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The Redstone Rocket

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VOL. VIII; NO. 7

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JUNE 24, 1959

In Legislature Address

CG Calls for Local Four-Year College

The Commanding General of the Army's missile and space programs, in an invited address before the Alabama State Legislature, Monday called for the establishment of a full-scale, four-year college at Huntsville at the earliest practicable date.

Maj. Gen. J. B. Medaris, who directs the Army Ordnance Missile Command with headquarters at Redstone Arsenal, cited the tremendous industrial growth of the Huntsville area and the pressing need for additional trained manpower throughout the state and region.

He called attention to the expansion of Huntsville-area industry by more than 600 per cent in the past nine years. Much of this is directly or indirectly in support of the Army's activities at Redstone Arsenal which employ more than 20,000 persons with an annual payroll in excess of \$125,000,000.

Gen. Medaris said: "Alabama happily possesses splendid natural resources that are attractive to industrial development — climate, land, ample water supply—but physical resources alone will not satisfy the clamoring demands of the Technological Age. Man will continue to be the basic and essential resource as he has ever

(See CG CALLS on Page 2)

AOMC and ABMA Adopt AIF System Of Accounting

The Army Ordnance Missile Command and the Army Ballistic Missile Agency are converting their accounting systems to the Army Industrial Fund method on July 1, according to an announcement from the Comptroller, Col. W. J. Durrenberger.

Redstone Arsenal adopted this method of accounting in 1954. The Army Rocket, Guided Missile Agency also adopted this type of accounting at its inception in 1958.

This system introduces a method of "fixed responsibility" coupled with the philosophy of getting the "most out of every dollar," according to Col. Durrenberger.

In practice it is based on a system of reporting spending at all levels from the lowest to the highest echelons so that the people along the way are completely aware of where the dollars are going and the products

(See AOMC on Page 3)

JOINT FUND CAMPAIGN GETS GOING

The Joint Annual Fund Campaign of the Army Emergency Relief and the Army Relief Society got underway at Redstone Arsenal last week with the first contribution made by Maj. Gen. J. B. Medaris, Commanding General, AOMC.

The initial donation was received Friday by Maj. Andrew J. Draper, chairman of the Arsenal drive, in a ceremony witnessed by Colonel Owen T. McCloskey, Redstone Arsenal Commander.

All Army personnel are urged to participate in the annual drive which will run until the end of July. Funds will be used to assist Army personnel when emergencies arise for which financial aid is required.

"In 1958," reports General Maxwell D. Taylor, Army Chief of Staff and chairman of the Army Emergency Relief Board of Governors, "Army Emergency Relief provided approximately 4.5 million dollars in assistance to nearly 40,000 members of the Army or their dependents, while the Army Relief Society continued to meet the urgent needs of widows and orphans of Regular Army personnel."

The Army Relief Society was founded in 1900. The Army Emergency Relief was established in 1942. The annual fund drive gives support to both organizations.

(See JOINT on Page 3)

Authority Is Granted For Space Research



KENNETH E. JOY

Designer of Pentadome Now Works in ABMA Industrial Division

The designer of the "pentadome," a giant, air-supported, general purpose structure, has joined the Army Ballistic Missile Agency's Industrial Division, as chief of the Quality Assurance Branch.

He is Kenneth E. Joy, formerly in the Office of Chief of Ordnance, Washington.

Joy was recently awarded an Exceptional Civilian Service Decoration by the Secretary of the Army. He was cited for the pentadome design, which saved the government more than \$1,500,000 in construction costs. Maj. Gen. J. H. Hinrichs, Chief of Ordnance, presented the award on behalf of Secretary Wilbur M. Brucker.

The pentadome can be used, both indoors and outdoors, as storage facility for missile parts, assembly operations, troop housing, hospitals, general field storage and camouflage.

Joy received a second award for his suggestion of using obsolete parachutes as dust shrouds to protect valuable equipment in storage.

The pentadome was used recently to house an erected Army Juno II missile during the Armed Forces Day exhibition in Washington.

The Advanced Research Projects Agency has authorized the Army Ordnance Missile Command to conduct space-supporting research projects encompassing some 16 selected items in advanced space propulsion, materials, and guidance and control, the Department of Defense has announced.

The \$1,250,000 authorization will be accomplished partly "in-house" at AOMC, Huntsville, Ala., and partly under contracts let and monitored by AOMC, Roy W. Johnson, ARPA director, explained.

The program is being undertaken to advance the nation's future military capabilities in space by providing a broader base of research information and basic subsystem components development.

Mr. Johnson emphasized that AOMC was "particularly well qualified to conduct this basic exploratory research."

Of the total allocation, \$550,000 is reserved for space materials research; \$230,000 is earmarked to investigate ion thrust device components, plasma propulsion, and the storability of liquid hydrogen and liquid helium; and \$425,000 is set aside for guidance and control research. The guidance and control work is related to future needs in the Saturn booster project at AOMC, but also will be valuable in the national missile and space effort.

Maj. Gen. J. B. Medaris, AOMC commanding general, said

(See AUTHORITY on Page 3)

Construction Begins On Saturn Tower

* * * * *

Construction of a giant, self-propelled tower — tall as a 28-story high building, yet set on wheels—which will be able to erect and service the Army-developed Saturn, the booster for a huge space vehicle, will be undertaken in the near future under the supervision of the U. S. Army engineer district, Jacksonville, Fla., according to Colonel Paul D. Troxler, district engineer.

The 305-foot structural steel tower, containing a maze of shops, controls, elevators, cranes, testing equipment and other machinery, will be built at Cape Canaveral for the Army Ballistic Missile Agency of the Ordnance Missile Command as a part of the Advanced Research Projects Agency's Project Saturn. Excluding antennas, the structure will be the tallest in the state.

The Saturn booster, for heavy space use, will consist of a cluster of eight Jupiter-type ballistic missile engines.

Each of the two giant legs comprising the skeletal form of the structure will be supported on steel-wheeled trucks for operation on steel rails. The traveling speed of 40 feet per minute, with wind velocity of 40 knots or less will be provided by the traction system of the tower, which, when not in use, will be a safe distance from the Saturn launching pad to protect the service tower from major damage in case of an on-pad explosion during the firing of a test vehicle.

Incorporated in this mobile tower will be such unusual facilities as fire protection, personnel safety devices, heating and air conditioning systems, lightning protection and enclosed offices and checkout space in the base.

One freight and two passenger elevators, plus two sets of stairs, will facilitate the movement of equipment and personnel.

All areas of the multistage rocket will be easily accessible for servicing by means of six retractable service platforms, each of which can be vertically adjusted to suit the test vehicle configuration. Each service platform will consist of two halves, each supported by and retracting into the recess of its respective tower leg.

Bridge cranes, positioned from 43 feet to a height of 245 feet, will be capable of extending 20 feet beyond the tower.

Electrical power from commercial sources will be supplied

(See CONSTRUCTION, Page 3)

Newhall Honored At OGMS Review

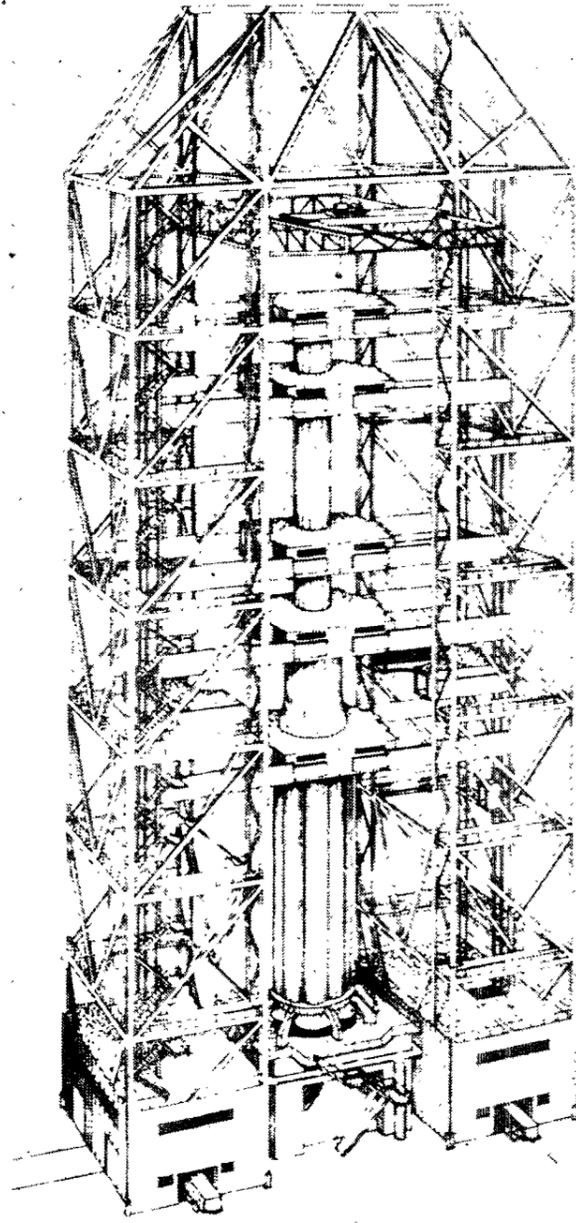
More than 1,000 officers and men of the Army Ordnance Guided Missile School participated in a formal review Friday afternoon honoring Col. H. S. Newhall, commandant, who is leaving this week for a new assignment in the Office of the Chief of Ordnance in Washington.

The review was the largest yet held by OGMS troops alone, the first in which NATO students have participated on the post, and it attracted more than 1,500 spectators from Redstone Arsenal and the city. This is believed to be the largest crowd yet to attend such a ceremony on the post.

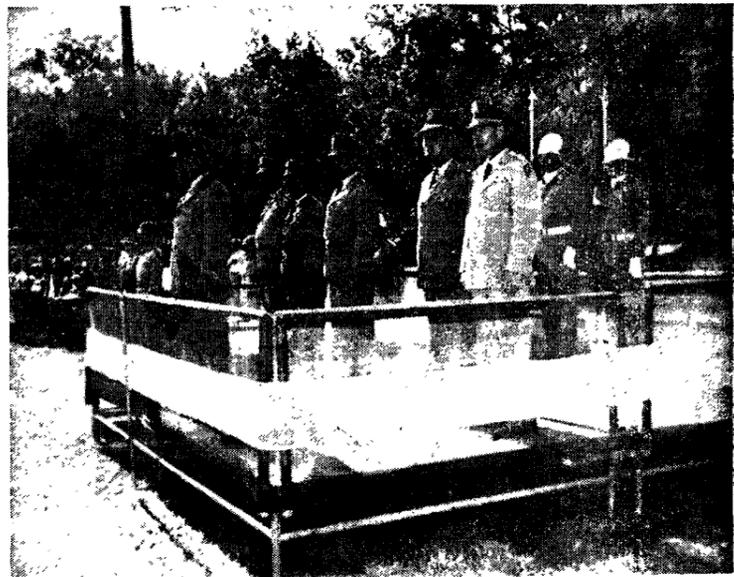
A formation of officers and men of the Royal Netherlands Air Force thrilled the onlookers by

(See NEWHALL on Page 2)

* * *



SATURN SERVICE TOWER—Construction of a giant self-propelled tower—tall as a 28-story high building, yet set on wheels—which will be able to erect and service the Army-developed Saturn, the booster for a huge space vehicle, will be undertaken in the near future under the supervision of the U. S. Army Engineers at Jacksonville, Fla. An artists conception of the 305-foot steel tower appears above.



FAREWELL REVIEW—Col. H. S. Newhall, commandant of the Ordnance Guided Missile School, (center foreground) reviews the OGMS troops during a formal retreat parade held Friday to honor the colonel prior to his departure for a post in the Pentagon. On the reviewing stand with Col. Newhall are (left to right): Maj. Gen. J. B. Medaris, commander of the Army Ordnance Missile Command; Brig. Gen. J. A. Barclay, commander of the Army Ballistic Missile Agency; Brig. Gen. J. G. Shinkle, commander of the Army Rocket and Guided Missile Agency; Col. O. T. McCloskey, commander of Redstone Arsenal; and Col. Ernest W. Ewbank, Jr., assistant Commandant of the school.

The Redstone Rocket

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CG CALLS

(Continued From Page 1)

been, but he must be thoroughly trained if he is to make a maximum contribution to the kind of society in which he will live.

"There is not enough fully prepared manpower in Alabama to support new industry. Consequently, the State must, if it is to move forward to occupy its rightful position in the Space Age, provide the foundation through its public schools, universities and trade schools."

Gen. Medaris noted that the University of Alabama, Huntsville and Madison County are now co-operating to build a permanent University Center "to accommodate the mushrooming enrollment."

The general spoke in response to a joint invitation issued last month by the House and Senate.

As commander of the Army Ordnance Missile Command, Gen. Medaris is in charge of all Army activities having a major part in the prosecution of assigned missile and space programs. AOMC's nation-wide responsibilities include 14 major missile systems; the total budget spent through the Redstone Arsenal headquarters amounts to some two billion dollars annually.

Gen. Medaris pointed to some of the significant changes which have occurred since Redstone became the Army's missile center in 1950:

The Huntsville population has risen from 16,437 to an estimated 63,000.

Huntsville public schools have increased in number from seven to 18, with three others under construction.

Industrial employment has increased from 7,000 to 44,415.

In Huntsville there are twice as many department stores, twice as many licensed businesses of all kinds, four times as many phy-

sicians and more than twice as many dentists.

The payroll of the Army and associated contractors at Redstone Arsenal has become the largest of any single enterprise in Alabama.

The government's investment at Redstone has increased to half a billion dollars, and continues to grow, with some \$40,000,000 worth of additional permanent construction underway at present.

Redstone, instead of being an arsenal in the literal sense, "has become an internationally recognized research, engineering, development and educational center in the missile field. It has attained a position of competence and leadership in the forefront of outer space exploration, and has attained a record second to none in the world," General Medaris said.

Gen. Medaris summarized Army achievements in rocketry with a "remarkable record of firsts."

The first successful firing of an operational U. S. ballistic missile, the Corporal, took place at White Sands in May, 1947.

The first U. S. penetration of outer space was achieved February 24, 1949 by means of a V-2 booster using a Wac Corporal rocket as the second stage.

The first successful intercept of an airplane by a guided missile was credited to the Nike Ajax November 27, 1951.

The first operational air defense missile unit was installed near Washington, D. C. in December, 1953.

The first operational U. S. ballistic missile troop unit was activated in November, 1954.

The first successful intermediate range ballistic missile fired in the U. S. was a Jupiter launched May 31, 1957.

The first wholly successful solution to the reentry heating problem for a missile nose cone was demonstrated with a Jupiter C

NEWHALL

(Continued From Page 1)

going into an arm-swinging high step as they passed the reviewing stand where Maj. Gen. John B. Medaris, Brig. Gen. John G. Shinkle, Brig. Gen. John A. Barclay and Col. Owen T. McCloskey, stood with Col. Newhall.

Friday evening all the generals and officers of the OGMS staff and their wives honored Col. Newhall with a formal dinner at the Redstone Arsenal Officers Club. Gen. Medaris presented Col. Newhall with a special computer labelled "Pentagon Decision Finder." When the gadget is shaken, it provides answers for policy questions. Through an aperture appear such answers as: Maybe, Perhaps, File and Forget, Consider, Next Week, Next Month, Next Century, a little No, a big No and a very small Yes.

Training Command Chief Visits School

Col. John F. Thorlin, new commanding officer of the Army Ordnance Training Command at Aberdeen Proving Ground, Md., paid his first official visit to the Ordnance Guided Missile School here this week. He recently succeeded Brig. Gen. George W. White.

Col. Thorlin spent all of Monday receiving briefings and touring the various OGMS divisions.

He and Mrs. Thorlin were guests of Col. and Mrs. H. S. Newhall and the Commandant's staff at a formal dinner Monday evening at the Redstone Arsenal Officers Club.

rocket in August, 1957.

The first earth satellite of the Free World was launched with a Jupiter C rocket January 31, 1958.

The first intercept of an extremely high altitude target was accomplished by a Nike Hercules, that killed a rocket-launched target at an altitude of more than 100,000 feet this Spring.

The first extremely low altitude intercept of a jet aircraft by a guided missile was credited to the Hawk in May, 1958.

The first made-in-the-USA satellite of the sun was launched March 3, 1959 by NASA-sponsored Army Juno II rocket based upon the Jupiter IRBM. This experiment proved the feasibility of maintaining direct communication between Earth and a vehicle moving in deep space. We had contact with the Pioneer IV space probe to a range of 495,000 miles, and the contact was broken only by the exhaustion of the power source.

The first recovery in the United States, and perhaps in the world, of primaries from through space in a ballistic missile nose cone and retrieved unharmed was made possible by another Jupiter IRBM launched May 23, 1959. he said "but I would emphasize that the primary purpose motivating all our actions is to attain and maintain the unquestioned capability of providing the United States Army with the very best weapons that may be required by any possible future type of conflict."

ABMA FACILITIES PLANNING HAS NEW CHIEF

Maj. Walter E. Andruss has been assigned as Chief of the Facilities Planning Office at the Army Ballistic Missile Agency.

Maj. Andruss was formerly assigned as battalion commander of the 86th Engineer Battalion at Ft. Dix, N. J. He received his Bachelor's degree in 1946 from Arizona State College and is a member of the Society of American Military Engineers.

He entered the Army in 1940 and served in Panama, Burma and China during World War II, receiving the Purple Heart and the Bronze Star.

He returned to civilian life for a brief period during 1946, then reentered Army service at Ft. Knox, Kentucky. Since that time his service has included overseas tours in Germany and Japan, and four months at the Command and General Staff College, Ft. Leavenworth, Kansas.

He was awarded the Army Commendation Ribbon at Ft. D.X., N. J., in March 1959.

Maj. and Mrs. Andruss, the former Jo Allen Raney, have two children, Lee, who is nine years old, and Lynn Ellen, seven years old.

Major Andruss attended high school at Buckeye Union, Buckeye, Arizona, and was graduated from Temple Union at Temple, Arizona.

LT. WINNEY JOINS ABMA INDUSTRIAL DIVISION STAFF

Lt. Walter E. Winney has been assigned as a project officer with the Industrial Division at the Army Ballistic Missile Agency.

Lt. Winney entered the Army in 1955 and was stationed at Okinawa prior to his assignment with the Agency in April 1959. He received his BS degree in mathematics in 1954 from the University of Florida.

Lt. and Mrs. Winney, daughter of C. D. Rosser of 3209 Nations, El Paso, Tex., have one son, Eric Carl, one year old.

Bids Open For Land Leases At Arsenal

Colonel R. W. Love, U. S. Army District Engineer at Mobile announced today that the Engineers are offering 446 acres of land at Redstone Arsenal for lease for haying and grazing purposes August 1, 1959.

Arrangements for an inspection of the land may be made by contacting the Corps of Engineers Area Engineer at Redstone Arsenal or the Chief of the Real Estate Division, U. S. Army Corps of Engineers at Mobile.

Bids will be received at the Engineers' office, 2301 Grant Street, Mobile, until 2:00 p.m. on July 21, 1959, at which time a public bid opening will be held.

Colonel Love explained that the leasing program at Redstone Arsenal is in accordance with the Federal Government's land management policy, whereby all Government-owned land not needed for immediate use but required for future use or for security is leased to private individuals or concerns for productive purposes consistent with the Government's proposed use.

Rhymes of the Times

Underneath
All are
brothers.
He hates
himself
Who hates
others.



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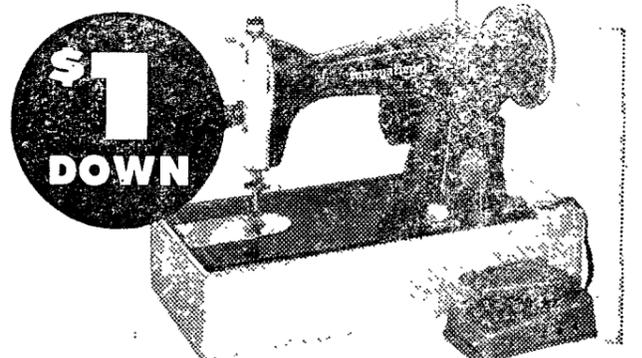
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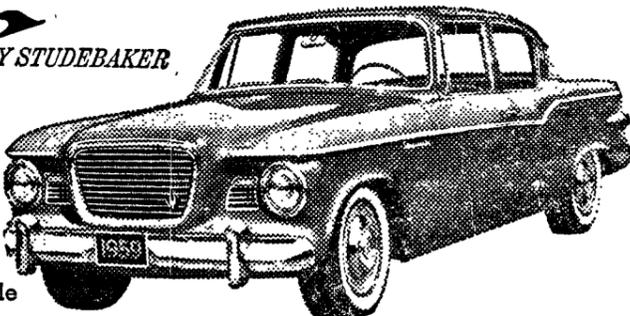
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JOINT

AOMC

(Continued From Page 1)

tions. Overall Army goal for the 1959 campaign has been set at \$600,000. Each installation has been asked to establish a goal of 15 percent of the total amount spent for assistance in 1958 as its fair share of the total Army goal. Redstone Arsenal spent \$29,284.12 during 1958 which brings its 1959 goal of \$4,392.62.

"With a small contribution from each member of the Army at Redstone Arsenal, the goal will easily be obtained," writes General Medaris in a letter announcing the Annual Campaign.

Contributions will be turned over to the Redstone Arsenal Army Emergency Relief Officer.

Maj. Draper is being assisted in the campaign by Maj. Victor H. Kemp, RSA; Capt. Walter E. Kasper, AOMC; 1st Lt. Richard B. Davidson, ABMA; 1st Lt. Fred J. Lokay, ARGMA; 1st Lt. Donald R. Winter, OGMS.

AUTHORITY

(Continued From Page 1) that forward-looking research of this nature will contribute much to the timely development of an adequate space capability for the U. S."

Most of the research activity will be under the direction of Dr.

(Continued From Page 1) for which the dollars are being spent.

In this way, abuses and snags can be spotted before any harm or waste ensues.

The Army Industrial Fund was born in the Hoover Committee on Reorganization in Government. The objective of the Fund is to obtain a sound military budget estimate and then to provide the means and controls which will assure that full value is received for every dollar of the taxpayers' money which is spent.

AIF operates in two directions: (1) a general and cost accounting system and (2) a system of basic management controls. The two systems are complementary and their functions are seen in the form of Monthly Budget Reports and Monthly Operations Reports.

This is the first phase in a broader program which involves the eventual implementation of a Command-wide revolving fund for completely financing initially the total work efforts for which AOMC is responsible. This includes both internal and external operations, (in-house and out-of-house).

CONSTRUCTION

(Continued From Page 1)

through a drag cable. This will be supplemented by "on-board" diesel generator equipment of sufficient capacity to operate the traction drives for mobility and all other service structure equipment when commercial power is not available.

The criteria and definitive design were developed by the Army Ordnance Missile Command and the Jacksonville district in conjunction with Maurice H. Connell and Associates, architect-engineer of Miami, Fla.

Sweet Young Tring: "Can you tell me where I can find the Captain, please?"

Sailor: "He's forward, miss." SYT: "Oh, that's all right. It's a pleasure cruise."

Ernst Stuhlinger of the Army Ballistic Missile Agency's Research Projects Laboratory.



PROMOTED TO E-6—John S. Moore (second from left), of Hq. & Hq. Det. USAG, and David L. Williams (third from left), of the 291st MP Co., receive congratulations from their respective commanding officers, Capt. Richard O'Brian and Calvin Guffey, upon their recent promotion to the grade of E-6.

Boat Accidents Must Be Reported

Coast Guardsmen, from new recruits to senior officers and enlisted men, are preparing for an annual battle, a battle that will save lives and lead to a safer summer vacation for millions of Americans.

The cause of this campaign A strange malady called boating fever that has gripped an estimated 40 million U.S. citizens. In just 12 years the number of boats that travel the waters of this country have tripled until today there are nearly eight million. And the Coast Guard headaches have multiplied accordingly.

New federal and state laws have been enacted that are designed to help the boaters. Registration rules have been tightened and regulations set that make it mandatory for all boat operators to follow traffic rules.

In addition, the Coast Guard has initiated a new accident reporting program that requires the reporting of all accidents involving motorboats or pleasure craft on federal waters. Accidents involving the loss of life must be reported in 48 hours and all others within a five day period.

A report form (CG-3865) has been designed to simplify and minimize the writing required by

an operator involved in an accident. These forms can be obtained at all CG Marine Inspection Stations and other shore facilities.

However, prevention of accidents is still the best cure and that's how service boaters can help. Follow the rules of the road and know what to do in an emergency. Be prepared to aid other boaters who are in trouble if you can do so without endangering yourself or your passengers.

Boating can be fun, and safe.

if you're not "one of the 10 percent who never gets the word."

The harassed driver was busily engaged with a spade in the mud beside his car when a stranger hailed him.

"Stuck in the mud?" asked the stranger.

"No," replied the driver. "I just swore to myself that I'd bury the first fool that asked me that question and this is your grave."

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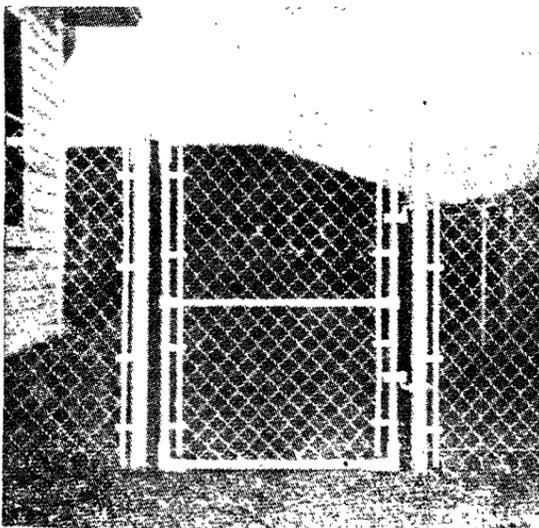
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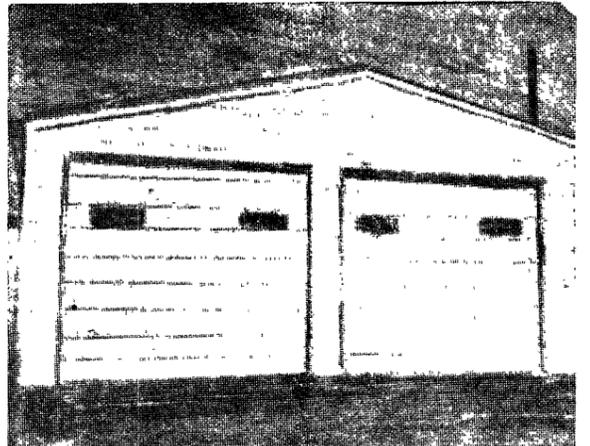
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Social News

FAREWELL LUNCHEON—Mrs. H. S. Newhall, right, wife of the OGMS commandant, was honored by Redstone Arsenal wives at a luncheon last Friday prior to departure for Washington where Col. Newhall has a new assignment in the Office of the Chief of Ordnance. Here she expresses thanks for parting gifts as Mrs. John B. Medaris looks on.



LUNCHEON IS GIVEN AT CLUB TO HONOR MRS. H. S. NEWHALL

Mrs. Henry S. Newhall was guest of honor at a farewell luncheon tendered Friday by approximately 75 Redstone Arsenal ladies at the Squirrel Hill Officers Club.

Mrs. Newhall is the wife of Col. Newhall who has been commandant of the Army Ordnance Guided Missile School for the past four years and is now reassigned to the Field Service Division, Office of the Chief of Ordnance in Washington D.C., next week.

Special guests were: Mrs. J. B. Medaris, Mrs. R. L. Spragins, Mrs. J. M. Colby, Mrs. J. A. Barclay, Mrs. J. G. Shinkle, Mrs. J. G. Zierdt, Mrs. R. O. Lehtonen, Mrs. W. F. Kaiser, Mrs. Milton K. Cummings, Mrs. W. M. Fowler, the outgoing and incoming executive boards of the RSA Officers Wives Club, and other personal friends of Mrs. Newhall. The wives of the officers and civilians of OGMS were hostesses for the luncheon.

Mrs. Fred E. O'Brien, representing the ladies of OGMS, presented Mrs. Newhall with a silver casserole dish and Mrs. Henry Arrott presented a framed arrangement of pressed wild flowers picked from the grounds at Redstone Arsenal, as souvenirs of her stay at Redstone Arsenal. The St. Mary's concert band played a program of popular and

semi-classical music, especially arranged for the occasion. The finale of the band concert was a waltz medley of "Memories", "My Buddy", and "Till We Meet Again". A surprise addition to the program was a tenor solo by Mr. Ray Hagen, friend of Mrs. Newhall and a member of the OGMS staff. Mr. Daniel Della-Calle directed the band, and Rev. John A. McGonegle was band moderator.

Mrs. E. W. Ewbank was general chairman for the event. Reservations were handled by Mmes. E. J. Kloos, Raymond Hansotte, R. N. Brewer, James E. Wall and Fred E. O'Brien. Mrs. E. Michael selected the menu, while Mmes. H. V. Smith and B. A. Ferry served as hostesses. Decorations were by Mmes. Henry Arrott, Michael Deegan, Fred E. O'Brien and B. A. Ferry. Mrs. Robert Kinch arranged place cards and name tags, and Mrs. E. J. McGinnis headed the gift committee. Mmes. D. C. Maliskey and C. E. Cason supervised the social hour.

The editor of a newspaper caught a typographical error that could have led him into Dante's Inferno. The story read that the board of trustees of the town had resigned in a body "because their cuties had been taken over by the County School Board."

At the Service Club

WEDNESDAY — The Fox Trot and Jitterbug Classes are in full swing and will continue until July 1. On July 8 a new series of dance classes will begin consisting of the Tango and Fox Trot. You will learn basic steps for these two dances so that you will be confident enough to dance at any dance and have countless evenings of fun. The Fox Trot is unquestionably the most popular dance throughout the world. It is not only the most useful of all ballroom dances but it is the easiest to learn. This is an excellent opportunity for you to learn a few new dance steps. You know, you learn by doing! We have been very fortunate in having the Huntsville Junior Hostesses as partners in the classes. Make reservations today for the new classes which begin on July 8 at 1930 hours because only a limited number can be accommodated in each class.

THURSDAY — Pool is considered by authorities to be at the top of the list of enjoyable and useful recreational activities; therefore, why don't you plan now to participate in the Pool Tournament on June 25 at 1830 hours. For more information please contact the Service Club office, phone No. 4531.

FRIDAY — Enjoy a relaxed evening watching your favorite television program or an enjoyable game of pool, bridge or ping pong. Coffee call is at 1930 hours.

SATURDAY — The cool lounge is available for your favorite small game or television program. If you have nothing to do come by and we will make some suggestions for a delightful evening. You can enjoy a good sup of coffee at 1930 hours.

SUNDAY — Coffee Call is at 0900 hours for the late risers. We'll play your favorite records upon request throughout the day. And at 2030 hours there will be a birthday party in honor of all of you who had birthdays during the month of June. The Huntsville Junior Hostesses will make the cakes so you are really in for a treat. A record dance will follow the party.

MONDAY — The Huntsville Junior Hostesses will meet at 1930 hours to make plans for the July activities. All members are

Births at Post Hospital

Ralph Curtis Russell, 5 lbs 11 3-4 ozs, 3 June 1959, son of Sgt. and Mrs. R. C. Russell.

Kimberly Crain, 5 lbs 13 1/2 ozs, 3 June 1959, daughter of 1st Lt and Mrs. Leonard B. Crain.

Lawrence Anthony Bliley, 7 lbs 6 ozs, 3 June 1959, son of M-Sgt and Mrs. Henry M. Bliley.

Linda Sue Steinger, 5 lbs 10 ozs, 4 June 1959, daughter of Major and Mrs. Donald H. Steinger.

Catherine Lynne Watts, 7 lbs, 6 June 1959, daughter of Pvt E-2

and Mrs. John R. Watts. Robert Lawrence Stag, 7 lbs 11 ozs, son of Capt and Mrs. Robert J. Stag. Charisse Ann Butenhoff, 7 lbs 15 ozs, 8 June 1959, daughter of Pfc and Mrs. Gerald A. Butenhoff. Carol Lynne Smith, 7 lbs 8 ozs, 9 June, daughter of Sgt and Mrs. Henry F. Smith. Douglas Michael Winterrowd, 6 lbs 9 1/4 ozs, 8 June 1959, son of SFC Harley G. Winterrowd. Francis Sulik, 7 lbs, 4 1/2 ozs., 15 June 1959, son of A 1-c and Mrs. Paul J. Sulik. Rebecca B. Oswald, 7 lbs 8 1/4 ozs, 15 June 1959, daughter of Sp-4 and Mrs. Richard B. Oswald. William White Tisdale, Jr., 7 lbs 4 ozs, 17 June 1959, son of Sp-4 and Mrs. William W. Tisdale. Leslie Ann Van Ness, 8 lbs 5 1/2 ozs, 17 June 1959, daughter of CWO and Mrs. Sherman H. Van Ness.

urged to attend the meeting. Bingo will follow the meeting so make plans to enjoy a friendly game of bingo in the nice cool lounge. Have you heard about the unique prizes that Molly has dreamed up? Select a lucky card and join us for an enjoyable evening.

TUESDAY — The Chess and Bridge Teams will meet at 1900 hours for an evening of entertainment and relaxation. New members are always welcomed to participate in the evenings activities.

Coffee Call at 1930 hours.

An exciting July Program will be available soon.

FRANCES

Rhymes of the Times

IT'S NO SURPRISE EXPERIENCE FAILS FOOLS, BUT HELPS THE WISE



...AGEN

and Mrs. John R. Watts. Robert Lawrence Stag, 7 lbs 11 ozs, son of Capt and Mrs. Robert J. Stag. Charisse Ann Butenhoff, 7 lbs 15 ozs, 8 June 1959, daughter of Pfc and Mrs. Gerald A. Butenhoff. Carol Lynne Smith, 7 lbs 8 ozs, 9 June, daughter of Sgt and Mrs. Henry F. Smith. Douglas Michael Winterrowd, 6 lbs 9 1/4 ozs, 8 June 1959, son of SFC Harley G. Winterrowd. Francis Sulik, 7 lbs, 4 1/2 ozs., 15 June 1959, son of A 1-c and Mrs. Paul J. Sulik. Rebecca B. Oswald, 7 lbs 8 1/4 ozs, 15 June 1959, daughter of Sp-4 and Mrs. Richard B. Oswald. William White Tisdale, Jr., 7 lbs 4 ozs, 17 June 1959, son of Sp-4 and Mrs. William W. Tisdale. Leslie Ann Van Ness, 8 lbs 5 1/2 ozs, 17 June 1959, daughter of CWO and Mrs. Sherman H. Van Ness.

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OSCAR L. HERNDON

SAFE SUPERVISOR OF WEEK NAMED

The safe supervisor of the week selected by the Safety Committee for the Engineering and Quality Assurance Branches of the Industrial Division, ARGMA is Oscar L. Herndon. Herndon is supervisor of the mechanical calibration and standards laboratory. During the fifteen years that Herndon has been employed in civil service work neither he nor the employees he supervised have had a disabling injury. Herndon started to work at Redstone Arsenal in November 1952. In March 1953 he was promoted to supervisor. He has been a supervisor 12 years of his 15 years of civil service work. Prior to working at Redstone Arsenal, Herndon was a supervisor at the Kansas Ordnance

Plant, Parsons, Kan. Both he and his wife, Esther, are natives of Parsons. They have a son, Robert, who is 21 months old.

From October, 1943 to December, 1945, Herndon was an electrician's mate 3/C with the Navy. He was assigned to the aircraft carrier U.S.S. Bunker Hill. In May, 1945, while the carrier was designated as flagship for the fleet at Okinawa, the carrier sustained two direct bomb hits in addition to being hit with Japanese suicide planes. Herndon is alive today only because he was located several decks below the level where the bombs exploded. He was cited for his attention to duties while under fire.

Herndon's hobbies include bowling, fishing, and general maintenance and construction work around his home which is located at 2605 Bonita Circle, S. W., Huntsville. He owns a 14 foot plywood runabout which he built three years ago. At the present time he is constructing a barbecue pit. Needless to say, the Herndon family enjoys living in this part of the country.

Herndon attributes his excellent safety record to having a human interest in people and seeing that the knowledge and experience he has gained is passed on to his employees.

Captain Lyne Joins AOMC Research and Development Staff

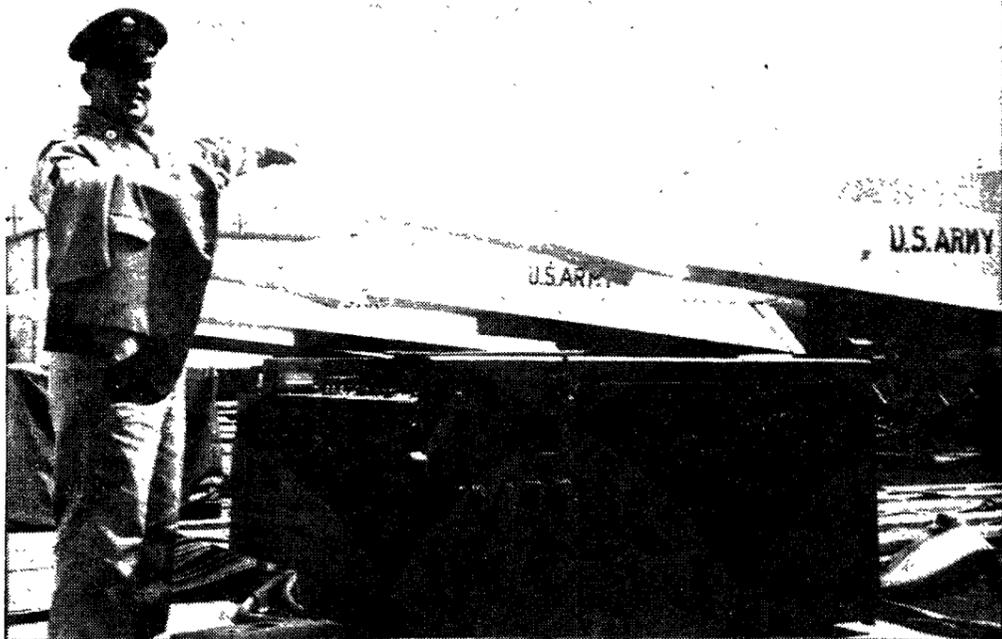
Capt. Richard A. Lyne, formerly an instructor at the U. S. Army Intelligence Military Police and Special Weapons School, Oberammergau, Germany, has been as-

signed as a project officer with the office of the assistant chief of staff for research and development at the Army Ordnance Missile Command.

The Command is responsible for all missile and space programs assigned to the Army. Capt. Lyne entered the Army in October 1948, completing basic training at Ft. Knox, Ky., and Officers Candidate School at Ft. Riley, Kansas.

He served in Korea from 1950 until 1952, and was awarded the Bronze Star during that tour of duty. Upon return to the United States he was stationed at Aberdeen Proving Ground, Md., for three years, and at Ft. Holabird, Baltimore, Md., for nine months. In 1956 he began his tour of duty in Germany, serving at Frankfurt before joining the staff of the Intelligence Military Police and Special Weapons School in 1957.

Capt. and Mrs. Lyne, the former Marian B. Rollins, daughter of Mr. and Mrs. E. L. Rollins of Magnolia, Md., have one son,



MAYBE IF I SNEAK UP ON IT—"That 'bird' won't know me in civies", says Master Sergeant Clyde L. Oakman as he points to the Nike-Hercules missile with which he has been associated as an instructor in the Mechanical Section of the OGMS Surface-to-Air Missile Division. Oakman has traded his Army khakis for a suit coat after retiring from the Army with more than 20 years active service. But he'll stay in his present teaching job at OGMS as a civilian instructor under contract to the Radio Corporation of America.

Richard M., who is five years old.

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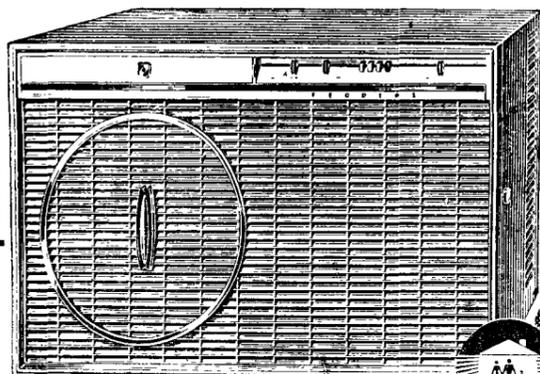
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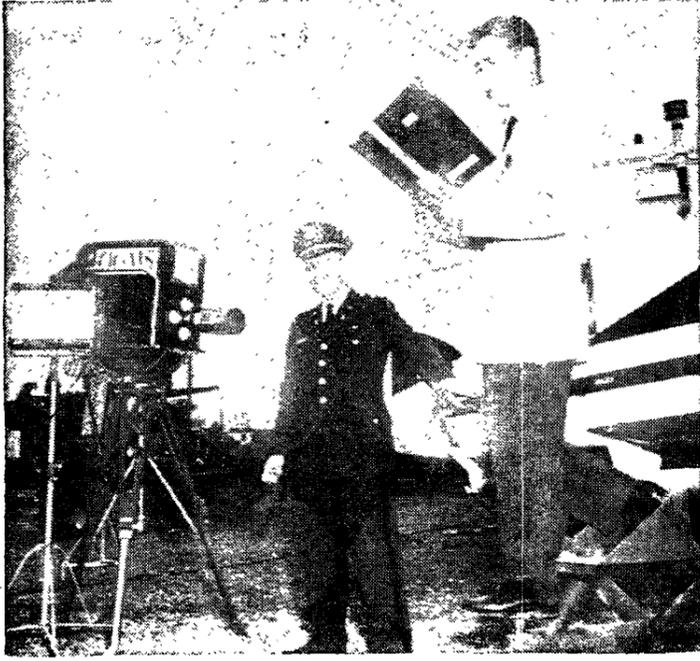


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OGMS TV EXPANDS — The series of 25 live television courses on missiles transmitted by the Ordnance Guided Missile School to the Armor School at Fort Knox, Ky., for the Senior Officers' Preventive Maintenance Course there will continue through the 1959-60 academic year with approval of the Army's Deputy Chief of Staff for Logistics, and the Continental Army Command, it is announced by Col. H. S. Newhall, OGMS commandant. Here Lt. Daniel W. Cronin, OGMS instructor, (left) rehearses a lecture on the Hawk anti-aircraft missile with Robert O. Gilmore, director. Cues are supplied by the teleprompter in front of camera. OGMS now has 17 cameras and five mobile transmitting units, equipment that compares with the largest commercial studios.

ARMOR MEN WILL CONTINUE TO RECEIVE OGMS TV CLASS

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WHITE-MAYFLOWER

Experimental use of large screen closed circuit television to teach the complex science of the space age has proved so successful that the Army is extending its video activities here at the Ordnance Guided Missile School which pioneered the new medium in missile teaching.

A series of 25 two-hour classes in missile maintenance which have been transmitted several times a month to the Senior Officers Preventive Maintenance Course at the Armor School at Fort Knox, Ky., will be continued during the 1959-60 academic year

by decision of the Deputy Chief of Staff for Logistics, and the Continental Army Command, it is announced by Col. H. S. Newhall, commandant of the Missile School.

The school, which this year will graduate more than 7,500 trained missile technicians, is also extending use of video throughout the 57 courses now offered in its own classrooms, he said.

Savings of money and time as well as significant gains in the quality of instruction in the complex courses led to expanded use of closed circuit television, together with other advanced audio-visual training techniques.

Col. Newhall noted that the Missile School was the first educational institution in the nation to use giant screens, measuring as much as 12 by 15 feet, as a regular feature of its televised teaching program.

"Savings of several million dollars worth of equipment were achieved by using closed circuit television to avoid duplication of skilled instructors and costly and scarce missiles and equipment here and at Fort Knox which is 250 miles north," he said.

Live programs plus the large screens proved to be highly valuable methods of holding student interest and accelerated their ability to grasp the complicated details of missile systems, he added.

Other significant gains in missile training were scored by adapting techniques and equipment used by commercial television stations, he added.

One is the recording of portions of televised courses on "video tape", a metal and synthetic product, on which programs can be quickly recorded and telecast again in a few minutes.

Since ballistic missile classes are held 24 hours a day, these tapes can be used as required. They can also be re-done immediately to keep pace with rapid changes in missile technology, whereas conventional films require several months to produce.

Commercial television studio equipment, such as "teleprompters" that cue performers and speakers, are used by instructors to insure that they stress all details of a lesson. Other devices automatically turn classroom lights on and off, project films or slides and create effects designed to hold student attention.

"Results obtained by the use of

these audio-visual aids in experimental studies to date show that we can save 26 percent of training time in conference and lecture type instruction and at the same time raise student grades by five percent and increase retention by almost seven percent," Col. Newhall said.

"Thus, one phase of the new science of electronics — television and its techniques — speeds training in another field of electronics — guided missiles," he declared.

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EXAMINATIONS ANNOUNCED

The local Civil Service Board of Examiners has issued announcements 5-35-19 through 5-35-21 (59) which list a need for development assemblers (guided missile) at W-11 (\$2.72 per hour); machinists at W-10 (\$2.57 per hour), aircraft metal formers at W-11, electronic equipment installer and repairer at W-11, and teletype operators at GS-3 (\$3495 per annum).

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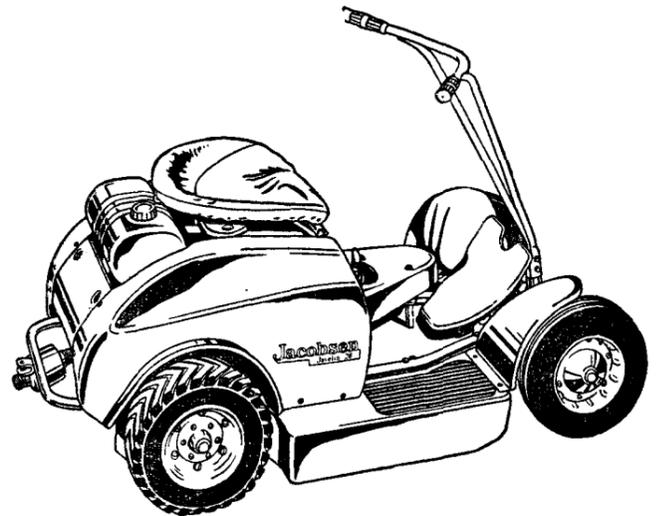
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ARSENAL SPELUNKERS EXPLORE UNDERGROUND FRONTIER

BY LT. GEORGE D. WEIR

Beneath the feet of the residents of North Alabama lies a frontier yet to be fully explored, the limestone caverns of this locale.

While a large segment of the population of this area are investigating the possibilities and means of exploring outer space, a group of Huntsville spelunkers are endeavoring to explore the very ground beneath us.

This group, members of the Huntsville Grotto of the National Speleological Society, include Army military and civilian personnel working here in Huntsville. Many of them are involved in both frontiers: space and the caverns. The individual interests or reasons for participating in cave explorations are as varied and numbered as there are members. Each has his own personal interest and reason which he couples with a group desire to explore the dark and hidden recesses of the earth.

The Huntsville Grotto has been in being for several years. They have discovered, explored, and surveyed several hundred caves in the immediate vicinity. The results of these explorations are not lost, as all the data gathered, such as temperatures, type rock formations, surveys, fauna observed, underground water sources,

es, etc., are furnished to the State Geologist, Dr. Walter B. Jones. This information is then used in preparing the State of Alabama Geological reports.

In addition to the scientific interests one acquires, there is also the physical aspect. For those who repose behind a desk all week, the cave trips provide a real source of exercise. This exercise may consist of walking, crawling, rock climbing, use of ropes and ladders and an occasional dunking in a pool of clear, cold water. The spelunker upon leaving a cave is normally covered with mud, wet, cold and has aching muscles. However, he has a sense of accomplishment in that he perhaps has seen a sight never before seen by humans. Perhaps he has been the first person to ever tread upon this soil. Again, through his persistence, an entirely new section of cave may be opened for exploration in one previously considered fully explored.

Whatever the reason for the individual participation in cave exploration, it is the close knit team work, confidence in his fellow explorer's abilities and the channeling of all their energies toward one goal which provides the end product; a fully explored, surveyed cave complete with a comprehensive report on its biological, geological and hydrological aspects.

Exploring caves can be dangerous—however, the drive to and from the cave is considered the most dangerous portion of the entire trip. One of the greatest fears of a spelunker is that of being injured or lost in a cave. To prepare for such an emergency before it happens is often the most effective deterrent and the Huntsville Grotto has attempted to do so by establishing a Rescue Team. The members of this team are fully qualified cavers who have exhibited their abilities in performing certain functions. These include knowledge of various type knots, the ability to rappel (descend a rope) and prusik (ascend a rope), belay or safety the member climbing, hold a current first-aid card, etc.

The rescue team is available continuously to aid an injured caver or locate lost groups. This team is also affiliated with the

ARGMA, ABMA Engineers Present Paper at IRE Meet

Representatives of the Army Rocket and Guided Missile Agency and the Army Ballistic Missile Agency will present four technical papers at the Third National Convention on Military Electronics June 29-July 1.

The meeting will be in Washington, sponsored by the Professional Group of Military Electronics of the Institute of Radio Engineers.

The papers and authors are as follows: Properties of Error Coefficients for Impact Accuracy Studies of Ballistic Missiles," by Stephen L. Johnson, ARGMA, "Considerations of the Effect of Instrument Errors on the Accuracy of Inertial Guidance Systems for Ballistic Missiles," by A. Harry Miller and Stephen L. Johnson, ARGMA. "A Preliminary Analysis of an Inic Thrust Device for Space

Those interested in joining the Huntsville Grotto or perhaps in taking an exploratory trip are invited to contact one of the following Grotto Officers for more details: Mr. James H. Johnston, Chairman, JE 4-9649, (RSA) ext. 6189; Lt. George D. Weir, Vice-Chairman, JE 6-0208, (RSA) ext. 5829; Mr. William Varnedoe, Secretary-Treasurer, JE 6-8607, (RSA) ext. 6526; Mr. Jack Allen, Property Custodian, JE 4-9745 (RSA) ext. 6276).

Flight Applications," by Robert N. Seitz and Manfred J. Raetner, ABMA.

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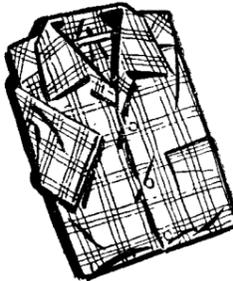
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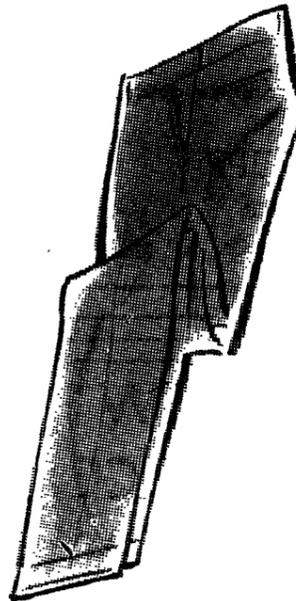
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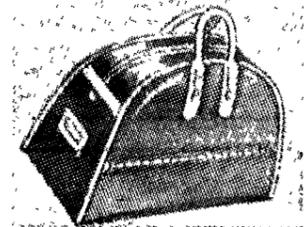
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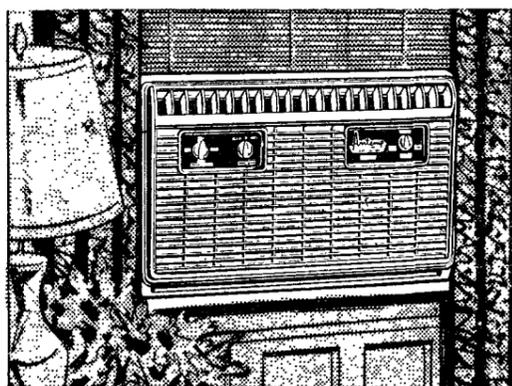
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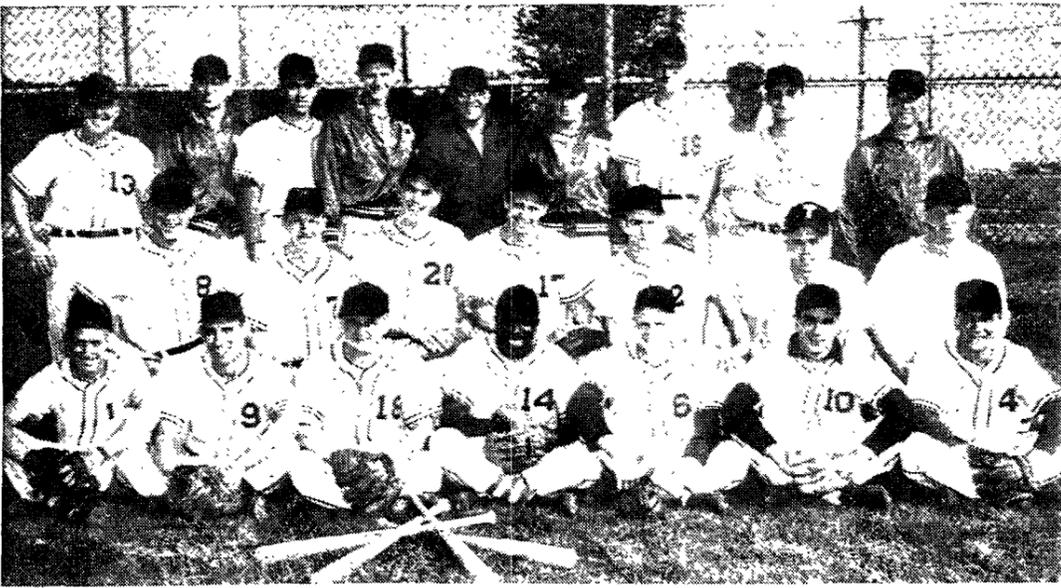
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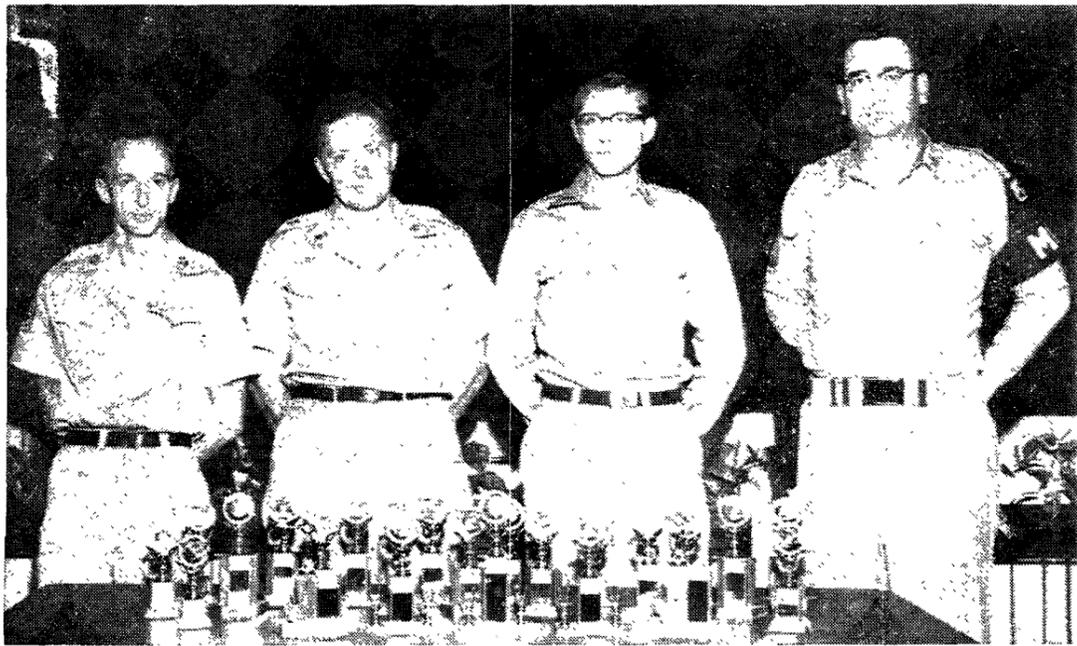
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LEAD COMPANY LEVEL TEAMS—The "B" Det OGMS baseball team has a record of 7 wins and no losses in the Company Level Baseball League. Following is a lineup of the team: Front Row: (Left to Right) Carl Gellis, Ewell Collins, Richard Kennedy, John Edwards, Harry Bobbitt, John Andre and James Varga. Second Row: (Left to Right) Larry Buschow, Bob Champigny, Robert Parker, Barry Snyder, Wade Burdick, Edward Schults, James Sweeny. Back Row: (Left to Right) Thomas McCusker (coach), Paul McQuennay, Kenneth Hunsicker, Marlin Vallent, Mickael Kronschabel, Donald Beech, Lloyd Ahlbrand, Thomas Grego, Robert Kinvin, Minds Campbell (manager).



PISTOL SHOOTERS TROPHIES—(Left to right) SFC Almer F. Beale, CWO Albert B. Start-up, Lt. Charles Schooley and Sgt. Jose Gonzalez, members of the Redstone Arsenal Pistol team, display a few of the trophies they have been winning at pistol matches in the Southeast.

BASEBALL SCHEDULE

June 24 Hq Det USAG -vs- "B"	Det OGMS 1930
June 25 M & I OGMS -vs- "A"	June 26 Hq Det UTC -vs- "B"
	Det OGMS 1930
	June 27 Hq Det USAG -vs- "B"

June 27 "B" Det ABMA -vs- "A" Det OGMS 1930
June 28 M & I -vs- Hq Det UTC 1630
June 28 "B" Det OGMS -vs- "A" Det OGMS 1930
June 30 Hq Det USAG -vs- "B" Det ABMA 1930

Announcement

It is with pleasure that I announce the re-opening of my optical office in the A. L. Hipp Jewelry Store, 103 North Washington Street.

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9-Hole Tournament Scheduled Today at Municipal Course

Twenty golfers participated in competition for low putt for nine holes held by the Golf Group of the Redstone Arsenal Officers Wives Club last Wednesday morning at the Municipal Golf Course.

Winners in the event were: Mrs. Glenn Crane, first flight; Mrs. J. A. Dasche, second flight; Mrs. W. R. Shoemaker, third flight; and Mrs. L. R. Daigh, first among new golfers.

Next week the group will hold a nine hole play for points tournament, followed by a bring your own picnic lunch and awarding of prizes to winners of events held during the last six weeks. Newcomers as well as regular members of the Group are invited to participate. Play will begin between 8:30 and 9 a.m., Wednesday morning at the Municipal Golf Course.

Wife: "Operas are so sad. The lovers all die in the end. They don't have a chance to get married."

Husband: "That's why they leave me unmoved—they die before they find out what real suffering is."

Safety Scoreboard

(As of 22 June)

Days since last civilian disabling injury	9
Our goal	60
Days since last military disabling injury	29
Our goal	45
Days since last contractor personnel disabling injury	11
Our goal	50
Days since last government motor vehicle accident	3
Our goal	30

DRIVING RECORD (Government Vehicles)

(As of 22 June)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	9	5
Post Engineer Div. (RSA)	10	3
Provost Marshal Div. (RSA)	11	13
Depot Operations (RSA)	9	37
All Other RSA	3	26
Thiokol (ARGMA)	6	24
All Other ARGMA	3	66
OGMS	10	4
ABMA	15	13

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 Monday thru Friday 0900-2200
 Saturday and Holidays 1000-2200
 Sunday - 1200-2200
CRAFTS SHOP OPERATING HOURS
 Monday thru Friday 1000-2200
 Saturday and Holidays 0800-

Massachusetts Firm Gets ABMA Contract

The Western Massachusetts Contracting Engineers, Incorporated, of Great Barrington, Mass., have been awarded a \$21,137 contract by the U. S. Army Corps of Engineers to build three hazardous materials test cells at Redstone Arsenal.

The cells, which will be used by the U. S. Army Ballistic Missile Agency in testing the compatibility of materials in contact with liquid oxygen, oxidizers and other fuels, will form an extension to an existing test facility.

The contractor is expected to commence work shortly and to have the cells ready for use before the end of September.

1630
 Sunday - Closed
RSA BOWLING LANES OPERATING HOURS
 Monday thru Saturday 1200-2200
 Sunday and Holidays — 1300-2100.

GOLF DRIVING AND ARCHERY RANGE OPERATING HOURS
 Monday thru Friday 1300-2100
 Saturday and Sunday 1300-2000.

POST GYMNASIUM
 Closed indefinitely (except the Exercise Room which is open Monday, Wednesday and Friday nights from 1800 to 2100 hours.

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LAST TIMES TODAY

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Thursday & Friday

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A 20th CENTURY-FOX PICTURE

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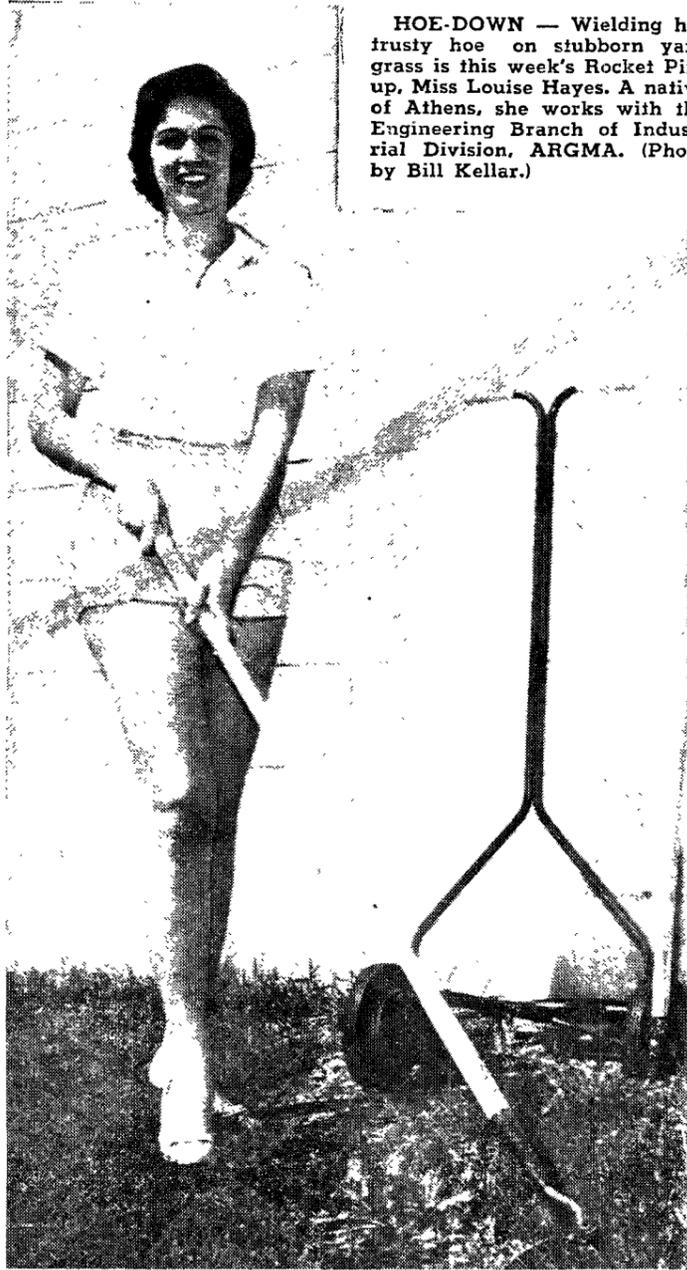
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HOE-DOWN — Wielding her frusty hoe on stubborn yard grass is this week's Rocket Pin-up, Miss Louise Hayes. A native of Athens, she works with the Engineering Branch of Industrial Division, ARGMA. (Photo by Bill Kellar.)

Movie Schedule

Wednesday, 24 June, "City after Midnight" starring Phyllis Kirk and Dan O'Herlihy. Time 1315, 1745 and 1945.

Thursday and Friday, 25 and 26 June, "Say One For Me" starring Bing Crosby, Debbie Reynolds and Robert Wagner. Time 1315, 1745 and 2015.

Saturday, 27 June, "Born to be Loved" starring Carol Morris and Hugo Haas.

Saturday, 27 June, SPECIAL MATINEE, "The Tin Star" starring Henry Fonda and Anthony Perkins. Time 1000 hours.

Sunday and Monday, 28 and 29 June, "Auntie Mame" starring Rosalind Russell and Forrest Tucker. Time 1400, 1745 and 1945. (Sunday); time 1315, 1745 and 1945. (Monday)

Tuesday, 30 June, "Return of the Fly" starring Vincent Price and Brett Halsey. Time 1745 and 1945. No Matinee.

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 1000 hours — Adult Bible Class in Library of Service Club.
 1100 hours — Sunday School 2nd Session — 3 yrs. of age through 3rd grade.
 1100 hours — Morning Worship
 The nursery for babies and small children is open during this service.
 1830 — Christian Youth Fellowship — Jr. High Young People and Senior High.
 Tuesday—1830 hours, EMCU.
 Wednesday — 1845 hours — Chancel Choir rehearsal.
RSA PARK — Sunday, 0945 hours — Sunday school classes.
 Morning worship — 1100 hours.

A Daily Vacation Bible School will be held at the Redstone Park Community Hall beginning Monday, 15 June, and continuing until Friday, 26 June. Sessions will be held Monday through Friday, from 0900-1100 hours. All Protestant children from age 4 thru the 6th grade are invited to attend this school.

JEWISH — Temple B'Nai Shalom (corner of East Clinton and Lincoln).
 Friday — 2000 hours — Regular service. O'Neg Shabbot (Sabbath Social) at Temple Annex.

CHRISTIAN SCIENCE SERVICES
 Sunday — 1100 hours — Held in Huntsville at White St. and Wells Ave. Wednesday evening meetings are held at 1930 hours.

CATHOLIC
 Sunday — 0745, 0845 and 1230 hours — Mass.
 Monday — 1900 hrs. Choir Rehearsal.
 Tuesday — 1930 hours — Novena in Honor of Miraculous Medal.
 Saturday — 1000-1130 hours — Altar Boys Class.
 Saturday — Confessions — 1800-1900 hours.
 DAILY MASS—1130 hours.



EXPLOSION PREVENTED—Prompt action by the fire crew and the surveillance inspector shown above with their branch and division chiefs recently prevented a serious fire and possible explosion in a railroad carload of 90% hydrogen peroxide. Damage to property was limited to \$47.00. They received a letter of appreciation from the Commander, Redstone Arsenal for the efficient manner in which they extinguished the fire. Left to right are: A. E. Chiles, deputy chief, Depot Div.; D. C. Swafford, ammunition Inspector, Surveillance Office; Wm. H. Klieber, Post Fire Marshal; M. P. Riggins, asst. fire chief; Gordon Thomas, crew chief; C. A. Copeland, firefighter; H. G. Falkner, firefighter; Lt. Col. W. G. Trainer, Post Engineer; Lt. Col. C. C. Rollins, Jr., asst Post Engineer.

New Intelligence and Security Officer Assigned at Cape

Capt. Prosper A. Fagnant, has been assigned as Intelligence and Security Officer with the Army Field Office, Atlantic Missile Range, at Cape Canaveral, Fla.

Capt. Fagnant was formerly with the Provost Marshal General Center at Ft. Gordon, Ga., where he was a student from August 1957 until May 1958, and then served as Assistant for Logistics until May 1959.

He entered the Army Air Corps in 1941, following his graduation from Blackfoot, Idaho, High School. He served with the Corps until 1947 when he became a member of the U. S. Army. His service career includes overseas

in July 1958 and was assigned as a student at the Ordnance Guided Missile School, Redstone Arsenal, Ala., prior to joining the Command in April 1959.

He is a graduate of Westchester Community College, White Plains, N. Y., and received his BS degree in Physics from Hofstra College, Hempstead, N. Y. He is a member of the Reserve Officers Association, the Association of the U. S. Army and Kappa Rho Fraternity.

duty in France and Germany, and he received the Army Commendation Medal in November 1946 at Orly Field, Paris.

He is a member of the American Numismatic Association, and the Military Police Association. Capt. and Mrs. Fagnant, have one daughter, Charmaine Yvonne, who is ten years old.

Lt. Oliveto Assigned In Support Operations

Second Lieutenant Philip J. Oliveto, son of Mr. and Mrs. Phillip F. Oliveto of Yonkers, N. Y., has been assigned with the office of the assistant chief of staff for support operations at the Army Ordnance Missile Command.

Lt. Oliveto entered the Army

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ORGANIZE MANAGEMENT IMPROVEMENT PROGRAM—The Redstone Arsenal Depot Operations Division recently initiated an internal management improvement program designed to create "improvement-conscious" attitudes in the organization. The manpower ceiling makes full use of existing personnel resources a necessity, and so the program was mapped out by a Depot Operations staff group with the help of management analysts from the Redstone Control Office, with this in mind. The program includes training for employees, a list of suggested areas for improvement within each organization, a reporting medium, and centralized coordination. Seated (left to right) above are the organizers: Maj. R. A. Bergmann, chief, Consolidated Supply; Lt. Col. R. C. Skillinger, chief, Field Maintenance; James B. Ellis, Depot Operation supply officer; Lt. Col. R. G. Heller, director, Depot Operations; Ed Brazelton and John Debs, Redstone Control Office; Howard W. Blair, chief, Inspection; Ethel J. Overton, chief, Administrative Office. Standing (left to right) are: Weldon C. Neely, chief, Depot Programs Control Office; J. B. Engle, chief, Property Disposal; and John D. Stephenson, chief, Depot Division.

Enlisted Men Tour Pacific Islands and Recommend a Visit

PFC John Quigley of Det A, ARGMA and PFC Benard Weiner of the Medical Det. have recently returned from a 25 day leave spent visiting Hawaii, the Philippines, and Japan. In Hawaii they met PVT Tom Jameson of Det B, ABMA, who was also touring the Pacific. Transportation was on a "space available" basis with Military Air Transport Service and varied from flying boxcars to government-contracted commercial flights.

Five days in Hawaii were spent

at Fort DeRussy, an Army Rest and Recreation Center, which has excellent recreational facilities, in addition to being located at Waikiki Beach, Honolulu's beautiful resort section. Five days in the Philippines were spent with well-to-do friends, who spared no expense in showing the visitors around Manila, Quezon City and the University of the Philippines. Five days in Japan were spent at Oriental-style hotels, which were found to have very reasonable rates, good accommodations, and excellent service.

Both men said they were impressed with the hospitality and friendliness of the Oriental people they had met.

They reported a wonderful time at a cost of \$125.00 enthusiastically recommended overseas travel to anyone that is interested and can possibly afford it.

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Maj. Gay Is Assistant In AOMC Industrial Operations Division

Maj. Frank C. Gay, son of Carleton O. Gay of 118 N. Carver St., Warren, Pa., has been assigned to the Army Ordnance Missile Command as an assistant to the assistant chief of staff for industrial operations.

Maj. Gay was formerly with the Allied Land Forces in Central Europe where he served for three years.

He received his Bachelor's degree in business administration in 1938 from Ohio Wesleyan University, Delaware, Ohio, and entered the Army in May 1941. During World War II he served at the Los Angeles Post of Embarkation, Wilmington, Calif. After a brief tour of duty at Letterkenny Ordnance Depot, Chambersburg, Pa., from November 1948 until January 1949, he was assigned overseas with Headquarters, Central Command at Yokohama, Japan. He returned to the United States in 1952, and served the following four years with the Office, Chief of Ordnance, Department of the Army, Washington, D.C.

He received the Army Commendation Ribbon with Medal Pendant at Yokohama in 1951.

Maj. and Mrs. Gay have two children, Leslie Diane, who is 12 years old, and Laurie Ann, four years old.

Maj. Gay is a member of Sigma Chi Fraternity and the Elks.

Lt. Wright Assigned To Propulsion Lab

Lt. Richard H. Wright, son of Mrs. Vernard S. Wright of Monroe, Ga., has been assigned to the Propulsion Laboratory of the Ordnance Missile Laboratories Division at the Army Rocket and Guided Missile Agency.

Lt. Wright received his Bachelor's degree in mechanical engineering from Georgia Institute of Technology in 1958 and was employed as a power plant engineer at the Army Rocket and Guided Missile Agency prior to entering the Army in February 1959.

He is a member of the American Society of Mechanical Engineers and the Delta Sigma Phi social fraternity.

Lt. and Mrs. Wright, the former Diane Briscoe of Monroe, Ga., are residing in Huntsville, Ala.

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ARGMA Industrial Division Has Direct Communications

Present Business Is 60 Per Cent Faster

To the automation-minded, the communications system set up by the Industrial Division of the Army Rocket and Guided Missile Agency is a step toward an ideal situation.

Between the Philadelphia Ordnance District, the Western Electric plant at Burlington, N. C., the Industrial Division at ARGMA, direct communications include a radio-telephone, teletypewriter, teledata recorder-transmitter, and flexowriter to keep all parties up-to-date on Project Blue Sreak and related missile programs.

Project Blue Sreak maintains control of requirements and delivery of equipment. For instance, someone in the field finds a need for a part for a Nike-Hercules missile. No spares are available in any of the Army

storage areas so the manufacturer is contacted. In short order, under Project Blue Sreak, the part is in the hands of the outfit that had a shortage.

This is a communications experiment that will be permanent in July when the activities in the North and South Carolina areas are transferred from the supervision of Philadelphia to Birmingham Ordnance District.

Communications are routed on a direct wire through the Army Secure Voice and Data network at Atlanta to Philadelphia. Direct lines also lead into the Burlington, N. C. plant. So far, all the activities on these lines has been unclassified, but this can be changed with a communications "scrambler."

This is a forerunner of more machines and lines of communication which will network the country from coast to coast to keep Ordnance Districts, Arsenals, and key contractors in direct and constant communication on projects which involve each of them or all of them.

The Army Ballistic Missile Agency plans to become a part of this communication network later this year. However, to communicate with the instruments at the ARGMA site, clearance on the direct wire would be through the Atlanta Army Secure Voice and Data exchange.

Maj. H. W. Forner, chief of the Data Processing Applications Section of the ARGMA Industrial Division, had the equipment installed in a temporary area on a trial basis. Four persons, two teletype operators from his own section, Velma Edwards and Lanette Clark; and two soldiers, SP-4 Theodore B. Pearson and PFC. James More, operate the



DISCUSS COMMUNICATIONS SPEED-UP—Brig. Gen. J. G. Shinkle (seated) commander of the Army Rocket and Guided Missile Agency, and Maj. H. W. Forner, chief of the Data Processing Applications Section of the ARGMA Industrial Division discuss the communications speed-up on Project Blue Sreak, a method of prompt procurement for missile system spare parts, during a recent visit of Gen. Shinkle to the Data Processing Unit, a part of Maj. Forner's operation.

* * *

Data Processing Unit. Both of the soldiers have degrees in industrial engineering, Pearson's from George Washington University; and More's from Rensselaer.

It takes a small complement of humans to get the job done. But once a message is put into the machine, humans no longer need to worry except in operation of the controls.

The operator sets the original message. From then on the electronic equipment takes over without a changing word of comma. The machines are so handy with the data on the tapes that they promptly transfer the information from tape form to IBM cards for use in electronic digital computers.

At the same time the tape is being received, the flexowriter automatically types the message. The operators don't strain to keep the pace of 100 words a minute, but watch for mechanical change to operate the proper controls while the machines do the work.

According to Maj. Forner, this communication system will speed up the exchange of information an estimated 60 per cent which in turn will allow for that much more business activity in a day's

* * *

time. Teletype machines have been a part of the industry-armed forces communications system as a matter of course since the end of World War II, but letting the machines do all of the work has been the result of more recent automation.

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EMPLOYEES OF THE SAFETY SERVICES DEPARTMENT at Thiokol's Redstone Division look over the 8,000 silver dollars awarded to Thiokol employes for their achievement of 2,000,000 man-hours without a lost time injury. L. to R.: Fred Ingram, safety inspector; W. L. Childress, assistant safety engineer; Rosemary Brubaker, safety services; Ester Wilkes, safety services; Jack Harbarger, chief safety engineer; Mary Cash, registered nurse; and Harold Rush, assistant safety engineer.

Two Million Hours Worked Without Lost Time Accident

Thiokol Chemical Corporation (Redstone Division) recently achieved a total of 2,000,000 man-hours without a lost-time accident. In celebration of the accomplishment the Division presented four silver dollars to each of its two thousand eighty-five employees.

In March of this year the Red-

stone Division reached the 1,000,000 man-hour goal and two silver dollars were presented to each employee at that time. A total of one hundred eighty-five days passed to achieve the two million mark. Last July the Division's record was within 125,000 man-hours of reaching the highly desired 3,000,000 mark. The record was broken when a piece of metal dropped on a worker's foot resulting in lost time from the job. Safety shoes worn by the worker prevented serious injury, but did not prevent lost time.

The Division is now working toward the hoped-for 3,000,000 man-hours goal, and an all-out effort is being made to carry the current string of consecutive man-hours without a lost-time accident to that mark.

SAFETY GOAL REACHED

An announcement from the Redstone Safety Division stated that the military goal of 30 days without a disabling injury was reached on June 22. The new goal is 45 days without a disabling injury.

BENGTSON TELLS OGMS GRADS TO STUDY OVERTIME

The amount of off-duty time that Ordnance Corps officers assigned to missile duties devote to keeping abreast of rapidly changing technology will largely determine the rate of their advancement to higher ranks.

This advice was given to 44 company grade officers here last week by Lt. Col. Nils M. Bengtson, deputy chief of staff for research and development of the Army Ordnance Missile Command.

He spoke at the graduation of two classes of company grade officers completing their studies at the Ordnance Guided Missile School. There were 44 graduates, evenly divided between courses in anti-aircraft and field artillery guided missiles.

The requirements of missile technology have become as demanding as those of the medical profession, he said, because both sciences are in the midst of "technical explosions" that are constantly changing the techniques of day-to-day work.

Honor student of the anti-aircraft class was Capt. Hal D. White, of Wichita Falls, Texas. He has attended Hardin-Simmons University, Louisiana Polytechnic Institute and Louisiana State University and is being assigned to Germany.

Capt. Arthur G. Lange Jr., of West Allis, Wis. took top honors in the field artillery class. He attended the University of Maryland, served in the Pacific during World War II and is being assigned to White Sands, N. M., Missile Range.

Wantads Will Bring You Money

University Offers Citizenship Courses

A free course in citizenship for persons preparing to become American citizens will be offered at the University of Alabama Huntsville Center beginning June 22 and continuing for eight weeks. The course will meet at 8:00 p.m. in Room 4 of the Butler High School building.

Designed primarily to aid persons to pass the citizenship test, this course is the third in a series taught at the Center during the current year. Materials for the course are furnished free of charge by the Immigration Naturalization Service and the Twickenham Chapter of the Daughters of the American Revolution.

The instructor for the course

Rhymes of the Times

AN EXPLANATION IS CLOSE AT HAND. IF WE BUT ASK WHAT WE DON'T UNDERSTAND.



will be Dr. Frances Roberts, assistant professor of history at the University of Alabama Huntsville Center.

Persons desiring to take this course, and who want more information, may call the University Center office at JE 6-1596.

Mary: "The man I marry must be a hero."

Sue: "He will be."

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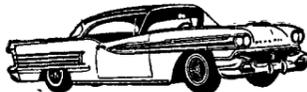
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ORYE W. LESSOR

O. Lessor Is Named Week's Safe Worker

The safe worker of the week, selected by the Safety Committee for the Engineering and Quality Assurance Branches of the Industrial Division ARGMA, is Arye W. Lessor. Lessor is an engineering technician in IEEF.

Lessor came to the Arsenal two and a half years ago after the Cornhusker Ordnance Plant at Grand Island, Neb. closed. Lessor was ordnance line inspection supervisor at Cornhusker. Prior to this, he was supervisor at the Naval Ammunition Depot, Hastings, Neb.

During the fourteen years that Lessor has been employed in civil service work he has not received a disabling injury. He has received several commendations for being a safe employee. Lessor is quick to point out that you cannot establish a good safety

record unless each individual is willing to assume their safety responsibilities.

Prior to working in Civil Service, Lessor served seven years in the Navy. In 1940, while serving on the aircraft carrier, Saratoga, Lessor had his right leg amputated near the knee when the hatch of a torpedo warhead locker fell on it. The accident was the direct result of the failure of an electric hoist.

Shortly after being discharged from the Navy, Lessor served as probate judge in Lincoln County, Kan. He and his wife, Mary, are both natives of Lincoln. They have two sons, Mike 15, and Pat 6. Mrs. Lessor is a registered nurse but spends all her time as a housewife at 610 1st Avenue, Athens, Alabama.

Lessor's main hobby is inventing items for his children's enjoyment. At the present time he is engaged in redesigning an electric car which he made for his son. Lessor has patents on a folding chair and beginner skates.

Lessor attributes his safety consciousness to his accident experience nineteen years ago.

Sign in a wig store: "Baldness is a bad crisis coming to a head."

Capt. Guilford Assigned ABMA Training Division

Capt. William B. Guilford, O-wosso, Mich., has been assigned with the Training Division at the Army Ballistic Missile Agency.

Capt. Guilford entered the U.S. Navy in 1943, completing basic training at the Great Lakes Naval Training Station, and serving throughout World War II. He received his U. S. Army commission in October 1950 following completion of Officers Candidate School at Ft. Riley, Kansas.

He was awarded the Army Commendation Ribbon with Metal Pendant in 1952 for service with the Eighth Army in Korea.

He is a member of the Association of the U. S. Army and the VFW.

Capt. and Mrs. Guilford reside on post with their three children, Margaret Lynn, seven years old; William B., four years old; and Michael B., one year old. Mrs. Guilford is the former Margaret Lynn Gilmer of Louisa, Va.

LT. HALLUM ASSIGNED

Lt. Maurice M. Hallum III, son of Mr. and Mrs. Maurice M. Hallum Jr. of 1123 Jefferson Ave., East Point, Ga., has been assigned to the Ordnance Missile Laboratories Division at the Army

Rocket and Guided Missile Agency.

A 1958 aeronautical engineering graduate of the Georgia Institute of Technology, Lt. Hallum was employed as an aeronautical research engineer with the Army Rocket and Guided Missile Agency prior to entering the Army this month. He is a member of the Institute of Aeronautical Sciences.

Lt. and Mrs. Hallum, the former Isabelle Winters, daughter of L. Guy Winters of 1026 Lynhurst Dr., S.W., Atlanta, Ga., have one son, Michael Guy, who is two years old.

Rhymes of the Times



TO MAKE IDEAS FLOWER,
HITCH HORSE SENSE
TO HORSEPOWER

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FOR RENT — 1 bedroom trailer, couple only, 311 Holmes Ave., N. E. City Trailer Park. No phone calls please. 1tc

FOR SALE — Gas range, deluxe model, 36" - 4 burner center griddle table top, light, clock, timer, excellent condition, Pho. JE 2-5539. 1tc

FOR SALE — Upright piano with bench, excellent condition. \$115.00. Phone Redstone extension 7647. 1tp

FOR SALE — Beautifully wooded lakefront lot. Located at Poplar Point on Wheeler Lake. Limestone County, Ala. Phone JE 4-1019 1tp

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1955 MERCURY 2-door hardtop, r.h.d. with w.w. Low mileage and good running condition. Call Frank Soltes, ext. 5642 or Holiday Inn Hotel, rm. 202. 1tp

FOR SALE — 1955 Jaguar XK 140MC Roadster, radio, plastic hardtop, Michelin-X tires \$1,900.00 Ext. 4079. After 4:00 p.m. call JE 2-8124 or see at 4201 Holmes Ave., West. 1tp

FOR SALE — Solid Colonial maple dinette extension table, 4 chairs, \$45., solid maple bookcase 36x36, \$30., satin finish mahogany buffet server 28½x39x16, \$30., Phone JE 4-1197. 1tc

FOR SALE — 1954 — 1 bedroom Lighthouse trailer, 28' x 8', air conditioned, built in TV. Contact Sp-5 Allen at Arsenal extension 6427. 6-24-c

FOR SALE OR RENT — 2 bedroom, modern home, new, located in Fayetteville, Tenn. Call HE 3-3408 in Fayetteville. 1tc

FOR SALE — beautiful residential lots, 80 by 120 ft. one-half mile from Fayetteville, Tenn. have shade trees, city water. TVA Electric, and natural gas. \$400 to \$500 Bldg. restricted in whole sub-division. Phone HE 3-5329 — Mrs. George B. Creson, Rt. 5, Fayetteville, Tenn. 6-24-p

FOR SALE — SK-120 Jaguar enclosed coupe, recently overhauled and re-upholstered, 3,000 miles, good w.w. tires, radio, heater, contact Gerald M. Thompson, Redstone extension 5520. 1tc

FOR SALE — Complete Acqualung outfit, new, includes tank, regulator valve, hose and accessories, retail price \$170, will sell for \$100. Call Hardy, ext. 4523. 1tc

FOR SALE — 1956 Cadillac 60 Special Fleetwood, full power, air conditioned, exceptionally clean, leather interior, new tires, solid black, \$2,895. Call Redstone extension 5631 ask for E. L. Poole. 1tc

FOR RENT — 4-bedroom home in Guntersville, 347 Hill St. Brick, two full baths, a half-bath and a basement lavatory. Extra large living room, dining room and kitchen, d.s.h., washer and garbage disposal, central heating. GUS SMITH, 701 Ligon St., Guntersville, Justice 2-3939. 7-1c

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FOR SALE — Three bedroom house on Whitaker Lake located on large water front lot. All modern conveniences, electric heat, covered dock with storage house - 45 minutes from arsenal. Ideal year around home. Call Guntersville, JU 2-4826. 7-8-p

CHOICE LOTS FOR SALE — 100' x 150' on Winchester Road, close to Pulaski Pike, highly restricted area, Philip Brosemen, phone JE 4-1464. 7-1-c

HOUSE TRAILER for sale. 1959 Marlette, 50x10, 2-bedroom, bath, shower, front kitchen. Pay small down payment and assume payments on balance. Located at French's Mill on H'way 72. Phone Athens 613-M. 1tp

FOR SALE — 1952 Plymouth, 2-door, radio, heater, w. w. tires, clean, \$295. Phone Redstone ext. 3071. Chas. Bobo. 1tc

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FOR SALE — 1958 ELCAR mobile home, 40'x10', 2 bedroom. Excellent for couple with small child. Contact SP-5 Clarkson, Ogle's Trailer Park (Lot 76) or Arsenal Ext. 5524. 6-24p

FOR SALE — Wooded waterfront lots, Holiday Shores — Honeycomb Lake, Guntersville, 25 miles from Huntsville off Highway 431 adjacent to Snug Harbor, terms available, call Huntsville JE 6-6767 or Guntersville JU 2-3258. 6-24c

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ARPA Is Assigned Ten Space Projects

Washington (AFPS) — Authorized under its charter to engage in advanced projects assigned by the Secretary of Defense, the Advanced Research Projects Agency (ARPA) was established on Feb. 7, 1958.

Directed by Roy W. Johnson since that date, ARPA is a combination of one staff-type division and three operational divisions.

The staff section of ARPA is the Advanced Research Projects Division, which is part of the Institute for Defense Analyses. This division is staffed by 50 scientists and engineers and organized into three major branches: Ballistic Missile Defense, Space Technology and Solid Propellants.

Functioning under the Director and Deputy Director—Rear Adm John E. Clark—the operational divisions are: Policy and Planning, Technical Operations and Financial Management and Reports.

Basically, ARPA is responsible for projects in three general areas—military space technology, advanced research and development of future ballistic missile defense, and propellant chemistry.

At the present time the agency is working on ten projects. They are:

PROJECT SATURN — a new space booster, consisting of a cluster of eight ballistic missile type liquid propellant rocket engines, with a total thrust capability of about 1,500,000 pounds. It is expected to enter flight test status in late 1960.

PROJECT DEFENDER — the entire ARPA effort in the field of ballistic missile defense, consisting of more than 50 programs.

PROJECT MIDAS — the development of an early warning system against ballistic missile attacks based on the use of satellites.

PROJECT DISCOVERER — an "open-end" research program for the development of advanced space vehicles and systems to perform sophisticated tasks in space.

PROJECT TRANSIT — a sys-

tem of using satellites for navigational purposes. It is planned to provide an instantaneous, all-weather system for determining position at any point on the globe by passive means.

PROJECT COURIER—the first phase in the development of a communications satellite system.

PROJECT "MRS. V" — a program designed to conduct the research necessary to produce a maneuverable, recoverable space vehicle.

PROJECT SENTRY — the development of an advanced satellite reconnaissance systems.

PROJECT CENTAUR— design-

Operation Blonde

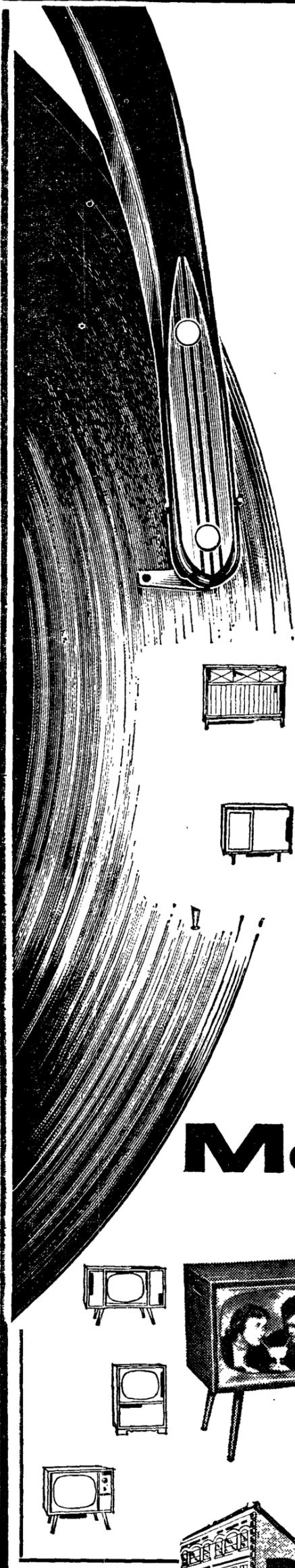


ed to produce a new high energy upper stage engine to provide a four-to-five-ton payload capability when used as a second stage to an ICBM booster.

PROJECT ORION — the study of the possibility of using controlled nuclear detonations to propel a rocket.



GLISTENING GAMS — Aleta Morrison, billed as "the girl with the most beautiful legs in Europe," displays her riches along with a million-dollar smile.



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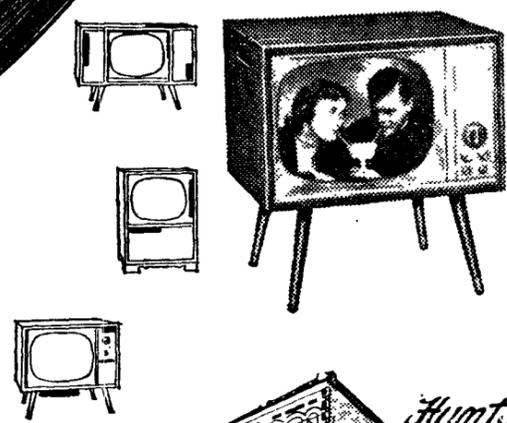
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