

The Redstone Rocket

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VOL. VIII; NO. 20

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 16, 1959

NEW POST EXCHANGE TO OPEN WITH CEREMONY SEPTEMBER 28

The new Post Exchange in Bldg. 3710 will open on Sept. 28 with a ribbon cutting ceremony at 9:45 a.m., door prizes given away every hour, and a drawing for a grand prize at 4 p.m.

The announcement was made by Maj. David Robinson, Exchange officer, and Mr. George J. Geiger, Exchange manager.

Col. O. T. McCloskey, post commander, is scheduled to cut the ribbon during the opening ceremony.

The new post exchange building is adjacent to the Rocket Service Club, constructed at a cost of \$128,151 with a total of 11,293 square feet of floor space, a substantial gain in area over the old Post Exchange in Bldg. 3651. The browser room, barber shop and snack bar will continue operation in the old PX. Store hours will be from 10 a.m. until 5:30 p.m.

Adjacent to the new building, the parking lot will accommodate 108 cars. The store will be equipped with all modern fixtures including electronic cash registers for self-service section. These registers automatically count the customers' change, leaving only paper money for the clerks to handle. The total cost of equipment for the new Post Exchange came to \$51,000.

A public address system has been installed to page customers, and the store has been equipped for music.

On the opening day the 55th Army Band will greet the customers outside the building, and organ music will be played inside.

The merchandise has been expanded to include more items of children's wear, clothing, shoes, and a larger self-service section. The whole store is departmentalized.

Formal invitations have been extended to the military commanders at the Arsenal and Exchange Service personnel who play a vital role in the operation of Exchange Services in the Command including Col. John D. Howell, Southern Service Exchange Center.

One room at the new Post Exchange will be devoted to record sales.

GEN. HINRICHS IS EXPECTED TO VISIT THIS WEEK

Lt. Gen. J. H. Hinrichs, Chief of Ordnance, is expected to visit the Army Ordnance Missile Command this week for a general orientation and tour of the Command.

Last week, Gen. Hinrichs was promoted to his present rank. He was appointed chief of Ordnance on April 2, 1958—the 20th officer to serve in that capacity.

Gen. Hinrichs has been the deputy chief of Ordnance since Sept. 29, 1955.

He is a 1928 graduate from the U. S. Military Academy and has concentrated on production, field service and maintenance since he became an Ordnance officer in 1933.

Gen. Hinrichs has a bachelor of science degree in mechanical engineering from the Massachusetts Institute of Technology and was graduated from the Army Industrial College, the National War College, and the Ordnance School at Aberdeen Proving Ground, Md.

He held many responsible posts in Ordnance prior to his assignment in the Field Service Division of OCO in 1952. He and Mrs. Hinrichs have made their home in the Washington area since then.

GIRL SCOUT REGISTRATION

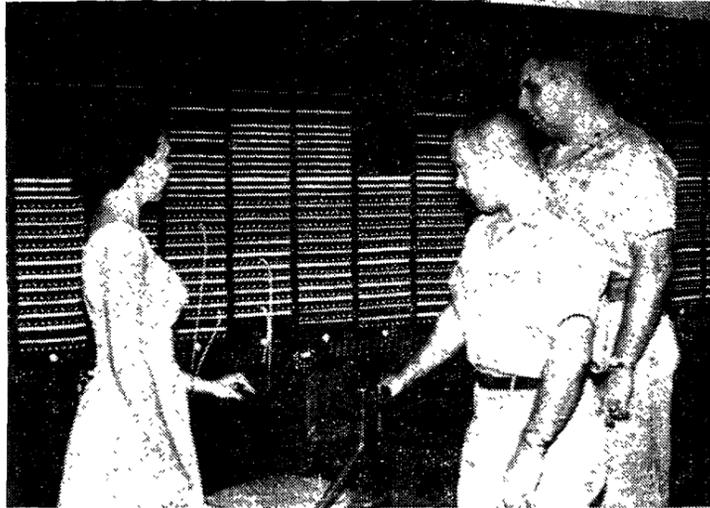
All girls and parents interested in Girl Scouts and Brownies, register at Scout's Inn on Goss Road Thursday, September 17, 10 a.m. to 4 p.m. Do not register if you belonged to an Arsenal troop last year.

POOL SCHEDULED TO CLOSE

The Special Services Officer announces that the post swimming pool will officially close at 8 p.m., Sept. 20.

Arsenal To Adopt Five-Digit Phone System; Directories Are Due Soon

* * *



TEST NEW SWITCHBOARD — The chief operator, Mrs. Burma Lee (left) demonstrates the capabilities of the new 22-position telephone board which will be in use after the five-digit system is introduced at Redstone Arsenal on Oct. 2. Watching the tests are the Post Signal Officer, Maj. Thomas Koeneman, and Lt. John W. Lutsch, wire officer in the post Signal Office.

Changeover Is Set For October 2

Change-over from a four to five digit telephone dial system will take place at 10 p.m. on Oct. 2. It was announced by Maj. Thomas Koeneman, Redstone Arsenal Signal Officer.

New telephone books are scheduled for distribution about Sept. 28 with new listings for the 10,200 telephones on the Arsenal.

Col. O. T. McCloskey is scheduled to throw the switch which will place the newly-installed twenty-two position board in operation in Bldg. 5698. In 1958, the Army Ordnance Missile Command and the other Agencies at Redstone Arsenal were serviced by a five-position switchboard. Now, with two positions for information operators, the board has 22 positions, more than quadrupling the facilities in three years.

As a basis for comparison, in 1956 an average 225 long distance calls were completed daily. In August of this year, the average was 1450. The information operators handle 135 calls and hour during a working day; and the operators manually handling local calls from Huntsville and the vicinity answers 1645 calls an hour at peak hours.

The phone facilities serve the Army Ordnance Missile Command headquarters, the three major elements of the Command, the Army Rocket and Guided Missile Agency, the Army Ballistic Missile Agency and Redstone. (See ARSENAL, Page 3)

MAJOR REMER IS ARGMA PROJECT OFFICER AT CAPE

CAPE CANAVERAL, Fla. — From Tampico, Mexico, to Chicago, to Alaska, France, Germany, Viet Nam, Huntsville, Ala., and thence to Cape Canaveral. This is the saga of the Army Rocket & Guided Missile Agency project officer at Patrick Air Force Base, Fla.

Dealing with the monitoring of missile measurement, and also with activities connected with guided missile and counter-missile programs, Major Oswald Remer, Ordnance Corps, is ARGMA's man-on-the-spot to coordinate his Agency's requirements. (See MAJ. REMER, Page 3)



COL. C. A. HEATH

COL. HEATH IS NEW CHIEF OF AOMC CONTROL

In keeping with the increased complexities of the Army Ordnance Missile Command, Major General J. B. Medaris, Commanding General, has announced the appointment of Col. Calvin A. Heath as Chief of Control Office at Command Headquarters.

According to General Medaris, this move is intended to add strength and prestige to the Control activities of the Headquarters by placing a very senior Army Colonel at the head of that Division.

Lt. Col. Erwin M. Graham, Jr., who has been functioning as (See COL. HEATH, Page 2)

AGENCIES TO SEND EXHIBITS TO STATE FAIR OCT. 5-10

Redstone Arsenal agencies and personnel will again participate in the Alabama State Fair in Birmingham this year.

All major elements of the Army Ordnance Missile Command and the Ordnance Guided Missile School are preparing to demonstrate recent achievements in the missile and space field.

About 300,000 people are expected to visit the arsenal exhibits.

The Fair will be from Oct. 5-10. Project Officer is Lt. Col. Robert C. Skillinger, chief of the Redstone Arsenal Field Maintenance Office.

Serving with Col. Skillinger are: Maj. R. H. Bassett, OGMS; Maj. C. A. Boterf, the Army Ballistic Missile Agency; Maj. David J. Walsh, Jr., the Army Rocket and Guided Missile Agency; and Capt. Thomas Gannon, assistant to Skillinger.

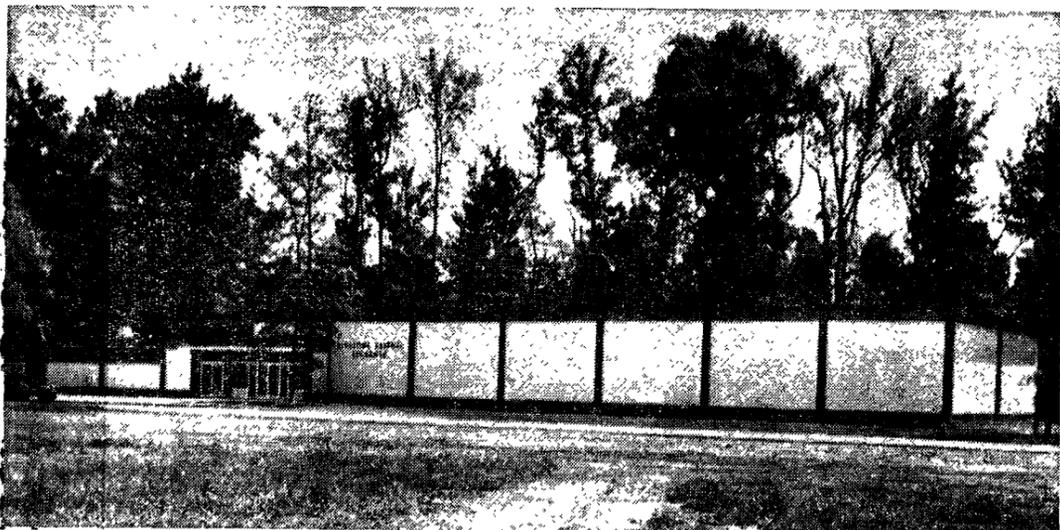
John Kubilis, chief, Visual Presentation Section, Review Branch, ARGMA Control Office, is the art director and chief exhibitor.

The principal theme of the arsenal part of the Fair this year will center around the space and anti-aircraft missions.

The City of Huntsville and the Huntsville - Madison County Chamber of Commerce will again join with the Arsenal and will exhibit items and material concerning the community.

"This presentation of U. S. Army equipment and the public demonstrations will provide a great opportunity for people to learn of many of the most significant Army accomplishments in the missile and space business," Col. Skillinger said.

"An exhibit of this dramatic, interesting type is the best and (See STATE FAIR, Page 3)



REDSTONE ARSENAL EXCHANGE

General Medaris to Speak

UGF Drive Kickoff Meeting Set Monday

The kickoff meeting for the 1959 Redstone United Givers Fund Drive is set for 11 a.m. Monday, Sept. 21 in the Rocket Auditorium.

Maj. Gen. J. B. Medaris, Chairman of the UGF campaign, will address the group of key Arsenal officials, drive workers and solicitors.

Officials of the Huntsville UGF and other community leaders will also take part on the program.

Master of Ceremonies will be Jackson Balch, the Redstone executive chairman.

Commanders of the Army agencies located on the installation, plus the chiefs of Rohm & Hass and Thiokol, are scheduled to be present.

Among those expected to attend from Huntsville are Mayor R. B. Searcy; Roy Stone, chairman of the county board of commissioners; Walt Linde, Huntsville UGF drive chairman; M. L. Weil, Jr., president of the Huntsville UGF; and Harold Bronfin, UGF executive director.

"The purpose of this kickoff meeting is twofold," according to

Balch.

"First, it is vital that each contributor to the UGF understand fully the significance and service rendered by the UGF agencies.

"Second, each of the several hundred solicitors must have the opportunity to learn at first hand the most effective way to explain to contributors how the UGF agencies make our community a better place in which to live and work."

Representatives of all the local UGF agencies will be present at the event.

The various drive chairmen for the arsenal Army activities will also attend, along with solicitors and key workers from their own organizations.

The Redstone Arsenal Band will play several numbers in the auditorium before and after the ceremonies.

"No specific goal has been set for Redstone Arsenal," according to Balch. "But we are suggesting that each person contribute 80 percent of one day's pay."

Balch added, "The many ser- (See GEN. MEDARIS, Page 2)

The Redstone Rocket

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

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Gen. Medaris

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vices rendered by the UGF agencies—such as the Alabama Society for Crippled Children and Handicapped Adults, the Salvation Army, the American Red Cross, and the PTA Milk Fund—are indispensable to the health and welfare of the citizens living in and near our community.”

The Redstone Arsenal drive will officially get underway with the kickoff meeting on the 21st, it will end Nov. 5.

“Arsenal personnel, including civilian, military and contractor, have always been generous in supporting the UGF,” Balch said. “And I am supremely confident that we again will do our part and more in this great community enterprise.”

Col. Heath

(Continued From Page 1)
Chief of the Control Office since formation of the Army Ordnance Missile Command, has done an outstanding job in the organization of the Control Office and as Executive Secretary of the Ordnance Missile Planning Office which is an agency of the Chief of Ordnance within the Missile Command Headquarters concerned with broad and sensitive overall questions on Ordnance missile programs and related areas. Lt. Col. Graham's ability and experience will be continued in the Control Office as he will remain as Deputy to Col. Heath, and, in addition, will carry forward the important activities of the Ordnance Missile Planning Office.

Col. Heath brings to this assignment prestige and experience of more than 20 years in the Army, more than half of which has been spent in Ordnance procurement, industrial and technical activities. Until recent personnel changes made possible his transfer from ABMA, he has been

Policy Concerning UGF Is Outlined By Balch

In order that all Arsenal personnel may understand the Arsenal policy concerning contributions made to the local United Givers Fund by employees living outside Madison County, Jackson Balch, the Redstone executive drive chairman, said:

“The Redstone UGF will cooperate to a reasonable degree in soliciting for nearby counties that have an United Givers Fund organization in operation. Morgan and Jackson Counties now enjoy such organizations.

“We should like to stress, however, that the very existence of Redstone Arsenal — the place where we earn our living—adds

Chief of the Industrial Division of that Agency.

Col. Heath's military experience began as a combat officer. He was a battalion commander in the 26th Infantry (Yankee) Division through four campaigns in Europe. He was wounded in action and as a result received the Purple Heart Medal in addition to awards of the Silver Star and the Bronze Star with Oak Leaf Cluster for his leadership in combat. He is a graduate of the University of New Hampshire and came to Army Ordnance in February 1952.

While serving as a captain in the Canal Zone in June 1942, he was married to Miss Kathryn Stouffer of Hagerstown, Md., then a lieutenant in the Army Nurse Corps, also stationed at Ft. Amador, Canal Zone. They live at 26 Ripley Drive, Redstone Arsenal.

Lt. Col. Graham's qualifications and military experience efficiently complement those of Col. Heath. He was born in Pensacola, Fla.; received a bachelor's degree in electrical engineering from Mississippi State College, and in addition, possesses both a master's and Ph. D. from the Massachusetts Institute of Technology. He was an executive officer during combat, and during World War II served in the North African and European theatres. His outstanding efforts were rewarded with the Bronze Star Medal and the French Croix de Guerre. Col. Graham resides at Qtrs. 8012, Redstone Arsenal, with his wife, Sue, and two daughters, Diana and Elizabeth.



PLAN UGF DRIVE—Shown above laying plans for the 1959 United Givers Fund Drive are Maj. Gen. J. B. Medaris (right), drive chairman, and Jackson Balch, drive executive chairman. The Redstone campaign will be launched Sept. 21. Gen. Medaris is Commanding General of the Army Ordnance Missile Command which has its headquarters at Redstone. Balch is chief of the Control Office of the Army Rocket and Guided Missile Agency's Research and Development Division. ARGMA is an element of the Missile Command.

a very great burden on Madison County and Huntsville. All of us who work here owe a great deal to the citizens and institutions of the city and county. And this substantial obligation must be discharged fully and fairly by all of us who are connected with the Arsenal.

“Redstone Arsenal could not exist without the services provided by the Huntsville and Madison County, so the least we can do is to support the United Givers Fund agencies that mean so much to our health, safety, welfare, and peace of mind.”

Balch added: “This policy has been strongly endorsed by the chiefs of both the United Givers Fund organizations of Morgan and Jackson Counties.

“These UGF Chairman also said that Arsenal employees of Morgan and Jackson counties should not forget the problems of Madison County; and that employees residing in these counties should make contributions to

TOYLAND TO OPEN ON SEPTEMBER 30

Toyland's opening for the 1959 Holiday season is scheduled on Sept. 30 at Bldg. 3657, across the street from the old Post Exchange

building. Mr. George J. Geiger, Exchange manager, announced that a new selection of the latest toys will be on display after a ribbon cutting at 10 a.m.

Layaway for Christmas giving can be arranged at Toyland.

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State Fair

(Continued From Page 1)

simplest way for laymen and technical people alike to understand the contributions the Army is making in scientific and educational areas," Skillinger said.

This year's exhibit will be split into two principal divisions. The outdoor displays will feature the Juno II deep space probe and the Nike Hercules anti-aircraft missile.

The indoor show will be under the main grandstand at the Fairgrounds, in the same area as the Arsenal occupied last year. The indoor show will consist of 20 or 30 booths from AOMC, ABMA, ARGMA, OGMS and various elements of these agencies.

A description of the contribution that each agency and division on the installation is making to the Fair will be published shortly.

"Emphasis will be placed on live, active exhibits that will give visitors plenty of opportunity to participate personally," Col. Skillinger said.

"We believe that this year's show will be one of the most significant and interesting exhibits that the U. S. Army has ever staged anywhere," he said.

The outdoor and indoor shows will be open from 10 a.m. until 10 p.m. for each of the six days of the Fair.

"We particularly urge personnel associated with the Arsenal to make a trip to Birmingham to see the Fair," Col. Skillinger said. "Without question, more can be learned about the missions and people of Redstone Arsenal in this concentrated area than can be gleaned in an extensive tour of all arsenal facilities."

In addition to the AOMC and OGMS effort, the Fair will feature hundreds of exhibits and demonstrations concerning Alabama industry, agriculture and education.

There will also be the usual Fair entertainment furnished by the big names of show business. Among these will be The Cisco

Maj. Remer

(Continued From Page 1)

with the Air Force Missile Test Center.

A reservist, Maj. Remer entered the Army in May of 1940, after graduation from Sullivan High School, Chicago, Ill. He served in Europe in the Rhineland Campaign in 1945, following participation in the air offensive over Europe. As commanding officer of the 1589th Aviation Ordnance Company, he moved from England, through Germany, and later served in the occupation force of that country, from 1951 to 1954.

With a stint at Fort Richardson, Alaska, 1947-49, following a brief tenure as assistant manager in an automotive parts store in Evanston, Ill., Maj. Remer briefly attended San Antonio College in Texas, majoring in the study of Spanish, a language with which he had an early acquaintance.

His parents were living in Tampico, Mexico, the proprietors of a restaurant. A revolution erupted when Major Remer was an infant, and the family fled to the safety of Chicago.

After attending the officers' guided missile course at Huntsville, Ala., in 1956, the peripatetic major was sent to Viet Nam in 1957 as a member of the Military Assistance Advisory Group. As adviser to the Viet Nameese Army, "Oz", as his inmates call him, established language classes

for Viet Nameese officers, supervised the evacuation of vehicles damaged during the Indo-Chinese War of 1955, and initiated schools to train the soldiers of the young army in the maintenance and use of weapons, vehicles, and other equipment provided under the U. S. military assistance program.

A devotee of water skiing, boating, and fishing in the subtropical environs of his present duty station, Maj. Remer hunted exotic game in Viet Nam. He once shot at a tiger, and frequently felled deer, wild boar, a specie of

wild buffalo; and even peacocks.

Maj. Remer grinned in remembrance of gustatory delights past. "Peacock tastes very much like turkey," he reports.

Maj. Remer is married to the former Thelma Holden, whose parents live at 426 Plum St., Florence, Ala., and he is the father of Gregg, aged 12, and Mark, 5.

What's your job in protecting America's freedom? Sum it up in 500 words or less for the Freedoms Foundation Awards program.



EXCHANGE SERVICE PERSONNEL — The annual award of five and ten year pins was made recently to personnel of the Army-Air Force Exchange Service at Redstone Arsenal. One 15-year pin was awarded. George J. Geiger, general manager, and Maj. David Robinson, Exchange Officer made the awards. The number of years of service is in parenthesis behind the individual's name. Those who received pins are left to right: Allen Barefoot (5), Mrs. Mildred Wiggin (5), Donald Godfrey (5), Mrs. Evelena Wilson (5), Miss Elizabeth Barar (15), Mrs. Geneva Ingram (5), Geiger, who helped present the pins; Mrs. Catherine Robinson (5), Maj. Robinson, who presented pins; Clarence Newby (5), Mrs. Mattie Payne (10), Walter Moore (5), Mrs. Ella Conder (10), Mary Stewart (5), Mrs. Opal Passeur (5), and Mrs. Louise McCauley (5). Others who received these awards were Mrs. Ellie W. Taylor who has been with the Exchange Service 10 years, and Mrs. Maude O. Wilson and Miss Carmine McCormack with five years each.

Arsenal

(Continued From Page 1)

stone Arsenal, and the Ordnance Guided Missile School.

Mrs. Burma Lee and Mrs. Mamie George, the chief operator and her assistant find the present operation far removed from the 1949-1950 activities when four operators handled one manual board around the clock, completed approximately 200 calls (both local and long distance), and acted as pinch hitters on other communications equipment such as the teletype machines. Now, it takes 8 operators to take care of telephone communications alone.

The total lines being used in 1956 were 2,290 with a main line potential for 5,000. At present, 10,189 main lines are in use with a potential of 12,000. This is one of the largest telephone communication networks at any Army installation. Many of the long distance calls are placed on the 18 toll lines leased by the Army to such main points as Detroit, Washington, Los Angeles and elements of the U. S. Army Ordnance Missile Command such as White Sands Missile Range, N. M. and Cape Canaveral, Fla.

Kid and Pancho; Craig Stevens, of TV's Peter Gunn; Gene Barry, TV's Bat Masterson; Robert Horton, TV's Scout in Wagon Train; Frankie Masters and his Orchestra, plus the spectacular Barnes Carruthers "State Fair Revue."

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Social News

NCO Wives Club Has Monthly Dinner and Business Meeting

Plans for dancing classes and a buffet supper were announced at the NCO Wives Auxiliary meeting held Thursday evening at the NCO Club.

In connection with the Cerebral Palsy Telephon held Saturday night in Birmingham, members of the NCO Wives Auxiliary on an individual basis contributed 57 dollars to the cause.

James Doeffinger, guest speaker, outlined plans for instruction in ballroom dancing to be available to the group. Classes, to run 100 weeks, began Monday evening at 7:30 p.m. in the new addition of the NCO club. Those interested in participating should call ext. 8870.

the Auxiliary on Saturday, Sept. charge of \$1.00 will be made for each guest attending. Reservations for the affair must be made not later than Tuesday, September 22, by calling JE 4-7806. A dance will follow the supper, and will feature Hilding Holmberg.

Mrs. Norman Koenig, auxiliary president, asked support of members to sew, mend, and sort clothing, and repair toys to be given to the Salvation Army for needy families at Christmas. A date will be named soon.

Mrs. Earl Pelham announced that the nursery, with advance notice, will open anytime as long as it is assured not less than \$1.00 per hour. Rates are 25 cents per hour for one child; 35 cents, two children, and 45 cents three children.

Mrs. Frederick Petenkin reported that the charity candy sale was a complete success.

New committee appointees included Mrs. James Ray to the executive board; Mrs. Frances Keenan, membership committee; and Mrs. Dorothy Singer, Mrs. Ruth Ryan, and Mrs. George Steffens, Red Cross.

Hostess for the meeting were Mrs. Frank Reed, Mrs. George

Holy Name Society Members Hear Gilmore

James H. Gilmore of the Army Rocket and Guided Missile Agency's Personnel office was the guest speaker at the meeting of the Saint John's Holy Name Society in the Redstone Arsenal Post Chapel last Wednesday evening.

Gilmore is a member of the Mason-Dixon Toastmasters of Huntsville.

Approximately 40 members were present at the meeting which included the election of officers. SP5 Willard A. McDonald and SFC. Thomas E. Adams, Jr., were elected president and treasurer, respectively.

The members volunteered to act as bus guards on Saturday mornings during the catechism classes. Member also discussed the resumption of the monthly Holy Name breakfasts.

Luncheon Is Planned To Honor Mrs. Colby

All members of the Redstone Arsenal Officers Wives Club are invited to attend a farewell luncheon for Mrs. J. M. Colby to be held at 12:30 p.m. on Monday, Sept. 21 at the Officers Club.

Reservations and cancellations must be made not later than Sept. 18 by calling Mrs. Robert L. Crossman, ext. 7563; Mrs. H. R. Del Mar, ext. 7045; or Mds. C. R. Blaha, JE 6-0464.

Mrs. Colby is the wife of Brig. Gen. J. M. Colby, deputy commander of the Army Ordnance Missile Command Gen Colby announced his plans for retirement from active military service on Sept 6.

Steffens, and Mrs. James Ray. New members welcomed included Mrs. Stanley Pence. Mrs. John Hoffman, Mrs. Edward Powell, Mrs. James McCord, and Mrs. Lynn Navin. One guest, Mrs. Julia Browning, attended.

Door prize went to Mrs. E. F. Smith.



LUNCHEON COMMITTEE—The chairman of the luncheon committee for the Sept. 29 meeting of the Redstone Arsenal Officers Wives Club, to be held at the V.F.W. Club on North Memorial Parkway, met at the home of Mrs. H. H. Wishart last week. From left to right are: Mrs. J. M. Alexander, publicity; Mrs. H. H. Wishart, hostess and co-chairman; Mrs. J. H. Morrison, Jr., program; Mrs. F. E. Napper, food; Mrs. Charles J. Payne, co-chairman; Mrs. W. F. Kaiser, Wives Club president; and Mrs. H. N. Brownson, reservations. The climax of the luncheon will be a fashion show featuring clothes and accessories from Blach's in Birmingham.

FASHION SHOW TO BE HIGHLIGHT AT OFFICERS WIVES CLUB LUNCH

The chairmen of the committees for the Redstone Arsenal Officers Wives Club luncheon met with Mrs. H. H. Wishart and Mrs. Charles J. Payne, co-chairmen, at the Wishart home last week to coordinate plans for the luncheon for the Officers Wives Club on Sept. 29.

The luncheon will be held at the Veterans of Foreign Wars clubhouse on North Memorial Parkway, preceded by a social

half hour from 12:30-1 p.m. Following the lunch, a fashion show will be presented by Blach's of Birmingham.

Mrs. John H. Morrison, Jr., will be in charge of the program plans. Mrs. J. M. Jefferds will be in charge of decorations and Mrs. Robert Kessler will preside over the sherry committee.

Mrs. F. E. Napper is the food chairman and Mrs. H. N. Brownson is chairman of the reservation committee.

Mrs. Brownson announced that Mrs. G. L. Barnhill, telephone ext. 8456, Mrs. Paul A. Lamoure, ext. 8559, and Mrs. Edwin A. Rudd, ext. 8056, will take care of the on-post reservations while Mrs. R. W. McNamee, Jr., JE 2-8870, Mrs. S. J. Dobbs, JE 2-3972, and Mrs. H. R. Lowers, JE 4-1284, will accept reservations from the residents of Huntsville and surrounding communities. Mrs. Brownson also said that she will be in charge of all cancellations. Her phone is Arsenal Ext. 8848.

The deadline for both reservations and cancellations is noon on Sept. 24.

It was also suggested by Mrs. Brownson that reservations be made at the Post nursery at the same time, so that enough attendants to take care of the children would be on hand. School buses will be provided to drop the children at the Nursery or pick them up, according to their individual school shifts.

Mrs. J. M. Alexander and Mrs. Fred O'Brien are the publicity chairmen for this affair which will include approximately 400 people.

ACCOUNTANTS PLAN AGENDA

The North Alabama Chapter of the National Association of Accountants will hold a golf outing at the Athens Country Club, Sept. 19.

President James G. Thomas, Rohm & Haas, stated that final plans for the first technical meeting of the Chapter year will be held Sept. 21 at The Holiday Inn in Decatur.

AFGE Will Hold Banquet Sept. 25

A dinner banquet will be held Friday night, Sept. 25, by Redstone Arsenal Lodge 1858, American Federation of Government Employees, it was announced by E L Lowther, Lodge president

The banquet will be held at the Amvets Club on Memorial Parkway in Huntsville. Following is the schedule of events: social hour, 6 to 7 p.m.; dinner, 7 to 8; speeches, 8 to 9; and dancing, 9 to 12. Music will be provided by Glenn Slayton and his Combo.

Tickets to the banquet are \$1.75. AFGE members, prospective members, and friends are invited to attend.

Tickets may be obtained by contacting the following AFGE officers: AOMC—Wally Branham, ext. 5408; ABMA—Doyle Eastep, 3429; ARGMA—Jake Hendershot, 4105; RSA—Tom Childress, 2294.

Did you know that the electronic equipment which transmitted President Eisenhower's voice back from a satellite in space was the product of Army Signal Corps research and engineering?



"A CRACK IN THE WALL," an original extravaganza by the Show Production Group at the Rocket Service Club is due to open at the club tomorrow night at 8 p.m. Above (left to right) drummer, Ray Dreeben, singer, Gail Godsey, and dancer, Ken Ford, rehearse the fever act.

At the Service Club

DRAMATICS: Ready! Lights! Places! Curtain oging up! Music, comedy, dancing will be featured in "A Crack in the Wall," an original musical, Thursday night Sept. 17 at 2000 hours at the Rocket Service Club. The production will be presented by the newly organized Show Production Group as their first production. The leading roles will be played by Jeanne Tyson and Bob Morgan.

Enlisted men and guests are cordially invited to enjoy an evening of original entertainment. Curtain time is 2000 hours Thursday night, Sept. 17.

OUTINGS: A hamburger fry is scheduled for Monte Sano State Park Sept. 18. The buses will depart from the Service Club at 1800 hours.

TOURS: We will visit the famous Shiloh National Military

Park on Sept. 19. Shiloh was the first major battle in the western campaign of the war between the states. Before touring the park, we will visit the exhibit room in headquarters building near Pittsburg Landing. Relics, exhibits and maps relating to battle and the war are on display.

The buses will depart from the Service Club at 1230 hours.

PARTIES: The popular pizza chefs will be tremendously busy preparing an array of pizzas for the party on Sept. 20 at 1800 hours. A song fest will follow the pizza party. Make reservations early for the party.

Another patio weiner roast has been crowded into the program this month. Please sign up for the weiner roast on Sept. 22 at 1800 hours.

TOURNAMENTS: Congratula-

PARTY BRIDGE WINNERS NAMED

The party bridge group of the Redstone Arsenal Officers Wives Club met Thursday morning for competition with four tables in play.

Mrs. Stanley Pearson placed first, with Mrs. F. G. Hoag second, and Mrs. James Blank, low.

All members of the Wives Club are invited to participate in the activities of the party bridge group, which meets weekly on Thursday mornings. To make reservations for tomorrow's competition call Mrs. A. Y. Harper, Jr., JE 9-2606 by noon today.

tions to Gerald W. Heck and Arthur B. Gordon, Jr., first and second place winners in the monthly ping pong tournament. We had sixteen participants in the competitive play-offs this month and we would like to encourage more participants next month.

Sept. 25 is the day for competitive play in chess and pinochle this month. Prizes will be awarded the winners in both games. There seems to be considerable enthusiasm in both games and it will be interesting to note the outcome of the games. Sign the roster today in the Service Club office.

DANCES: Two more dances are on the agenda this month. The birthday dance is scheduled on Sept. 27 at 2030 hours; and on Sept. 29 Charlie Lyle's Orchestra will be on deck for a delightful evening of dancing.

FLASH: If you have never visited the Great Smoky Mountains you will ultimately want to take the weekend tour early in October. We will visit Gatlinburg, Newfound Gap and the Cherokee Indian Reservation.

Gatlinburg is known as the Tennessee "Host Town" and one of the nation's most visited parks. Located at the foot of awe-inspiring Mt. LeConte and at the entrance to The Great Smoky Mountains National Park visitors revel in the glories and natural wonders of the great area. Almost every type of vacation is available from browsing in numerous craft shops to roaming inviting trails. For further information contact the Service Club office, ext. 4531.

State Civic Leaders Tour AOMC Agencies And Missile School

More than 400 members of the Alabama League of Municipalities toured the Army's rocket and guided missile center at Redstone Arsenal Monday.

The local government officials opened a three-day convention in Huntsville Monday. Among the speakers at the convention Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command, addressed the Monday morning session.

At Redstone Monday afternoon the group toured rocket development and testing facilities of the Army Rocket and Guided Missile Agency and the Army Ballistic Missile Agency, two major elements of General Medaris' Command.

They were welcomed at the Arsenal's Rocket Auditorium by

Brig. Gen. J. G. Shinkle, ARGMA commander, followed by the showing of a motion picture, "The Army's Family of Missiles."

The group witnessed the firing of small rockets at ARGMA's Range 6, and then toured the ABMA Test Laboratory where huge liquid rocket motors are static tested.

At the Ordnance Guided Missile School the visitors saw a television demonstration as the guests of Col. Charles Eifler, commandant. They also saw the Nike Hercules, Hawk, SS-10, Sergeant, Lacrosse and Jupiter missiles displayed.

The 55th Army Band of Redstone Arsenal played for the group.

Project officer of the tour was Col. Glenn Elliott of ABMA.

The Army today is working on development of a "flying tank" that can drop its treads and take off into the wild blue yonder.

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9.00x14	102.75	33.18

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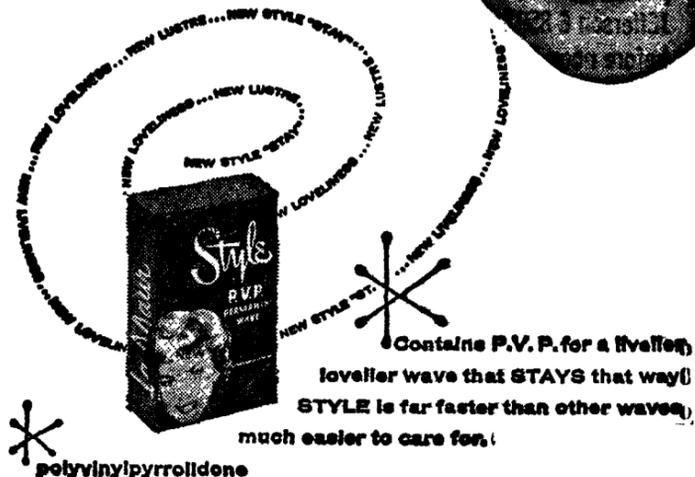
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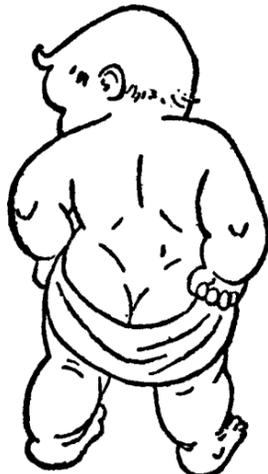
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GRADUATES FROM MOTION VIBRATION SEMINAR—
Lawrence W. Owens (left), electronic technician in the electronic measuring unit of the Structures and Mechanics Laboratory of the Army Ballistic Missile Agency, receives a diploma from John Gunnarson, general manager of Burson-Marsteller Electronics, in New Haven, Conn. Owens recently was one of more than 100 engineers and scientists to complete a special course on the latest equipment and techniques for complex motion vibration testing—laboratory simulation of actual in-service vibration conditions.

Reserve Officers to Begin Classes Soon

Lt. Col. Angelo Ferranti, commandant of 3385-4 Huntsville U. S. Army Reserve School, announces six classes in the following branches: Command & General Staff, Military Intelligence, Military Government, and Guided Missiles (Air Defense).

The instruction is designed to parallel the resident associate courses at the regular service schools such as the Command & General Staff School at Ft. Leavenworth. The purpose is to provide progressive branch training for reserve officers in the duties of unit commanders and staff officers. Six years are required to complete the basis and advance courses. Assigned students receive 48 hours of classroom instruction followed by 15 days active duty training with pay during the summer for practical application of the principles learned in classes.

Lt. Col. Angelo L. Ferranti (QMC) is head of the Command & General Staff Department which

has the 5th Year C&GS Course in progress.

t. Col. Paschal E. Redding, Jr. (CE) is head of the Military Intelligence Department. These MI

classes are beginning;

2nd Year Basic MI Course, instructor-Lt. Col. Theo J. Combel (TC); 2nd Year Advanced Course, instructor - Lt. Col. Roy S. Martin (Arty); Maj. Edgar B. Jones (Arty) will instruct the Air Defense Course and Guided Missile Class.

Maj. Stacey Kroger (QMC) is the Head of the Military Government Department. These classes are opening: 2nd Year Basic CAMG Course, instructor - Lt. Col. W. P. McNutt (CMLC); 2nd Year Advanced CAMG Course, instructor - Lt. Col. Samuel A. Garner (Inf). Under a new Army regulation (DA Circular 135-13) Reserve Officers in the combat arms can receive constructive credit for staff duty with the basic arms which may qualify them for enrollment as students. Contact t. Col. Ferranti for details at Redstone Arsenal Extension 5896.

Detailed information about the various courses may be obtained by contacting the above reserve officers at the U. S. Army Reserve Training Center at 1216 Meridian Street, Huntsville, or calling JE 6-5631.

These new courses are being tentatively planned to start in September and reserve officers interested in these courses should immediately contact the following instructors to enroll this fall: First Year Basic or Advanced Ordnance Course, instructor, Maj. Victor Robertson, Ord. Co.; First Year Basic or Advanced Military Police Course, instructor, Lt. Col. Arthur J. Hogan (MP). First Year Basic or Advanced Infantry Course, instructor, Lt. Col. Arthur J. Hogan (MP).

Chinese To Mark Independence Day

The 48th anniversary of the establishment of the Republic of China by Dr. Sun Yat-Sen will be observed here on Oct. 10th by the student officers of the first missile battalion of the Chinese Army now enrolled at the U. S. Army Ordnance Guided Missile School.

Lt. Col. Tien-Lin Wu, senior Chinese officer here, said top commanders of all Redstone Arsenal agencies, members of the OGMS staff and their wives are being invited to a dinner that evening at the Officers Club that will feature a menu of several internationally renowned Chinese delicacies.

The day - known in China as

the "Double Ten" because it is the tenth day of the tenth month of the year - marks the time in 1911 when Dr. Sun led a successful revolt against the ancient Chinese monarchy that has ruled the country from 2205 B.C.

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POST CHAPEL — BLDG. 3714 PROTESTANT
 Sunday: 1000 and 1115 hours — Morning Worship, general Protestant services.
 Church School — 1000 hours — 1st session 4th grade thru Adult Class.
 1115 hours — 2nd session 3 yrs. of age thru 3rd grade.
 Nursery for babies and small children is open during these two services.
 1830 hours — Christian Youth Fellowship, Jr. Hi and Senior Hi. Buses will pick up those attending.
 Tuesday: 1830 hours — Enlisted Men's Christian Union.
 Wednesday: 1845 hours — Chancel Choir Rehearsal.

REDSTONE PARK COMMUNITY HALL
 Sunday: 0945 hours — Sunday School Classes 1100 hours — Morning Worship Service.
 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.

CATHOLIC
 Sunday: Masses — 0745, 0845 and 1230 hours (Nursery available during Masses).
 Baptisms — 1330 hours (By appointment).
 Teenage Religion Class — 1830 hours.
 Monday: Inquiry Class — 2000

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:

hours.
 Tuesday: Altar Boys' Class — 1830 hours.
 Novena in Honor of Miraculous Medal—1930 hours.
 Choir Rehearsal—2000 hours.
 Wednesday: Mass—1700 hours.
 Saturday: Catechism Classes—1000-1130 hours.
 Confession—1800-1900 hours.
 Daily Mass: 1130 hours (except Wed.)
CHAPEL NO. 2 (A. F. Area)
 Sunday: Mass (Italian) 1100 hours.
CHRISTIAN SCIENCE SERVICES
 Sunday — 1100 hours—Held in Huntsville at White St. and Wells Avenue.
 Wednesday meeting—1930 hours.

Births at Post Hospital

Lisa Anne Hasty, 6 lbs. 14 ozs., Sept. 2, daughter of 1st Lt. and Mrs. Charles R. Hasty.
 Diane Sue Welch, 7 lbs. 6¼ ozs., Sept. 2, daughter of Sfc. and Mrs. Alvin L. Welch.
 Robert Wesley Ables, 4 lbs., Sept. 5, son of Pfc and Mrs. Wesley H. Ables.
 Sheri Lynn McLeod, 6 lbs. 15½ ozs., Sept. 5, daughter of SP-4 and Mrs. Robert N. McLeod.
 Annette Gertrude Rawleigh, 7 lbs. 8 ozs., Sept. 6, daughter of M-Sgt. and Mrs. Charles H. Rawleigh.
 Brenda Gail Putnam, 6 lbs. 5¼ ozs., Sept. 6, daughter of Pvt. and Mrs. James F. Putnam.
 Brian Joseph Wetzel, 8 lbs. 2 ozs., Sept. 6, son of 1st Lt. and Mrs. Gerald R. Wentzel.
 Gary Allen Moore, 7 lbs. 13½ ozs., Sept. 7, son of Sp-4 and Mrs. Stanley H. Moore.
 Reta Jane Lappin, 7 lbs. ½ ozs., Sept. 8, daughter of SP-5 and Mrs. Robert K. Lappin.

ROCKET CITY BOOK IS ON SALE NOW

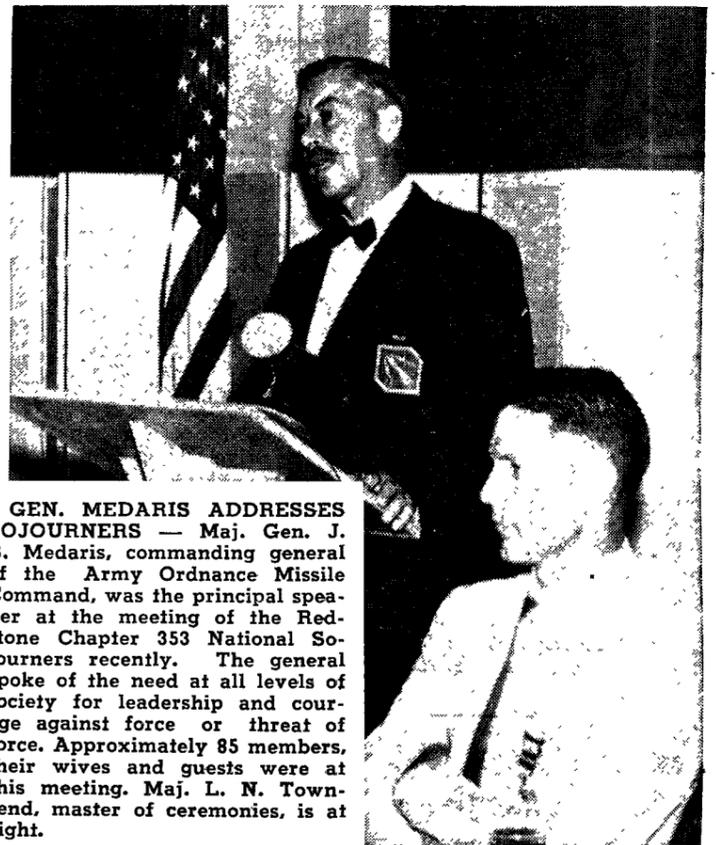
Redstone Arsenal and Huntsville, Alabama, often newsworthy, are now subject of a book, Rocket City USA. The writing and photographs bring together for the first time the story of Jupiter and Redstone missiles, the Free World's first earth and sun satellites, the new Saturn missile, ARGMA's Nike-Zeus, and this country's first space tourists, Able and Baker.

Monday thru Friday 1300-2100.
 Saturday 0900-1630.
 Sunday and Holidays 1300-1630.

GOLF COURSE OPERATING HOURS
 Saturday, Sunday and Holidays 0730 until dark.
 All other days — 0800 until dark.

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.



GEN. MEDARIS ADDRESSES SOJOURNERS — Maj. Gen. J. B. Medaris, commanding general of the Army Ordnance Missile Command, was the principal speaker at the meeting of the Redstone Chapter 353 National Sojourners recently. The general spoke of the need at all levels of society for leadership and courage against force or threat of force. Approximately 85 members, their wives and guests were at this meeting. Maj. L. N. Townsend, master of ceremonies, is at right.

Featured in the book is a 34 photograph selection, including Able and Baker in the sea, Pioneer IV going toward the sun, and the people who assured this country's space progress. The book is by the Strode Publishers, a Huntsville firm.



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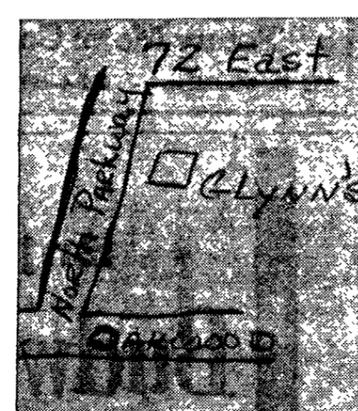
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SPORTS

Mrs. J. A. Dasche Wins Flag Tourney

Twenty-four golfers participated in a Flag Tournament held last Wednesday morning by the golf group of the Redstone Arsenal Officers Wives Club at the Arsenal course.

Winners included Mrs. J. A. Dasche, first; Mrs. Steven Albee, second; Mrs. John Levaas, third; and Mrs. Robert Cuthill, fourth.

Today the group is holding a Point Tournament. All members of the Wives Club are invited to participate in the activities of the golf group. The group meets every Wednesday morning at the Arsenal course with tee-off between 8 and 9 a.m.

Redstone Commercial League Bowling - - -

(Standings as of Sept. 8)

Team	Won	Lost
Bentley Drug Co.	4	0
Huntsville Hobby Shop	4	0
Smith Pontiac	3	1
Radio-TV Center	3	1
Whitesburg Drive		
Beverage	2½	1½
Bill's Men's Wear	1½	2½
Wilson's Laundry and Cleaners	1	3
Brownie-Center Drug	1	3
Aero-Jet Engineers	0	4
R & D	0	4

200 games: McClure, 219; Keim, 206; Olsen, 201.

FOOTBALL SEASON OPENS

The 1959 Redstone Unit Level Six-Man Tackle Football League will open Monday night, Sept. 21,

Services Offered By UGF Are Described

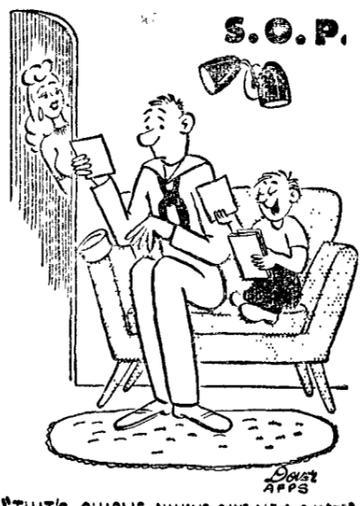
So that arsenal contributors to the United Givers Fund agencies may enjoy a better understanding of the humanitarian services performed by each agency, the Rocket plans to publish a brief description of the local agencies during the drive ending Nov. 5.

The four selected for today are:

1. Alabama Society for Crippled Children and Handicapped Adults:
The Society for Crippled Children operates the Rehabilitation Center which is a modern new building located right off of Governors Drive on Longwood Avenue. Funds received by the Madison County Crippled Children Society are used in several ways: Expenses for Spastic Class, transportation for Crippled Children to Birmingham and other nearby centers for treatment not available in Huntsville, to provide transportation Rehabilitation Service Clients, and the operation of the Rehabilitation Center for the Crippled which is the largest operation of all.

The services that are being offered to the public at the Rehabilitation Center include Physical Therapy, Speech Therapy, Occupational Therapy and the Center provides room for the State Crippled Children Association which is a tax supported Association in order that a team of Doctors and Nurses can visit the Clinic twice a month to help those who are handicapped.

2. Christmas Charities: Christmas Charities is a new agency in the United Givers Fund. It basically functions to perform the following services in the community: Provides toys, food, clothing and other necessary services and materials to the needy during the Christmas season.



"THAT'S CHARLIE, ALWAYS GAVE ME A QUARTER, THIS ONE'S JOE, BOY WHAT A SWELL GUY!"

mas Charities is a new agency in the United Givers Fund. It basically functions to perform the following services in the community: Provides toys, food, clothing and other necessary services and materials to the needy during the Christmas season.

During the rest of the year it is embarked on a program of collecting books, furniture, and a big clothing program which it coordinates with the Salvation Army and other groups and agencies in the community in order that the needs of the unfortunate can be met. The major portion of its services is for the little children who come from families that are needy.

3. Council Day Care Center: This too, is a new agency in the United Givers Fund. This will be a Day Care Center for Negro children whose mothers have to work either because they are widows or, separated or divorced from their husbands. The Day Care Center will allow children to be taken care of very adequately by trained personnel while their mothers are away at work by providing adequate food, play time, some rudimentary teaching and seeing to it that children get proper rest. If it were not for this kind of agency the mother would have to stay home and be on direct relief through tax supported money. In this way the person can be self-sustaining, be a tax payer and be secure in the fact that the children will be well taken care of while she works.

4. Huntsville Boys Club: This year the Huntsville Boys Club moved its facilities to the area near the Chrysler and Brown Engineering industrial center where there are many many youths who will benefit from the service of the Boys Club. A housing project will be going up soon very close to this Club and the children or the boys in the housing project will have the facilities of the Boys Club available to them in very close proximity. The Boys Club offers its services, however, to all young boys from six to 18 years of age with dues \$.20 and \$.25 per year with a maximum of \$1.00 per year for the 18 year olds.

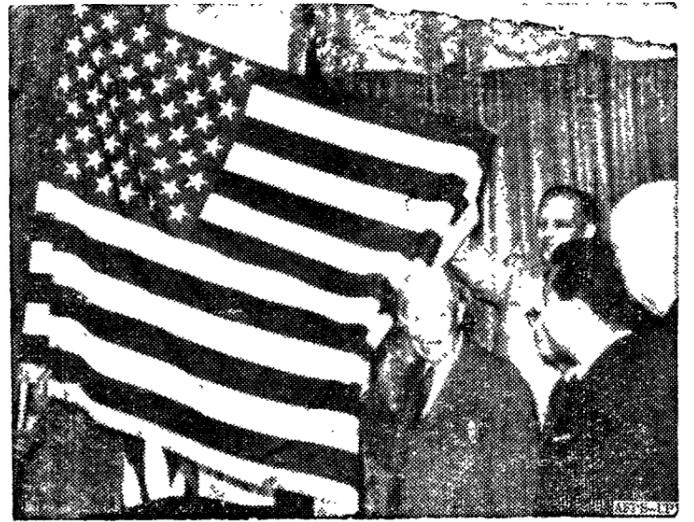
Services of the Boys Club in-

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50 STARS MAKE A DEBUT — President Eisenhower unfurls the new 50-star flag shortly after he signed the proclamation making Hawaii a state. Left to right, front, are: Pres. Eisenhower, Edward Johnston, Secretary of Hawaii; Rep. Daniel K. Inouye; and House Speaker Sam Rayburn. In rear, Lt. Col. James S. Cook, Jr., of the Quartermaster General's Office, holds flag.

clude the following: Physical training, arts and crafts, library work, game room services, television, special events like parties, and movies, shop work, model airplanes, group clubs, photography, kitchen, music, and camp.

Character and citizenship governs primarily plus training in vocational, physical health, educational, social and recreational activities. The Boys Club Program is a preventive service with a positive approach.

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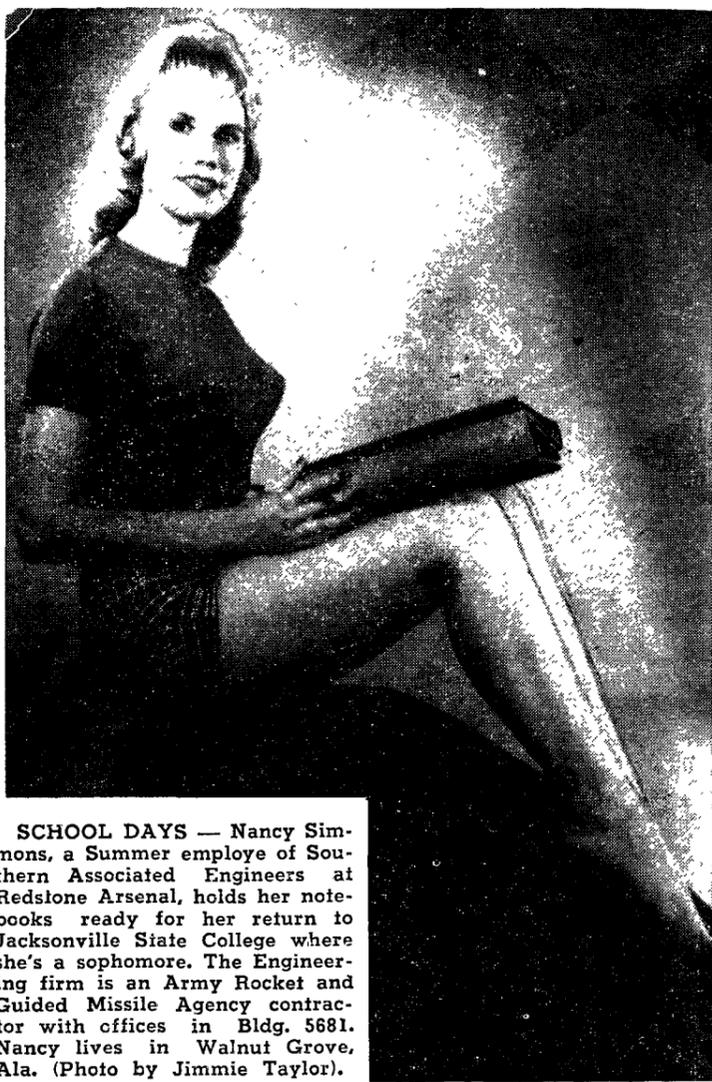
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Movie Schedule

Effective Sept. 20 a new movie schedule will go into effect.
 Time: Matinees — Tuesday, Wednesday, Thursday and Friday — 1315.
 Saturday — 1000 — Sunday 1400. No matinee on Monday.
 Evening performances every night: 1815 and 2015.
 Wednesday, Sept. 16, "Darby's Rangers," starring James Garner. Time 1315, 1745 and 1945.
 Thursday and Friday, 17 and 18 Sept., "But Not For Me," starring Clark Gable and Carroll Baker. Time 1315, 1745 and 1945.
 Saturday, Sept. 19, Special Matinee, "The Gift of Love," starring Lauren Bacall and Robert Stack. Time 1000.
 Saturday, Sept. 19, "The Hunters" starring Robert Mitchum and Robert Wagner. Time 1745 and 1945.
 Sunday and Monday, Sept. 20 and 21, "Timbuktu" starring Victor Mature and Yvonne DeCarlo. Time Sunday 1400, 1815, and 2015 — Time Monday 1815 and 2015. No Matinee.
 Tuesday, Sept. 22, "The Man Who Understood Women," starring Henry Fonda and Leslie Caron. Time 1315, 1815 and 2015.



SCHOOL DAYS — Nancy Simmons, a Summer employe of Southern Associated Engineers at Redstone Arsenal, holds her notebooks ready for her return to Jacksonville State College where she's a sophomore. The Engineering firm is an Army Rocket and Guided Missile Agency contractor with offices in Bldg. 5681. Nancy lives in Walnut Grove, Ala. (Photo by Jimmie Taylor).

Key UGF Officials At Redstone Named

Ten key officials of Arsenal agencies will head up the major United Givers Fund Drive divisions during the six-week campaign that started Monday.
 They are: OGMS—Col. Charles W. Eifler, commandant of the Ordnance Guided Missile School.
 AOMC Hq.—Leonard Brockman, control office manager, AO-MC headquarters.
 ABMA — Arthur Sanderson,

civilian personnel officer of Army Ballistic Missile Agency.
 ARGMA—Lt. Col. Frank Napier, chief of the Field Service

Division of Army Rocket and Guided Missile Agency.

RSA—James C. Lynch, Intelligence and Security Officer of Redstone Arsenal.

USAF—Col. John E. DeVine. On Post Contractors — Col. Jerome S. Jeffers.

Troop Command—Capt. Burnice H. K. McCord.
 Thiokol—John Goodloe.
 Rohm & Haas — Robert F. Shanks.

The selection of these division chairmen was announced yesterday by Jackson Balch, executive drive chairman.

On the campaign staff with Balch are Jay Fryman, executive secretary; and S. J. Farber, assistant for finance and reports. The executive committee members will be announced shortly.

Air Force Reserve Organizes New Unit

The Second Research and Development Unit, Guided Missiles, is scheduled to hold its initial meeting Thursday at 7 p.m. at the Naval Reserve Armory in Huntsville.

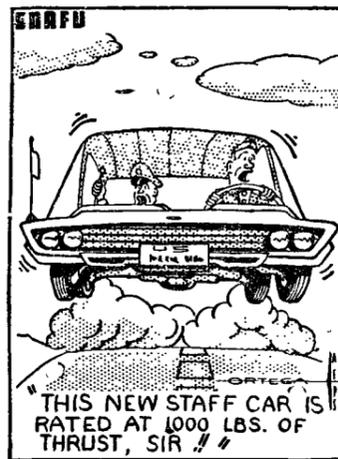
This is the second Air Force R. and D. Unit to be organized. The first was in Eau Gallie, Fla., last year.

The new unit will be commanded by Maj. Carl L. Jones who has been assigned to the 9920th Air Reserve Squadron since its organization in 1950.

Original vacancies exist for unlimited officers and airmen currently enrolled in the Air Force Reserve program who possess either primary or secondary AFS in the 84 to 87 career fields. Men may also qualify for either a primary or secondary AFS in these fields through education or experience acquired since the last AFS qualification actions in the fields of chemistry, aeronautics, electronics mechanics, metallurgy, physics and mathematics.

Interested personnel may contact M-Sgt. Marshall M. Ward, 3rd floor, Lawyers Bldg. 313 Franklin St. Huntsville. The phone number is Jefferson 4-

1584.



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 Plus
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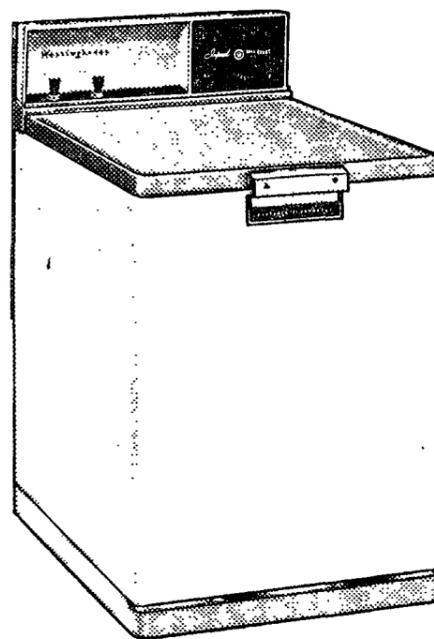
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Safety Scoreboard

(As of 14 Sept.)

Days since last civilian disabling injury	43
Our goal	45
Days since last military disabling injury	2
Our goal	30
Days since last contractor personnel disabling injury	31
Our goal	50
Days since last government motor vehicle accident	9
Our goal	30

DRIVING RECORD (Government Vehicles) (As of 14 Sept.)

Organization	No. Accidents (1959)	Day Sinc. Last MV Accident
Transportation Div. (RSA)	12	12
Post Engineer Div. (RSA)	13	9
Provost Marshal Div. (RSA)	16	23
Depot Operations (RSA)	14	17
All Other RSA	6	48
Thiokol (ARGMA)	11	12
All Other ARGMA	5	44
OGMS	11	48
ABMA	7	22

ABMA ADJUTANT IS NAMED

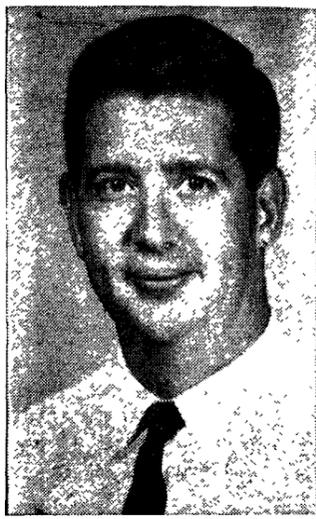
CWO Sam R. Bourland has been named Adjutant of the Army Ballistic Missile Agency. CWO Bourland came to the Agency from an assignment as personnel officer at the U. S. Military Police Special Weapons School at Oberammergau, Germany. He has also served in Japan, Alaska and the Pacific during his 17 years of Army service. The Bourlands have three children, Sam, 16; Robert, 12; and James, 17 months.



MRS. MATTIE PAYNE

Mrs. Payne Is Named Week's Safe Supervisor

This week's Safe Supervisor selected by the Post Exchange Officer and the Redstone Arsenal Safety Division is Mrs. Mattie Payne. The Safe Supervisor is in charge of cafeteria No. 20 at Building 4488. She supervises 25 employes in the preparation and serving of food, a job she has done for the Exchange for more than 14 years. Her safety record is outstanding as she has not had a disabling injury to herself or any of her employes. When asked to what she attributed such a fine record she said, "I check my electrical appliances (wiring, etc.) daily. I also check to assure that each employe works in a safe manner." She further stated that



MR. CORNELISON

Cornelison Is Chosen Week's Safe Worker

Corbert M. Cornelison, a missile development engineer in the design and fabrication branch, Design & Development Laboratory, OML Division, ARGMA, is the Safe Worker of the Week. Cornelison has been engaged in

safety is just common sense.

Mrs. Payne was born in Tennessee but moved to Huntsville when she was just a girl. She and Mr. Payne live at 2124 Davidson St., N. E., Huntsville. They have two married daughters, Mildred Rousseau of Paint Rock, whose husband works for Thiokol and Patsy Mincher of Huntsville, whose husband, Don, is making a name for himself in the baseball world at a Whitesox farm.

Mattie has very little time for recreation but likes to picnic during the summer months.

design, fabrication, and testing of rocket launchers, rocket components and auxiliary equipment for five and a half years at Redstone Arsenal. During this period, Cornelison has suffered no lost time injuries.

He has served as safety liaison representative from Design & Development Lab. to the Army Aviation Board at Fort Rucker on experimental firings of rockets from helicopters. Other safety operations included being observer for experimental helicopter transport of rockets, launchers, and ancillary equipment at Redstone, White Sands Missile Range, and Fort Bliss.

Prior to his employment at this installation, Cornelison worked for one and a half years with Atlantic Refining Company, Dallas, Tex., in seismic and electro-

nic exploration of potential oil fields. Safety was an especially important aspect of this job because it involved explosive handling, truck driving and surveying in "bad-lands" areas of Wyoming and Montana, which are normally considered inaccessible by other than men and pack horses.

Cornelison's hobbies are conversation, reading, "do-it-yourselfing" building plastic auto body parts, and sport car driving. He is a founding member of the Twickenham Auto Club which has promotion of safety and enjoyment of motoring as a sport as its prime objective.

Cornelison is married to the former Beverly Anne Ritchie and they have one son, Corbet Lee, age 2. The Cornelisons reside at 117 Bibb Road, S. W., Huntsville, Alabama.

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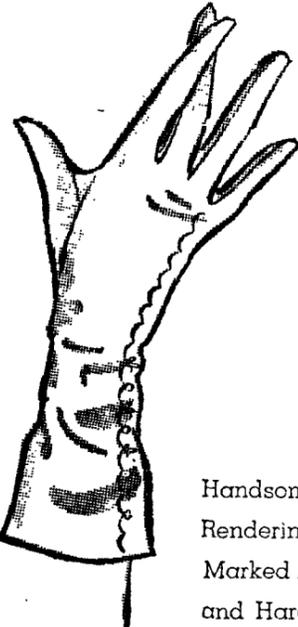


TULIP QUEEN COMING HERE — The Army Ordnance Guided Missile School and the city of Huntsville are to share a gift of 4,000 prize tulip bulbs that will be presented here on Oct. 15th by pretty Miss Saskia de Lange who was chosen as the "Tulip Queen" of Holland by the bulb growers of the European country in a pageant that is much like that in which "Miss America" is chosen. The visit of the 19-year-old Dutch beauty will formalize the gifts of bulbs announced here last March by Dr. J. H. van Roijen, Netherlands Ambassador to the U. S., who was guest of honor at the graduation of the first missile class of the Royal Netherlands Air Force.

HOLLAND'S TULIP QUEEN WILL VISIT ARSENAL IN OCTOBER

The "Tulip Queen of The Netherlands" is scheduled to come here on Oct. 15th to present 4,000 prize bulbs to the Army Ordnance Guided Missile School and the city of Huntsville. The 19-year-old Dutch beauty, will fly here from Oklahoma City on Oct. 15th to formalize the gift of bulbs made to the Missile School and the city last March by the first missile battalion of the Royal Netherlands Air Force when they

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completed their training here. The gift was announced during the graduation exercises by Dr. J. H. van Roijen. The Netherlands Ambassador to the U. S.

Huntsville is one of ten American cities to be visited by the young lady whose title of "Tulip Queen" is bestowed annually by the bulb growers of Holland in a pageant much like that in which "Miss America" is chosen.

Miss de Lange lives in the small town of Bilthoven in central Holland where her father is a teacher of English. This is the first visit to the U. S. of the petite blonde who is a student at Hol-

land's 300-year-old University of Utrecht.

New York, Hartford, Conn., Boston, Grand Rapids, Mich., Columbus Ohio, Evansville, Ind., Pittsburg, Pa. Baltimore, Richmond, Chattanooga and Oklahoma City were selected as recipients of bulbs in addition to Huntsville and the Missile School.

Col. Charles W. Eifler, commandant of OGMS, said that 3,000 of the bulbs will be planted around the OGMS headquarter building just inside gate one of Redstone Arsenal and a Goddard

House, the official guest home of the Arsenal. The Post Engineers will be in charge of the plantings.

Mayor R. B. Searcy said he will consult with the city park department to determine where 1,000 other bulbs will be planted.

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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.



MAJ. GEN. J. B. MEDARIS (foreground), Commanding General of the Army Ordnance Missile Command, and Maj. Don R. George, chief of the AOMC Aviation Section, prepare to take off in a helicopter. General Medaris is one of the 12 rated Army pilots at AOMC.



ROBERT KEEGAN, (right), a technician at the Army Ordnance Missile Command Aviation Section, and Capt. John W. Mordan, a pilot, examine Ground Control Approach equipment at the Redstone Army Airfield. The GCA facilities permit instrument landings under zero visibility conditions.

AVIATION SECTION AT AOMC LOGS 3.5 MILLION MILES WITHOUT MISHAP

Forty-two months of all weather operations, flying more than 3,500,000 passenger miles, without a single mishap is the record compiled by the Aviation Section, U. S. Army Ordnance Missile Command at the Command headquarters, Redstone Arsenal.

The Section provides a vital transportation service for the Army's missile and space programs. When critical situations develop, the Command relies upon its own pilots and aircraft to expedite the movement of personnel, spare

parts and equipment.

The Section has carried many unusual items; for example, the much-publicized space monkeys who had to be moved about the country before and after their flight through space in a Jupiter IRBM missile. Earth satellites and missile nose cones have been shuttled between development laboratories, missile ranges, and the Arsenal.

Material which because of security cannot be shipped by commercial airlift is always handled



CAPT VERNON R. SIMPSON, a pilot of the AOMC Aviation Section at the Redstone Army Airfield, demonstrates a visibility-limiting hood he designed for training pilots in "blind" or instrument flying.

by the Section. Often, urgent missions must be flown without regard to weather.

The Section has 12 Army Aviators whose combined experience adds up to 130 years and 42,000 hours of flying time — over 3,000 of those hours in combat in World War II and in Korea.

Maj. Gen. J. B. Medaris, AOMC Commanding General, heads the pilot roster and flies an L-26 twin-engine Aero Commander on all official trips to all parts of

the United States.

Brig. Gen. J. A. Barclay, who commands the Army Ballistic Missile Agency, one of the Command's major elements, is also an Army Aviator and one of the most active pilots.

The assigned aircraft include five L-23 twin-engine Beech ships, two L-26 Aero Commanders, one U-1A DeHaviland Otter, a single engine cargo plane capable of transporting 11 persons, and one H-23 Hiller reconnais-

sance helicopter.

The twin-engine aircraft which cruise at 175 knots are utilized primarily to expedite the transportation of key personnel to and from Cape Canaveral, Fla., White Sands Missile Range, another major element of the Missile Command; Washington, D. C., and major cities throughout the country. The Aviation Section has completed more than 500 round trips between Cape Canaveral and Redstone Arsenal.

The Otter is utilized for the movement of critical spare parts and other priority cargo to Redstone, Cape Canaveral and other locations.

The helicopter is employed for vehicular traffic surveillance on the Arsenal, area reconnaissance, intra-post transportation and support of tactical field problems in the Ordnance Guided Missile School.

Eight pilots are helicopter-qualified, all of them are qualified flight instructors. Two are instrumented flight examiners. All if the fixed-wing pilots are instrument rated and six possess special instrument certificates.

Aviators assigned to White Sands Missile Range are rotated (Continued on Page 13)

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Greek Missile Class Graduates at OGMS

The first missile students of the Greek Air Force to complete their training here were graduated last Friday in colorful ceremonies at the Army Ordnance Guided Missile School.

Greece is the 12 Allied nation whose pioneer missile students have trained at Redstone Arsenal.

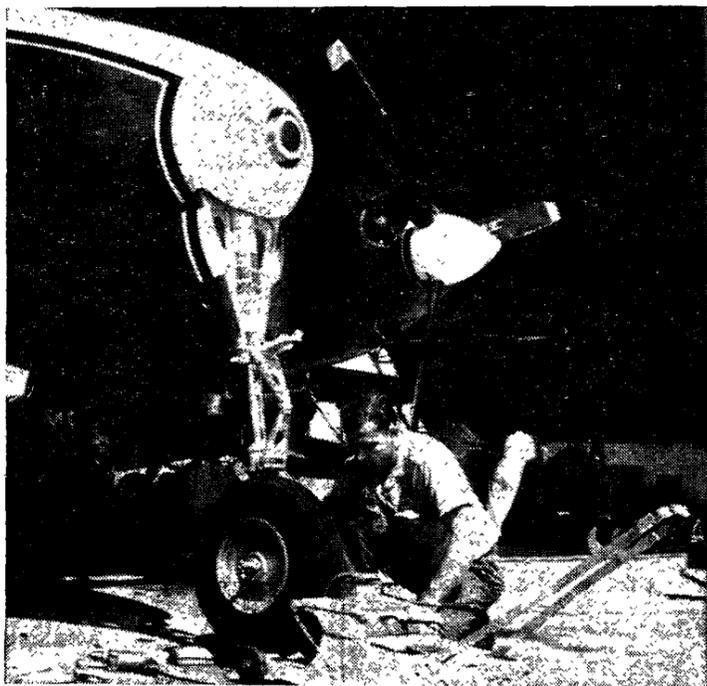
Col. John G. Katsaros, military and air attache of the Greek Embassy at Washington, was the principal speaker at the graduation exercises held last Friday morning in the Post Theater.

Introduced by Col. Charles W. Eifler, OGMS commandant, the Greek diplomat reminded his fellow countrymen that they had been trained "with funds arising from taxes that are a heavy burden on the American people". He urged the graduates to "demonstrate the value of the training you have received."

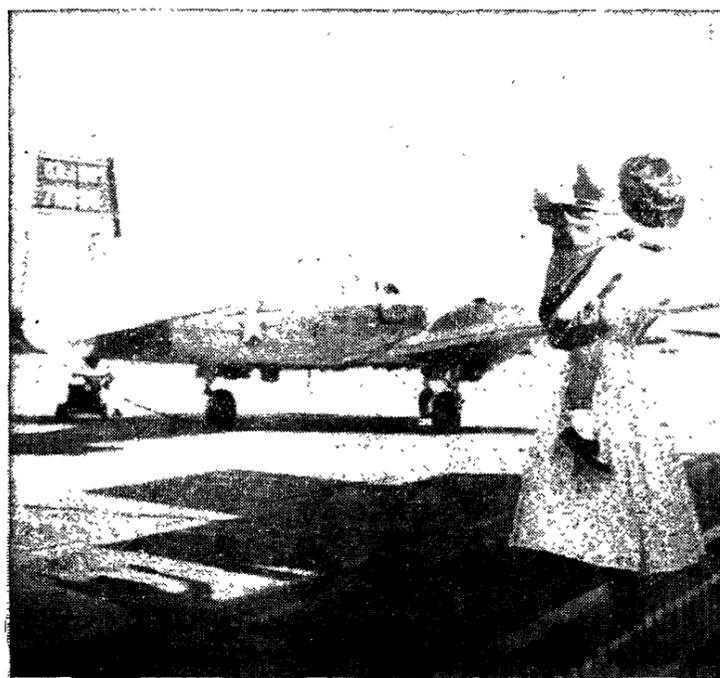
The ceremonies were opened and closed by the Rev. Emanuel Vouyoukas, pastor of the Greek Orthodox Church of the Holy Trinity and Holy Cross in Birmingham. He wore the vestments of the church and officiated at an altar bearing lighted candelabra and an urn of holy water.

Flags of the U.S., Greece and North Atlantic Treaty Organization decorated the stage. National anthems were played by the 55th Army Band.

ed graduates will be appointed Reserve Warrant Officers (W-1) of the Army.



A MECHANIC balances an aircraft wheel at the AOMC Redstone Army Airfield. The Aviation Section has a maintenance department responsible for maintaining its nine planes which have logged more than 3,500,000 miles without a single mishap.



AN ARMY WIFE, MRS. FRED KLEIS, holding a son, waves to her departing officer-husband at the Redstone Army Airfield. The AOMC uses the air facility for transporting high priority passengers and freight in the fast-moving Army missile program. Lt. Kleis is aide to Dr. Wernher von Braun, director of Development Operations at the Army Ballistic Missile Agency, who is one of the Aviation Section's frequent passengers.

Aviation Section

(Continued from Page 12)

periodically to the Arsenal where they receive twin-engine and instrument training from the Aviation Section. General Medaris

considers it prudent to make full use of the extensive experience of his pilots to further qualify the WSMR aviators.

Operations are serviced by a Control Tower manned every hour of the year. Its operators are graduates of the Air Force Tower Operators Course at Kessler Air Force Base, Mississippi. The Tower Unit monitors radio facilities essential to all weather operation. A Radar Approach Unit handle incoming aircraft when cloud ceiling and visibility drop below 500 feet and one mile.

The Flight Dispatch Unit provides the link between Redstone Army Airfield and aviation control agencies at Maxwell Air Force Base, Alabama; Memphis, Tennessee Air Route Control Center; Huntsville Approach Control Center and Redstone's Tower.

Efficiency of the maintenance function is demonstrated by the Section's average of 515 aircraft hours and 935 pilot hours of flying time per month.

An avionics unit maintains 29 aircraft radio transmitters and 72 aircraft radio receivers. Eight transmitters and nine receivers are maintained in the Control Tower. Ten transmitters and 11 receivers are maintained for the

radar approach system, and five ground stations used for navigation are supported by the avionics unit as well as radio complex atop nearby Squirrel Hill.

The layout of weather equipment is believed to be unique in continental Army installations. Weather conditions over the nation are reported hourly by teletype. A facsimile machine produces charts prepared by the U. S. Weather Bureau in Baltimore, Md. Teletype forecasts are also received.

For local observations equipment is available to measure height of cloud ceiling, visibility, temperature, dew point, atmospheric pressure, and wind direction and velocity. Direct phones tie the service into the Huntsville Weather Station and the Military Flight Service forecasts at Maxwell Air Force Base.

The Aviation Section is commanded by Maj. Don R. George. It operates on a year-round basis.

Procedures for selecting Reserve Component volunteers for training as rotary wing aviators have been established by AR 135-20, which is currently being distributed to both the active Army and to National Guard and USAR headquarters. Upon successful completion of the training, enlist-

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1959 Cadillac Coupe DeVille, beautiful white finish, power steering, power brakes, air conditioned, 8,000 actual miles, owners name on request, spare never been used. \$5895.00

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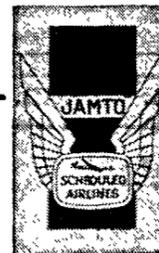
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PHONE JE 4-4561

ITALIANS STUDY JUPITER MISSILE

The Army Ordnance Guided Missile School has started the first classes in ballistic missiles to be conducted for Allied students. Colonel Charles W. Eifler, commandant, announces that the first

contingent of officers and airmen of the Italian Air Force has begun training on the Jupiter intermediate range ballistic missile developed by the Army Ballistic Missile Agency at Redstone Arsenal here and now being prepared for overseas deployment by the Air Force.

The classes are being conducted at the Missile School for the U. S. Air Force in accordance with an understanding between the U. S. and Italian governments and the North Atlantic Treaty Organization. The students are headed by Colonel Edoardo Medaglia of Rome.

The School has prepared 15 courses dealing with maintenance and supply of the highly mobile missile. Ranging from three to fourteen weeks in length, the courses will be taught during the next few months to a total of about 500 members of the Italian

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Best Home Buys In Town

Best Location

Best Construction

RECEIVE COMMENDATIONS

SP-5 William D. Wallace and SP-5 John H. Chunka, Jr., each received letters of Commendation prior to ending two years of Army service at the Army Ballistic Missile Agency.

The letters were written by William A. Mrazek, director of the Structures and Mechanics Laboratory. Both SP-5 Wallace and SP-5 Chunka have been

working in the Stability and Weight Control Section as engineers. Presentation of the letters was made by Roland Griner, chief of the Stability and Weight Control Section.

Chunka has a degree in industrial engineering from the Uni-

versity of Omaha, and Wallace is a graduate from the Georgia Institute of Technology. The letters were awarded for professional integrity and technical competence.

Both men will soon be discharged from the Army.

Air Force.

This begins a second phase of NATO training at the Missile School. In 1958 two classes of Italian Air Force students were trained on the Nike-Hercules and Nike-Ajax air defense missiles. They were followed by students from the pioneer missile battalions of 11 other Allied nations.

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

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

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

NORGE GAS STOVE—Like new, double oven, timer and everything. A real bargain \$50.00. Phone JE 4-1191. 1tc

FOR SALE (Fleming Meadows)—3 bedroom brick veneer, 1 1/2 baths, attached garage, two 1-ton air conditioners, carpeting in living and dining rooms, antenna, venetian blinds, patio and other extras, purchase equity, assume balance, monthly payments \$100.00. Quick possession, 6209 Chadwell, Phone JE 4-1197. 1tc

MOBILE HOME RENTAL BUSINESS — Excellent business opportunity, new trailers, monthly gross income \$1690, pay equity, assume contracts, trailers are equipped with washing machines, air conditioners, and TV sets. For further information call Geo. P. Sachs, ext. 2171 or JE 9-3827 after 5 p.m. 1tc

FOR SALE — 21" TV, GE table model, A-1 condition, \$65.00, Phone Robert La Fane, JE 6-2627. 1tp

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FOR SALE — Owner transferring Nov. 1. 3 bedroom brick veneer on corner lot. Living room, dining room, kitchen, 1 1/2 baths. Plenty closets, large storage area. Carport partially enclosed. Barbecue pit and patio. 2439 Crestwood Drive S. W. Close to Madison Pike Elementary and Westlawn Junior High Schools. Phone JE 6-7874. 9-23p

KENMORE WASHER, Automatic, good condition. \$40.00. Phone JE 4-1191. 1tc

FOR SALE — Apartment size electric range. Like new, used two months. \$100. Duty hours phone 4918. After duty hours phone 8846. 1tp

FOR SALE — Ladies' full-length winter coat, size 12, 3 modern black and white tables, 1 modern chair (aqua), phone JE 6-8720. 1tc

FOR RENT — 2 room upstairs apartment, completely furnished, lights and water, \$65 per month. 3 room furnished downstairs apartment, private bath, private entrance, lights and water furnished \$75 per month, 1205 Kildare St., N. W., Phone JE 4-4226. 1tc

FOR SALE — 1958 10'x46', two-bedroom colonial Trailer, air-conditioned, in A-1 condition, sale price \$1,000.00 for \$4,000.00 equity and assume payments Phone Redstone ext. 6817, ask for Higgins. 1tc

QUICK SALE — Leaving town, 1957 40'x8', one bedroom trailer, low equity, assume monthly payments of \$56.53. See at Paradise Trailer Park, Lot 16, after 5 p.m. 1tp

FOR SALE — AKC registered Boxer puppies, male and female, fawn color, excellent markings, phone Thiokol ext. 6-6612 or J E2-8410 after 5 p. m. Helen Fuller. 1tc

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. 1tc

WHY LOOK Further for choice building lots suitable for duplex or apartments? Just call JE 2-2652 for interesting information. 1tc

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. 1tc

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FOR SALE — 21 inch Console Television, Yagi Antenna with 40 foot mast. UHF Converter, 23 Channel Antenna. \$75.00 complete. Jim Brown, Ext. 5419 1tp

PHILCO Refrigerator, used, looks good, is good. Only \$40.00. Ph. JE 4-1191. 1tc

FOR SALE — Income property — 5-unit apartment house, each with private bath and separate entrance, 2 story C.B.S. with balcony. A-1 condition. Newly decorated. Corner lot 85x225 on Highway 205—city limits. Good income investment. Immediate possession. By owner — phone Fines Clay Nolan, Albertville, Ala., phone No. 919. 1tc

PERFECT FOR CAR POOL, 1952 Chevrolet, one owner, new tires, A-1 mechanical condition, spotless. \$450. Call JE 6-3212 after 5 p.m. 1tp

NICE BRICK 3 Bedroom house with living room, kitchen, dining-family room, two ceramic tile baths, and carport with storage room. In Weatherly Heights on Bluff lot overlooking Whitesburg Valley. Call JE 6-4704. 1tp

FOR QUICK SALE! 1955 Ford Fairlane, straight shift, 2 door, V-8, 1950 Ford, 2 door V-8, overdrive, 1955 Olds, 2 door hardtop, very clean; near new Wollensak tape recorder; Fender Stratocaster electric guitar; electric range, \$95. Phone Clem, Redstone ext. 2432. 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. 1tc

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. 1tc

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TELEVISION — RCA 21" console. Same as new. Blonde cabinet, good condition. Phone JE 4-1191. 1tc

FOR SALE OR RENT — 1956 2-story Caravan 35' trailer, air conditioned. Located Bel-Aire Trailer Park. Call Mrs. Hall 6-4411, ext. 2856 between 8:30 and 4:30. 1tp

FOR RENT — 1 bedroom modern trailer, adults, air conditioned, TV, lights and water furnished, 1 1/2 miles from Gate 7, \$67.50 mo. Phone Redstone ext. 7615. 1tp

FOR RENT—Two bedroom brick home with patio, 1 bath, den, living room, kitchen and eating area located in Holiday Homes, 3531 Flamingo Road., S. W. Phone JE 4-6712. 1tp

FOR SALE — 1955 "98" Oldsmobile, 4 dr. sedan. All power accessories and air conditioning. Also DeJur Hi-Fi Tape Recorder. This is the one that meets or exceeds Ampex Specifications in every respect. Phone JE 4-6712. 1tp

1951 PONTIAC, 4 door, straight shift, heater, excellent mechanical condition \$325.00. 21 inch console TV with separate UHF converter \$75.00. Phone JE 6-0383. 1tp

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WASHER — Crosley automatic, good condition, sacrifice \$39.00. Phone JE 4-1191. 1tc

FOR SALE — 1954 Oldsmobile 88, 4 door sedan, hydromatic, heater, radio, windshield washers, one owner car, excellent condition, outstanding financial economy, phone Lachar, Redstone ext. 2803 or JE 6-7705. 1tc

FOR SALE — Beagle Hounds: Pups and trained dogs, good bloodlines, AKC registered, running loose on farm. Facilities for training and conditioning a limited number of beagles before hunting season opens. R. B. WILLIAMS, Ext. 4263. 1tp

HOUSE FOR RENT — 4 room with bath furnished house, 1208 Humes Ave. \$75.00. John T. McCleskey, Phone JE 4-4123. 1tc

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FOR SALE — 1953 Studebaker Champion Sports Coupe \$395; 1956 Cadillac 4-Door Sedan \$2295; 1957 MGA Roadster \$1600. Call THOMAS, Ext. 6160 or JE 6-9353 evenings. 9-23-p

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ROCKET PROPELLANTS EXPOSED TO WEATHER EXTREMES IN TESTS

The Army's newest rocket propellants are being exposed to extremes of weather ranging from Arctic cold to Arizona desert heat to determine their ability to "take it."

Full-scale solid propellant motors, weighing over one ton in some cases, are stored in the open and subjected to rain, snow, and temperature ranges from subzero to 160 degrees Fahrenheit.

At the Army Rocket and Guided Missile Agency, Redstone Arsenal, the men responsible to provide dependable and service-worthy weapons to troops believe these tests are the only means by which to assure the best rocket systems.

Tested One Year

Having completed one year's test program, Holm Hinrichs, chief of the project in the Ordnance Missile Laboratories, reported the rocket motors had withstood Nature's worst.

"But the Army wants to know if these same motors will function as they should after at least five years exposure," he commented. "So the tests will continue and new types of rocket motors will be added to those undergoing the ordeal as fast as they are developed."

ARGMA Is In Charge

The developmental motors are tested under supervision of the Propulsion Laboratory of ARGMA while rocket motors already in service are checked by ARGMA's Field Service Division.

The test areas include outposts in Canada, Panama, and the desert range near Yuma, Arizona where exposed metal may heat up to the point at which you could fry an egg on it. At Yuma is the Ordnance Climatic Test Station. Weather specialists keep records of the climate extremes encountered by Ordnance ammunition and rockets in all parts of the world.

In New Jersey, Ordnance tests gun and rocket propellants at Picatinny Arsenal. Samples of propellants dating back to the 19th Century are still kept. New propellants are constantly added to obtain accurate estimates of useful lifetimes.

The other services also conduct surveillance programs, as these efforts are called, and information is freely exchanged with them by ARGMA and the Army Ordnance Missile Command of which the local arsenal is a part.

Problems Are Many

Hinrichs pointed out that the technical problems involved in predicting the useful life of rocket motors are many. There are two main components of a motor, the metal parts which comprise the motor case and nozzle, and the propellant itself.

The propellant is an organic plastic, sometimes containing cry-

stals of a salt which provide the oxygen to burn the plastic. This action produces the thrust which powers the rocket. The amount of thrust and its duration are governed by the internal shape of the propellant surface and the chemical composition of the motor.

"For the rocket to behave properly," Hinrichs pointed out, "none of these factors can change. Metals rust unless pro-

tected, plastics can change shape as they become hot, they may become brittle as plasticizer leaves the mass, or too soft if moisture reacts upon them, or if their chemical bond breaks from age.

Aging Oxidizes

"The tires on your family car lose the surface sheen of their sidewalls as oxidation makes them brittle. Lamp cords crack with age, and rubber gloves often become gummy because their chemical bonds break."

A rocket motor cannot tolerate any of these aging changes. When a rocket is fired it develops tremendous internal pressure and temperatures high enough to melt

steel. That is the instant when any flaws become magnified and may result in a failure.

"That is why careful surveillance programs are set up to make sure the motors will last their required lifetime and that, when they mean so much on the battlefield, they will perform as expected."

Tests Reported to Agency

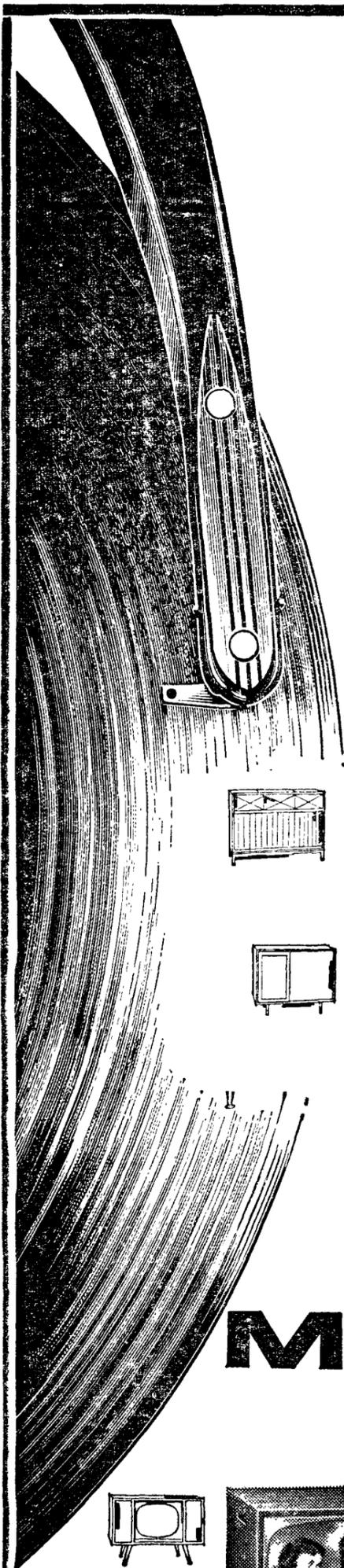
Information developed in the course of the tests is reported back to the agency responsible for the motor. With this data in hand, it is then possible to produce better solid propellant rockets.

"So-called short term, high temperature storage tests," Hin-

richs explained, "will be used first to obtain quick results to see if the laboratory answers to a particular storage problem will stand up in practice."

"These tests, however, cannot reproduce the natural conditions of aging and can seldom be used to answer the question, how long will this rocket motor last in service? The final answer can only be given by actual storage under service conditions. That is what we are doing."

More than 135,000 men have enlisted for six month training tours since passage of the 1955 Reserve Forces Act on August 9, 1955.



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