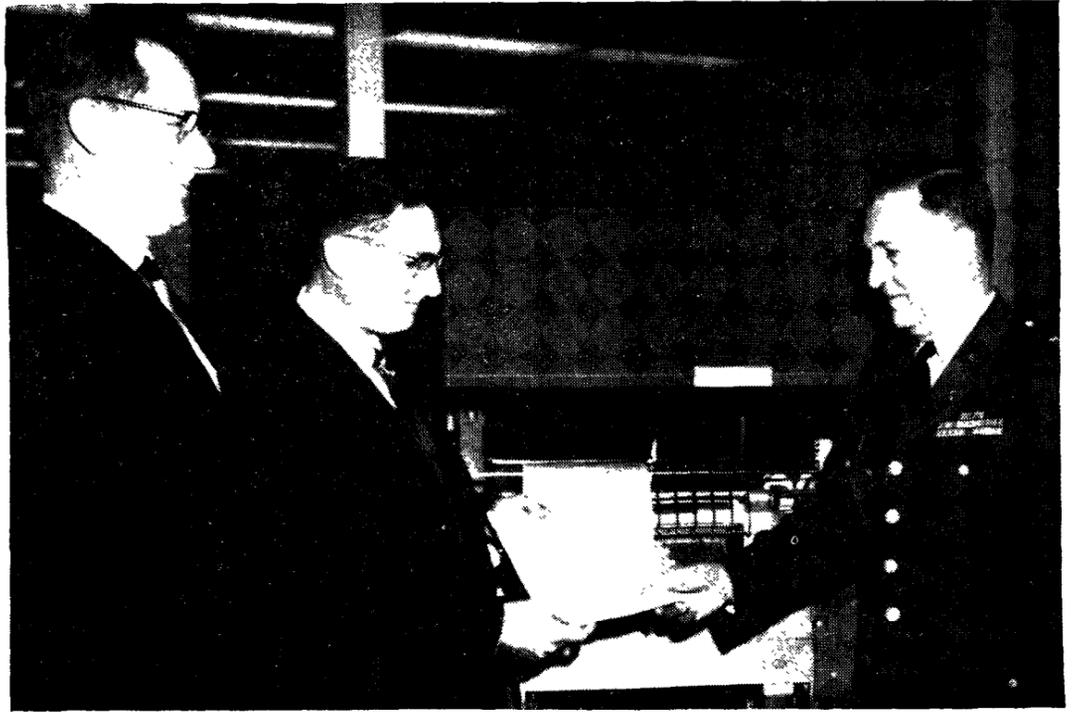
Each time the computer is turned on, four dates are run through it for comparison with action dates on the master tape. These dates are the present one, and two weeks, four weeks and 60 days in advance.

For example, John Q. Doe is due for an up-grade promotion on March 30. This information is on the master tape and, 60 days in advance, during the January 30th run, the computer "reads" this fact. It makes a note of the man's name, other identifying data and the step he is due for advancement to, and records it on another tape.

At the end of the run, the tape containing the changes on Doe and other employees is run back through the computer, with the master tape being updated. All in-grade promotions, including the one of Doe, are grouped on a third tape. This last tape is run through a printer and out comes Department of the Army Form 2515 (Payroll Change Slip) ready to be processed for final approval so that John Q. Doe will start getting his boosted pay check by the effective date.

Approximately 6,000 Payroll Change Slips are prepared each year at Redstone.

One of the most time-consuming jobs in the Civilian Personnel Office was the preparation of Standard Form 50's (Notification of Personnel Action) which can cover a wide range of action, such as grade promotions and job changes. More than 800 are processed every month, but the automated system



PRODUCT OF AUTOMATION—Officials of the Army Missile Support Command look at a form calling for personnel action which has just been printed out by a computer. It is one of the products of a new automated system where the Official Personnel Folders or 201 Files on the 10,000 Army civilian employees at Redstone Arsenal have been recorded on magnetic tape. From left to right are: Luther F. Adams, Deputy Civilian Personnel Officer; Joseph B. Bennett, Chief, Computation Center; and Col. Thomas W. Cooke, AMSC Commander.

has cut down on the time required for this by 75 percent. Not only does the computer complete the form, but at the same time updates the master tape.

Before a clerk-typist can put a Form 50 in her typewriter, the computer has it printed out and ready for remarks to be added and to be signed.

Requests for statistical surveys come in to the Civilian Personnel Office from time to time. In the past, they have taken up a lot of time. Now, statistics can be grouped on any of the 50 different bits of information about each worker quickly.

If an official happens to want to know how many scientists from

Cow Lick, Ky., are working at the Army Missile Command, the computer can give him an answer within minutes.

This pilot project is just the beginning. It's a good thing the robot's "shoulders" are broad, because more such personnel administration work will probably be heaped on them in the future.

Selected LISTINGS...

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1—3-BEDROOM BRICK on large lot approximately 1 mile off new Huntsville highway five miles south of Fayetteville in McDow Acres.

2—3-BEDROOM BRICK HOMES now under construction in the new "Greenwood Estates," also LOTS FOR SALE. This property is located on Huntsville Highway No. 231 eighteen miles from Huntsville city limits.

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Arts Council Endorses Historic Development

The formation of a Huntsville Historic Development Commission was called for in a resolution unanimously passed by the Board of Trustees of The Arts Council, Inc. of Huntsville at its meeting last week.

The purpose of the commission, the resolution said, would be to foster the preservation, restoration and utilization of homes and other buildings of historical and architectural value in the community, and that proper historic districts be set aside for this purpose.

The resolution continued "that the Arts Council, Inc. commends and endorses the support and efforts toward these objectives by the Huntsville Historic Society, the Huntsville Antiquarian Society, the City Planning Commission and the Huntsville Branch, Alabama Chapter, American Institute of Architects."

The resolution cited Huntsville's historic homes as being "noted for their architectural beauty and charm embellished with great traditions and past memories."

"The preservation of buildings, trees and objects of historic interest and value in Huntsville," the resolution added, "and the prevention of their destruction is a matter of deep concern to our people."

The group welcomed the Alliance Francaise of Huntsville as a new associate member of The Arts Council, and voted to confer Af-

filiate Membership to Alabama Agricultural and Mechanical College. Affiliate membership carries no vote on the Board but invites advisory representation from institutions, such as University of Alabama Huntsville Campus, Athens College, Burritt Museum and the Huntsville Public Library, all who are presently affiliate members of The Arts Council.

Huntsville Chapter of Hadassah and Chi Omega Sorority were announced as new sponsoring members of the council.

Mrs. Patrick W. Richardson, President, presided at the meeting which was held in the annex of Temple B'Nai Shalom. The Arts Council could not meet in its own building because of Huntsville Little Theatre production of "Roman Candle."



STAR SERGEANT—William A. Gillespie, senior instructor in the Department of Unit Training, recently got his "stars" with his promotion to sergeant major at the Ordnance Guided Missile School. Maj. Verne C. Wolfe (left), director of unit training, and Col. William J. Macpherson, commandant, joined in the presentation. Sgt. Gillespie came to the Missile School in April 1964 from Sandia Base, New Mexico, where he was stationed with the atomic training group.

Missilemen May Face Baptism By Fire Colonel Says

Missilemen trained by the U.S. Army must face the possibility that missiles might get their "baptism by fire" in trouble spots such as Viet Nam.

This is the view of Lt. Col. Quinton C. La Prad, Hawk Project Manager at the Army Missile Command, who spoke to U.S., French and Greek students at the Army Ordnance Guided Missile School last Friday.

La Prad said missiles employed at the trouble spots could be launched against an enemy at any time, and, as a result, procrastination in missile maintenance is an evil to the defense of the free world.

As keynote speaker at the School's formal graduation ceremony, La Prad presented the Association of the U.S. Army Plaque to PFC Lewis M. Johnson of Joseph, Ill. and Pvt Thomas P. Baalman of Grinnell, Kan. Both students maintained scores in excess of 96 percent in their Nike and Hawk missile courses. The AUSA award is the highest academic award presented by the Army at the School.

Births At Post Hospital

Theodore Chester Dixie Jr., 7 lbs, 15½ ozs., Feb. 20, son of 2/Lt and Mrs. Theodore Chester Dixie.

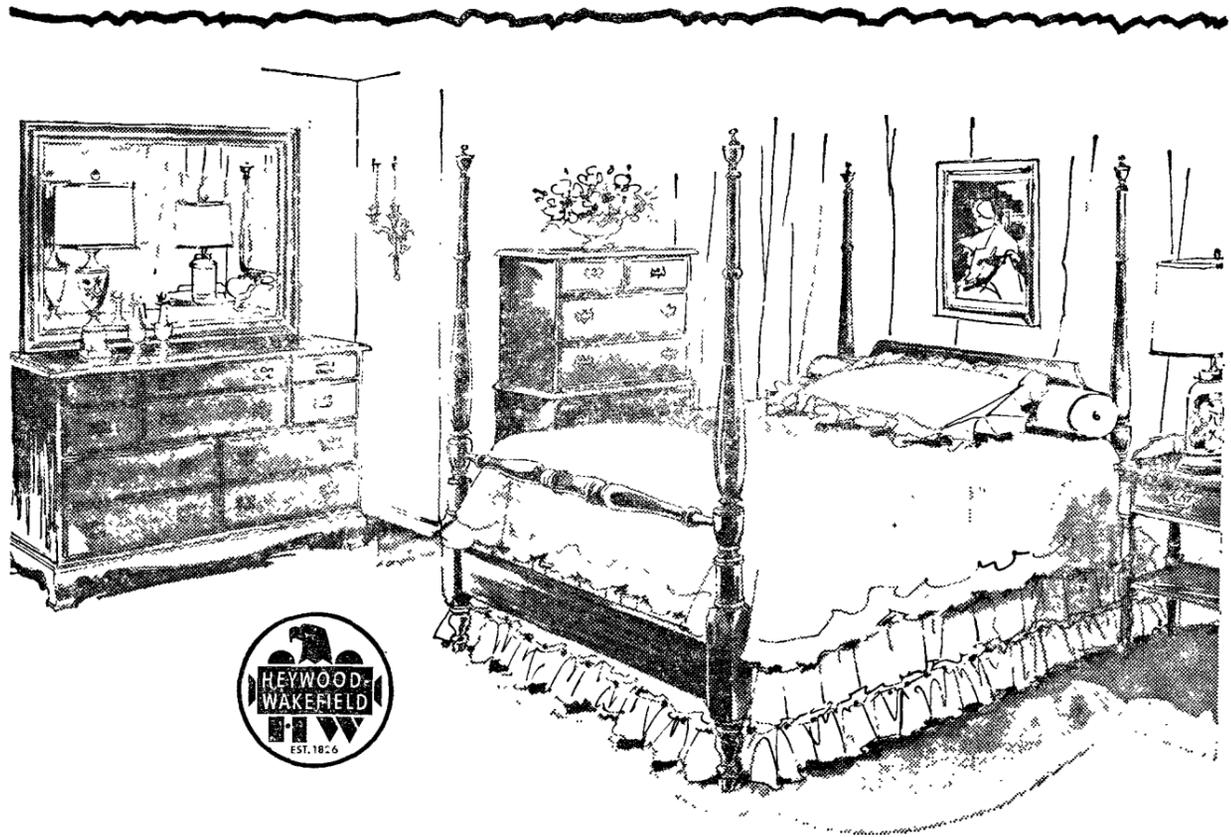
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Arsenal Sewage Disposal Sets Sanitation Pace

Long before water pollution became a national issue, the Sanitation Branch of the Army Missile Support Command Post Engineer was establishing enviable records raising standards as a matter of course.

"In 1964, for instance, the records for our principle plant show that 97 percent of the suspended solids were removed before we emptied the effluent water from the sewage treatment plant into Huntsville and Indian Creek. Other places consider 80 percent a good record," is the comment made by Lewis G. Lindenmayer, the tall, serious chief of the Sewage Treatment Section.

The Post Engineer runs three plants to take care of Redstone's 25,000 working and resident population.

The newest one is over in a cow pasture on the east side of the Arsenal. Built in 1959, the plant has a normal design capacity of one million gallons per day with a maximum capacity of two million. It was designed and constructed so more units can be added, if needed, and is one of the most modern and sophisticated plants in the Southeast.

There are four plants, but one has been abandoned because it was too small to make operation practical. It is used as a nursery by the Post Engineer Roads and Grounds Division. They nurture trees, shrubs and grasses there.

The two other operational plants normally can handle 345,000 gallons and 600,000 gallons per day. The latter has a maximum design capacity for two million gallons.

One plant is in the Thiokol area, and the other is off Martin Road extension.

There are about 80 miles of lines in the collection system, and 20 lift stations to boost the flow. In isolated areas far from lines, there are 11 package plants, the first such modified systems to be installed in the Southeast.

"These are actually a kind of modernized septic tank," Charles Knott, chief of the Sanitation Branch, said.

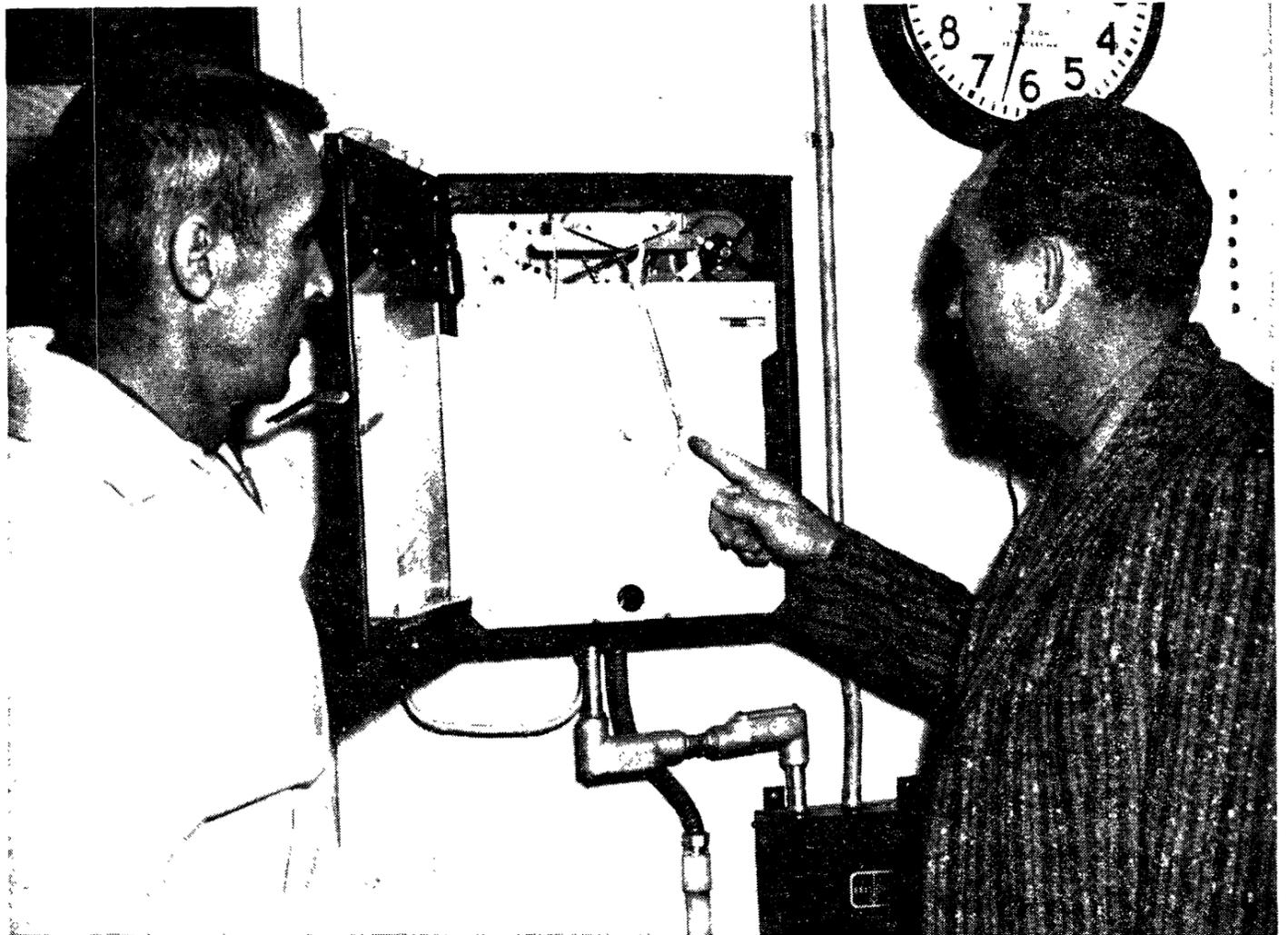
Knott and Lindenmayer outlined the steps followed in sewage treatment.

"The first phase of treatment is settling out of solids which is done by means of a primary clarifier. After settleable solids have been removed, the next process is the trickling filter.

"The trickling filter replaces the oxygen supply. Then the sewage goes into a secondary clarifier and again solids settle to the bottom. From there it goes into the receiving streams as relatively clear water," they said.

"At each clarifier, the settled solids are removed by pumps. From the primary clarifier, solids are pumped into a digester. The digester is a large tank where bacterial action reduces the sludge to a form that can be disposed of more readily. It is the simplest form of matter by then and has lost its odor. Lime is added to insure an optimum condition," they said.

(Continued on Next Page)



CHECKING THE RECORD—Lewis Lindenmayer, left, chief of the Post Engineer Sewage treatment section, and Charles A. Knott, chief of the Sanitation Branch, comment on the flow chart which

measures sewage coming into the newest treatment plant on Redstone. The three plants on the arsenal treated a total of 5,439,978,400 gallons of sanitary sewage and industrial waste during 1964.



OUT IN A PASTURE—On the left is the trickling filter, and on the right a clarifier at the Army Missile Support Command Post Engineer managed sewage treatment plant located in a cow pasture

on the east side of the arsenal. Not shown is the huge digester, about 25 feet high where the sludge from the clarifier is reduced to a form that can be disposed of more readily.

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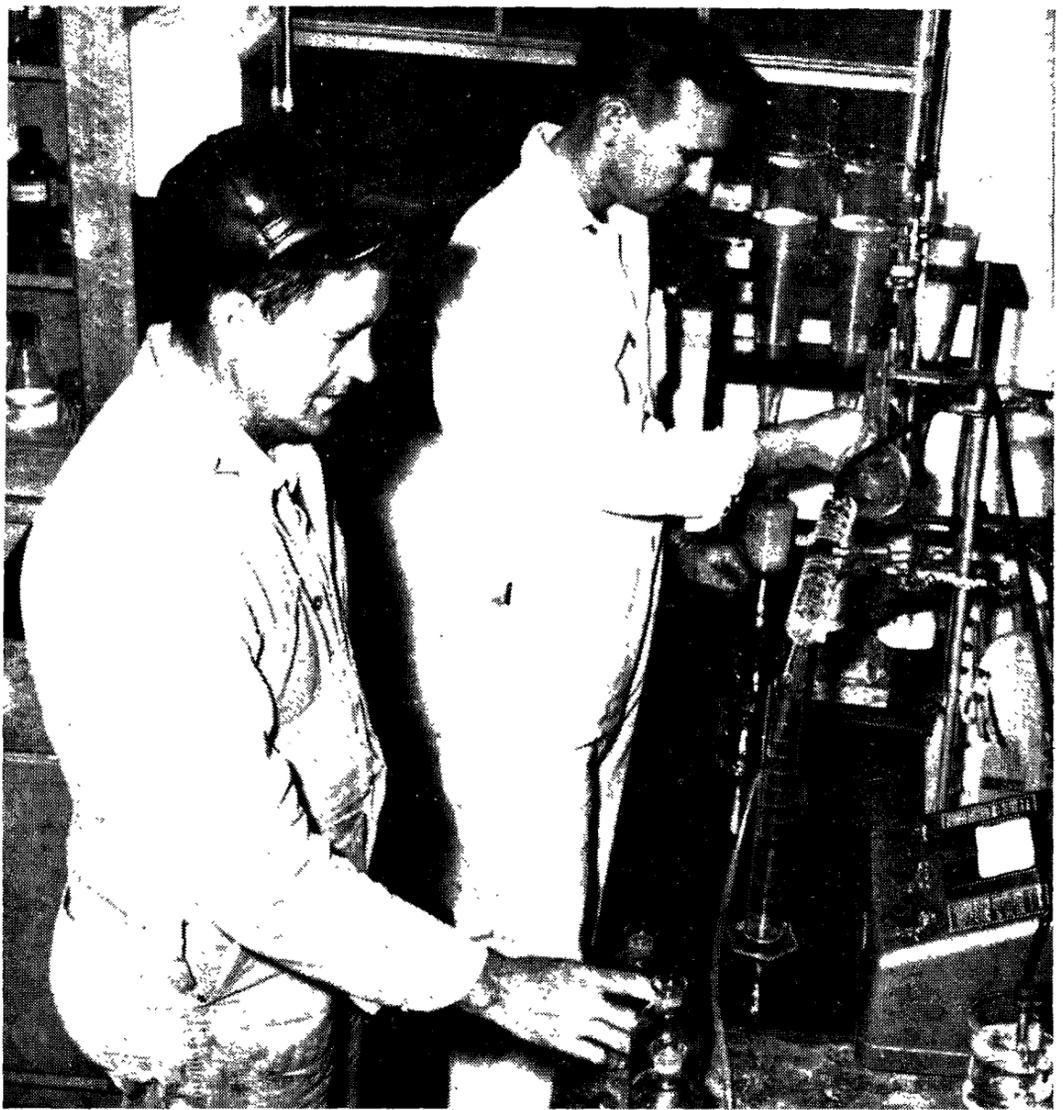
**Carl Culverhouse
AND ASSOCIATES**



SIDE PRODUCTS—Earl Gurley, left, and Lewis Lindenmayer, chief of the Sewage Treatment Plant Section of the Post Engineer, have been admiring Gurley's flower garden at Sewage Treatment Plant No. 1. Plant operator Gurley has a lonesome vigil and finds flower culture a rewarding way to use any spare time he has. The results also enhance the beauty of the area.



PUMP CONTROLS—Earl Gurley, Post Engineer employee, adjusts a pump at one of the clarifiers where influent sewage has settled to the bottom. The solids are pumped from the clarifier into a digester where bacterial action reduces the sludge to a form that can be disposed of more readily. Gurley is the operator at the plant in the Thiokol area.



FOR THE BEST OPERATION—Prentice Hicks, left, and James Passeur, sewage treatment plant operators, run tests to determine the amount of dissolved oxygen and volatile acid in the effluent water passing through the system. The intent is to keep a high percentage of oxygen in the water, and a low amount of acid. A high oxygen content denotes less pollution, and too much acid deters proper digestion of sludge. The three operating plants at Redstone are manned by Army Missile Support Command Post Engineer employees.

Arsenal Sewage Disposal

(Continued from Page 6)

continued.

Digested sludge is spread in beds to dry. This usually takes about two weeks if there isn't an abnormal amount of rain.

The digesters are unloaded in the summer to make room for the winter. The digestion process moves more quickly in summer as a 90 to 95 degree temperature is conducive to bacterial action.

The dried sludge is stockpiled for use by the Roads and Grounds people in plant culture.

One of the primary products of good sewage digestion is methane gas. At the newest plant, which has a covered digester, this gas collects and is piped away to a point where it can be safely burned.

Most of the plant operators and maintenance men are veterans of more than 10 years experience at the plants. They include Earl Gurley, John Worley, Robert Thigpen, Prentice Hicks, James Passeur, Carl Millwood and Huston DeArmond.

The sewage is tested daily to check for oxygen content, alkalinity, settling solids, volatile acids, and temperature. Weekly tests are made for relative stability, suspended solids and Biochemical Oxygen Demand. "If there is too much acidity in the digester, we say the digester has 'gone sour,'" Knott remarked.

The volatile acid test tells us more and faster than any other test how successfully the digester is operating," Knott said. "It's the

best control we have on the digester. Bacteria prefer a slightly alkaline rather than an acid condition."

The amount of oxygen demand in the effluent water is a good measure of pollution. The less oxygen demand, the cleaner the water. At Redstone, 92 percent removal, or better, of the sewage oxygen demand is accomplished before the effluent leaves the plant. This means an abundance of oxygen in the effluent, which makes the fish happy. "Only a few rough types of fish can live in polluted water of low oxygen content," Knott said.

The systems work well with few maintenance problems except when certain substances are emptied into the lines. Recently some oily matter has been found clogging the lines to the plant serving the arsenal industrial area. "This oily material reacts with the solids and turns into a gooey mess like chewing gum, causing expensive alterations to remove it," Lindenmayer explained.

Known as "Lindy" by his associates, Lindenmayer has been in the sanitation business for more than 22 years. He got started on it while in the Army and took a four-month course at Ft. Belvoir, Va. Since then he has attended short courses at Texas A&M, Auburn University and the University of Alabama. At the end of each course he has passed exams and been awarded certificates of competency.

The "score" for the system was 5,439,978,400 gallons of sanitary sewage and industrial waste treated and/or disposed of in 1964. Of this, 4,768,853,400 gallons was industrial waste, an estimated 90 per cent of the industrial water consumed at Redstone.



DRYING BEDS—Sludge from the digester is spread to dry in these beds at Sewage Treatment Plant No. 4. The dry sludge is stockpiled for use by the Roads and Grounds Division of the Army Missile Support Command Post Engineer in the nursery where they raise trees, grasses and shrubs. Nursery products are planted on Redstone where needed.



LET'S KEEP THEM GOING—Huston DeArmond, left, and Carl Millwood, maintenance men from the Army Missile Support Command Post Engineer, make repairs on one of the pumps used to move sludge from the primary clarifier to the digester at one of the sewage treatment plants on Redstone.

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SOCIAL ^{and} CLUB EVENTS

Wives Schedule Fashions

A fashion show will be presented as the program for the Redstone Arsenal Officers Wives Club luncheon at 12:30 p.m. Tuesday, Mar. 9, in the ballroom of the Redstone Arsenal Officers Open Mess.

Reservations should be made by noon, Friday, Mar. 5, by calling Mrs. J. Powell, 877-5647, Mrs. C. Richards, 877-5575, Mrs. S. Josephson, 877-4960, or Mrs. W. Mehlinger, 877-5250. For cancellations, call Mrs. A. McNeil, 877-4364 by noon Monday, Mar. 8.

Mrs. Reuben Mundy is chairman for the event. Her committee is composed of the wives of officers assigned to the Missile Intelligence Directorate.

MR. McBREARTY, MRS. ALBEE WIN AT PARTY BRIDGE

Monday bridge last week brought nine tables of competitors to the Redstone Officers Open Mess.

Charles McBrearty was winner for the men, Mrs. Barbara Albee for the women. Runnersup were M. S. Gatwood and Mrs. R. U.

Engineers Plan Meeting Thursday

The Northeast Alabama Chapter of the Alabama Society of Professional Engineers will hold a joint dinner meeting Mar. 11 with the American Institute of Architects at the Huntsville Industrial Center (H.I.C.) Cafeteria.

A panel discussion of Alabama State Laws governing the practice of engineering and architecture will be held. Panel members will be engineers Carl Jones of G. W. Jones & Sons and Ray Roberts of Brown Engineering Company; and architects Elwyn Reed of Reed-Mullins & Associates and Robert M. Rutland of Milberger & Rutland.

Social hour begins at 5:30 and dinner at 6:30 p.m. All architects and engineers are urged to attend. Reservations can be made by calling Bennie Shultz 881-4588.

Scott.

Mrs. Scott handles reservations to play with the group. Her phone is 772-3273.



MERRILY, MERRILY—Taking a break from rehearsals of "Merrily We Roll Along," Third Army Showmobile's latest production, due to appear at the Service Club tonight are: (left to right), Pvt. Patricia Ward, Pfc. Anita H. Chappelle, Pfc. Norris Corbell, Pvt. Mary Woodworth and "Lt. Half-Pint."

Sojourners Give Flags To Schools

Redstone Chapter 353 of National Sojourners commemorated Washington's birthday by presenting U. S. flags to three local schools, Rolling Hills Elementary, Farley Elementary and Farley Junior High.

The organization gives flags to schools which have none, and to Girl Scout and Boy Scout troops on Redstone Arsenal.

On Mar. 2, the Sojourners will present a flag to the Association for the Education of Brain Damaged Children.

Movie Schedule

WEDNESDAY, MAR. 3
"Come Blow Your Horn" (M-YP)

THURSDAY-FRIDAY, MAR. 4-5
"How to Murder Your Wife" (M-YP)

SATURDAY, MAR. 6
"The Woman Who Wouldn't Die" (M-YP)

SUNDAY-MONDAY, MAR. 7-8
"Pajama Party" (M-YP)

TUESDAY, MAR. 9
"Black Spurs" (M-YP)

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.

BRIDGE WINNERS

The Bridge Group sponsored by the Redstone Arsenal Officers Wives Club on Thursday played at the Officers Open Mess.

Winners were Mrs. C. D. Sterner, first; Mrs. Charles McBrearty, second; Mrs. C. G. Johnson, third; and Mrs. Glenn Keith, low.

Reservations to play with the group are handled by Mrs. A. J. Matthews.

'Merrily' Plays Tonight

The curtains will open on Merrily We Roll Along, a Third Army Showmobile, tonight at 8:15 p.m. in the Service Club.

The professional cast of 33 will present a two hour musical variety billed as a musical tour of America. It will include both old and new music as well as music which has originated from specific regions.

To give authenticity to the staging, the Showmobile is using a new concept in background scenery for the first time in any Showmobile production, and possibly the first time for any amateur organization, the nagy multiscreen scenery projection system will provide appropriate background for each song. The system makes use of color slide projector placed in the theater wings.

The Showmobile is under the direction of Gilbert Gross. Robert Nuttall is music director; Robert

Shaw, technical director; and SP4 Raymond Lacetti, art director. Script continuity was written by SP4 Michael Bell and Pvt. Daniel Rohlfing and will be narrated by SP4 Michael Bell. The cast contains individuals who have experience in various performances and have studied with such groups as the Drama Workshop in New York.

The cast includes: PFC Anita H. Chappelle, Pvt. Patricia Ward, Pvt. Mary Woodard, SP4 Michael Bell, SP4 William Larsen, PFC Doug Madison; SP4 James Strawbridge; PFC Markku Sario, PFC Norvid Roos,

PFC Francis Robinson, Sgt. John McKenna, PFC Daniel Rohlfing, PFC Harry Decker, PFC John Harris, PFC Doug Crumpler, SP4 Salvatore Buono, PFC Joseph Bury, PFC Dave Cherven, PFC Norris Corbell, PFC Edward McCorvey, PFC Charles Schott, Pvt. Gus Karczmarczyk, PFC Ed Rosario.

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PORT SEES ADRES—Deputy Assistant Secretary of the Army A. Tyler Port, third from right, listens as Horace Lowers, Chief Engineer, Missile Command, explains ADRES during a visit to the Missile Command last week. The secretary was briefed on technical data information and had a look at other data handling equipment. Looking on are Col. C. T. Campbell, Chief, Technical Data Office, Army Material Command, and Lt. Col. Jeff T. Holman, Executive Secretary to Secretary Port, who also made the trip.

BECOMES REGULAR ARMY Missile School by Col. William J. Macpherson, commandant.
 Capt. Willie A. Mayo, chief of the Administration and management division of the Directorate of Individual Training at OGMS received a Regular Army appointment. He was sworn in last week at the

March 14, 1812 — The Federal Government authorized the first issue of war bonds to help finance the War of 1812.

At The Service Club

By BETTY HAYES

The two big dates to remember are tonight and Tuesday, Mar. 9. These are the nights that Merrily We Roll Along and Flying High will take place. Further information on these shows will be given later in this column.

Attention EM Council Members! The monthly meeting will be held today, at 2 p.m. Ideas for future programs from you and the Men in your companies will be welcomed.

Tonight our first big show for this week will be held. Third Army is responsible for bringing us the show entitled Merrily We Roll Along. The showmobile has been touring Third Army installations, and has been well received. If you attend the performance tonight at 8:15 p.m. you will be assured an evening of delightful entertainment.

I might mention at this point that Third Army is making pre-

parations for another showmobile. If you have experience in the entertainment and the technical fields and are interested in touring with the showmobile, contact the Service Club for further information.

Favorite card games will be played Thursday evening at 7:30 p.m. If we have enough to participate in the games, prizes will be given to the winners of the various card games.

If you missed the pool contest last month, you have a chance to enter another Friday evening at 8 p.m.

On Saturday afternoon coffee time is scheduled at 3:30 p.m.

Small games are on the program for Saturday evening, at 8 p.m. We have a new game which you may like to try—Skittle. The men who have tried this game have found it very challenging.

Sunday morning at 9 a.m. coffee and donuts will be served.

That evening join us for a sock hop, at 8 p.m. The Showmen will play your favorite numbers, and records will also be played for your dancing pleasure.

Coming Events

Mar. 4—Fleet Reserve Association, 8 p.m. Downtown Club.

Mar. 11—Alabama Society of Professional Engineers, Res. Benjie Schultz, 881-4588.

Mar. 16—Society for Personnel Administration, Roy Hollihan, 876-5870.

An evening of games is on schedule for Monday, Mar. 8, at 8 p.m. Let's hope that you leave with the GRAND PRIZE.

The second show is Flying High. It will take place at 8:15 p.m. Huntsville Little Theatre will present a portion of Carousel. Delbert Bailey, the Showmen, Buddy Curry, Brenda Collins, Dusty Roads, Cheston Moore, Jim Garay, Bob Felix, Vince Giarratano, and Lt. Cleveland promise to give excellent performances.

While I am mentioning the show, I would like to remind the performers that the final rehearsal will be Thursday, Mar. 4, at 7 p.m.

Congratulations to Yu Hyon Choe the winner of the table tennis contest in February. Yu Hyon Choe, Sanghi Chang, and the rest of the Korean Enlisted Men, who have left Redstone Arsenal, will be missed around the Service Club.

The Service Club Staff extend their best wishes to Miss Becky Gilbert, the Junior Hostess of 1964, who is leaving to become an airline stewardess.

See you at the Service Club.

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Rockets Lose To Huntsville Brick And Tile

With an even split in their last four games, the Redstone Rockets are beginning to shape up as a well-rounded basketball team, one that can be expected to be a definite threat by tournament time.

early in February, as the playing coach went through a period of experimentation in search of his best combination of players from the Unit Level League.

In the past four games the Rockets have won and lost in a pair of encounters with Ft. McClellan.

took the measure of the Huntsville Swishers and dropped a close one with the Huntsville Brick and Tile five.

The locals captured their first win at the expense of the McClellan team that had gotten the Rockets off on the wrong foot with a pair of setbacks there. In the opener of a two-game set the Rockets took an early lead and then staved off a late McClellan threat for a 95-86 win.

It was a different story on Saturday, however, as the visitors jumped off to a fast start and then spent the rest of the afternoon building to their winning margin. The final score was 115-75.

Frank McMillian and Mike Stuart carried the brunt of the Rocket scoring in the two games, each ending the set with 48 points. Mel Brown set a blistering pace for the visitors by pouring 37 counters through the nets on Friday and adding another 32 on the next day.

The win over the Huntsville Swishers was more of a team effort with four of the Rockets scoring in double figures, in a 99-82 victory.

Stuart hit the nets for 35 points with McMillian, Anderson and Ron Percifield adding 19, 17 and 16 points respectively.

The loss to the Brick & Tile team was a heartbreaker. After trailing by 12 at the half, 51-39, the Rockets came back to tie the score with a minute to go only to see the Huntsville team win on a series of free throws that they

made good.

McMillian accounted for 35 of the Rocket points and Anderson

added 21. Roy Swain hit for 33 and Dan Acuff contributed 20 to the winning margin.

Page 10

The Redstone Rocket

March 3, 1965

German Soccer Team Wins

The ever-winning Army Ordnance Guided Missile School's German Air Force soccer team bombed the International Soccer Team 8-2 Saturday, demolishing the Nashville crew's perfect four-win-no-loss seasonal record.

The Internationals were handed their first loss of the season at Vanderbilt soccer field in Nashville after Sgt. Dietrich Lisse bolted the first tally for the Germans. Lisse put two points across the rival's goal.

Sgt. Gerhardt Reimann and Sgt. Siegfried Schroeder also scored two points. Sgts. S. Wrassmann and Uwe Miegel shot in one point each against the Nashville squad.

The Internationals will attempt to avenge the beating in a return match Mar. 13 on the Ordnance

Guided Missile School field.

"The score makes it sound like we had no trouble defeating Nashville, but it's deceiving," Schroeder, assistant team captain, said. "Many of the Internationals have played pro ball and were in top form. We worked hard for this one."

The win gives the Germans a 6-0 record for the season. Last season the crew copped the area-wide OGMS soccer championship after trouncing teams from Korea, the German Army, Denmark, Italy, Turkey, Greece, Lockheed Aircraft of Atlanta, St. Bernard College of Cullman, Columbia Military Academy and Georgia Tech.

"Georgia was our toughest competition," Schroeder said. "We plan another match with them soon. In our three year history of playing for OGMS we lost only once. That was to a team in Juarez, Mexico. We tried three times to beat them, but none of us were used to playing on sand. In the third game with them, it rained the night before and the sand became hard ground. We beat them finally with the rain's help."

March 13, 1852—The first newspaper cartoon of "Uncle Sam" appeared in a New York comic weekly.

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Plan Ahead, Baseballs Coming Sergeant Kit Contract Goes To Small Firm

The weather the last few days may not look like it, but the time is here to start planning for the coming baseball season.

That is just what the Youth Activities Council is doing in regards to the Little League baseball program on the Arsenal this summer. They are looking forward to fielding six teams in the nine to 12 age bracket.

This means that there will have to be at least ninety boys available to fill the team rosters. This, however, is the easy part of the planning. The boys are available, and will be there when the bell rings.

There is another facet of the advanced planning which is usually a little more difficult to fulfill. That is the availability of the older types to serve as managers and umpires for the games.

For that reason SFC Bob Handy, director of the Youth recreation program, is putting out a call for all military personnel who might be interested in managing, coaching or umpiring during the league season.

Handy said that league games will be played on Mondays, Wednesdays and Saturdays with the

opener slated for May 22. Preliminary plans call for two teams from the Redstone Park area with the remainder to be formed in the Capehart area.

VOLLEYBALL STANDINGS		
	Won	Lose
Officers	13	1
C Co. STC	10	1
German No. 3	11	3
German No. 1	8	4
Hq. Co. AMSC	9	5
German No. 2	5	8

Competition Closed

The U. S. Board of Civil Service Examiners announced that competition in three areas will close tomorrow afternoon at the close of business.

The first is bindery worker announced on AT-35-11(62); the second is industrial instrument repairer on announcement AT-35-20(62); and the third television equipment repairer and installer announced on AT-35-21(62).

The U. S. Army has announced the award of a \$550,853 contract to provide container modification kits for the Sergeant missile system.

The firm, fixed-price contract went to a Toccoa, Ga., small business Dubie-Clark Company.

Sergeant is the Army's single-stage, solid propellant missile which can carry either a nuclear or conventional warhead. Headquarters for the system is at the Army Missile Command, where Col. J. M. Loomis, Jr., is project manager.

The contract was negotiated through the Missile Command's Procurement and Production Directorate, and will be administered by the Birmingham Procurement District. Bidding was restricted to small business firms.

Hawk Classes Labor From Dawn To Dusk

A dawn-to-dusk instructional program is under way at the Army Ordnance Guided Missile School to handle the largest number of foreign missile units ever to be trained here simultaneously on the Hawk air defense missile system.

Instructors on the supersonic Hawk are working 12-hour shifts and training equipment is being used almost around the clock to complete the assignment, according to Col. William J. Macpherson, commandant.

He said the crash program arose from increased requirements by Allies in the North Atlantic Treaty Organization for which the Hawk is now a standard weapon. It is deployed with the U.S. Army and Marine Corps as well as with the NATO forces and in Japan, China and Korea. The Hawk intercepts low-flying targets seeking to elude radar screens. It is effective from treetop level to altitudes of several miles.

Military security prevents identification of the numbers of missile units involved and their nationality, Col. Macpherson said, but added that the two-shift training system will enable the Missile School to complete the assignment during the next three months without adding scarce instructors and costly equipment.

In unit training students who have completed individual training in various Hawk skills are molded into maintenance teams. The teams train as a unit in methods of keeping tactical forces missiles in constant firing order.

The training is being carried out by the school's Directorate of Unit Training commanded by Maj. Verne C. Wolfe.

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Pershing System Progress To Be Reviewed March 18

More than 40 top representatives of contractors and other government agencies working on the Per-

shing missile system will meet at the Army Missile Command Mar. 18, to take a comprehensive look at Pershing, just five years after its first firing.

Two Participate In Computer Meet

Roger A. MacGowan and Wilton L. Whigham of the Army Missile Command Computation Center participated in the 1965 Army Computer Conference, held at Ballistic Research Laboratories, Aberdeen Proving Ground, on Feb. 15 and 16.

They both participated in a panel discussion on "General Purpose Program Modules for Theoretical Trajectory Calculations." MacGowan planned and selected the topics, and served as moderator of the panel discussion.

The panel also included representatives from White Sands Missile Range, Picatinny Arsenal, and Ballistic Research Laboratories.

MacGowan also attended the annual meeting of the Army Mathematics Steering Committee's subcommittee on Numerical Analysis and Computers.

Military Academy Prep School Open

Admission of enlisted men to the U.S. Military Academy Preparatory School and to West Point itself may be speeded by the new AR 350-55 to be distributed to military personnel this month.

The new procedures were outlined in a Third Army fact sheet sent to the Army Ordnance Guided Missile School Monday. The new regulation allows commanding officers to direct applications to the USMA Preparatory School without going through channels and calls for application to the School by letter rather than the standard printed form.

In addition, selection will be based on the applicant's previous academic records, not on his performance on printed qualification tests.

AR 350-55 includes a sample letter of application, according to the fact sheet.

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1962 OLDS-F-85 9 passenger station wagon, a jewel. Was \$1795. PO' Folks Price \$1495.

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1961 CHEVROLET-Impala four door, power, V-8, like new. Was \$1695. PO' Folks Price \$1495.

1962 PONTIAC - Bonneville, two door hardtop. Was \$1995. PO' Folks Price \$1695.

NEW 1965 CHEVROLET - Super Sports, bucket seats. Was \$3786. PO' Folks Price \$3286.

1964 PONTIAC-Grand Prix, full power and air, like new. Was \$3695. PO' Folks Price \$3395.

1963 BUICK-Invicta station wagon, beautiful blue finish, air and power. Was \$2795. PO' Folks Price \$2595.

1962 MONZA-4 in the floor, jet black finish. Like new. Was \$1495. PO' Folks Price \$1295.

1965 MUSTANG-Still in factory warranty. Was \$2796. PO' Folks Price \$2596.

1963 BONNEVILLE-Two door hardtop, Vinyl roof, power. Was \$2695. PO' Folks Price \$2495.

1963 CHEVROLET - Impala Super Sport, four in the floor. 327 engine. Like new. Was \$2495. PO' Folks Price \$2295.

1961 CADILLAC-Sedan DeVille four door, power and air, beautiful blue finish. Was \$2695. PO' Folks Price \$2495.

1962 VOLKSWAGEN - A jewel. Was \$1495. PO' Folks Price \$1295.

1964 CHEVROLET - Station Wagon, Bel Air, beautiful white finish with red interior, power, low mileage. Was \$2695. PO' Folks Price \$2395.

1964 CHEVROLET-Super Sport, Canary yellow, bucket seats, automatic shift. Was \$2895. PO' Folks Price \$2695.

1960 CHRYSLER-Imperial Le Baron, four door, air and power. Was \$1695. PO' Folks Price \$1395.

1961 CHRYSLER-Imperial four door, air and power. Was \$2495. PO' Folks Price \$1995.

1959 OLDS-88 four door, red and white finish. Was \$895. PO' Folks Price \$595.

1960 VALIANT-Station wagon, white finish, nice. Was \$895. PO' Folks Price \$695.

1962 BUICK-Two door hardtop Le Sabre, one owner. Was \$1795. PO' Folks Price \$1495.

1958 CHEVROLET-Station wagon, V-8, automatic shift. Was \$695. PO' Folks Price \$495.

1960 BUICK-LeSabre two door hardtop, beautiful red finish. Was \$1195. PO' Folks Price \$995.

CHEAPIES

1960 STUDEBAKER-Four door, solid. Was \$495. PO' Folks Price \$345.

1956 FORD-1/2 ton pickup. Jam-up. Was \$695. PO' Folks Price \$495.

1955 FORD-Station wagon. Was \$195. PO' Folks Price \$95.

1955 PONTIAC-Four door, green finish. Was \$295. PO' Folks Price \$175.

1955 CHEVROLET-Two door 6 cylinder. Was \$295. PO' Folks Price \$195.

1964 CHEVROLET-Impala Super Sport, 327 engine, 4-speed, radio, heater, new car warranty. Was \$2995. PO' Folks Price \$2695.

1964 CHEVROLET-Impala four door hardtop, air, power. Was \$2995. PO' Folks Price \$2595.

1963 PONTIAC-Catalina four door, power brakes and steering. Was \$2795. PO' Folks Price \$2495.

1962 CHEVROLET-Impala two door hardtop, power brakes and steering. Real sharp. Was \$2095. PO' Folks Price, \$1895.

1963 CHEVROLET-Impala two door hardtop, V-8, automatic shift, one owner. Was \$2595. PO' Folks Price \$2295.

1963 BUICK-Riviera with air, power steering and brakes, power windows and seats. Loaded with extras. Was \$3695. PO' Folks Price \$3395.

1963 CADILLAC-Sedan DeVille, full power and air, low mileage. Was \$3995. PO' Folks Price \$3695.

1963 PONTIAC-Grand Prix. Mag hubs. Real Sharp. Was \$2895. PO' Folks Price \$2595.

1963 BUICK-Electra 225 four door, full power, air, local one owner. Was \$2995. PO' Folks Price \$2695.

1961 CHEVROLET-Impala convertible, solid white finish, V-8, automatic shift, like new. Was \$1795. PO' Folks Price \$1495.

1957 CHEVROLET-Bel Air two door hardtop, V-8, straight shift, jet black. Was \$895. PO' Folks Price \$595.

1960 VALIANT-Four dor. Real economy car. Clean. Was \$1195. PO' Folks Price \$795.

1960 PONTIAC-Four door Catalina, local car. Was \$1195. PO' Folks Price \$895.

1964 FORD-Anglia, 10,000 actual miles. Was \$1495. PO' Folks Price \$995.

1962 FALCON-Station wagon, four door, automatic shift, radio, heater, leather upholstery. Real sharp. Was \$1195. PO' Folks Price \$895.

1959 CADILLAC - Sedan DeVille. Was \$1795. PO' Folks Price \$1495.

1964 CHEVROLET - Convertible Super Sport, bucket seats, power steering. Was \$2995. PO' Folks Price \$2595.

1961 CHRYSLER-Imperial four door, power. Was \$1795. PO' Folks Price \$1495.

1964 MONZA-Coupe with 4-speed transmission. Was \$2195. PO' Folks Price \$1895.

1961 CHEVROLET-Impala two door hardtop, V-8, automatic shift, power steering. Was \$1795. PO' Folks Price \$1595.

1959 CHEVROLET-Impala two door hardtop, V-8, automatic shift, local car. Was \$1195. PO' Folks Price \$795.

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1955 CHEVROLET - Four door Special. Was \$295. PO' Folks Price \$145.

1955 BUICK-Two door hardtop, red finish. Was \$295. PO' Folks Price \$95.

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Thiokol Successfully Fires Powerful Rocket Motor

Brunswick, Ga. — A giant solid-propellant rocket motor that could be the forerunner of space launch systems capable of placing tremendous payloads into orbit was successfully tested last Saturday by Thiokol Chemical Corp. at its Space Booster Division in Camden County, Ga.

The largest, most powerful solid rocket ever tested, the 13-foot (156-inch) diameter motor generated three-million pounds of thrust—twice the thrust developed by any other single rocket motor.

All program objectives were met in the test. These objectives were to: 1. demonstrate design of the nozzle for 260-inch diameter motors to be tested later in 1965; 2. prove the feasibility of a monolithic 156-inch diameter motor producing three million pounds of thrust; 3. demonstrate motor ballistic performance, advanced insulation materials, and propellant grain design; 4. demonstrate ignition of large rocket motors using nozzle-end ignition; and 5. verify the ability to predict performance of very large solid propellant rocket motors.

The firing was conducted by Thiokol as one portion of an Air Force-National Aeronautics and Space Administration (NASA) program to develop large solid-fuel rocket motors for defense and space missions. The Air Force program is directed by Colonel H. W. Robbins of the Space Systems Division, while NASA's Lewis Research Center, with Dr. Abe Silverstein as Director, administers the 260-inch diameter motor program.

The motor case consists of four segments—head, aft, and two center segments fabricated by Excelco Development, Inc., Silver Creek, New York. The case segments are formed of new high-strength 18 per cent-nickel maraging steel. Each segment was trucked from New York to Georgia where it is assembled into one complete monolithic case which then was cleaned, insulated, and lined.

More than 400 tons of propellant were cast into the motor to form a one-piece (monolithic), star-shaped propellant grain. Polybutadiene acrylic acid co-polymer type propellant, which demonstrated its suitability for large booster application in the Minuteman ICBM first-stage booster, was used in this motor.

The monolithic giant successfully produced the record three-million pounds of thrust over approximately one minute burn time, in which exhaust temperatures in excess of 5,500 degrees F. (twice the melting point of common steel) were attained.

To contain the tremendous forces generated by the motor, Thiokol conducted the test firing in its giant cast-cure-test pit, the first of its kind in the industry. Built especially for space booster programs, the pit, which can accommodate motors up to 30 feet in diameter, is 120 feet deep, 52 feet across, and rests on a 26-foot-thick reinforced concrete base.

Today's test marks the second phase of Thiokol's program to demonstrate the feasibility of large solid-propellant 156-inch diameter motors for the Air Force. The first phase, a successful test firing of a 156-inch segmented motor at Thiokol's Wasatch Division in northern Utah, was accomplished on December 12, 1964. That motor produced 1.4 million pounds of

thrust using a gimbaled thrust vector control nozzle.

The nozzle used on today's test was manufactured by the Rohr Corporation, Riverside, California. The ten-ton nozzle stands over 19 feet high and has an exit cone 14 feet in diameter. It is a fixed nozzle, with a maraging steel shell insulated with ablatives composed

of carbon, graphite, and impregnated silica fabrics in the entrance and exit cones and the throat sections.

Motor ignition was accomplished by directing the exhaust flame from a 114,000 pound thrust pyrogen motor through the nozzle and down the length of the booster core. Milliseconds after ignition, explosive bolts released the pyrogen carriage, and the pyrogen motor was blown down range.

Data acquired during the test include side thrust measurements, igniter pressure, combustion chamber, internal and external pres-

ures, temperature and vibration measurements on both the case and nozzle. Extensive preparations were made to obtain acoustic readings (near and distant), and atmospheric and wind velocity measurements—data necessary to accurately determine the booster's generated thrust.

March 3, 1959—The Army's Juno II launched from Cape Canaveral (now Cape Kennedy) the first made-in-U.S.A.-satellite of the sun placed in orbit.

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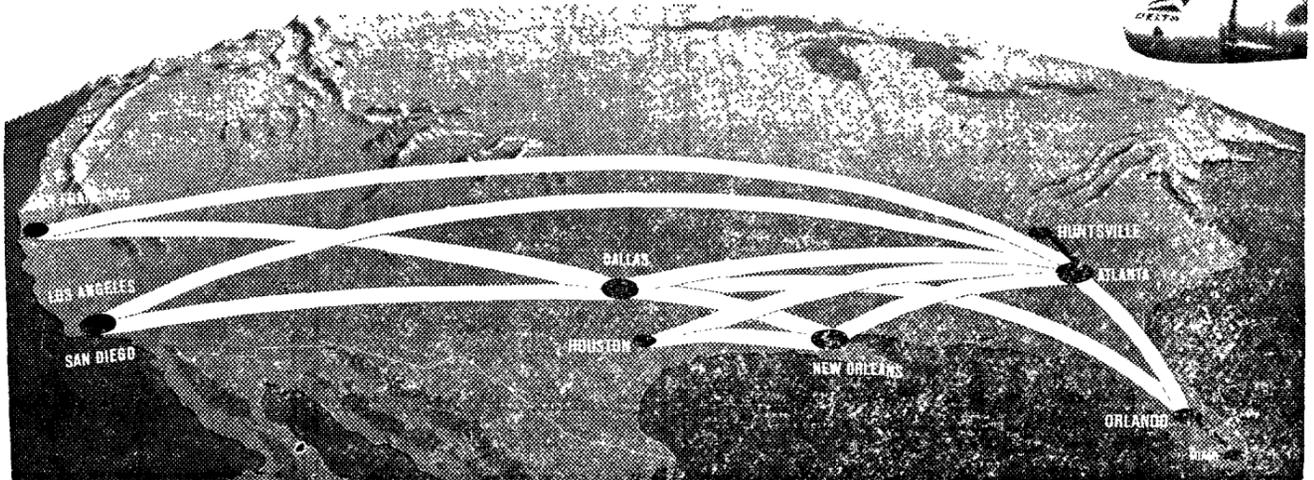
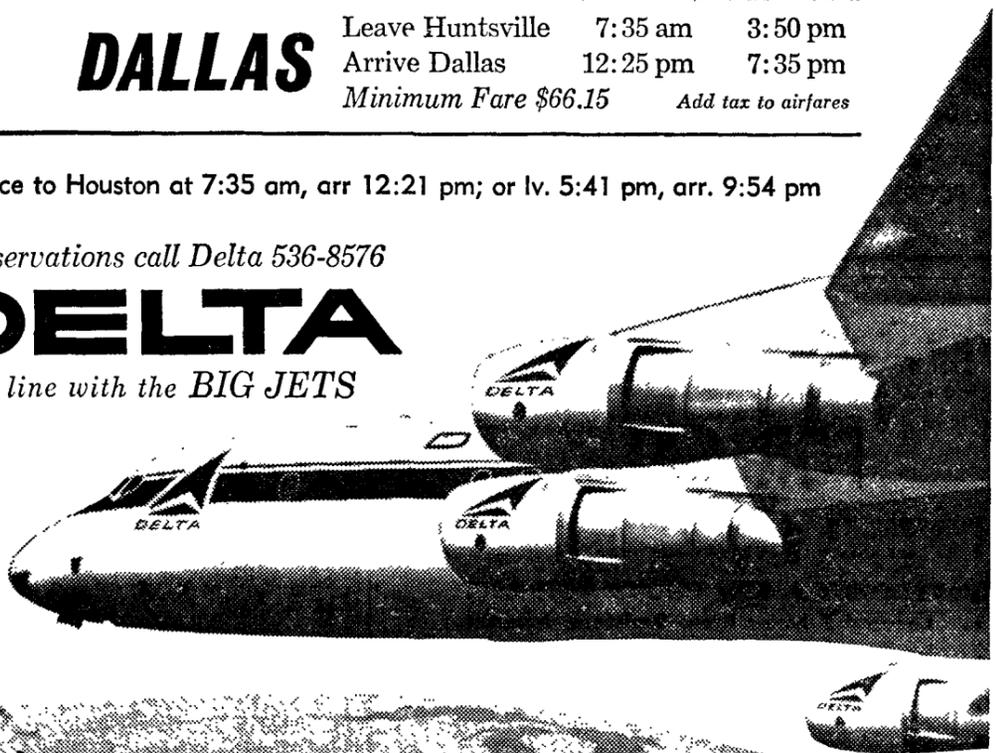
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Page 14 The Redstone Rocket — March 3, 1965

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2. Cars For Sale

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

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4. Mobile Homes

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Classic House

The residence of an Army Missile Command engineer, John W. Wallace, is featured in a picture story in the February 26 edition of Life Magazine.

The feature is Part II of a Life series entitled "Ideas in Houses,"

and describes in detail the unusual house at Athens, Ala.

Modified classic in style, the house was designed for Mr. and Mrs. Wallace by Paul Rudolph, a former resident of Athens who is now a Hartford Conn., architect. He was formerly head of the Yale School of Architecture.

DOD MEMO BANS SALES TO JUNIORS BY SERVICEMEN

Washington (AFPS)—The military departments are preparing regulations that would prohibit senior active duty personnel from personal commercial solicitation and sale to individuals junior in rank or grade.

In a memorandum to Secretaries of the Army, Navy and Air Force, Assistant Secretary of Defense for Manpower Norman S. Paul explained that such solicitation would apply at any time, on or off duty, in or out of uniform.

"This limitation includes, but is not limited to," the secretary states, "the personal solicitation and sale of life and automobile insurance, stocks, mutual funds, real estate or any other commodities, goods or services."

Service regulations are being amended to contain language substantially the same as noted by Secretary Paul.

In the memorandum to service secretaries, Secretary Paul points out, "It is believed that the traditions of the military service do not countenance personal solicitation and sale to junior servicemen by their seniors, in situations in which the military member solicited is placed in a position of either agreeing to the purchase or of risking the displeasure of those senior in military rank."

Funeral Scheduled Today

Funeral services for Mrs. John G. Shinkle will be held today (Wednesday) at 11 a.m. PST in the 10th Street Chapel, Fort Ord., Calif.

The wife of Maj. Gen. John G. Shinkle (USA Ret.) died early Sunday in the Army Hospital at Fort Ord.

The Shinkle's lived at Redstone Arsenal from June 1956 until June 1960. General Shinkle was first Deputy Commander, Redstone Arsenal, and later Commander of the Army Rocket and Guided Missile Agency. He was transferred from Redstone to White Sands Missile Range where he was Commander.

At the time of Mrs. Shinkle's death the couple resided at 1256 Washoe Drive, San Jose, Calif.

March 9, 1862—The Union Monitor and the Confederate Merrimac fought to a draw in the first naval battle of ironclads. The battle revolutionized world naval warfare, auguring the end of the era of wooden ships.

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Quintanilla, Maria Aline, The Earth Rests Lightly.
Radio Handbook, The Radio Amateur's Handbook.
Schauffler, Goodrich Capen, Guiding Your Daughter to Con-

fident Womanhood.
Stringfellow, William, My People is the Enemy.
Virtue, Clarence McCurdy, Company Administration and the Personnel Section.

FICTION

Cameron, Lou, The Block Busters.
Cooper, Louise, Widows and Admirals.
Ehrlich, Max Simon, Deep is the Blue.
Haycraft, Howard, Three Times Three.
Heinzman, George, Only the Earth and the Mountains.
Jay, Geraldine, A Hank of Hair.
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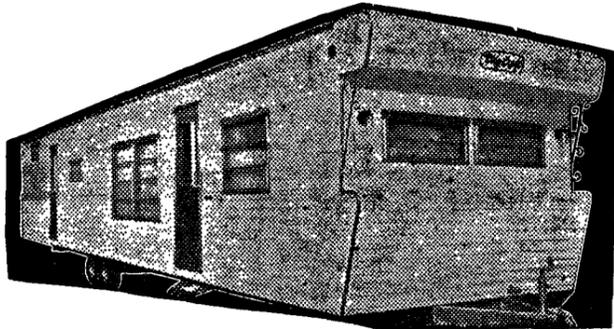
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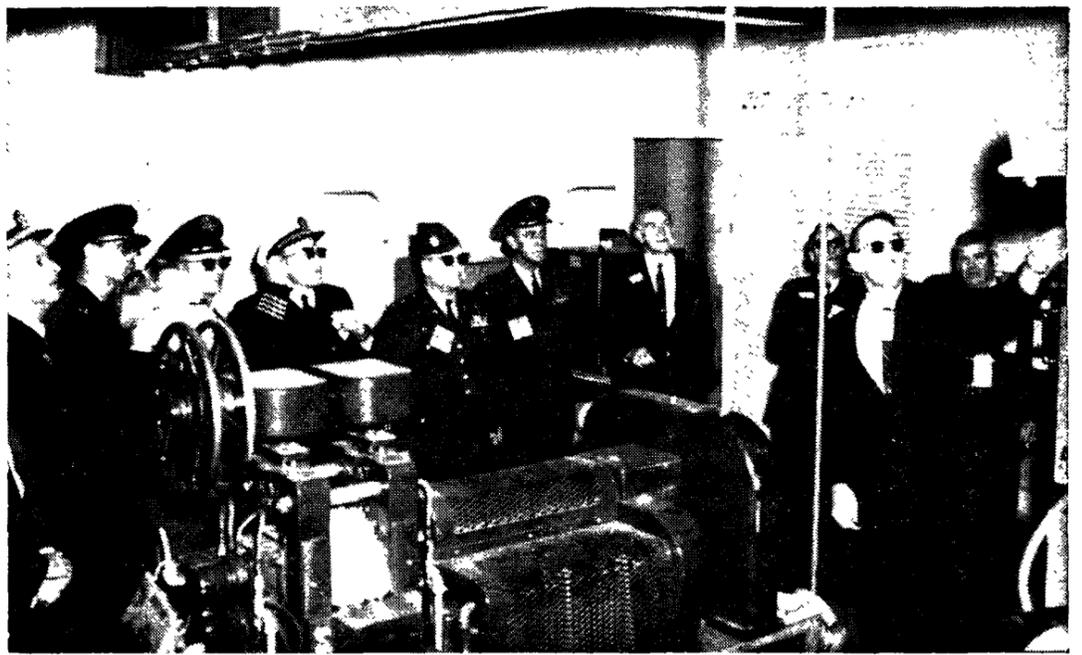
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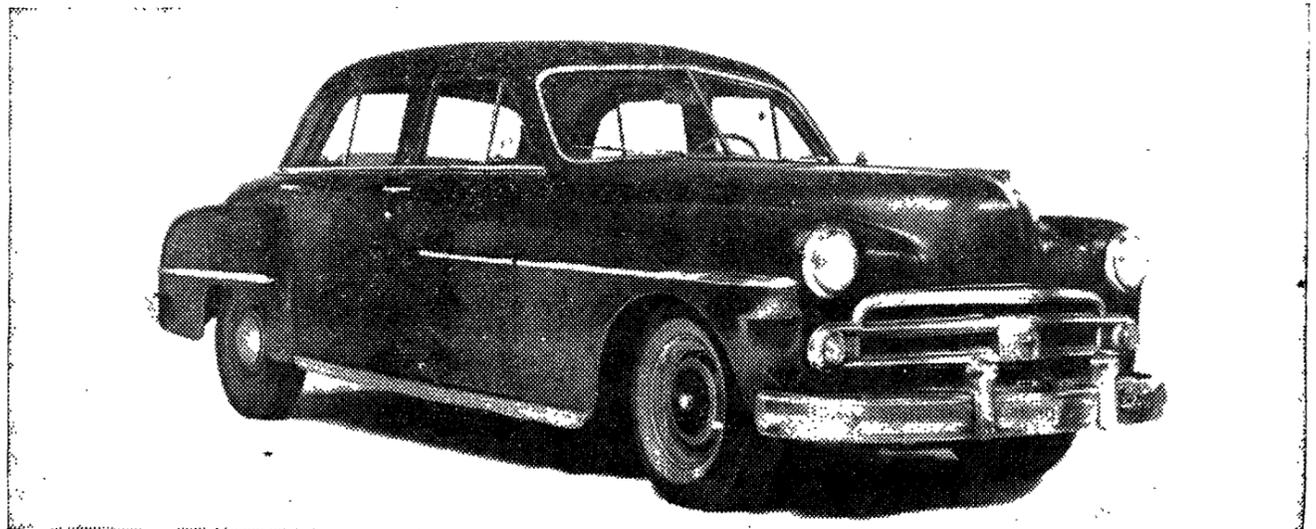
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HOT DEMONSTRATION—A group from the Industrial College of the Armed Forces watches a demonstration of jet torch during a tour of the U. S. Army Missile Command. The torch emits ionized gases at temperatures up to 30,000 degrees Fahrenheit and is used to test materials to be used as blast deflectors during missile launchings. On the right explaining the operation is Phillip Ormsby of the Structures and Mechanics Laboratory, Directorate of Research and Development.

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