

The Redstone Rocket

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VOL. VIII, NO. 19

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 9, 1959



BRIG. GEN. AND MRS. J. M. COLBY

Gen. Colby to Retire After 36 Years Service

Brig. Gen. Joseph M. Colby, deputy commanding general, U. S. Army Ordnance Missile Command, announced his intention Sept. 6 to retire from active military service.

Gen. Colby's Army career covers a period of approximately 36 years and includes duty in North Africa and Europe during World War II and in Japan and Korea during the Korean Conflict.

On graduation from the U. S. Military Academy Gen. Colby was commissioned in the U. S. Cavalry. He selected the Cavalry because it was the most mobile branch of the Army at that time. He served two years with the 8th Cavalry Regiment, a part of the First Cavalry Division, Fort Bliss, Texas.

He has played an important role in passing the Army's top mobility capability through the tank-automotive phase during World War II to the present missile speeds in excess of 24,000 miles an hour — missiles which have a capability of escaping the gravitational pull of the Earth for

(See GEN. COLBY on Page 2)

CD MEETING IS SCHEDULED TUES.

The program for the Civil Defense orientation at the Rocket Auditorium on Sept. 15 includes a briefing on strategy in the Civil Defense program by James H. Kelley, advisor on the Survival Planning Staff for State Civil Defense, it was announced by the commander of Redstone Arsenal, Col. O. T. McCloskey.

Registration for the all-day meeting will begin at 8:10 a.m. and Kelley is scheduled to begin speaking at 8:40 a.m. Howard Slayden in the Redstone Arsenal S-3; Office, Civil Defense Coordinator, will open the meeting and introduce the speaker.

Maj. Charles W. Dutreau, a member of the staff and faculty for the U. S. Army Chemical School at Ft. McClellan will discuss effects of wartime weapons such as chemical and nuclear warfare.

In the afternoon, Chaplain (Maj.) James H. Goewey is scheduled to speak on the ideological

(See CD TO MEET on Page 3)

\$4.5 MILLION IN CONTRACTS AWARDED IN NIKE ZEUS PROGRAM

Contracts totaling nearly \$4,500,000 have been awarded to construct facilities at three sites for the eventual testing of the Nike Zeus Anti-Missile System, the Department of the Army announced last week.

Two of the sites are on Pacific Island and the third is on the West Coast, according to Maj. Gen. J. B. Medaris, commanding general, U.S. Army Ordnance Missile Command, who is responsible for the overall program.

The Nike Zeus, designed to become the nation's first weapon to intercept intercontinental ballistic missiles, is the third in the Nike missile family built for the Army by the Western Electric Company. Its forerunners, Nike Ajax and Nike Hercules, were built for defense against attacking aircraft and air-breathing missiles.

The contracts announced last week are for facilities on Kwajalein and Johnston Islands and at Point Magu, Calif.

Construction at these sites will make possible a test program leading to the future demonstra-

tion of capabilities of the Army's Nike Zeus system.

An earlier allocation for the Zeus program involved awarding of nearly \$4,000,000 in contracts for special construction at the White Sands Missile Range, New Mexico, an element of the Missile Command.

For activity at Kwajalein, contracts totaling \$3,260,609 were awarded to Pacific Construction Co., Ltd., of Honolulu, Hawaii; to Reed and Martin Company, Fairbanks, Alaska; and to H. B. Zachry, Inc., San Antonio, Texas. The contracts were let by the Army Engineer District, Honolulu, Hawaii, for a joint venture by the three corporations.

Work on Kwajalein, a two by one-half mile island, concerns at this time establishment of some elements of a Zeus firing battery.

The Johnston Island project calls primarily for adding some 23 acres to the tiny island, 1,650 miles east of Kwajalein, by means of a dredged fill. A contract for \$590,776 was awarded by the

(See \$4.5 MILLION on Page 3)

NASA DIRECTOR VISITS AOMC FOR FIRST TIME

Key officials of the National Aeronautics and Space Administration visited the headquarters of the Army Ordnance Missile Command last Thursday to review NASA programs assigned to Command elements.

Dr. T. Keith Glennan, NASA Administrator and his associate, Richard E. Horner, were greeted by Major General J. B. Medaris, Commanding General, on their arrival from Washington.

Other NASA officials included Dr. Abe Silverstein, Director, Office of Space Flight Development; Dr. William Randolph Lovelace, II, chairman of NASA's special committee on life sciences, and Robert L. King, special assistant to Mr. Horner. They were escorted by David Newby, NASA representative to AOMC.

Dr. Glennan heard reports on the status of the Army's participation in Project Mercury, the man-in-space program, which involves the launching of several Redstone Ballistic Missiles to test the man-bearing capsule.

He was also briefed on the Saturn space system, for which the Army Ballistic Missile Agency is developing a clustered booster which will generate 1,500,000 pounds thrust.

The NASA visitors toured the laboratories in which Saturn components are under fabrication and saw components of the vehicle's shell, and propulsion units, guidance and control systems. They also visited the Test Area where the giant test tower is undergoing modification to accommodate the Saturn cluster.

Dr. Glennan and his staff left Redstone Arsenal enroute to the Atlantic Missile Range at Cape Canaveral, Fla.

The Redstone visit was the first by Dr. Glennan this year and was part of a schedule of visits the NASA Administrator is making to installations across the country who are supporting the NASA space program.

* * *

United Givers Fund Drive Begins Sept. 21

21 Agencies Supported By United Givers Fund

Twenty-one humanitarian or service agencies are now supported by the United Givers Fund of Huntsville and Madison County.

They are: the Alabama Society for Crippled Children and Handicapped Adults, the Salvation Army, the Huntsville Boys Club, the Christmas Charities, the American Red Cross, the Central YMCA and the West Huntsville YMCA, the Church Street Community Center, the Grace Club Day Care Center.

The Council Day Care Center, the Madison County Mental Health Association, the P.T.A. Milk Fund, the Boy Scouts of America, the Girl Scouts of America, the United Jewish Appeal, the Community Council, the American Hearing Society, the American Social Hygiene Association, the U.S.O., the National Travelers Aid, and the National Recreation Association.

Four agencies have affiliated with the U.G.F. since the 1958 drive: the Christmas Charities, the Council Day Care Center, the Community Council and the American Social Hygiene Association.

In order for Arsenal contribution (See 21 AGENCIES on Page 2)

Decatur Trade School Needs Instructors

The Tennessee Valley State Trade School at Decatur, Ala. has announced the need for instructors in several areas.

According to Carlton Kelley, director, there is a need for commercial teachers, lunchroom manager class instructor, airplane mechanic technician and technical drafting instructors.

Salaries for these positions are based on a twelve-month year. Qualified instructors obtain further information by writing P. O. Box 97 at Decatur.

The 1959 United Givers Fund Drive will be launched at Redstone Arsenal on Sept. 21, Maj. Gen. J. B. Medaris, the drive chairman, announced.

The annual campaign will cover all agencies and contractors located on the post.

"This is the third year that the personnel of this installation have joined in the Huntsville-Madison County United Givers Fund," General Medaris said. "I am confident that all of us will meet, in our customary generous fashion, the challenge of supporting the worthy agencies participating in the UGF."

Executive chairman of the Redstone drive is Jackson Balch, Chief of the Control Office of the Army Rocket and Guided Missile Agency's Research and Development Division.

Jay Fryman, programs specialist in the Air Defense Branch of the ARGMA Research and Development division, is executive secretary.

The various agency and contractor chairmen and members of the executive committee will be announced soon.

The Redstone drive will end Nov. 5.

The 1958 drive netted some \$245,881. Redstone Arsenal personnel contributed \$154,862.

This year's overall goal for Huntsville and Madison County is \$321,380.

"No specific goal has been set for the arsenal," Mr. Balch said. "However, we are suggesting that individual contributors give 80 per cent of one day's pay as a fair share."

Some 21 agencies now participate in the UGF. These agencies provide services to a variety of causes, ranging from treatment of crippled children to support of the P.T.A. milk fund.

The date of the UGF "kickoff" meeting will be announced next week. Expected to attend are several hundred solicitors, and RSA committee members, plus representatives of the Huntsville drive organization.

(See UNITED on Page 3)



DR. KEITH GLENNAN (left), Administrator of the National Aeronautics and Space Administration, chats with Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command, upon his arrival at Redstone Arsenal Sept. 3. Dr. Glennan and other NASA officials were briefed on projects AOMC elements are carrying out for NASA.

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday at no expense to the Government by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

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GEN. COLBY

(Continued From Page 1)
future exploration into space.

Born in Iowa

He was born in Lake Mills, Iowa and attended public schools there. He studied at Virginia Military Institute and the State University of Iowa where he was commissioned Second Lieutenant of Infantry while a member of the Senior ROTC. He then entered the Military Academy, graduating in 1929. Later he received a Master of Science degree from Massachusetts Institute of Technology.

He has also completed the regular courses of the Army Industrial College and the Command and General Staff College.

Gen. Colby was commissioned Second Lieutenant of Cavalry in the Regular Army June 13, 1929. He served with the Air Corps until detailed to the Ordnance Department in August, 1931, and has been on active duty in Ordnance since that time.

Lend Lease Observer

During the Lend-Lease period prior to U. S. entry in World War II Gen. Colby served as a special observer with the British Army in the Libyan Desert. He supervised the establishment of schools, depots and maintenance shops for the training of British personnel in the care, operation and maintenance of American tanks. He surveyed sites for Lend-Lease bases in Africa, India, Palestine, Iran and Iraq.

He was selected for this mission because he had designed the medium tank, M-3, better known as the General Grant and the General Lee, and the M-4, known as the General Sherman, in 1940 and 1941.

He accompanied the British forces when they drove Rommell west from the vicinity of Solum to El Agheila. For his work there he received the Order of the British Empire and the U. S. Legion

of Merit.

Chief of Tank Program

From 1942 until 1945 he was chief of the tank-automotive development program of Army Ordnance, responsible for the design, development and procurement of enormous quantities of wheeled and tracked vehicles required by the U. S. and allied armies. Early in 1945 he went to Europe for a special mission involving the heavy M-26 tanks employed with devastating effect against the Germans.

At the close of the war he was industrial operations chief and headed the engineering and manufacturing division at Detroit Arsenal. He remained there as chief of Development and engineering until 1951 when the Korean action required his presence in Japan and Korea. He assisted in rehabilitating Japanese industry to develop a near source of essential supplies. He was with the U. S. 2d Armored Division when it met the onslaught of the initial Chinese invasion of Korea on the Sinanju River.

In March, 1951, he was ordered to England as Chief of the Production Resources Division, Office of the Senior U. S. Representative to the North Atlantic Defense Production Board. He was responsible for procurement planning related to off-shore procurement of Ordnance materiel.

Organized Procurement

In February, 1952, he was assigned to organize the Ordnance Procurement Center in Heidelberg, Germany. There he managed the ordnance portion of off-shore procurement designed to provide munitions to the SHAPE armies, to foster industrial rehabilitation and economic recovery of Europe, and further U. S. diplomatic and political objectives.

Despite the complexity of the task, involving differing languages, customs, laws and monetary systems he coordinated the enterprise so successfully that contracts

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valued at \$1,500,000,000 were placed and administered in 14 countries of Europe and Asia Minor.

Prior to his current assignment which began in July, 1958, Gen. Colby commanded the Ordnance Ammunition Command, Joliet, Ill., and Frankford Arsenal, Philadelphia, Penna.

Gen. Colby's decorations include the Legion of Merit with Oak Leaf Cluster, the Bronze Star Medal, the Army Commendation Ribbon with Metal Pendant, the American Defense Service Medal, American Campaign Medal, Europe-Africa-Middle East Campaign Medal, Asiatic-Pacific Campaign Medal, World War II Victory Medal, Order of the British Empire for Merit, Korean Service Medal, United Nations Service Medal, Occupation Medal (Germany), Department of Defense Identification Medal, and the National Defense Service Medal.

Is Military Expert

A leading expert in the design, manufacture and use of tank and automotive equipment for military purposes, Gen. Colby conceived, developed and patented many devices covering the transverse transmissions, air cooled engines, torsion bar suspensions, gun mounts, vision devices, and other mechanisms now employed in U. S. Army tanks. He has suc-

cessfully carried through developmental to acceptance and standardization more items of military equipment than any other Ordnance officer in history.

Under his direction many other important projects were carried to successful conclusion such as swimming devices, fording equipment for all vehicles, winterization equipment, mine exploders, improved fire control, collective and individual gas proofing, pressure ventilation and improved floatations.

He has contributed many technical papers to "Armor," "American Ordnance," "The Journal of the Society of Automotive Engineers" and other publications.

Gen. Colby is a member of Rotary, the Association of the U. S. Army, and the American Ordnance Association.

His mother, Mrs. Millie J. Colby, resides in Lake Mills.

His wife, the former Margaret Capelle Brisley of Wayne, Penna.,

21 AGENCIES

(Continued From Page 1)
tors to learn more specifically the purpose and service rendered by UGF agencies, additional information about each agency will be made available in the Rocket during the campaign.

Three Generals Will Go to New Posts

Washington (AFPS) — Three Army lieutenant generals will be reassigned this fall, Army Secretary Wilber M. Brucker announced.

Lieutenant Gen. Edward T. Williams, deputy commanding general of the Continental Army Command, will replace Lt. Gen. Guy S. Meloy as Fourth Army commanding general. The transfer will take place in September.

General Meloy will take command of the VII Corps in Europe in mid-October.

The commander of the VII Corps, Lt. Gen. Gordon B. Rogers, will return to the United States to become deputy commander of the Continental Army Command in mid-November.

TO HOLD ELECTION

The Holy Name Society at Redstone Arsenal will hold an election of officers at the Post Chapel tonight at 8 p.m., Chaplain (Maj.) John A. Zwack, Catholic Chaplain announced.

A guest speaker will address the group.

resides with the General at Redstone Arsenal. They have two children, Carol, who is married and living in London, England, and Janice, who attends school in London.

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CD TO MEET

(Continued From Page 1)
and spiritual phases of Civil Defense, including the atheistic foundation of communism and the religious basis of democracy. Maj. J. M. Stryker, information services staff officer for the Montgomery Air Defense Sector at Gunter Air Force Base will outline the warning and communications systems which will be used to warn and direct the civilian population as well as the military.

Others on the program include Ransom E. Crawford, director-coordinator of the Huntsville-Madison County Civil Defense Corps, Cecil E. Hammett, chief, Radiological Service, Huntsville-Madison County C.D. Corps. The Redstone Arsenal Emergency plan will be discussed by Capt. John V. Yelverson, assistant S-3 at Redstone Arsenal, and Robert Labbe, physical security coordinator from the Redstone Arsenal Provost Marshal Office will outline the evacuation plan.

Coordinators for this meeting in the different Agencies are: Harold Katz, Army Ballistic Missile Agency; Col. Lester H. LeVine, Army Ordnance Missile Command, Joe Hand, Army Rocket and Guided Missile Agency; Maj. Fred O'Brien, Ordnance Guided Missile School; and Howard Slayden, Redstone Arsenal. Approximately 150 reservations were made for representatives.

\$4.5 MILLION

(Continued From Page 1)

Honolulu Army Engineers to Wayne Construction Co. and Reed & Martin, Inc., of Seattle, Wash., in a joint venture.

Johnston Island, a mile long and one-half mile wide, will be a site from which simulated ICBM's will be launched by the Army to verify the Nike Zeus missile-killer capabilities.

For work at the U. S. Naval Missile Test Center at Point Mugu, a contract for \$539,100 was let to Benz Construction Co. of Lubbock, Texas by the 11th Naval District, San Diego, Calif. Work includes mainly construction of missile launchers and a missile radar building.

Western Electric, as prime contractor for the Army, will install and maintain the Kwajalein Nike Zeus facilities and will also be directly involved in the test firings.

Bell Telephone Laboratories, Whippany, N. J., the developing contractor for Nike Zeus, and the Douglas Aircraft Corp., a major sub contractor, will also play important roles in this phase of the operation. Bell has been developing the weapons system, Douglas the missile hardware and launching equipment.

Thiokol Chemical Corporation

Army Will Promote 10,000 Enlisted Men

Washington (AFPS) — More than 10,000 enlisted men will step up a grade under the November promotion quota released by the Department of the Army.

In the supergrades, 68 E-8s will be authorized promotion in November while 275 E-7s will step up to E-8. The quota also will allow 280 promotions to E-7; 250 to E-6; 2059 to E-5 and 7,463 to E-4.

Promotion requirements in all grades will remain the same as previously announced for the October quota, the announcement said. A minimum requirement of eight months in grade E-8 is still mandatory for promotion to E-9.

UNITED

(Continued From Page 1)

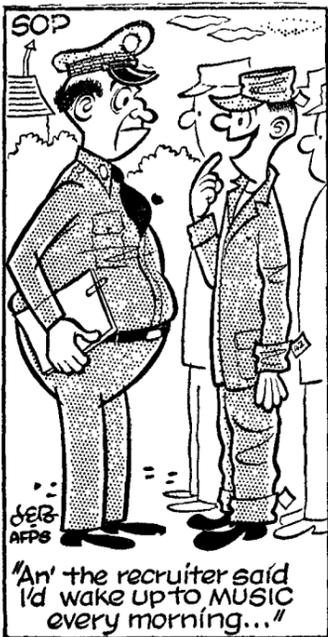
Drive chairman for Huntsville and Madison County for 1959 is Walt Linde, local businessman and civic leader.

M. L. Weil, Jr., is president of the UGF. and Harold Bronfin is executive director.

The first full scale meeting of the executive committee and Agency chairmen is scheduled for 0930 hours, September 11 in General Medaris' conference room.

"Final plans for setting up the drive organization are now underway and will be completed this week," Balch said.

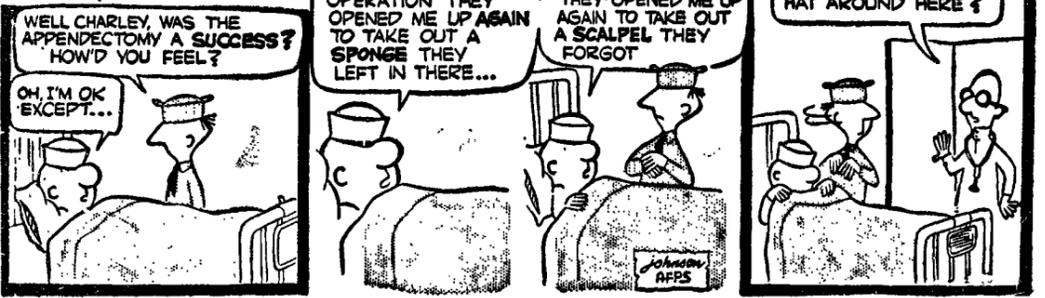
and Grand Central Rocket Company are the sub contractors for propulsion. The Army Rocket and Guided Missile Agency, Redstone Arsenal, Ala., is supervising the program for General Medaris.



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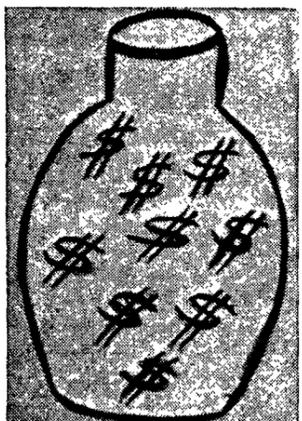
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Social News

Wives Club Art Group to Resume Meetings

The Redstone Arsenal Officers Wives Club Art group began the Fall program yesterday at 9 a.m. at the Squirrel Hill Officers Club.

The Group receives instruction from Charles Long, who advises beginners on materials and technique in the medium the individual chooses, and assists the more advanced members of the group with their work.

Mrs. John V. Fill, who specializes in landscapes and seascapes, pointed out that the beginner often needs guidance in the selection of materials required as well as basic instruction in working with the materials.

Notices of the future meetings for the Art Group will be published in the Daily Bulletin and The Redstone Rocket.

Wives Club Canasta Group Resumes Play

The Canasta group of the Redstone Arsenal Officers Wives Club met Thursday evening at the Squirrel Hill Officers Club with three tables in play.

Mrs. Robert D. Young took first place honors. Mrs. Oliver Edwards scored low.

The Canasta group will meet weekly at the Squirrel Hill Officers Club, alternating between Tuesday afternoons at 12:30 p.m. and Thursday evenings at 7:30 p.m. All members of the Wives Club are invited to participate. Reservation should be made not later than the day preceding the scheduled meeting.

For next week's competition, to take place Thursday evening at 7:30 p.m. reservations should be made with either Mrs. Eugene Coogan, ext. 8055, or Mrs. D. L. Voorhees, JE 9-2452, not later than Wednesday.

Bridge Winners Are Miss Keith and Capt. Carmichael

The Redstone Officers Club Bridge Group met at the Squirrel Hill Officers Club Monday, Aug. 31, for party bridge.

There were six tables in play. Among the ladies the winners were: high Miss Judy Keith, second Mrs. Fred Ellis, and low Mrs. Glenn Keith.

High for the men was Capt. H. L. Carmichael, second CWO. R. H. Granger, and low, Capt. H. J. Finch.

The next meeting of the group will be Sept. 14 at 7 p.m. at the Squirrel Hill Club. For reservations, interested members should call Capt. or Mrs. Finch at Arsenal ext. 8357.

Wives Club Party Bridge Winner Is Mrs. Swearingen

The party bridge group of the Redstone Arsenal Officers Wives Club met Thursday morning at the Squirrel Hill Officers Club with three tables in play.

Mrs. J. C. Swearingen placed high, Mrs. R. L. Spragins, second, and Mrs. R. L. Nidever, low.

The group meets weekly on Thursday mornings at the Squirrel Hill Officers Club. All members of the Wives Club are invited to participate. For tomorrow's competition, make reservations with Mrs. Stanley Pearson, JE 6-4302, not later than noon today. To participate next week, make reservations with Mrs. A. Y. Harper, Jr., JE 9-2606, by noon Wednesday, September 16.

Members of the Army, Navy, Air Force, Marine Corps, and Coast Guard are in line for the \$1,000 first prize in the Freedoms Foundation Letter Writing Award.

At the Service Club

DRAMATICS: "Rendezvous in Rhythm" became "Crack in the Wall" at the last Show Production meeting. This production will be the first for the newly organized group and we are anxiously awaiting for their first presentation. The sophisticated psychiatrist has many agonizing cracks in the wall to mend. This production will be presented at 2000 hours at the Service Club on September 17.

DANCE: Hilding Holmberg will start his orchestra playing at 2030 hours on Thursday night, Sept. 10, and will continue playing until 2400 hours. This orchestra has played for our dances many times and we are looking forward to another delightful evening of dancing and easy listening. The Birmingham and Huntsville Hostesses will be guests for the dance.

BADMINTON CLASS: Join in the fun of learning the rules and techniques of the game of badminton. The class meets at 1800 hours at the Service Club every Friday night. Following the instruction period the courts are available for practice.

OUTINGS: Enjoy another watermelon cutting on the Service Club Patio on Sept. 12 at 1800 hours. Please sign the roster in the Service Club office.

TOURS: Plan now to see Richwood's Chapel of Chimes, Chandelier, Natural Bridge, Caveman's Tomb, Diamond Mine, Indians hunting, Bear's shadow and Buffalo Bones and marvelous wonders of mother nature's ingenuity. The buses will depart from the Service Club on Sept. 13 at 1330 hours for the tour. Richwood's Caverns is three-quarters of a mile of awe-inspiring beauty, 175 feet below ground, and without doubt you will want to sign up for the tour soon.

A tour is scheduled for Shiloh State Park on Sept. 19 at 1230 hours. Following the tour and movie a picnic will be enjoyed in the reservation area. Register now for the tour.

ARCHERY: Instruction hour for archery is 1800 hours on Monday Sept. 14 at the Service Club. Improve your skills and learn more about the game. A practice period will follow each instruction period.

PARTY: Bridge, canasta and pinochle will be played in the game room Tuesday night, Sept. 15, at 1900 hours. Bring a partner with you and challenge your friends to your favorite game. In the event you do not have a partner come anyway and we will

MEDICARE RULES EASED

Washington (AFPS) — The Office of Dependents' Medical Care has announced a liberalization of regulations governing maternity care for wives of servicemen who die while on active duty.

In the past, it was explained, if a serviceman died and his wife was pregnant at the time of his death, medicare privileges ended at once.

Under the revised regulations, medical expenses incident to such pregnancy cases—including antepartum, delivery and postpartum costs—will be defrayed by the government. This is not retroactive in cases existing prior to July 28th.

find one for you. The Huntsville Junior Hostesses will be guests for the party. Refreshments will be served.

DANCE CLASSES: The Fox trot and cha-cha classes will get under way on Sept. 16 for the first of the six class periods. Reservations have been completed for these classes, but new classes will be announced soon.

The Friday night cha-cha class will be completed on Sept. 11. A new Friday night cha-cha class will begin the first of October. Make reservations now for the class.

PICNICS: A hamburger fry is scheduled for Monte Sano State Park on Sept. 18 at 1800 hours. The buses will depart from the Service Club promptly at the designated time. Make reservations soon for the tour.

FLASH: A weekend tour is being planned to the Great Smoky Mountains National Park between North Carolina and Tennessee for the early part of October. The Great Smoky Mountains run the entire length of the park. The name comes from the blue haze, sometimes as dense as smoke, which almost always hangs over the mountain peaks. Experienced naturalists conduct hikes in the park to places of interest, and illustrated lectures are given frequently in places where visitors concentrate. Both the hikes and lectures are free government services.

The tour will also include Newfound Gap and Cherokee Indian Reservation. The bus will leave the Service Club on Saturday

Births at Post Hospital

Ted Alan Augustynowicz, 8 lbs 5 ozs, 25 August 1959, son of Sgt and Mrs. Charles S. Augustynowicz.

Thomas Larry Collins, Jr., 6 lbs 12 ozs, 25 August 1959, son of Sgt and Mrs. Thomas L. Collins.

Robert Keith Boyett, 7 lbs 13 ozs, 26 August 1959, son of SP-4 and Mrs. Robert Boyett Jr.

Wayne Robert Hicks, 7 lbs 12 ozs, 27 August 1959, son of Pfc and Mrs. Robert C. Hicks.

Terry Margaret Thul, 6 lbs 14 3/4 ozs, 28 August 1959, daughter of Sp-4 and Mrs. Donald A. Thul.

Lisa Carol Voke, 5 lbs 1 1/2 ozs, 28 August 1959, daughter of Pfc and Mrs. Neal D. Voke.

Cynthia Ann Lee, 7 lbs 13 ozs, 29 August 1959, daughter of Pvt and Mrs. Charles S. Lee.

Muir Michael Matteson, 7 lbs 1 1/2 ozs, 29 August 1959, son of Sp-4 and Mrs. William N. Matteson.

Wind Tunnel Experts Prepare Paper for Delivery in France

Two wind tunnel specialists of the Army Ballistic Missile Agency are attending an international technical meeting in Marseille, France, this week.

They are Ellery B. May and James W. Clark of the ABMA Aeroballistics Laboratory, who prepared a joint paper titled "Special Wind Tunnel Applications in Ballistic Missile Development." May was scheduled to present the paper Sept. 5 to the Advanced Group Aeronautical Research and Development—Supersonic Tunnel Association.

ABMA operates two wind tunnels capable of producing velocities from one-half to five times the speed of sound. These tunnels are used to study aerodynamic problems in the design of missiles.

morning and will return on the following Sunday. The date of the tour will be announced soon. Reservations are being accepted now for the week-end tour.

HAY RIDE: A Hay Ride is being planned for the early part of October. Make reservations soon in the Service Club office.

COFFEE CALL: Enjoy a cup of coffee every Sunday morning at 0900 in the nice kool lounge.

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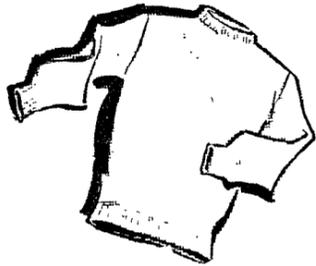
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BUFFET SUPPER—Junior Hostesses at the Rocket Service Club help serve from the buffet table during a supper sponsored by Special Services.

Junior Hostesses Are Offered Full Program

The Special Services Officer, Maj. Oscar Hufnagel, announced that the Fall program of the Rocket Service Club presents a full schedule and pointed out that the Junior Hostess organization sponsored by Special Services is open to all young ladies in the area who are 18 years or older.

Maj. Hufnagel mentioned some of the activities included on the club agenda such as the card parties, square dances, semi-formal and dinner dances, classes for all kinds of dancing, a show production group, and outings such as swimming parties (almost over for the season) weiner roasts,

tours and hay rides. The major stated that all of these affairs are chaperoned by members of the Service Club staff, and that transportation will be provided for each activity by the staff.

The Junior Hostess organization meets one a month and helps plan activities for the following month. Rules are based on the same principles that govern the conduct of youth groups in all kinds of activities from sorority life to young businesswomen's associations and have been established by the girls themselves.

Every phase of Service Club routine is open to the Junior hostesses, from sewing on buttons or acting as hostesses and dance partners to competing on

Dr. Shook Receives Faculty Appointment At Medical College

Dr. Burton S. Shook, chief of the Occupational Health Division, Redstone Arsenal Post Surgeon has been appointed to the teaching staff at the University of Alabama Medical College in Birmingham, it was announced by Col. Harry C. McClain, Post Surgeon.

The appointment was made by Dr. George A. Denison, chairman of the University's Preventive Medicine and Public Health Dept. Dr. Shook will be assistant professor at the Medical College on the staff of Dr. William G. Thuss, Jr. This teaching staff specializes in occupational medicine, public health, aviation medicine and space medicine.

This is the first year that space medicine has been introduced into the University curriculum. Dr. Shook expects to give four hours of instruction the first quarter, ten the second, and 15 the third quarter.

The present plan calls for the introduction of four hours of lectures for sophomores, at least

the archery range or at chess. At the winter formal dance, a "Junior Hostess of the Year" is crowned. The hestess is chosen for personality sparkle and for the outstanding assistance she gives throughout the year in various club activities.

Girls who are interested can get in touch with Miss Frances Harold at the Service Club ext. 4531 for details about the organization. Others on the Service Club staff who may be contacted are Miss Martha Gates, Miss Molly Patterson, the Service Club director, or Miss Barbara Kelly.

Caribou on Adak Are Fed By The Marines Wives Club Bowlers Start Season Sept. 18

Adak, Alaska (AFPS) — Chow call at the Marine Barracks on the Aleutian island would give the average leathcrneck the willies.

Day after day, the same old slop—a mixture of eggs, cod liver oil and canned milk. Served in bottles, yet!

Can Marines live on that? No, but caribou calves can. And it's the Marines' job to bottle-feed them as solicitously as any doting father. Their boot training may not have included a course in playing nurse to caribou, but their technique gratifies the U.S. Fish and Wildlife Service which is behind the unusual duty.

The project, first of its kind, is an attempt to establish a herd of caribou on Adak by airlifting calves 1,100 miles from Anchorage. The Marines are nursing 35 calves which will be turned loose when they are strong enough to forage for themselves.

Eventually it is hoped that by self-propagation a sizeable caribou herd will develop on the barren island, giving it a reserve food supply in case of emergency and also providing recreational hunting.

ten for juniors and 15 for seniors. No definite date has been set for the lectures.

The Officers Wives Club Bowling Group at Redstone Arsenal will begin the bowling season at 1 p.m. on Sept. 18 at the Arsenal bowling lanes.

Mrs. J. D. Severino at Arsenal Ext. 8359, and Mrs. C. I. Thompson, Arsenal Ext. 8659 are accepting names of the club members interested in this afternoon league.

Mrs. Severino said that she is particularly interested in getting names as soon as possible so that the teams could be organized.

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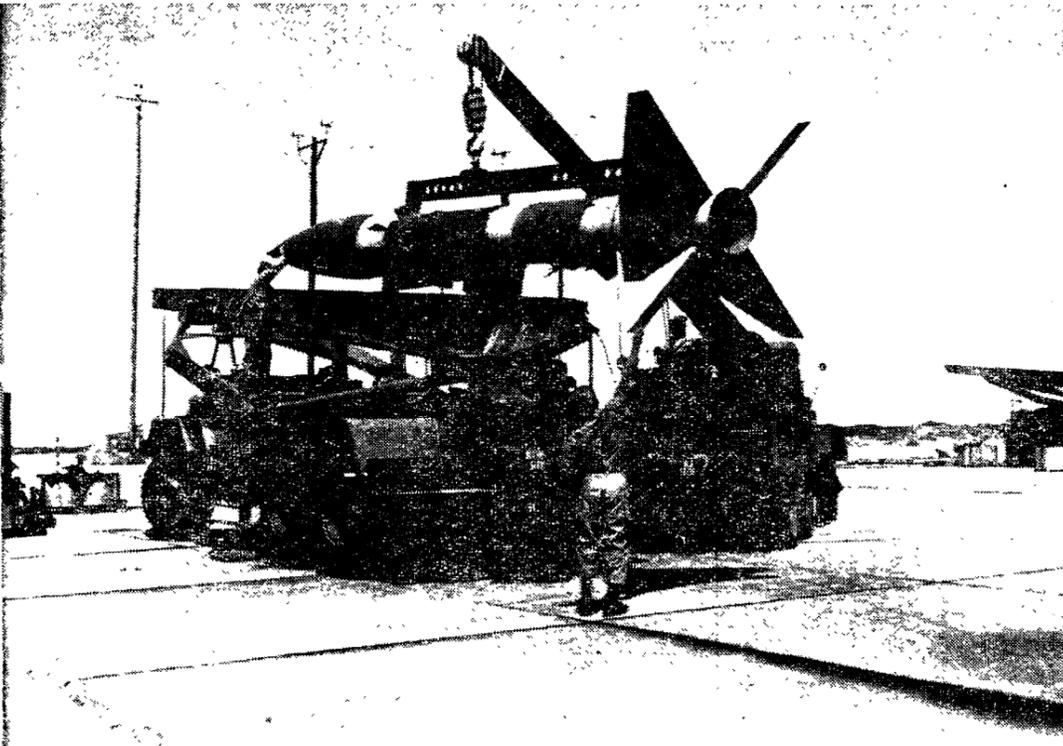


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ONE THOUSAND COMING UP—The Army's Honest John artillery rocket eases onto its rail atop a tactical-type launcher at the Army Blockhouse as missilemen make final preparations for the 1,000th firing at White Sands Missile Range of the Honest John unguided surface-to-surface weapon.

1,000 Firings Is Honest John Score

WHITE SANDS MISSILE RANGE, N.M. — Honest John,

the Army's first and oldest surface-to-surface artillery rocket, logged its 1,000th hot firing here last week.

The rocket was fired for the first time here June 29, 1951.

The Honest John system is one of those for which the Army Rocket and Guided Missile Agency, Redstone Arsenal, Ala., is responsible. ARGMA and White Sands are elements of the Army Ordnance Missile Command.

Col. John G. Redmon pressed the firing button to launch the rocket, one which was selected at random from the production line.

Actual development of the weapon system was completed after about 200 test firings. The testing has continued in order to test warhead development, launchers and other ground equipment, and for user evaluation.

Honest John is 27 feet long and 30 inches in diameter. It is fired from a 30-foot rail mounted on the chassis of a standard 5-ton Army vehicle. It has been deployed in NATO for several years.

Douglas Aircraft Co. is the prime contractor.

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Tour Is Scheduled For Civic Leaders

The Alabama League of Municipalities, holding its annual convention in Huntsville next week, will tour Redstone Arsenal on Monday.

Approximately 400 persons are expected. The membership consists of mayors, councilmen and commissioners of Alabama's city and town governments.

Among speakers at the convention will be Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command, and Dr. Wernher von Braun, director of Development Operations, Army Ballistic Missile Agency.

At Redstone the group will tour various facilities of the Army Rocket and Guided Missile Agency and ABMA. Col. Glenn Elliott is project officer.



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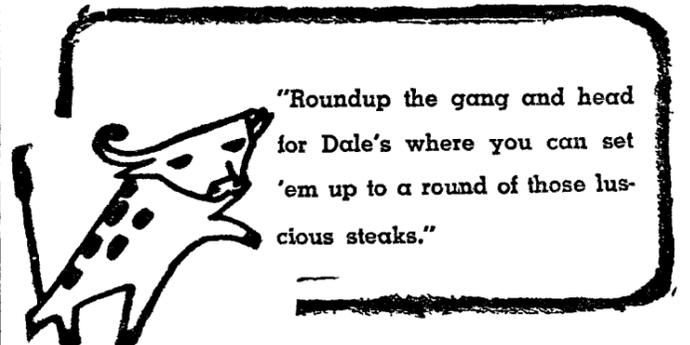
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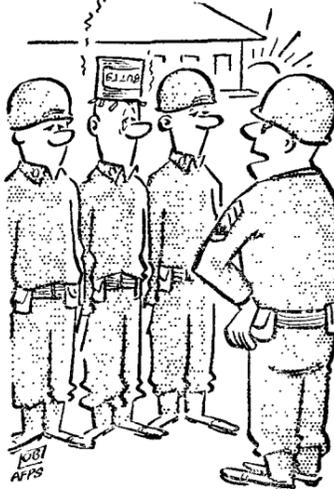


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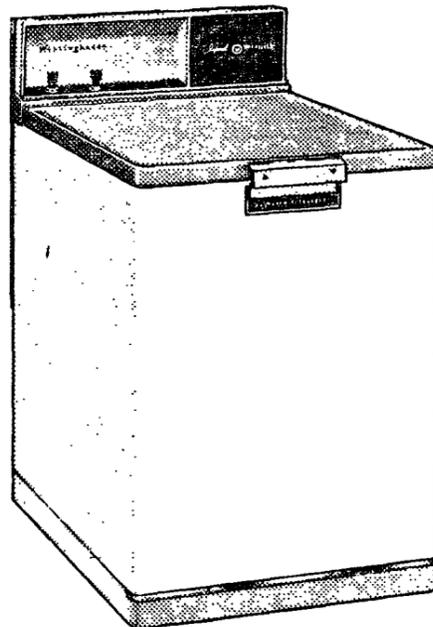
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JOINS REGULAR ARMY—At the Army Ordnance Guided Missile School, Redstone Arsenal, Ala., First Lieutenant Eugene Dolfi (right) of Webster, Pa., is sworn into the Regular Army by Major Elizabeth H. Branch (left), Secretary of the Missile School, while Col. Charles W. Eifler, commandant, looks on.



ALWAYS AQUATIC — That water is an ideal preservative, Esther Williams proves beyond doubt. The lady with the grace of Venus rising from the sea has her own aquatic show now after years of Hollywood musicals.

Chinese Celebrate Armed Forces Day At Missile School

The 1st Missile Battalion of the Nationalist Chinese Army, now in training at the U. S. Army Ordnance Guided Missile School here, got a day off last Thursday to permit them to observe Chinese Armed Forces Day.

The 40 officers and men of the pioneer Far East unit presented Col. Charles W. Eifler,

OGMS commandant, with a silk and velvet banner bearing large Chinese letters and expressing: "Gratitude for education that will benefit posterity."

Lt. Col. Tien-lin Wu, senior Chinese officer, and Sfc. Tien-chieh Sun made the presentation to Col. Eifler.

The banner is now on display in the lobby of OGMS headquarters along with the flags and mementoes from the 12 Allied nations whose pioneer missile groups have trained at the "Missile Academy."

SHOW SCHEDULED AT SERVICE CLUB ON SEPT. 17

"The Crack in the Wall," an original musical comedy produced by the Show Production Group

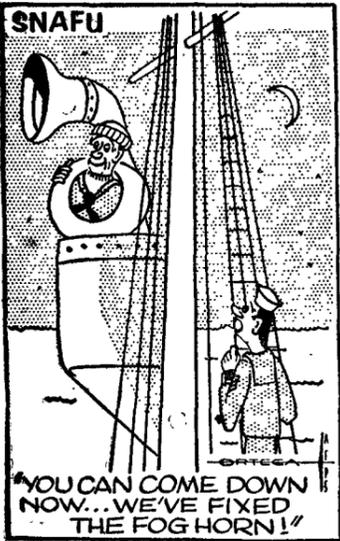
of the Service Club is nearing final preparation.

Utilizing the talents of Redstone Arsenal enlisted men and employes, "The Crack in the Wall" will be presented at 8:15 p.m. Sept. 17 at the Rocket Service Club.

All enlisted men are cordially invited to a night of original entertainment. Music, comedy, beautiful girls—all will be featured in "The Crack in the Wall."

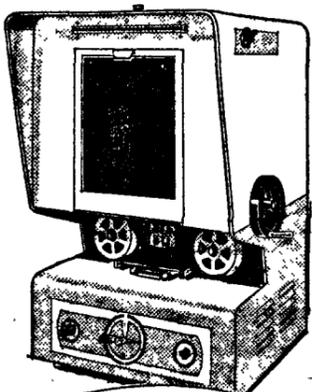
Starring in the lead roles will be Jeanne Tyson and Bob Morgan backed by a talented cast.

The show is being directed by Joe Rimsky with Jack Carrigy serving as advisor to the group. Special dance numbers are being arranged by Ken Ford.



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PROMOTED—M/Sgt. Ralph G. Barber (left), of Rogersville, Tenn., receives congratulations from his commanding officer Capt. J. M. McDonnell, at the Ordnance Guided Missile School, when a recent announcement was made that the sergeant is now an E-8. M/Sgt. Barber is first sergeant for the 2nd Enlisted Training Detachment.

Dr. Ziegler Is Named Signal Chief Scientist

FT. MONMOUTH, N. J. (ANS) —Dr. Hans K. Ziegler, one of the world's leading authorities on satellite instrumentation and communications, has been named chief scientist of the Army's Signal Research and Development Laboratory.

He will head about 1250 scientists and technicians as well as more than 2000 others employed in the laboratory and will have prime responsibility for extensive research and development programs for the Army.

QUIZ

1. Ham Richardson, Barry McKay and Alex Olmedo played on the U. S. Davis Cup team that recently defeated Australia. Who were the other two members of the team?
2. What boxing match drew the first million dollar gate?
3. Who is the only pitcher in the major leagues to win 20 or more games in a season nine times?
4. Name the athlete who coined these famous expressions: "Good field, no hit." "Nice guys finish last."
5. Name the winning and losing pitchers of the final game of the 1958 World Series.

(Answers to Quiz)
 1. Chris Crawford and Earl Buchholz.
 2. Jack Dempsey, Georges Carpentier; July 2, 1921; \$1,626,850.
 3. Warren Spahn.
 4. Leo Durocher.
 5. Losing pitcher, Lew Burdette, Milwaukee; winning pitcher for the Yankees, Bob Turley.

JUPITER IS 'BEST' COL. PAUL TELLS AIR FORCE CLASS

The Army Ballistic Missile Agency, developer of the Jupiter intermediate range weapons system now being deployed overseas by the Air Force, will continue to provide technical data and supplies for operation of the missile as long as it is in being.

Col. Thurston T. Paul, deputy commander of ABMA, made this statement last week to 66 Air Force students completing courses at the Army Ordnance Guided Missile School. Four classes of the 864th Technical Training Squadron heard him speak at a graduation ceremony here.

This was one of the largest Air Force groups yet to complete training on the highly mobile weapon at the Missile School.

Describing the Jupiter as "the best weapons system of its kind," Col. Paul said the original research and development team that produced the Jupiter at Redstone Arsenal will work closely with the Air Materiel Command's depot at Mobile, Ala., and the Chrysler Corp., manufacturers, to supply Jupiter units overseas with everything needed to keep the weapon in constant combat readiness, including airlift of parts and ground servicing equipment.

Army Develops New Fire Fighting Aid

Washington (AFPS) — The Army has developed a new chemical fire extinguishing compound considered to be twice as effective as any present agent against liquid fuel and electrical fires.

The compound can also be used to prevent fires by mixing it with helium or nitrogen to create a combustion-free atmosphere.

The new agent, developed by the Army Engineer Research and Development Laboratories at Ft. Belvoir, Va., can be used in Arctic areas at 65 degrees below zero temperatures.

A container equipped with an especially designed nozzle has been adapted for use with the compound. The agent is known as "monobromotrifluoromethane."



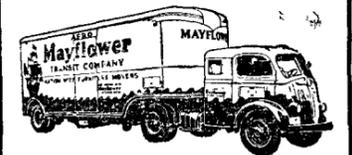
DOUGHBOY MEMORIAL — Representing the typical combat soldier of WWII, this life-size bronze statue stands at Ft. Benning, Ga. It was erected to commemorate the 51st anniversary of the Infantry School there.

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BALLERINA — Yvonne Craig, a brand new star from the state of Texas, was successful as a dancer before landing top-billing assignment in Columbia's upcoming "The Young Land." And she's only 20.

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HOPKINS RE-ENLISTS—Sgt. Jack L. Hopkins (center), Hq. and Hq. Detachment of the U. S. Army Garrison, receives the congratulations of Col. O. T. McCloskey (right), following the soldier's oath taken recently by Sgt. Hopkins for a second Army enlistment. At left is S.F.C. James J. O'Neill, recruiting sergeant at Redstone Arsenal. Sgt. Hopkins is a telephone installer and lineman in the Post Signal Section. Prior to his assignment at the Arsenal, he was in Korea.

DRIVING RECORD
(Government Vehicles
(As of 4 Sept.)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	12	2
Post Engineer Div. (RSA)	12	22
Provost Marshal Div. (RSA)	16	13
Depot Operations (RSA)	14	7
All Other RSA	6	33
Thiokol (ARGMA)	11	2
All Other ARGMA	4	73
OGMS	11	38
ABMA	7	12

Gen. Dorn Is Retired But He's Mighty Busy

Hollywood, Calif. (AFPS) — Retired Brig. Gen. Frank Dorn is one Army officer who can contentedly cash in on experience gained in his service assignments overseas—particularly in China. But if he doesn't choose to, he can always look to the income from his two published cook books, "The Dorn Cook Book" and "Good Cooking With Herbs and Spices."

Or from the sales of his paintings which he has exhibited in Washington, Paris and Madrid. Or from the logging company in which he owns a one-third interest.

Or, perhaps, from the sale of a novel about a professional soldier which he is completing.

Right now, at 58, he is winding up a well-paying job as technical advisor for "The Mountain Road," the James Stewart starrer with a China setting. It's Gen. Dorn's job to advise the director and

other technicians on Chinese costumes, food and customs in the period of the Sino-Japanese conflict of the 1930's.

His qualifications for such a job date back some 30 years when he first visited China on leave from the Philippines. Later the Army gave him a China assignment to learn the language.

By 1937, when the Sino-Japanese fighting was hot, Gen. Dorn served as an Army observer, traveling back and forth between the Chinese and Japanese lines to make reports to Washington.

"The idea was to find a no-man's land and walk from one line to the other," he recalls. "When I reached the other side I would be taken to the commanding officer as a neutral foreigner. That gave me an opportunity to learn information of interest to Washington."

One hundred cash prizes are offered for the best letters written on this theme: "My Job: Protecting America's Freedom."

Safety Scoreboard

(As of 4 Sept.)

Days since last civilian disabling injury	33
Our goal	45
Days since last military disabling injury	11
Our goal	30
Days since last contractor personnel disabling injury	21
Our goal	50
Days since last government motor vehicle accident	2
Our goal	30

Movie Schedule

Wednesday, Sept. 9, "The Rebel Set" starring Gregg Palmer and Kathleen Crowley. Time 1315, 1745 and 1945.

Thursday and Friday, Sept. 10 and 11, "That Kind of Woman" starring Sophia Loren and Tab Hunter. Time 1315, 1745 and 1945.

Saturday, Sept. 12, SPECIAL MATINEE, "Up In Smoke" starring Huntz Hall and The Bowery Boys. Time 1000.

Saturday, Sept. 12, "Walt

SAFETY CAMPAIGN

As a part of the "Back to School" safety campaign, a special poster was designed by Roy DeFloreo, Technical Illustrator, Technical Publications Unit, Field Service Division, ARGMA. This poster was reproduced in yellow and black. It is in most store windows in surrounding communities, and on bulletin boards throughout the installation.

Disney's Fun Festival." Time 1745 and 1945.

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TWO GREAT STORIES OF LOVE AND FAITH!

SUSAN HAYWARD ACADEMY AWARD WINNER! WILLIAM LUNDIGAN

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SATURDAY

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W. L. WEEKS

W. L. Weeks Named A Safe Supervisor

William L. Weeks, chief illustrator, training aids branch, Training Support Division OGMS, is the "Safe Supervisor of the Week." He was selected by the Redstone Safety Division.

Weeks has not had a disabling injury to himself or to anyone under his supervision in his four years of Civil Service work (two years at OGMS and two years at Craig Air Force Base at Selma, Alabama.)

The safe supervisor, according to those who know him, teaches his employes to think and be sure they are right before attempting any job. However, his job safety is not the full reason for his be-



JESSE B. ADAIR, JR.

Adair Is Chosen Week's Safe Worker

Jesse B. Adair, Jr., a tool die and gage maker leadman, assigned to the Fabrication and Assembly Engineering Laboratory, ABMA, has been selected as the Safe Worker of the Week.

Adair was born in Madison County, Alabama but moved to

ing selected. His interest in off the job safety has been outstanding. Highway safety seems to get most of his efforts. He says "Our highway slaughter can be reduced through education and enforcement of our traffic laws." He further stated, "Our teen age drivers are getting their driving habits from adults, therefore each of us should set a good example by obeying all traffic laws and regulations."

The Safe Supervisor was born at Florence, South Carolina. He spent four years in the Air Force. Part of this time was spent in the European Theater. He studied art in New York and industrial advertising design at Auburn.

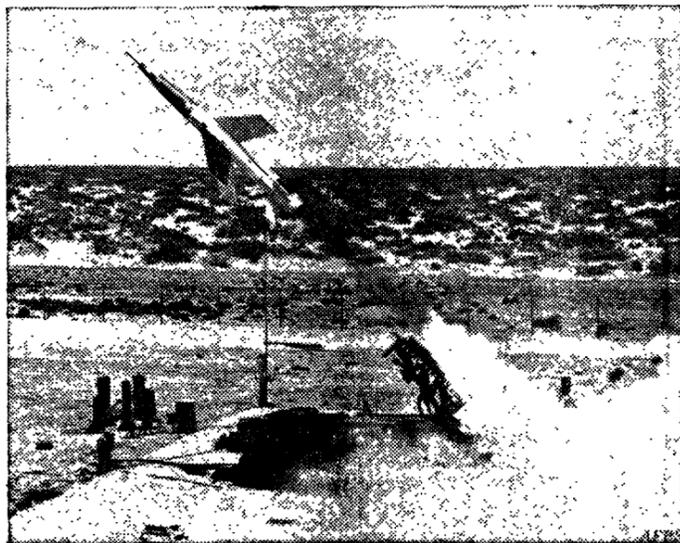
Mr. Weeks is married and he and his wife and 11 month old son live at 304 Harold Drive, Sherwood Park, Huntsville. When asked about his hobbies Bill explained they were somewhat curtailed since the arrival of their son. He still finds time to enjoy competitive sports as a spectator.

Huntsville as a child. He was in the Army, stationed at Pearl Harbor, when it was bombed by the Japs. He served with the 89th Field Artillery, 25th Infantry Division in the South Pacific during World War II. At present he is a member of the V.F.W.

Adair came to Redstone in 1950 as an employe of the General Electric Division and transferred to the "Fab Lab" in March 1951. He recommends safety glasses to exposed to eye hazards. As a G.E. employe he qualified as a member of the "Wise Owl" Club when his safety glasses protected his eyes against a flying piece of metal from a star drill.

Adair is married and he and his wife, Edna, and their two children, Sherry and Douglas, live at 208 14th St., N.W., Huntsville. His father resides at Hazel Green, Alabama.

Adair and his family are active members of the Huntsville Park Baptist Church. His hobby is bird hunting.



TARGET BOUND—Capable of carrying atomic and non-atomic warheads, the Army's surface-to-surface guided missile Lacrosse zooms skyward at the White Sands, New Mexico Missile Range, an element of AOMC. The Lacrosse is launched from a standard Army truck and would be used in close tactical support of ground troops. Lacrosse is an ARGMA project.

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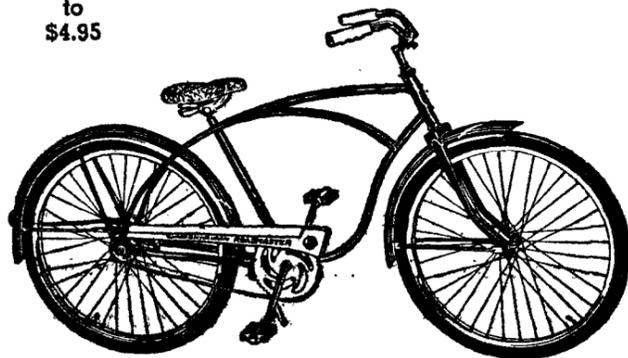
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RAM-JET ENGINEER — SP4 Christian Hoebich holds a chunk of solid propellant rocket fuel with which he is working in the Ordnance Missile Laboratories' Aerodynamics and Structures Department, Army Rocket and Guided Missile Agency. He is the coordinator of ARGMA's solid-fuel ram-jet studies.

WORLD TRAVELLER IS RAM-JET ENGINEER IN ARGMA PROGRAM

BY SP4 W. N. MATTESON
Sp-4 Christian Hoebich was born in Shanghai, China in 1934. As his father was a civil engineer and architect, the family traveled widely in China, Japan, and other parts of Asia. They were in Europe in 1936 for the Olympics and returned to China during the war. In 1948 they moved to the United States and Chris went to high school in Oakland, Calif. He received a B.S. degree from Stanford University after studying mechanical engineering with special emphasis on gas dynamics (compressible flow with heat addition.) When he finished college he resumed his world travels, this time for a five-month tour of Europe with three friends in an

old Mercedes. On his return to the U. S. he was greeted by his draft board, and took basic training at Fort Ord. At Redstone he was placed in Detachment "A" and began work with Ordnance Missile Laboratories' Aerodynamics and Structures department. At OML Hoebich found a job which paralleled his college interests in gas dynamics. He is the coordinator of Army Rocket and Guided Missile Agency's solid-fuel ram-jet studies. Ram-jet research is presently at the stage of basic rocket research of about 10 to 15 years ago. Ram-jets are a promising means of propulsion because they have no moving parts and must carry only a small amount of oxidizer. To start a ram-jet missile,

a conventional booster would be needed. Ram-jets work best at supersonic speeds, and will not function at all until their speed is great enough to compress the air by its own inertia. They will operate at high altitudes and are limited only by their need of enough oxygen to support combustion.

Solid metallic fuels are currently under test. Wind tunnel tests in Virginia, combustion tests in Detroit, and thrust control tests here at Redstone are coordinated by Hoebich. He makes performance analyses and plans to run a computer study on the

MILITARY HISTORY NOTE: Anglo-American Forces landed at Salerno, Italy (during World War II) on September 9, 1945.

aerodynamics and burning characteristics.

As a by-product of his work, Hoebich has completed five volumes of compressible flow tables, which is one of the most complete sets yet published. He hopes to complete about 35 volumes. This alone will be a sizeable contribution to research.

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September 21 — FALL QUARTER 1959-1960 — December 15

MONDAY - WEDNESDAY 5:50-7:55 — FIRST PERIOD

COURSE	Prerequisite	Sem. Hrs.
A. E. 91, Introduction to Aerodynamics	Math 49	3
Accounting 100, Advanced Accounting	Acctg. 53	Cert. Credit
Art 11a, 11b, 12a, 12b, Drawing (Monday only 6:00 to 10:00)	None	1½
Art 37a, 37b, Beginning Ceramics (Wednesday only, 6:00 to 10:00)	None	1½
Current Affairs Seminar—A Discussion of Some Realities in U. S. Foreign Policy (Selected Fri. evenings, special brochure on request)	None	NC
Drawing 31, Engineering Drawing (6:00 to 10:00)	None	2
Drawing 33, Descriptive Geometry (6:00-10:00)	Drawing 31	2
Economics 12, Principles of Economics	Economics 11	3
English 1, English Composition	None	3
English 2, English Composition	English 1	3
English 5, English Literature	English 1, 2	3
History 1, History of Western Civilization	None	3
Investments (Mon. only 7:00 to 9:00) First class Oct. 5, 1959, 8 sessions	None	NC
Mathematics 01, Elementary Algebra	None	NC
Mathematics 9, College Algebra	None	3
Mathematics 11, Introductory College Mathematics	Math. 9 or 3 units of high school math	3
Mathematics 51, Calculus	Math. 49	3
Mathematics 101, 107, Concepts of Modern Mathematics. See Special brochure	Bachelor's Degree, 2 yrs. teaching exp.	3
M. H. 82, Dynamics	Math 51, M.H. 51	3
Physics 6c, Technical Physics (Heat, Light, and Sound) Laboratory: Thursday (5:00-8:00)	Math. 15	3
Physics 7c, Technical Physics (Electricity and Magnetism) Laboratory: Thursday, 5:00-8:00	Physics 5c or 6c	4
Psychology 11, Elementary Statistical Methods	Math 9	3

MONDAY - WEDNESDAY 7:55-10:00 — SECOND PERIOD

Accounting 2, Principles of Accounting	Acctg. 1	3
Biology 1, Principles of Plant Biology (Lab.: Thursday 6:00-10:00)	None	4
Business Law 51, Introduction to Business Law	Junior Standing	3
Economics 11, Principles of Economics, Part 1	None	3
English 1, English Composition	None	3
English 6, English Literature	English 1, 2	3
English 51, Fiction Writing	Perm. of Inst.	4
GES 12 Engineering Preview	Math. 15	2
History 73, Foreign Relations of U. S. to 1914	Perm. of Inst.	3
Mathematics 15, Trigonometry	Math 11 or 9	3
Management 55, Human Behavior in Business and Industry	Economics 11	3
Mathematics 49a, Calculus and Analytical Geometry	Math. 25	3
Mathematics 91, Introduction to Real Analysis	Math. 51	3
M. E. 109, Thermodynamics	M. E. 51	3
Philosophy 2, Introduction to Scientific Methods	None	3
Physical Chemistry 141, Physical Chemistry (less Laboratory)	PH 6, & CH 24 Calculus	3
Psychology 1, Introduction to Psychology	None	3
Physics 85, Intermediate Electricity and Magnetism	Integral Calculus	3
Political Science 45, Public Administration	Pol. Science 1, 3	3

(1) Arts and Sciences students must take English 5 before English 6.
(2) Recommended preparation for MA 98, Introduction to Theory of Differential Equations, which will be offered in Winter Quarter.
Classes Not Enrolling Sufficient Number of Students Will Be Postponed Until Next Term.

TUESDAY - THURSDAY 5:50-7:55 — FIRST PERIOD

Chemistry 1, General Chemistry (Laboratory: Monday 6:00-10:00)	Math. 11 or 9	4
Drawing 32, Engineering Drawing (6:00-10:00)	Drawing 31	2
English 03, Fundamentals of English	None	NC
English 1, English Composition	None	3
English 123, History of English Language	24 Hrs. English	3
French 1, Elementary French	None	3
German 2, Elementary German	German 1	3
I. E. 49, Manufacturing Processes	Soph. Standing	3
Marketing 6, Business Correspondence	English 1, 2	3
Mathematics 02, Plane Geometry	None	NC
Mathematics 25, Analytical Geometry and Calculus	Math. 15	3
Mathematics 121, Applied Differential Equations	Math. 51	2
M. T. E. 91, Engineering Metallurgy	Chemistry 2	3
Music 23, Introduction to Music Listening	None	2
Physics 53, Introduction to Atomic and Nuclear Physics	8 Hrs. of Physics	3
Political Science 1, Principles of American Government	None	3
Russian 1X, Elementary Russian	None	NC
Sociology 1, Introduction to Sociology	None	3
Technical Writing 1	Perm. of Inst.	NC

TUESDAY - THURSDAY 7:55-10:00 — SECOND PERIOD

Accounting 1, Principles of Accounting (Five Friday night lab. sessions required)	None	3
Accounting 3, Accounting Analysis	Acctg. 2	3
Astronomy 1, Introduction to Astronomy	High School algebra	2
Biology 7, Vertebrate Zoology (Lab.: Wednesday 6:00-10:00)	Biology 2	4
C. E. 109, Industrial Structures	M. H. 93 or 94	3
E. E. 3, Direct Current Circuits	PH 6, and MA 49	3
English 2, English Composition	English 1	3
English 10, American Literature	English 1, 2	3
German 1, Elementary German	None	3
History 21, Development of U. S. to 1865	None	3
I. E. 55, Introduction to Engineering Statistics	Math. 51	3
Management 51, Industrial Management	Economics 11, 12	3
Mathematics 01, Elementary Algebra	None	NC
Mathematics 9, College Algebra	None	3
Mathematics 15, Trigonometry	Math. 11 or 9	3
Mathematics 49b, Calculus and Analytical Geometry	Math. 49a	2
M. H. 81 Statics	Math. 51, Phys. 5, GES 12	3
Music 7, Elements of Music (Thursday only 8:00-10:00)	None	2
Music Seminar—Selected Topics (Certain Tuesdays only, Special Brochure Furnished)	None	NC
Physics 5c, Technical Physics (Mechanics) Lab.: Wed 5:00-8:00	Math 15	3
Speech 2, Elementary Public Speaking	None	3

(3) As this schedule goes to press, it remains uncertain whether or not this class will be taught. Contact offices for confirmation.
(4) Seven problem sessions required to be arranged.
(5) This may be substituted for I. E. 51. Possibly I. E. 51 will be taught instead of Mgt. 51.
ENTRANCE TEST: All beginning college students wishing to enroll in college English or Mathematics courses must take placement tests which are given only at times indicated below:
Mathematics—September 22 at 6:00 and 8:00 p.m. in Room 3
English—September 22 at 6:00 and 8:00 p.m. in Room 4.
(6) Five extra class sessions required. To be announced.

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RECORDS STORED FOR QUICK REFERENCE—Miss Ruth Milligan (on ladder), and Mrs. Virginia Means, records analysts in the Records Administration Section at Redstone Arsenal, pull records which have been requested by the originators from the storage racks for delivery to the requestor.

* * * * *

Records Administration Training to Start Soon

Distribution of a book that will affect every secretary, file clerk, and anyone else who deals with storing records or handling correspondence began in late August by the Records Administration Office of Redstone Arsenal.

In the offing is a program to train approximately 550 records clerks in new procedures in two new areas: mail control and correspondence, as well as in filing by the numbers (governed by the AR 345 series), and file disposition.

Mrs. Louise Kenney is chief of Records Administration which is a part of the Administration Division under Capt. Donald L. Voorhees, Redstone Arsenal Adjutant.

Decentralized files became mandatory at the beginning of the calendar year 1959 for all field installations. The Dewey decimal system was replaced with numbers based on paragraphs from the ARs in the 345 series, and eliminated the two-step method used by the Army in setting up and retiring files for approximately

50 years. The new method establishes the disposition on the file folder at the time the file is set up and eliminates a records disposition inventory at a later date. Thirteen functional areas are covered by this method and one multifunctional or general categories area is established.

Scheduled to begin soon are the new mail control and correspondence classes under Mrs. Ethelene Thomas, a records analyst, who has conducted classes in filing and disposition since she joined the organization. Mrs. Thomas was transferred within the Administration Division from the Mail and Records Section at Redstone Arsenal in 1955.

A new classroom has been established and the equipment is expected early this Fall. This is in Bldg. 3643 across from the headquarters of the Records Administration Office. Bldg. 3643 was annexed for use as a holding area when the 3/10 of a mile of closely packed files in 1955 grew to 7/10 of a mile in 1959. A mile

of records is 5,280 linear feet of legal sized papers stacked on edge.

Records Administration services spread over the Army Ordnance Missile Command, the Army Rocket and Guided Missile Agency, Redstone Arsenal, and the Ordnance Guided Missile School. The Army Ballistic Missile Agency has its own Records Administration personnel and depends on the Arsenal only as a holding area.

The Holding Area of Records Administration was created to store records covering the vast missile and space programs for which the Missile Command is responsible, without tying up expensive file equipment with papers which will be referred to only occasionally. All told, AOMC is responsible for more than a dozen major missile programs from the research through the development stages into production, and field service. Many of these are permanent records that will be forwarded to a central holding area when their immediate usefulness is outlived.

Miss Ruth Milligan, formerly at Milan Arsenal, works almost exclusively in the holding area; and among the services she rendered last year were 1370 pieces of correspondence sent to requestors who needed to refer to earlier transactions. The correspondence is easily found through a tickler system and sent out through the mail the same day the request is made. If the item needed has been retired to a central holding area such as Kansas City, it usually takes a week to fill the request.

Last year more than three miles of files were destroyed. Much of this was done in current files areas, often with the help of Mrs. Virginia Means, a records analyst who came here from Red River Arsenal in 1954.

At the beginning of the calendar year 1959 another four miles of files were created, these too with the aid of the analysts in many cases.

The Records Management people estimate that seven miles of files are stored in the 3500 steel cabinets scattered across the installation. These cabinets cost more than a million dollars.

In stressing this point, Mrs. Kenney compared this cost with the cardboard boxes stored in the records holding area at an approximate cost of ten cents a box.



RECORDS EXPERTS—Mrs. Louise Kenney, left, chief of Records Administration, and Mrs. Ethelene Thomas, records analyst who will soon begin classroom instruction in mail control and correspondence, discuss lesson outlines for approximately 550 clerks working in various Agencies, the Missile School and the Missile Command.

* * * * *

These are on racks, ten tiers high. The width of the racks varies with the size of the storage rooms. And in the storage of classified matter, the racks are in a vault to keep them safe.

Mrs. Kenney believes that her earlier training helps her in her present job. She came to the Arsenal with the Engineers who built Huntsville Arsenal in 1941, moved over into procurement of property after helping acquire equipment needed to operate the

organization, and then worked in property disposal when the Arsenal was put on standby in 1946.

"It helped me understand 'function'" Mrs. Kenney stated, "and all files pertain to 'function'."

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my Construction Agency in France. He received his BS degree from the U. S. Military Academy and his Master's degree in chemical engineering from the University of California in 1949.



Lt. Col. Harrison



Lt. Col. Thomas

Seven New Officers Are Assigned Here

Lt. Col. Charles E. Harrison, has recently assumed duties as deputy signal officer at Headquarters, Army Ordnance Missile Command headquarters. He was formerly a signal representative with the U. S. Army Air Defense Board, Ft. Bliss, Texas.

A 1940 graduate of the U. S. Military Academy, Col. Harrison received a master's degree in electrical engineering from the University of Wisconsin in 1951.

Lt. Col. Billings

Lt. Col. Edward R. Billings is serving as deputy assistant chief of staff for industrial operations at Command Headquarters. He was formerly an Ordnance officer with the U. S. Military Assistance Advisory Group in Cambodia. He received his BS degree in mechanical engineering from Ohio State University.

Col. Thomas was formerly an intelligence officer with the Engineer section of Headquarters, Seventh Army overseas. A graduate of the U. S. Military Academy, he received a master's degree in chemical engineering from the University of California in 1950.

Capt. Means

Capt. Charles F. Means has been assigned as a project officer with the office of the assistant chief of staff for research and development at Command headquarters. He was formerly assigned as a student at the University of Michigan where he received a master's degree in aeronautical engineering.

Far East Rotation System Is Changed

The Army's overseas unit replacement system which is presently in effect for Europe will now be modified and applied to Korea.

The replacement system for Europe will be superseded by another method of rotation, the Department of the Army announced today.

The unit replacement system currently in operation which rotates battle grounds will be applied to Korea in conjunction with the individual replacement system now in effect. Its many desirable features, including unit integrity and teamwork of officers and enlisted men who have trained together in the United States prior to going overseas, are expected to improve the combat effectiveness of the U. S. Eighth Army in Korea. The tours of battle groups in Korea will be the same length as the current tour for all units and individuals in Korea — 13 months.

Future troop movements to Europe will be made under a carrier company replacement system (C.C.R.S.) in conjunction with the personalized individual replacement system now in effect. The new system supersedes the overseas unit replacement system which rotates battle groups and battalions in the European theater.

The carrier company replacement system to be used for movement of troops to Europe offers advantages for that theater over the present unit rotation

assigned as chief of the data processing applications section in the Industrial Division at the Army Rocket and Guided Missile Agency, completing a tour of duty as a student at the Command and General Staff College.

ARMY HOURGLASS: Army air pioneer "Round The World" fliers landed in Washington, D. C. on September 8, 1924.

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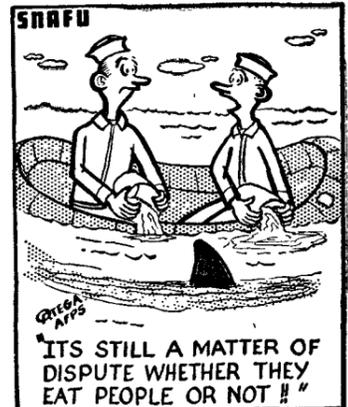
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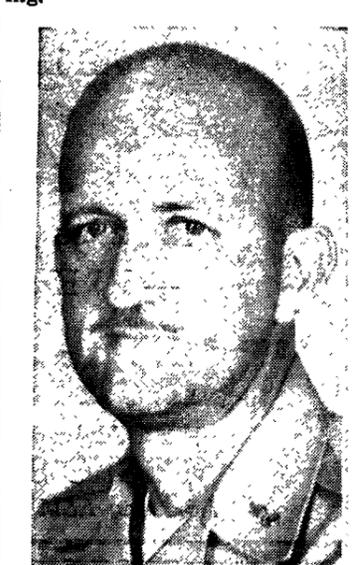
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218 RANDOLPH AVENUE, S.E.
Huntsville, Alabama
Tel. Jefferson 4-6488



Lt. Col. Grace

Lt. Col. Denis B. Grace and Lt. Col. Arnold R. Thomas have assumed duties with the Engineer Office at Command headquarters. Col. Grace is heading the facilities division and Col. Thomas the weapons support division. Col. Grace was formerly chief of the Infrastructure Division, U. S. Ar-



Capt. Powell

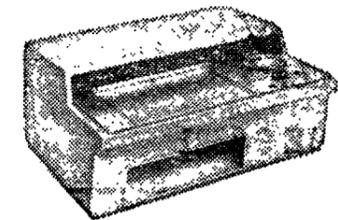
At the Army Ballistic Missile Agency. Capt. Elbert W. Powell has been assigned as executive officer with the Control Office. He was formerly a student at the Command and General Staff College, Ft. Leavenworth, Kansas.

Capt. Garcia
Capt. Orlando Garcia has been

Copy Machine Users

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Religious Services

POST CHAPEL — Bldg. 3714 PROTESTANT

Sunday — 1000 hours, Sunday School, 1st Session 4th grade through Senior High.

1000 hours — Adult Bible Class in Library of Service Club.

1115 hours — Sunday School 2nd Session — 3 yrs. of age through 3rd grade.

1000 & 1115 hours — Morning Worship. The nursery for babies and small children is open during these services.

Tuesday—1830 hours, EMCU. Wednesday — 1845 hours — Chancel Choir rehearsal.

RSA PARK — Sunday, 0945 hours — Sunday school classes.

Morning worship — 1100 hours Wednesday — 1930 hours — Family Night Service

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

Special Services Activities

POST SERVICE CLUB OPERATING HOURS

Monday thru Saturday 1000-2200

Sunday and Holidays 0900-2200

POST LIBRARY OPERATING HOURS

Monday thru Friday 0900-2200

Saturday and Holidays 1000-2200

Sunday - 1200-2200

CRAFTS SHOP OPERATING HOURS

Monday thru Friday 1000-2200

Saturday and Holidays 0800-1630

Sunday - Closed

RSA BOWLING LANES OPERATING HOURS

Monday thru Saturday 1200-2200

Sunday and Holidays — 1300-2100.

POST GYMNASIUM

Monday, Wednesday, and Friday, the Gym is open from 1800 to 2100 hours. Gym facilities will be available for group usage on a reservation basis by contacting the Sports Office, ext. 2943.

GOLF COURSE OPERATING HOURS

Saturday, Sunday and Holidays 0730 until dark.

All other days — 0800 until

hours — MASS.

Monday — 2000 hours — Inquiry Class.

Tuesday — 1930 hours — Novena in Honor of Miraculous Medal.

Wednesday — 1700 hours — Daily Mass 1930 hours — Choir Rehearsal.

Thursday — 1830 hours — Altar Boys' Class.

Saturday — 1800-1900 hours — Confessions.

100-1115 hours Catechism class. Daily Mass: (except Wed.) 1130 hours.

FIVE PROMOTED

Five lieutenants were recently promoted in a ceremony at which Col. Thomas S. Wood, director of the Army Rocket and Guided Missile Agency's Ordnance Missile Laboratories officiated.

The lieutenants, promoted from

second to first lieutenant, were: Leo J. Kwiatkowski, a mechanical engineer in the OML Research Laboratory; James D. Patton, an operations officer on the planning staff for Industrial Planning; Lawrence R. Seggel, acting executive officer for OML;

Fred C. Shotwell, a mechanical engineer in the Design Engineering Branch of OML; and Lt. Gerald R. Wetzel, a staff officer on the Little John system of the ARGMA Research and Development Division.

SWIMMING POOL OPERATING HOURS

Monday through Saturday 1000-2000.

Sunday 1200-2000.

TENNESSEE RIVER PICNIC AREA

Weekdays — 1300-2100. Saturday, Sunday and Holidays — 0900-2100.

For reservations of more than two tables, contact the Sports Section, ext. 2943.

FOR SALE!

LOTS

River lots, Placements for Trailers.

Business Lots.

Building Lots for Homes From 1 to 3 Acres.

Other Desirable Lots for a SMALL DOWN PAYMENT

LEHIGH DRIVE

Nice 3 bedroom home, close to school and churches, ready for occupancy.

\$10,500

PATTON ROAD

Nice 7 room house and beautiful building lots. Look for sign on property.

FARM

3 acres with 5 room house, ½ mile south of Toney on blacktop road, livestock included.

LOTS

From 1 to 10 acres. Go out Highway 72 about 8 miles to Rock Clift, turn right, follow road and look for sign on property.

FARM

23½ acres, 1 mile south of Hazel Green.

C. F. STINNETT

REAL ESTATE BROKER

714 Meridian St., N.

NIGHT PHONE JE 2-8716

OFFICE PHONE JE 6-9901

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BEAUTIFUL NEW BRICK HOMES—
Central Heat and Air Conditioning

\$14,650.00—\$18,250.00

Brookhaven Subdivision

DECATUR, ALA.

TWO BLOCKS OFF DANVILLE ROAD

GULF DEVELOPMENT COMPANY

603 Eleanor Drive, Decatur, Ala.

PHONE EL 3-4831 or EL 3-8592

VETERANS

MOVE IN FOR

AS LITTLE AS

\$100

This Includes Closing Costs

— FHA —

MOVE IN FOR

AS LITTLE AS

\$235

Includes Closing Costs

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"Edmonton Heights"

North Alabama's most exclusive

NEGRO SUBDIVISION

Adjoining A&M College — JE 2-5643

WRECKER SERVICE

In case of an accident ask for our new wrecker. Courteous operator, reasonable charges. Day Phone JE 4-4561, nights JE-4-0803.

Hill Chevrolet
Company

★ SHOP ★

This Ad For All Your Real Estate Needs

— Cardinal Avenue —

\$300 down on FHA Loan. 3-bedroom asbestos shingle home, living room and dining room combination, plenty of closet space, a carport. Price \$10,000.

— Lakewood Equity —

Large well constructed 3 bedroom brick, (one paneled), 1½ bath, attached garage with nice utility room off the kitchen and garage. Large kitchen with birch cabinets, a built-in range, oven and dishwasher. \$3,000.00 equity and assume monthly payments.

— Price Reduced —

On Steven's Drive in Bankhead Estates, constructed with old brick and frame paneling. A well designed 3 bedroom home with ceramic tile bath, forced air gas heat, plenty closet and storage space. A carport with paved drive, and all city utilities. Price \$15,000, F. H. A.

— Beautiful 1 Acre Lawn —

Close to Arsenal entrance on west side of town. 3 bedrooms, frame, stippled walls, newly painted, excellent condition inside and outside. 1 acre lot with beautifully landscaped lawn with flowers and fruit trees. Price \$12,600. \$450.00 down, F. H. A.

— Avondale —

Several 3 bedroom bricks available on 100% G.I. Loan with no down payment. Large kitchens with beautiful birch cabinets, and bath with ceramic tile. Large lots. Convenient to new Davis site school. Priced from \$12,800 to \$14,800. Buy now and choose your room colors.

— Stewart Acres GI —

3 bedroom frame on large corner lot. Home with tile bath, gas heat, birch cabinets and a carport. 100% G. I. Loan. Price \$11,200.

Jack Ivy, JE 2-5377

Bill Harris, JE 9-3374 — Josh Walling, JE 9-3106

CUMMINGS - IVY

— REALTORS —

1½ W. Side Square — Phone JE 2-8424

WEST BROOK

100% GI Loans

\$150 Down Including Closing Costs

3 Bedroom Bricks on ½ Acre Lots

WE INVITE YOU to inspect our Quality Construction

For Further Information

CALL JIM DONNELLY . . . JE 9-3681

DIRECTIONS—Drive north on Pulaski Pike past Oakwood to Grizzard Road (First street on left past water tower).

Use Wantads

WANT AD RATES — \$1.50 minimum, per weekly insertion, covering first 25 words. 4 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. Mail copy with payment to Mrs. Zillah Newsome, P. O. Box 346, Huntsville. Deadline is Monday, 9 a. m. for the week's edition.

FOR SALE — Gunterville Lake waterfront lots available for house trailers. Sand beach, paved road, on main channel. Ed Neely, Real Estate, Gunterville. Phone JU 2-3914. or JU 2-3230. 9-30c

GUNTERVILLE LAKE — Two new waterfront subdivisions. Beautiful lots 3 miles north of Gunterville, 1/4 down, balance three years. See Ed Neely, Real Estate, Phone JU 2-3914 or JU 2-3230. 9-30c

FOR SALE OR RENT — 1958 10'x46', 2 bedroom colonial Trailer, air conditioned, in A-1 condition, sale price \$1200.00 for \$4,000.00 equity and assume payments, would rent, phone Redstone extension 6817, ask for Higgins. 1tc

GUNTERVILLE LAKE HOME OR CABIN SITE — 100'x200' waterfront, shade, sandy beach, good roads, desirable neighborhood, 37 miles from Huntsville, shown by appointment, phone JE 6-3113 or JE 4-1451. 1tc

FOR SALE — 8'x16' Higgins Tent complete with nylon screens on all openings, zipper window and door flaps, aluminum poles, and steel tent stakes. Used twice, like new. Call Capt. Jones Redstone ext. 2626 or 7850. 1tp

DECATUR — New 3 bedroom brick veneer home, 2 blocks from school. Can finance either GI or FHA. For information call GYNN GRIMWOOD, Ph. Huntsville JE 6-2301. 1tp

MUST SELL AT ONCE — Owner ordered overseas. Immediate possession. 1718 Wakefield Dr., located on large corner lot, away from heavy traffic. Three large bedrooms, one and one-half baths. Built in kitchen, including dishwasher, clothes washer - dryer combination, range and oven. Carport and storage area. Only \$1,000.00 down, FHA Financing. Phone 6-4168 or 4-4524. 1tp

FOR RENT—Apartment with two bedrooms, living room, kitchen and dining room combination, ample closets, bath. Contact Jesse Black, Rt. 3, Arab. 9-16p

FOR SALE in Fleming Meadows —3 bedroom brick veneer home, attached garage, large rooms, 1 1/2 baths, patio, antenna, venetian blinds, 90'x150' lot, equity or refinance. Call JE 4-1197. 1tp

FOR RENT — 36 ft. Sportsman trailer, large blower, television, linen and dining service, electric laundry, garbage disposal, lawn mowed, no walking children. \$23.00 per week or \$90 per month. Near school, churches and stores. 1209 Meridian St., Phone JE 4-0398. ttc

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

FOR RENT — 2 Bedroom House trailer located at Triana Mobile Homes Court. Air conditioned & washing machine. Days call ext 6948, nites ext. 8962, SGT. McAFEE. ttc

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

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

MOBILE HOME FOR SALE — 1958, beautiful 10'x46', two bedrooms, automatic washer, large hot water heater, storm windows, fence. 133 Paradise Park, Bob Wallace Ave. 1tp

FOR SALE — 5 room cabin with bath, on lot 100x152 on Elk River at Blue Springs Lake. 10 mi. from Athens. Priced \$4,500. For further information call 6-2350. 1tp

FOR SALE — Modern home and adjacent lot at Warrenton Shores on Gunterville Lake. Will consider selling separately. Occupancy in October. Bill McKnight, Redstone ext. 5628. 1tp

FOR RENT OR SALE — House and lot on Gunterville Lake on Sunset Drive in Gunterville. Centrally heated and air conditioned. Two car garage. Kitchen, den, living room, dining room, three bedrooms, two tile baths and recreation room in basement with built in bar-b-q pit. Possession by Aug. 1. Telephone owner at Gunterville, Justice 2-3082, or Justice 2-3072. ttc

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

WHY LOOK Further for choice building lots suitable for duplex or apartments? Just call JE 2-2652 for interesting information. ttc

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

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

BUILDING SITES — At beautiful Vallaha Park, two miles west of Lacey's Spring on Highway 36 (five miles from Arsenal). Half-acre and acre tracts. S. S. FRANCIS, RFD4, Hartselle, Ala., pho. SP 3-7652. ttc

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

FOR SALE — 1953 all aluminum one bedroom house trailer, 33 foot long, in excellent condition. Also 1952 Ford 1/2 ton pick up truck engine, recently overhauled. Price \$325.00. Phone 6284 or 8275 after 1700 hours. 1tp

FOR RENT — 3 bedroom home. 4401 Thunder Lane Drive, Huntsville. 1 1/2 baths. Furnished. Bachelors' quarters for Arsenal officers, personnel. Frank Brown, Why Not Eat Here Cafe, Decatur, Ala. EL 3-9853. 9-16c

DID YOU KNOW? — Approximately 10,000 men are currently self-enrolled in Army supported college level courses on an after-hours, self-improvement basis.

Special Periscope Will Be Used By Astronauts in Flight

Norwalk Conn. (AFPS) — A periscope system which will serve as a navigational aid and a viewer has been designed for Project Mercury's manned space capsule.

It permits the astronaut to view the earth and to measure his altitude, direction and position in space. The periscope presents its information on an eight-inch diameter viewing screen in the capsule.

If the capsule's automatic re-entry control system should fail, the periscope can be used to determine earth position and proper capsule position for firing retrograde rockets to re-enter the earth's atmosphere.

The head of the periscope system extends outside the capsule

THE MODERN ARMY! All new NIKE sites under construction or planned are designed to accommodate NIKE HERCULES.

to possibly view a 180-degree field. Once in orbit, the astronaut can see an area of earth 1,500 nautical miles or more in diameter.

A power lens assembly in the periscope may be used to magnify a 20-degree portion of the 190-degree field.

The periscope is also equipped with interchangeable filters to aid in measuring the capsule's altitude.

Other indices on the screen give information on the direction of the capsule, its position relative to the earth's center, and capsule roll or pitch and drift angle or yaw.

ARDMORE ESTATES
Ardmore Hwy. at Oakwood Ave.
Bricks
3 Bedrooms
1 and 2 Baths
GI Loans
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Best Home Buys
BEST LOCATION
... IN TOWN
On 100% G.I. Loans
(or F.H.A.)
Sherwood Park

AUCTION

46 beautiful home sites in Penn Manor Subdivision, located on Bethel Street, Hartselle, Alabama, 5 blocks from shopping district on Saturday, September 12th, 1:30 P. M. on the premises. This subdivision has been carefully planned, broad streets, good drainage, practically all sites have 100 ft. frontage by good depth, city water, electricity, and natural gas available. This subdivision is restricted—restrictions to be announced at sale.

Splendid location in a well-kept neighborhood. Has a wonderful view of the nearby country side.

To appreciate the many fine qualities of these sites, we invite you to look them over at your earliest convenience.

Now open for inspection. Attend the auction. Buy a lot to build a home or for an investment in a little city that is making splendid progress.

Terms: 1/3 cash on day of sale; balance 1 and 2 years, legal rate of interest.

Possession with the deed.

Free Country Hams and silver dollars will be given away at the sale.

FOR INFORMATION SEE OR CALL:
FRED M. SPEAKE & SON, Real Estate Broker
Phones: SP 3-4792 (day), or SP 3-9205, SP 3-7207 (night)
Hartselle, Alabama

Associated: **E. C. WHEELER AUCTION CO.**
McMinnville, Tennessee — Phone 2276
HUGH F. PENN, Owner & Developer
Phone: SP 3-7079; Night: SP 3-7250 — Hartselle, Ala.

BON AIRE ESTATES

3 BEDROOMS — 1 1/2 BATHS

BRICK HOMES VETERANS!

\$150 DOWN

Includes All Closing Cost
Priced From

\$14,150 to \$14,950

DIRECTIONS

Drive South on Memorial Parkway. Turn right at first traffic light past The Huntsville Times. Continue West on Bob Wallace Avenue, turn left at Bon Aire sign on Fairacres Road. Follow arrows.

● Phone JE 9-1301 ●

PERFECT FOR FAMILY LIVING

MEADOW HILLS

No Down Payment to Vets — Move in For As Little As

\$100

Closing Costs

FHA — Move in For As Little As

\$400

Plus \$100 Closing Costs

DOWN

☆ Several Homes Ready for Immediate Occupancy

☆ Fully Furnished Model Homes for Your Personal Inspection

CALL OR GO SEE — PHONE JE 6-2301

FOLMAR & FLINN SALES

North on Parkway to Medaris Road — Turn Left

TWO PROTESTANT SERVICES TO BE HELD AT CHAPEL

Beginning Sept. 13, two Protestant services will be held each Sunday morning at the Post Chapel.

The first service will be held at 10:00 a.m. and the second service will be held at 11:15 a.m. Both services will be General Protestant Services.

The Chapel Nursery for babies and children through two years of age will be conducted during both services.

In order to coordinate the Post Chapel Services and the Post Chapel Sunday School, each session of the Sunday School will begin 15 minutes later than the present schedule beginning on Sept. 13. The first session, composed of children from the fourth grade up through the adult class, will begin at 10:00 a.m. The second session, composed of children three years of age up through the third grade, will begin at 11:15 a.m. Sunday school buses will arrive at pick-up points 15 minutes later than the present schedule beginning Sunday, Sept. 13.

How's Your Know How?

1. Why are turpentine and rosin called naval stores?
2. What famous battle was fought at Bunker's Hill in 1775?
3. What two former Presidents died on the same Independence Day?
4. Has acceptance of public office ever been mandatory in the U. S.?

(Answers to Quiz)

1. They were originally used principally for caulking wooden ships and waterproofing sails and rigging.
2. None. The Charleston, Mass., battle was really fought on Breed's Hill.
3. John Adams and Thomas Jefferson on July 4, 1826.
4. Rhode Island for years had laws providing penalties for refusal.

Rhymes of the Times

The wrong word
Would not be said
If we stopped to
think
Of the right instead.



'Freedom' Statue In Capitol to Be Reinforced, Cleaned

Washington (AFPS) — Freedom is being examined in the nation's capital. Not the spirit of freedom, or the Communist threats to it, but quite literally the Statue of Freedom which has topped the great dome of the Capitol since 1863.

Generations of visitors to Washington are familiar with the giant woman in flowing robes

with her right hand on the hilt of a sheathed sword and her left hand holding a wreath and a shield. The statue towers 285 feet above the ground.

Standing 19 and one-half feet tall and weighing seven and one-half tons, Freedom was one of the last works of the noted American sculptor, Thomas Crawford. But although it is almost 100 years old, it is now getting its first examination by repair men.

Climbing a 40-foot ladder inside the statue to its crown, one man reported that it is coming apart at the seams and will need brass straps.

Army Designs Flight Control Unit to Fit All Army Aircraft

Washington (AFPS) — Aviation's first universal flight control system has been developed for the Army.

Described as a "major milestone in airborne technology," the new system is said to be capable of automatically controlling any type of Army aircraft.

Based upon a new principle involving electronic "building blocks," it can be installed in various combinations to achieve any degree of automation in

flight.

In the past, Signal Corps officials explained, it was necessary to custom engineer flight control systems for each type of aircraft—or at least to modify them extensively to fit individual requirements.

The new system makes such redesign or modification unnecessary and therefore is expected to eliminate millions of dollars of "tailoring" expense.

Three years of study, design and development produced the new system. It was developed jointly by the Army Signal Corps and the Sperry-Phoenix Company.

AS FEATURED IN VOGUE MAGAZINE



Nelly Don

... wonderful wool blends — with a perfection in cut and fit seldom found at this price.

SPECTATOR DRESS

far left, in wool and nylon textured crepe. Taupe, green, wine-red, black. 12 to 40 and 12c to 22c.*

\$2500

City-Country Casual

left, beautiful blend of wool, nylon and fur fiber. Taupe, green, wine-red. 10 to 38 and 10c to 20c.*

\$2500

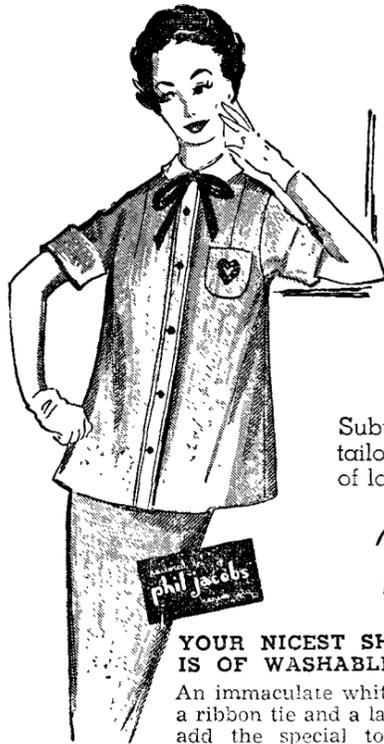
*Custom sizes for the shorter figure.

LADIES' READY-TO-WEAR SECOND FLOOR

Proudly Presenting...

Subtle camouflage in wonderfully wearable fabrics, carefully tailored in high style to present you proudly during this time of lovely expectancy.

Maternity Dress



YOUR NICEST SHIRT DRESS IS OF WASHABLE TWEED!

An immaculate white linen collar, a ribbon tie and a lace heart motif add the special touches to this hand-washable tweed dress that makes it so nice to own. Black, Brown or Red with White flecks. Sizes 8-18.

\$1098

A CORDUROY JERKIN WITH A MATCHING PRINTED BLOUSE!

An ensemble that's especially nice because the jerkin is wonderful over all your extra blouses and sweaters and the printed cotton blouse will pair nicely with other skirts and sportswear! Ivy League Green or Lustre Blue, Sizes 8 to 16.



\$1998



SO WHO'S BEAT? — Certainly not high-voltage Mamie Van Doren. Currently starring in M.G.M.'s "The Beat Generation," she sets a fine example. Lady beatniks, please note!



Huntsville's Quality Family Store

DUNNAVANT'S

OPEN MONDAYS & THURSDAYS 'TIL 8:00 P.M.—CLOSED WEDNESDAY AFTERNOONS