

# The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Huntsville, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisement in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. VIII, NO. 11

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JULY 15, 1959

A RECIPE—

## Missile Men Mix, Blend And Test

BY WANDA THROWER  
PIO Staff Member

(Photos on Page 7)

If the missilemen will forgive the comparison, developing a modern weapon of war is something like baking a cake. It takes a dozen major ingredients, smoothly blended and integrated into the whole, and capped with extensive testing and refinement.

And as in the baker's art, a satisfying product comes not by accident or guesswork, rather by a skillful, experienced hand and more than a pinch of resourcefulness.

In the Ordnance Missile Laboratories Division at the Army Rocket and Guided Missile Agency, the recipe for rocket and missile development is provided by the Design and Development Laboratory. Ingredients for this "missile making" come either from the Division's five other laboratories: Research, Missile Electronics, Propulsion, Systems Analysis and Test Evaluation, or from industrial contractors.

The Army Rocket and Guided Missile Agency, an element of the Army Ordnance Missile Command, has two primary roles: to develop missile systems to defend the continental U. S. and the field Army against attack from aircraft and missiles, and to provide to the Army surface-to-surface missile systems with range capabilities up to about 100 miles.

Proof of the Design and Development Laboratory's ability as a "missile chef" is evidenced by a number of successful developments including the Army's Little John rocket, a highly mobile, free-flight rocket which packs far more explosive power than heavy artillery.

The Laboratory has also played a major role in the development of rockets for launching from lightweight aircraft—a project which has been conducted jointly between the Ordnance Missile Laboratories Division and the Army Aviation Board at Ft. Rucker, Ala., for the past three and a half years. In connection with this program the Laboratory has developed an air-to-ground helicopter launched rocket.

One hundred and five persons strong—63 civilian employees, 17 military men, and 25 contract service personnel—the Laboratory (See MISSILE on Page 7)

## 55TH ARMY BAND TRANSFERS HERE FROM FT. POLK

(Photo on Page 2)

The 55th Army Band, formerly of Ft. Polk, La., has been transferred to the Army Ordnance Missile Command, Redstone Arsenal. Colonel Owen T. McCloskey is the Arsenal Commander.

The band now has 19 members. It is expected to be at its full strength of 28 musicians in the near future.

Daily practice on technical studies and music that will fill out the repertoire is under way.

When the band is ready to accept engagements for public appearances, such as concerts and parades all invitations will be received by the Redstone Arsenal Adjutant Capt. Donald L. Voorhees.

A new band leader, who will also serve as the commanding officer, is expected to arrive in September. The present commander is Capt. Brunice H. K. McCord. M-Sgt. George H. Ryan is the first sergeant and drum major.

All of the musicians had formal music training before entering the Army service.

## EXPLORER I WILL ORBIT 'TIL 1962

Explorer I, the free world's first earth satellite, is expected to orbit until August 1962, according to the latest lifetime estimate received by the Army Ballistic Missile Agency's Research Projects Laboratory from the Smithsonian Astrophysical Observatory.

Explorer IV, the second Army satellite still orbiting, is expected to re-enter earth's atmosphere and be destroyed during September of this year.

Explorer I has traveled approximately 191,588,000 miles since the historic launching January 31, 1958. Carrying instrumentation designed by Dr. James Van Allen of the State University of Iowa to measure intensity of high energy radiation in outer space, the satellite also investigated the frequency of micrometeorite impact and temperatures inside and outside the satellite. Its radio transmitter functioned for approximately three months.

Explorer IV has traveled approximately 132,495,000 miles since its July 26, 1958 launching. It carried cosmic radiation measuring instruments as well as other devices to record temperatures. Its radio transmitters operated until October, 1958. Explorer IV was launched as a primary instrument of measuring artificial radiation created by the Project Argus high-altitude atomic explosions.

Explorer III, a third Army-launched satellite, which is no longer orbiting, was hurled aloft on March 26, 1958, and re-entered earth's atmosphere three months later after travelling 34 million miles. This satellite, also carried cosmic ray intensity measuring devices.

Originally, Explorer I completed an orbit every 114.9 minutes, soaring out to an apogee of 1,573 miles and in to a perigee of 224 miles. The satellite is now completing an orbit every 110.16 minutes with an apogee of 1,328 miles and a perigee of 221 miles.

Explorer IV initially completed an orbit every 110.09 minutes. Apogee was 1,370 miles and perigee 165 miles. Presently it (See EXPLORER I on Page 3)

## Saturn Upper Stages Are Chosen; Flight Test Is Seen Next Year

### TEST STAND WORK TO BE COMPLETED BY SEPT. 1

Modification of the Army Ballistic Missile Agency's huge 145-foot rocket engine static test tower at Redstone Arsenal, Ala., is nearing completion to accommodate the 1,500,000-pound-thrust Saturn booster, the Department of Defense announced today.

Construction work performed on the tower by contractors for the U. S. Army District Engineer, Mobile, Ala., is scheduled to be completed by July 15. Support facilities are to be finished by Sept. 1.

Installation of various test equipment and instrumentation by ABMA's Test Laboratory will be accomplished concurrently. The tower is expected to be ready for use by Sept. 1.

The Saturn test vehicle will be delivered to the Test Lab in November, and the first static testing is due in December of this year.

The Saturn booster—a clustering of eight powerful H-1 liquid propellant rocket motors—is being developed by ABMA for the Advanced Research Projects Agency, Department of Defense, for heavy space applications. The giant booster will stand 75 feet tall. It will have a diameter of 22 feet. Topped by second, third—or even fourth—stages, the booster, will form the Saturn space vehicle system.

Contracts totaling approximately \$850,000 have been let by the Corps of Engineers to commercial firms for modification of the ABMA test tower and construction of support facilities.

Design work for the modification program was performed by Maurice H. Connell and Associates, Inc., of Miami, Fla., under supervision of the Mobile District Engineer. Design work has started. (See TEST STAND on Page 3)

\* \* \*



**GENERAL INSPECTS SATURN MODEL**—Maj. Gen. J. B. Medaris, commander of the Army Ordnance Missile Command, inspects a model of the Saturn space vehicle now under development by the Army Ballistic Missile Agency for the Advanced Research Projects Agency. The Saturn model pictured above is a three-stage vehicle, consisting of eight-engine booster topped by modified Titan ICBM; other versions of Saturn call for additional third and fourth stages. Model of Jupiter IRBM stands along side Saturn in photo.

### Experimental Engine For Project Mercury Is Delivered ABMA

A Redstone liquid propellant rocket engine, selected to be the first ballistic missile engine to power manned flight, has been delivered by Rocketdyne, a division of North American Aviation, Inc., to the Army Ballistic Missile Agency.

The engine will power a capsule-carrying Redstone missile over a 100-mile course, part of a series of launches assigned to ABMA in the National Aeronautics and Space Administration's Project Mercury. The Redstone was selected because of the high reliability it has demonstrated in more than 50 launches.

First passengers on the 100-mile-high flights will be animals. Later flights will carry the astronauts now in training for space ventures. The missions will permit a realistic approach to the ultimate satellite journeys about the earth.

Several engines are scheduled for delivery to ABMA. They are being fabricated at Rocketdyne's Canoga Park, Calif., main plant where the Redstone engine has been in production status since 1952. Normal thrust is approximately 75,000 pounds.

The engines for manned flight will differ from ballistic missile engines only in the addition of auxiliary peroxide tanks, permitting longer-duration pumping of a larger propellant supply.

The Redstone missile is now (See ENGINE on Page 2)

### Vehicle to Weigh 580 Tons; Stand Nearly 200 Feet

Selection of second and third stages for the multi-stage Project Saturn space vehicle was announced last week by the Advanced Research Projects Agency of the Department of Defense.

A modified first stage of the two-stage Titan ICBM has been chosen for the second stage of the Army-developed Saturn vehicle. The Titan is being developed for the Air Force by the Martin Company. The third stage will be the new Centaur Rocket under development by the Pratt-Whitney Division of United Aircraft Corporation and Convair Division of General Dynamics Corporation.

The objective of Project Saturn is to provide by the 1962-1963 time period an efficient and reliable system for lifting multi-ton loads into high orbit around the earth and into deep space.

The Saturn Project is being carried out for ARPA by the Army Ballistic Missile Agency, Huntsville, Alabama, an element of the Army Ordnance Missile Command.

The Saturn's first stage booster, previously announced, will be a cluster of eight H-1 Rocket engines developed by Rocketdyne a Division of North American Aviation, Inc. The first of these engines was delivered to AOMC on May 1.

The three-stage Saturn will weigh approximately 580 tons at liftoff, of which about 500 tons will be propellant fuels and oxidizers. It will stand about 200 feet tall, nearly one-half as high as the Washington Monument. A fourth stage, as yet unselected, may be added later for specific missions.

The first stage cluster of H-1 engines will be about 75 feet tall, 22 feet in diameter, and will produce about 1,500,000 pounds of thrust at liftoff. The modified Titan second stage will be somewhat longer than the regular 54 feet and will be 10 feet in diameter. Using the same fuel as the first stage booster, it will provide a thrust of 360,000 pounds. The third stage Centaur will use two rocket engines with a combined thrust of 30,000 pounds and will be 10 feet in diameter.

The vehicle will use an all inertial guidance system. This system will automatically compensate for deviations resulting from loss of thrust should one of the (See VEHICLE on Page 2)

### Army Test of Jupiter Is Successful, Again

Another launching of a Jupiter Intermediate Range Ballistic Missile was successfully accomplished Thursday by the U. S. Army at Cape Canaveral, the Department of Army announced.

The missile was programmed for about 1,500 miles. It was one of a continuing series of Jupiter flights over the Atlantic Missile Range.

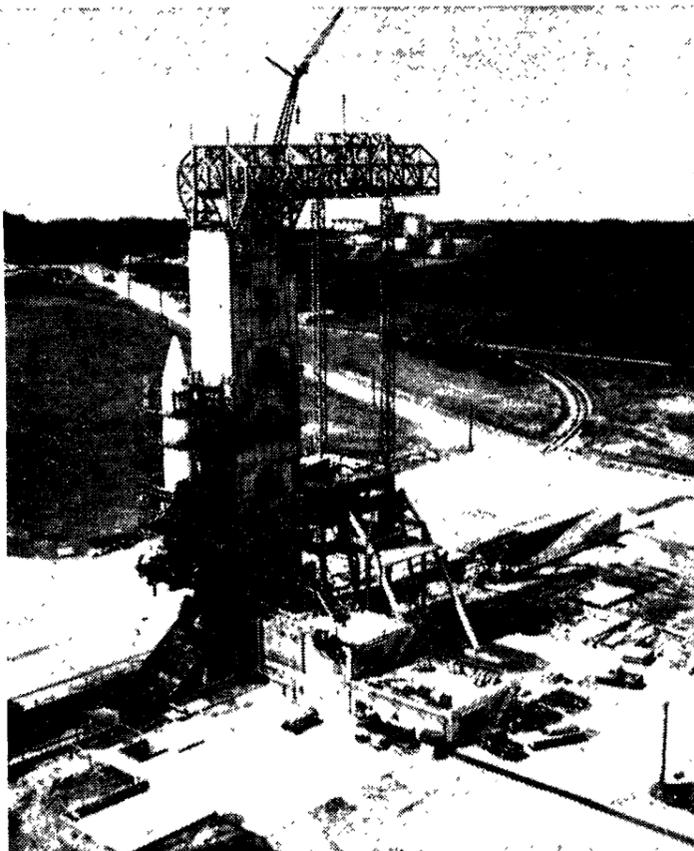
Developed by the Army, the Jupiter is nearing deployment by the Air Force.

Only a single launching out of all the Jupiter launched has been considered unsuccessful.

Jupiter has attained an unusual degree of reliability and accuracy, and is ready for operational use.

Air Force personnel, members of the 864th Technical Training Squadron, which has been trained at Redstone Arsenal, participated in today's launching which was performed by the Army Ballistic Missile Agency, Missile Firing Lab.

The main objective of today's firing was to further test the complete Jupiter missile operations in tactical configuration, particularly the warhead and the firing apparatus working together as a system.



**TEST TOWER MODIFIED**—The Army Ballistic Missile Agency's huge static firing test tower is being modified to accommodate the 1,500,000 pound-thrust Saturn booster being developed for ARPA. The Saturn test position will be on right side of concrete tower. On left side, a Jupiter missile (150,000 pounds thrust) is shown in its test position. The steel superstructure atop the tower will house a crane hoist used to lift the Saturn booster into place. With superstructure, the test tower stands 178 feet tall. Saturn will be employed for military space research and programs of the Advanced Research Projects Agency, Department of Defense.

# The Redstone Rocket

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## VEHICLE

(Continued From Page 1)

first stage booster engines fail to function.

The first stage cluster will be static tested on a special 175-foot tower at Redstone Arsenal, Alabama. Flight tests will be made from the Atlantic Missile Range at Cape Canaveral where a 305-foot self-propelled service stand will be built to handle the huge rocket.

Initially, ARPA has authorized construction of one first stage booster for static testing, plus four flight vehicles. The first two flight models will use dummy upper stages while the third and fourth may include the modified-Titan second stage. Funds committed to date for this program total \$34 million. First test flight is scheduled for late 1960.

A special system employing parachutes and retro-rockets is being developed by the Cook Electric Company, Morton Grove, Illinois, to enable recovery of the first stage booster for post flight inspection and possible further use.

Roy Johnson, Director of ARPA, stated that "the Saturn vehicle will be an extremely useful space workhorse, able to put up heavy, low-altitude satellites, communications satellites, and deep space probes. We expect that it will also be able to carry a ton of instruments to a soft landing

## ENGINE

(Continued From Page 1)

operational and has been deployed overseas with the U. S. Army troops. An historic accomplishment of the Redstone engine was its use as the first-stage booster for the Army's Explorer, first American satellite to enter orbit.

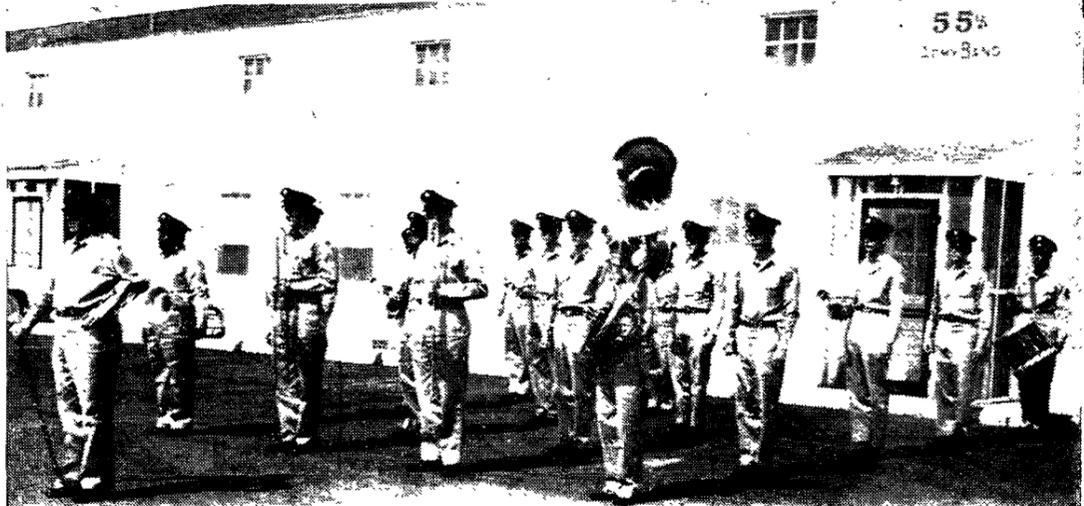
## Births at Post Hospital

Vickie Lynn Nash, 7 lbs 15 ozs, 2 July, daughter of Pfc and Mrs. Theron A. Nash.

Gregory Alvin Cole, 7 lbs 9 1/2 ozs, 4 July 1959, son of Lt. Col. and Mrs. Albert G. Cole.

Frank Lawrence Dowling, 7 lbs 8 1/2 ozs, 7 July, son of Capt. and Mrs. Samuel F. Dowling.

on the Moon." Mr. Johnson said, "This vehicle," will be able to orbit a communications satellite weighing several tons 22,000 miles above the earth. This is important to us because at this distance it would orbit the earth once every 24 hours. Since the earth rotates about its axis in the same time interval, the satellite would remain stationary in relation to a fixed point along the equator. Such a 24-hour equatorial satellite will become an essential part of a world-wide military communications system."



THE 55TH U. S. ARMY BAND was recently transferred to Redstone Arsenal from Ft. Polk, La. Only two of the present members have worked together in the past and so the unit is practicing daily to form a smooth musical unit. Nineteen of the 28-man band are here at present, and the rest are expected to join the unit in the early Fall.



ARGMA COMMANDER BRIEFS NATO REPRESENTATIVES—Thirty military and civilian representatives of NATO countries recently visited the Army Ordnance Missile Command here to learn about the missile supply and maintenance philosophy of AOMC. The visitors were members of the NATO Maintenance Supply Services Agency, a group of logistic representatives from NATO Headquarters and member countries. In photo above, senior members are welcomed by Brig. Gen. J. G. Shinkle (left), Commander of the Army Rocket and Guided Missile Agency, an element of AOMC. Left to right are: Gen. Shinkle; Brig. Gen. E. J. Fischer, of France; Brig. Gen. G. Carel, also of France; Brig. Gen. S. Volvis, of Greece; Air Commodore W. A. Stagg, of the United Kingdom; and J. K. Christie, of Norway.

## Deadline Set in 9 Areas of Competition Announced Earlier

The U. S. Civil Service Board of Examiners here announce the close of competition on nine announcements issued since the beginning of 1957. The closing date is July 20 at the close of the business day.

The announcements cover electric bridge crane operators and crane operators (Announcement No. 5-35-1(57)), cola unloader operator (No. 5-35-29(57)), telephone installer and repairer (No. 5-35-16(57)), packaging and processing foreman (5-35-41(57)), automotive radiator repairman (5-35-44(57)), refrigeration and air conditioning mechanic (No. 5-

35-47(57)), telephone operator (5-35-5(58));  
Apprentice with options as aircraft worker, carpenter, instrument repairer, electrician, sheet-metal worker, machinist, electrical lineman, steamfitter, electronic equipment installer and repairer, and refrigeration and air conditioning mechanic (No. 5-35-9(58)), and flame cutter, (No. 5-35-58(57)).

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101 NORTH SIDE SQUARE

(Continued From Page 1)

ed on Sept. 15, 1958, and completed in December, 1958.

Construction was started at the test tower in early January of this year following award of a \$97,954 contract to J. A. Jones Co., of Atlanta, Ga., for demolition work and driving of steel piling. Demolition work included removal of a reinforced concrete blast deflector pit. Steel blast deflection plates and steel framework attached to the east side of the concrete tower to clamp rocket engines in place during firings had previously been removed by the Test Lab.

This work was done to make way for similar larger facilities. The largest missile tested in the stand has been the Jupiter IRBM, also developed by ABMA. Jupiter has a thrust of 150,000 pounds. The Saturn booster's thrust will be 10 times greater.

Steel pilings, some as long as 60 feet, were driven down to bedrock to provide structural support for (1) the enlarged blast deflector pit, (2) a steel buttress which was built to give additional horizontal strength to the new rocket engine test position, (3) the new structural steel test position itself, and (4) two 101-foot steel girders which help to support a

steel superstructure housing a crane hoist atop the concrete tower.

In early February, 1959, a general construction contract for \$364,377 was let to Dunn Construction Co. of Birmingham, Ala., for modification of the tower and building of new support facilities required for its operation. This work includes the foundation for and erection of the new engine test position, the buttress to the test position, and the steel superstructure for the crane hoist atop the tower.

The steel for the new test position and the superstructure for the crane hoist was fabricated by the Chicago Bridge and Iron Company under a Corps of Engineers contract awarded in early January in the amount of \$186,270.

Other work under the general contract held by Dunn Construction Co. was the provision of new fueling facilities and construction of a raised observation bunker with earthen barricade which will provide direct line-of-sight view of testing operations in the new test position.

The contract also includes the erection of a crane hoist designed and supplied in early June by Harnischfeger Corporation, of Milwaukee, Wis., under a separate Corps of Engineers contract for \$85,112 let in December, 1958.

The crane will be capable of lift-

(Continued From Page 1)

satellite is circling the globe every 97.95 minutes with an apogee of 680 miles and a perigee of 158 miles.

Although radio transmission from the Explorer I and IV satellite has ceased, optical sightings continue, yielding valuable data which assists in locating more exactly geographical positions on earth. These sightings are made by the worldwide network of Moonwatch teams, U. S. and foreign observatories, military installations, photo tracking stations and miscellaneous observers.

The Explorer I, III, and IV satellites were prepared and launched by the Army Ballistic Missile Agency and the Jet Propulsion Laboratory, both of which were elements of the Army Ordnance Missile Command. Subsequently the Jet Propulsion Laboratory has been placed under management of the National Aeronautics and Space Administration.

ing 100 tons to a hook-height of 150 feet. It will be used to hoist the Saturn booster into place on the test position along side the concrete tower for static firing.

The crane hoist will run along a 94-foot-long double tract rail housed in the 33-foot-tall steel superstructure on top of the concrete tower. Addition of this superstructure gives the tower a total height of 178 feet. The superstructure, which spans 34 feet at its widest point, will be supported by the tower at one end by two 101-foot-tall structural steel columns at the other end. These columns rest on the buttressed engine test position.

An additional contract required by the tower modification is for construction of a 1,000,000-gallon water reservoir to provide additional storage capacity for fire protection and for cooling of the steel blast deflection plate due to the extremely high heat generated by the rocket engine test firing. This contract was let April 14, 1959, to the Chicago Bridge and Iron Co. in the amount of \$84,700. It calls for completion by Oct. 1, 1959.

PERCENTAGE IS UP ON TEST FIRINGS AT WHITE SANDS

White Sands Missile Range, N. M. — At 1959's halfway mark White Sands Missile Range has test-launched 23.3 per cent more weapons than for the same time in record-setting 1958.

Col. Arthur L. MacKusick, chief of Integrated Range Mission, announced the increase this week.

His firing figures, up to the first of the month, stood at 478 for the missile range, an element of the Army Ordnance Missile Command.

The number breaks down into 518 test launchings by the Air Force Missile Development Center, 446 by the Army Missile Test Center and Continental Army Command, and 14 by the Naval Ordnance Missile Test Facility.

Last year's final sum, 2,414 hot firings, was a new record high for the 14-year-old desert test center.

The 1958 total marked the first single year in which more than 2,000 weapons were tested at WSMR.

Earlier this year another firing mark was passed when the Army's Hawk blasted off in May as the 10,000th live missile fired here since the range's birthday just 14 years ago.

Lt. Merton Rumford Joins ARGMA Staff

Lt. Merton A. Rumford has been assigned to the Army Rocket and Guided Missile Agency.

A 1958 mechanical engineering graduate of Purdue University, Lafayette, Ind., Lt. Rumford was employed as a guided missile engineer at Redstone Arsenal prior to entering the Army in February 1959.

Lt. and Mrs. Rumford, the former Aretta Betz have one daughter, Marlene Louise, nine months old.

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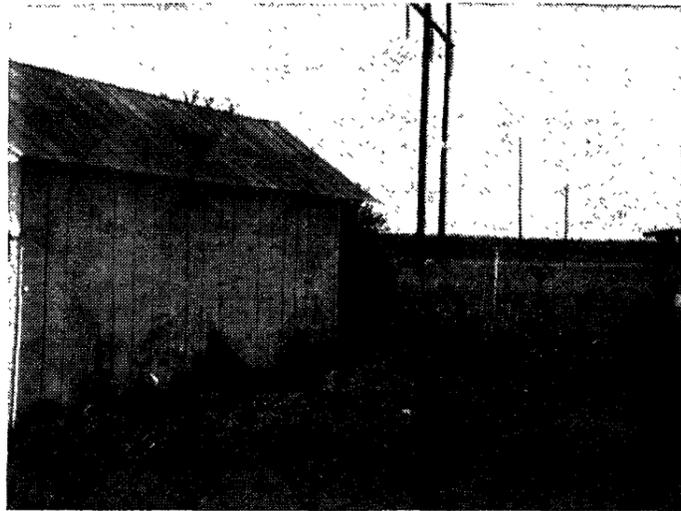
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Lily as implied is not a flower, nor is Flag as signified a Flag, it has no stars or banners that continue to wave. The two together became a name "Lily Flagg." A little station once visited by the huge giants of steel known as the steam locomotive, yes the Lily Flagg Station stands in the memories of the Old Timers. The Huntsville of yester years.

The Lily Flagg of this story is not of a valley nor a railroad station or a huge terrifying giant of steel, it is the story of a COW. A cow? How now a tale of a cow. Oh yeah! just you listen to this, this was no ordinary cow.

The mother of this Jersey cow was brought over from England. A calf was born on William Mathews Plantation, the calf named, Signals Lily Flagg, was recorded and registration number 31035 was given her by the American Jersey Cattle Club. William Mathews and Capt. Milton Humes were listed as owners. General Moore was listed as owner in 1892 and it is not clear whether he was the sole owner or just acquired a 1/3 interest in her. Mathews being a friend of Moore placed the young cow on his 11,000 acres in the Whitesburg area.

This account was written in the local paper July 8, 1892.

"Wednesday afternoon under the shade of Monte Sano, The Monte Sano Dairy assembled. A crowd of at least 300 Ladies and Gentlemen which represented the Elite and progressive element of our county. The occasion, the completion of the greatest Jersey test known to the civilized world. At 5:40 P.M. the last churning was started and it required 21 minutes to convert the cream to butter. The scales were brought forth and the rich particles were weighed by the sworn Judges and finally the announcement came. The yield, of the churning was, 4 lbs. 9 3/4 ozs. of

butter. This completed a one year test period.

"A speaker came forth, Mr. Valancy Fuller of Canada who was the owner of another great cow, Bisson's Belle whose record Lily Flagg had broken. In a loud distinct voice the tall Canadian announced that the record of Lily Flagg was 1,047 lbs. 3/4-oz. of butter and 11,339 lbs. of milk against 1,028 lbs. 15-5/8 ozs. of butter and 8,412 lbs. 7 oz. of milk of Bisson's Belle previous record. He then lifted his hat and said, "Three cheers for Lily Flagg, Queen of the Jersey's."

General Moore later that year brought his beloved Jersey cow Lily Flagg to the Chicago World's Exposition Fair and walked off with all the prizes, and Lily Flagg was officially announced the greatest butter producing cow of the world.

Samuel H. Moore known as General Moore, celebrated with the most lavish and possibly the strangest party on record in honor of his prize Jersey cow Lily Flagg. An old timer said, "It was the doggonest, dad blamedest party this part of the country has ever seen." The dance platform at the rear of the house was fifty feet square, the first electric system was insalled for the lighting. Lily Flagg was placed on the platform draped in flowers, the mansion and grounds were blanketed in flowers, his cook, Zenie Pruitt was known far and wide for her pastry, prepared enough desserts for an Army. An Italian orchestra from Nashville, Tennessee furnished the music. Wine and Champagne was on hand, and one table was covered with over fifty different kinds of cakes. The party was given July 21, 1892, over 1500 invitations were sent out all over the South for this great event.

The first railroad station south of Hunssville, Alabama is, Lily Flagg, a pretty name and shall we say euphonic.

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M.M.—Gas Motor Moderate Service  
M.L.—Gas Motor Light Service

D.M.—Diesel Moderate Service  
A.P.I.—Amer. Petroleum Institute  
M.S.—Gas Motor Severe Service

D.G.—Diesel General Service  
D.S.—Diesel Severe Service

# Social News

## At the Service Club

Are you ready for the big event? Have you made plans for an evening of fun? Thursday, July 16, is the date of the dance of the month. Glenn Slayton and Orchestra will be here to give us an evening of enjoyable music for easy listening and delightful dancing. The Birmingham and Huntsville Hostesses will be here for the first Cha Cha Cha. The dance begins at 2030 hour, and we'll dance until 2400 hour.

"Ready! Lights! Places! Curtain going up!" The Show Production Group will meet at the Service Club Thursday July 16 at 1800 hours. Work will begin immediately for a production in August.

The common forms of dramatics which the group will engage in are: Plays, pantomimes, skits, stunts, charades, minstrels, reviews, pageants and musical productions. Don't be just a bathtub performer join this group Thursday night. Possibly the first production will be a musical.

To almost everyone music in some form can give pleasure and recreation; to many it can give a degree of enjoyment and of renewal of spirit that makes it one of life's most highly prized gifts; and to some it is a well-nigh essential way of life itself. Don't forget the date of the first meeting July 16 at 1800 hours. . .

The buses will depart from the Service Club at 1230 hours on July 13 for a tour and picnic at Cathedral Caverns. The new section of Cathedral Caverns has just recently been opened to the public. This new formation forest is the largest in any known cavern in the world, and affords visitors a chance to see just about every type of rock formation imaginable.

Included is a spectacular flowstone wall 150 feet long. The formations themselves are located in the largest cavern room open to visitors in the entire country. This new section is in addition to the attractions which the caverns have offered in the past. Make reservation today for this fabulous tour.

Join the crowd for a delightful game of bingo Monday night at 2015 hours. You may be the lucky winner of the grand prize this week.

Coffee Call is at 0900 hours every Sunday morning for the late risers. Spend a relaxing morning in the Service Club, enjoy a cup of coffee, read the paper, and we'll furnish background music for your enjoyment.

Coffee Call every night at 1930 hours.

The Pool Tournament is at the

## NCO Wives Plan Season's Activities

The NCO Auxiliary held a business meeting Thursday night at the NCO Club. Various activities and plans were discussed.

Swimming lessons for Scouts (girls and boys) will begin Monday at the post swimming pool. Transportation will be furnished to Redstone Park, Capehart and Weeden Manor.

NCO Auxiliary officers leaving after serving six or more months in office will receive gifts of silver engraved with the year of service.

Mrs. Rudolph Weaver, leaving due to her husband's transfer, will be replaced by Mrs. Harold Womack as treasurer.

Mrs. Robert Payton will serve on the executive board.

Other new appointees to the group's various committees included Mrs. David Timberlake, Red Cross; Mrs. Robert Metcalfe and Mrs. Edward Smith, membership; Mrs. Harry Bullard, special projects; and Mrs. John Deim, nursery.

Associate members were informed that they will be allowed to use their membership cards as passes on the post.

Mrs. Melvin Collins asked that newspaper clippings of interest to the individual members be brought to the meeting to be placed in the auxiliary scrapbook.

A social meeting in the form of a dinner will be held on July 23 at 7 p.m. DST at the Mountain View Restaurant. Reservations must be made by noon on July 21 by calling JE 4-1383. Hostesses for the month of July are Mrs. Robert Payton, Mrs. Eugene Petering and Mrs. Earl Pelham.

Mrs. Robert Middling, Mrs. R. G. Lockhart, Mrs. James Rose and Mrs. Louise Bartman were guests at the meeting.

Mrs. William Thomas was welcomed as a new member, and Mrs. Irma Keever was welcomed upon rejoining the auxiliary after several months absence.

Door prize, an aluminum cookie set, went to Mrs. Louis Bartman.

top of the list of enjoyable activities for July 23 at 1830 hours. Plan now to participate in the tournament. There will be a prize for the winner.

The Birmingham Junior Hostesses issued an invitation to a picnic and dance at the YMCA in Birmingham on July 25. The bus will leave the Service Club at 1500 hours. Make reservations today for the tour to Birmingham.

## SOJOURNER PICNIC SET FOR JULY 19 AT ARSENAL DOCKS

The Redstone Chapter 353 of the National Sojourners will hold their annual picnic at the Redstone Arsenal boat docks on Sunday, July 19, beginning at 4:30 p.m.

Lt. Col. J. H. Jean is chairman of the program planning committee. Catfish and hush puppies are on the menu, and the serving schedule begins at 6 p.m.

Members planning to attend the picnic should make reservations by contacting one of the following: Harold Carpenter, Ext. 2045; Maj. F. E. O'Brien, Ext. 4749; Pete Redding, Ext. 2928; Irving Gladstone, Ext. 4808, or Col. Jean, Ext. 5209.

Other business at the monthly meeting of the local Sojourner chapter on July 10 included the initiation into membership of William Paul McNutt, 1404 Owens

## Tours by Mats Are Recommended

By SP4 William N. Matteson

Several members of Detachment "A", ARGMA are taking advantage of the Military Air Transport Service "hops" this summer for vacations in the States, Europe, and the Far East. Their experience may be useful to future travelers. Although no two air bases handle hops in the same manner, a few general tips are offered.

If you are planning a European tour, don't count on a hop during the first half of the months of July or August. West Point graduates will probably get all the available seats.

Space is allotted on the first-come, first-served basis; rank is not a factor.

Planes to Europe depart from McGuire Air Force Base, near Trenton, N.J., those to the Far East leave from Travis AFB, Calif.; and those to South America and Africa from the base at Charleston, S. C.

Bases near Redstone Arsenal which sometimes offer stateside hops are: Redstone Arsenal Airport; Sewart AFB, Smyrna, Tennessee and McClellan AFB, Montgomery, Ala. Information about flights can often be obtained several days in advance by telephone.

For more information about military hops, write the Information Office, Military Air Transport Service, Washington, D. C.

During the meeting, four members received birthday gifts from their secret pals: Mrs. Melvin Collins, Mrs. Kenneth James, Mrs. George Schanhoff, and Mrs. Ernest McClure.

## Wives Group Bridge Winners Are Listed

Four tables of party bridge were played Thursday morning by the Bridge Group of the Redstone Arsenal Officers Wives Club with the following results:

High, Mrs. R. G. Shingler; second, Mrs. A. J. Fisher; third, Mrs. F. G. Hoag; low, Mrs. F. R. Pearson.

All members of the Wives Club are cordially invited to participate in party bridge. Reservations should be made not later than Wednesday noon by calling Mrs. P. D. Smith, JE 9-1883. The Bridge Group meets on Thursday morning at 10 a.m. at the Squirrel Hill Officers Club.

## Misses Warrick Are Touring in Europe

Miss Jan Warrick and her twin sister Miss Clara Warrick are in Europe for a six-week tour.

Miss Jan Warrick is an administrative assistant at the Army Ballistic Missile Agency Tech-

Drive, Huntsville.

At the same meeting the secretary, Capt. K. W. Gryder read a letter from the friends of Pusan Children's Charity Hospital, and the membership voted a donation of \$25.

Maj. L. H. Townsend, president, announced the election of the following: Col. Charles J. Payne, second vice-president; Lt. Col. (Ret.) E. O. Allen, third vice president; Capt. Samuel Spencer, treasurer, and Lt. Donald Lumberg, assistant marshal.

Capt. C. C. Guffey announced the Heroes of '76 will meet at the Yarbrough Hotel on July 24.

## Mrs. Keith and Capt. Carmichael Win at Party Bridge

Mrs. Glen Keith and Capt. Hugh Carmichael took first place honors in Party Bridge competition at the Officers Club Monday night, July 6.

Other winners among the women were Mrs. Homer Finch, second, and Mrs. B. F. Brinkpeter, low.

Other winners among the men included Capt. George Pickering, second, and Lt. Col. Pizer, low.

Hostesses for the evening were Mrs. Wells Gibbs and Mrs. Homer Finch.

## PLAYS WILL BE PICKED

The Huntsville Little Theatre will hold its July meeting at the Fifth Avenue School at 7:30 p.m., July 16. Anyone interested in the activities of this group is invited.

A discussion of the plays considered for next year will be the main topic of business. A report on the progress of the current production "The Moon is Blue," which is now in rehearsal, will also be given.

nical Documents Library. Miss Clara Warrick is the secretary to Mr. H. H. Koelle in the ABMA Structures and Mechanics Laboratory.

The two flew to England on the 707 Jet Stratoliner in six hours and 24 minutes, according to a postcard sent to fellow employees.

The tour will take them to England, Belgium, France, Switzerland, Italy, Austria and Germany.

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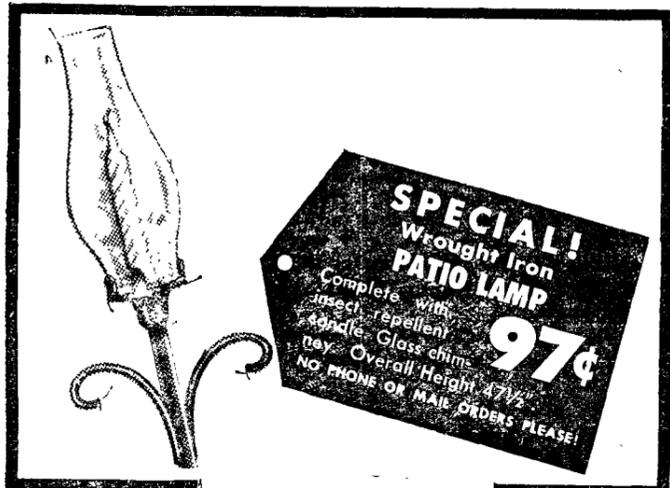
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### Safety Scoreboard

(As of 13 July)

Days since last civilian disabling injury	30
Our goal	60
Days since last military disabling injury	14
Our goal	30
Days since last contractor personnel disabling injury	32
Our goal	50
Days since last government motor vehicle accident	2
Our goal	30

### DRIVING RECORD (Government Vehicles)

(As of 13 July)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	8	2
Post Engineer Div. (RSA)	10	24
Provost Marshal Div (RSA)	13	2
Depot Operations (RSA)	11	5
All Other RSA	4	3
Thiokol (ARGMA)	6	45
All Other ARGMA	3	87
OGMS	10	16
ABMA	5	34

### Former Jupiter Project Officer Receives The Commendation Ribbon

Lt. Col. Walter R. Mullane has been awarded the Army Commendation Ribbon with Metal Pendant in recognition of his service as deputy chief of the Jupiter Project Office at the Army Ballistic Missile Agency. The presentation was made by Army Commander Brig. Gen. J. A. Barclay shortly before Col. Mullane's departure for assignment in Korea. Ballistic Missile Agency is an element of the Army Ordnance Missile Command.

Col. Mullane entered the Army in July 1935 and was graduated from the U. S. Military Academy in 1941. He is also a graduate of the Command and General Staff College, Ft. Leavenworth, Kansas.

Prior to assignment with the Agency's Jupiter Project Office he was Assistant to the Director of the Industrial Division at the Agency.

### Congress Discussed In New Pamphlet

A straightforward look into the legislative processes of the United States government, entitled "Congress At Work", will be distributed by the Office of Armed Forces Information and Education, Department of Defense.

The informative 19-page pamphlet was written and published by "Scholastic Magazine" and is prefaced with an address by Secretary of Defense Neil H. McElroy.

Complete with photographs and illustrations, the pamphlet reveals the daily tasks which keep Congress running smoothly. (AFPS)

signed to the Army. Lt. Urban is assigned as a project officer in the Agency's Jupiter Project Office. He enlisted in the Army Reserve in 1955, was commissioned in 1957, and entered active duty in December 1957. He received his BA degree in physics from Harvard College, Cambridge, Mass., in 1957 and is a member of the American Radio Relay League and the National Rifle Association.

### MISSILE SCHOOL MEN COMPLETE FIRST AID COURSE

A record number of officers, enlisted men and civilians at the Army Ordnance Guided Missile School have received certificates for completing a special course in first aid supervised by W. J. Cary, Jr. OGMS Safety Officer.

Three classes of 10 hours each were attended by 73 persons who are now qualified to use the Army's more advanced first aid kits and give immediate and temporary care to accident victims pending arrival of a physician.

Special emphasis was given to first aid treatment of severe bleeding and snake bite as well as new methods of administering artificial respiration, all of which are needed more frequently during the summer months.

### Former Artillery Instructor Is Now Assigned at AOMC

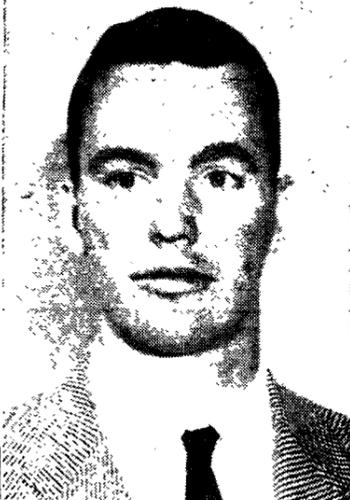
Lt. John S. Farrington, formerly an instructor with the U. S. Army Artillery and Missile School at Ft. Sill, Okla., has been assigned with the office of the assistant chief of staff for support operations at the Army Ordnance Missile Command.

Lt. and Mrs. Farrington, the former Barbara Ann Ferguson of 202 Ft. Sill Blvd., Lawton, Okla., have two children, Fred H., four years old, and Lauren Wynn, one year old.

### Rohm and Haas Man Awarded Fellowship

R. H. Woodward Waesche, a member of the Rohm and Haas Research Division at Redstone is one of twelve young engineers awarded the Daniel and Florence Guggenheim Fellowship for 1959-1960 graduate study in jet propulsion, flight structures and space flight sciences.

The men will study at Princeton University, California Institute of Technology and Columbia University.



R. H. W. WAESCHE

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University. Waesche is currently working for a master of science degree in physics at the University of Alabama Huntsville Center and is expected to graduate in August. Waesche will continue his studies at Princeton University.

From 1952 through 1954 he was assigned to Redstone Arsenal as an enlisted man.

Mr. and Mrs. Waesche make their home at 2008 Colice Road in Huntsville. He has been active in the community as a vocalist and both Mr. and Mrs. Waesche have been active in Little Theatre work here.

### Lt. Urban Promoted To First Lieutenant

First Lt. Eugene W. Urban receives the insignia of his present rank from Brig. Gen. J. A. Barclay, Commander of the Army Ballistic Missile Agency, during a recent promotion ceremony. The Agency is an element of the Army Ordnance Missile Command which is responsible for all missile and space programs as-

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**2nd Session — 3 yrs. of age through 3rd grade.**  
 1100 hours — Morning Worship  
 The nursery for babies and small children is open during this service.  
 Tuesday—1830 hours, EMCU.  
 Wednesday — 1845 hours — Chancel Choir rehearsal.  
**RSA PARK — Sunday, 0945 hours — Sunday school classes**  
 Morning worship — 1100 hours  
**JEWISH — Temple B'Nai Shalom** (corner of East Clinton and Lincoln).  
 Friday — 2000 hours — Regular service. O'Neg Shabbot (Sab-

## ABMA Lieutenant Is Promoted to First

Lt. Jerald M. Wennerstrom, received the insignia of his pre-

## CHRISTIAN SCIENCE SERVICES

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

## CATHOLIC

Sunday — 0745, 0845 and 1230 hours—MASS.  
 Monday — 1930 hours—Choir Rehearsal.

2000 hours — Inquiry Class.  
 Tuesday — 1930 hours — Novena in Honor of Miraculous Medal.

Thursday — 1830 hours — Altar Boys' Class.

Saturday — 1800-1900 hours — Confession.

Daily Mass — 1130 hours.

WANTADS CARRY BARGAINS

## Dr. Colburn to Attend Symposium in England

Dr. Charles Colburn, head of the Physical Chemistry Group of the Redstone Arsenal Research Division of Rohm & Haas Co. left for Birmingham, England Sunday.

He will attend the International Symposium on Fluorine Chemistry being sponsored jointly by

sent rank from Brig. Gen. J. A. Barclay, Commander of the Army Ballistic Missile Agency.

Lt. Wennerstrom is serving in the Agency's Jupiter Project Office. He entered the Army in December 1957 and was stationed at Aberdeen Proving Ground Md., prior to coming to the Army Ballistic Missile Agency in March 1958. He received his BS degree in chemical engineering from Pennsylvania State University in 1957, and is a member of the American Institute of Chemical Engineers.

The Chemical Society and The University of Birmingham. He will also present a paper on "Preparation and Properties of Difluoramine, Difluorodiazine and Tetrafluorohydrazine."

Papers are being presented before this symposium by representatives from the United States, Canada, England, France and Germany.

Dr. Colburn received a B. S. in chemistry from Kansas State College in 1944 and a PhD in physical chemistry from the University of Utah in 1951. He was employed by the University of Utah as a research associate on a Naval Ordnance contract until 1952 when he joined the Redstone Arsenal Research Division in his present position. Dr. Colburn's primary interests have been in the fields of reaction kinetics and decomposition mechanisms.



DR. CHARLES COLBURN

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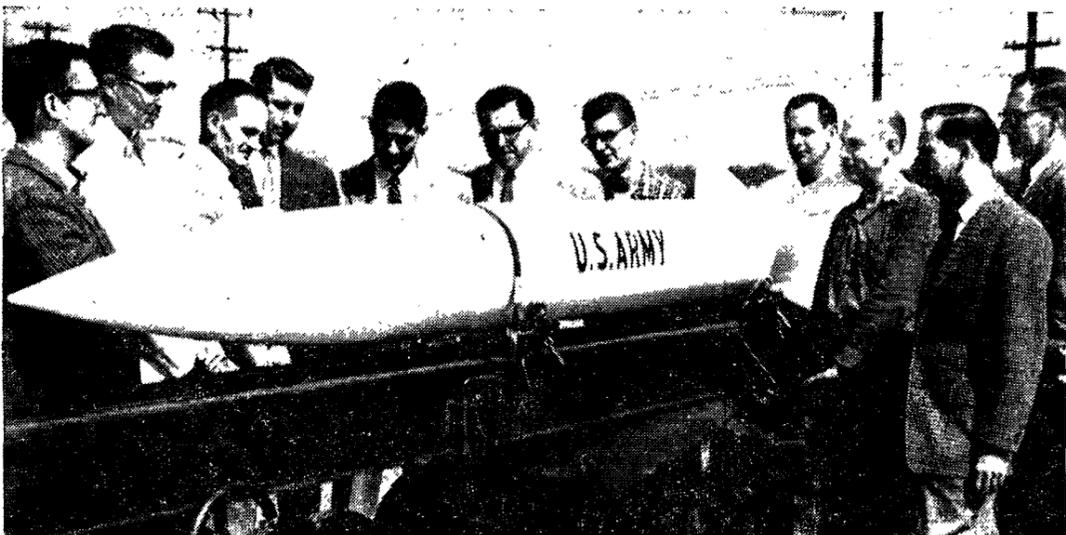
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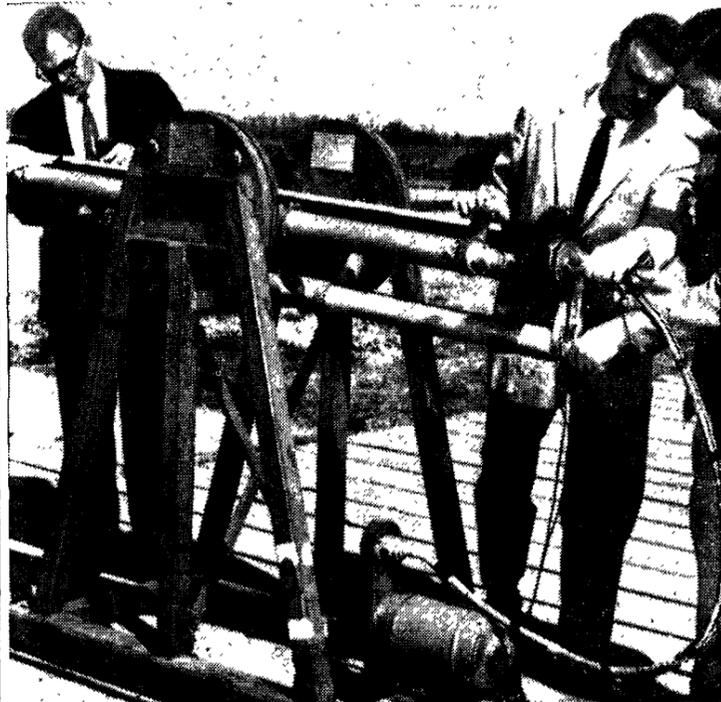
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ARMY ROCKET AND GUIDED MISSILE AGENCY ENGINEERS from the Design and Development Laboratory examine a Little John rocket and launcher. The Little John system is the result of more than two years of development by the Laboratory. Left to right are, Dr. William McCorkle, Charles Schreiner, Walter Wilson, Brown Harwell, David Mendel, Walter Kopcha, Walter Krueger, Sam Hardy, John Clark, John Wallace and Hubert Greene.



LEFT TO RIGHT, R. I. Strickland, W. M. Hadaway and C. M. Cornelson of the Design and Development Laboratory, Army Rocket and Guided Missile Agency, examine a research round prior to a test firing.

\* \* \*

ports in supporting research. This is research with no specific item in mind—it is a search for improvement for improvement's sake alone. The resulting "break-throughs" are then ready for use when an item development program calls for them.

In addition to specific development projects and supporting research programs, the Laboratory also provides consulting services to other agencies and assists the Army Rocket and Guided Missile Agency's Research and Development Division with the evaluation of contractor efforts.

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DESIGN AND DEVELOPMENT LABORATORY STAFF discussing missile launching systems are, left to right, Henry Dihm, Max D. West, Charles W. Hussey, Cliff E. Fitton, Jr., Nick G. Flood, Norman L. Comus and William C. Watson. The Laboratory is one of six making up the Ordnance Missile Laboratories Division at the Army Rocket and Guided Missile Agency.

**MISSILE**

(Continued From Page 1)

is headed by Lab chief Cliff E. Fitton, Jr., and his deputy, Max D. West. Work includes projects for other agencies and services as well as the Army's missile program, and encompasses development of components as well as complete rocket and missile systems.

"First," explains Fitton, "we must get an initial or preliminary concept of the item required. We need to have an idea of the overall requirement and the requirements of the individual parts."

This preliminary study is conducted by the Laboratory's Systems Design Branch, headed by Charles W. Hussey. Once the initial concept is completed, the lab is ready to move ahead with actual development of the item concerned, and its six other branches swing into action, coordinated by the Technical Operations Office under the direction of Henry Dihm.

Aerodynamic and structural requirements, power plants, electronics design, and design and fabrication are all subjected to intense scrutiny under the direction of branch chiefs David A. Mendel, Nick G. Flood, Charles W. Schreiner, and William C. Watson.

"Each component part of the completed item must be the best

for the purpose desired," explains Fitton. "If a suitable component is not available, one has to be designed that will fill the bill."

As the work progresses, the members of the Drafting and Specification Branch, headed by Forrest D. McCullough, accomplish the tremendous task of putting it all "down on paper,"—recording each detail of design and outlining the exact specifications required.

Meanwhile the Engineering Analysis Branch, under the direction of Norman L. Comus, is engaged in designing experiments to provide an analysis of the item's performance, determining both its reliability and effectiveness—to discover first, if it works, and second, if it works well.

Missile making is not an overnight process—as can well be realized by a brief examination of the number of complex operations involved. Development of the "recipe," assembly of components, and testing and evaluation are often a matter of months, even years. The Little John rocket system, for example, is the result of two and half years of development by the Laboratory.

"Development is conducted as rapidly as possible," Fitton points out, "but we must always keep in mind the quality and reliability of the item."

To speed up the development of specific items and systems, the Laboratory spends part of its ef-

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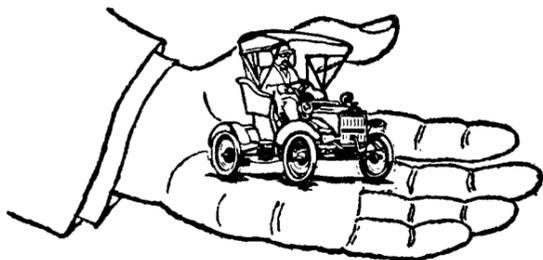
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**WILL REPRESENT ARSENAL** — Pictured above are the 864th "Jupiters," softball champions of Redstone Arsenal for the 1959 campaign. Standing are from left to right: Russel Parker, coach, L. Anderson, J. Barnett, W. Poindexter, M. Holloway, W. Dellegar, A. Cameron, L. Murphy, F. Hackney and W. Stegall; Kneeling from left to right are: F. Martin, C. Smith, R. Stephens, J. Bailey, R. Samuelian and R. Thomas.

**SAC Softball Team to Represent Arsenal at 3rd Army**

SAC's 864th Technical Training Squadron, one of the youngest missile squadrons in the Air Force, will represent Redstone Arsenal in the 3rd Army Softball Tournament to be held at Fort Jackson, South Carolina beginning

**Golf Group Takes Advantage of First Ladies Day to Play**

Twenty-one gofers participated in a low gross event held last Wednesday morning by the Golf Group of the Redstone Arsenal Officers Wives Club.

This marked the first ladies' day at the recently opened Redstone Arsenal Golf Course.

Hereafter, all competition held by the group will take place on the Arsenal course.

Winners in the low gross event were first flight, Mrs. C. J. Payne and Mrs. H. H. Wishart, tied; second flight, Mrs. J. A. Dasche; third flight, Mrs. Frank Napper and Mrs. W. R. Shoemaker, tied; fourth flight, Mrs. W. F. Fries.

Today the group is playing for low on five blind holes. Beginners as well as regular members are invited to participate in the activities of the Golf Group. The group meets Wednesday morning, with competition beginning between 8:30 and 9 a.m.

on Aug. 10. The 864th "Jupiters", runner-up last year, vanquished 18 consecutive Army opponents to cop all honors at this Alabama Army reservation.

Behind the .433 bat of AIC Dick Stauffer, who also led the Jupiters in practically every other department, and the pitching arm of ALC Dick Stephens, (10-0), this Jupiter aggregation humbled nine consecutive opponents before being put to their first real test of the season against an undefeated Army Field Maintenance Team.

For 6 innings both teams battled to a standstill without a hit, then at the top of the Jupiter 7th, an error, a long right-field home-run off the bat of AIC Frank Hackney, a walk, stolen base and another error gave the Jupiters 3 big runs which was enough to capture their 19th consecutive triumph.

Stephens fanned batter after batter in chucking his first no-hit game of the campaign. This victory was the turning point of the season for the Jupiters who won 8 more before being pitted up against a once-beaten "B" Detachment ABMA nine, for the Post Championship.

Once again it was the brilliant arm of Dick Stephens and the adept play of the Jupiters, both offensively and defensively, that spelled the difference.

Stephens pitched 3-hit ball and whiffed 12 Army batsmen while Jupiter teammates pounded out 8 hits on their way to a 6-1 conquest; which gave them sole heritage to championship laurels on Redstone Arsenal.

**SOFTBALL SCOREBOARD**

Det 'B' ABMA 9 — Field Maintenance 5.  
 Det 'B' ABMA 7 — Medical Det 0.  
 Lt. Dill (Officers) 7 — 3rd ETD 0.  
 Det 'A' OGMS 13 — Det 'A' ARGMA 11.  
 Det 'B' ABMA 11 — Lt. Gross (Mixed) 6.  
 864th Air Force 7 — Signal Det 0.  
 Field Maint 7 — Medical Det 0.  
 Lt. Dill (Officers) 7 — 1st ETD 0.

**SOFTBALL SCHEDULE**

15-22 July 1959:  
 15 July — Lt. Dill (Officers) vs Field Maint, Field No. 2 — 1800 hours.  
 15 July — Det 'A' ARGMA vs Hq Det USAG, Field No. 2 — 1930 hours.  
 16 July — Medical Men vs. 3rd ETD, Field No. 2 — 1800 hours.  
 Medical Det vs Signal Det, Field No. 2 — 1930 hours.  
 17 July — Hq Det UTC vs 'B' Det ABMA, Field No. 2 — 1800

**BASEBALL SCHEDULE**

16-21 July 1959  
 16 July Hq Det USAG vs Det 'B' ABMA 1930 hours.  
 17 July Hq Det UTC vs Det 'B' OGMS 1930 hours.  
 18 July Det "A" OGMS vs M & I OGMS 1930 hours.  
 19 July Hq Det UTC vs Det 'B' ABMA 1930 hours.  
 21 July M & I OGMS vs Det 'B' ABMA 1700 hours.  
 21 July Det "B" OGMS vs Hq Det USAG 1930 hours.

**BASEBALL SCOREBOARD**

Hq Det USAG 6 Hq Det UTC 1.  
 Hq Det USAG 5 Hq Det UTC 4.  
 M & I OGMS 6 Det "B" OGMS 5.  
 Det "A" OGMS 12 Hq Det USAG 6.

**BASEBALL STANDINGS**

AS OF 9 JULY 1959

	Won	Lost
Det "B" OGMS	8	3
Hq Det USAG	8	4
Det "B" ABMA	5	3
Det "A" OGMS	6	5
Hq Det UTC	2	5
M & I OGMS	2	8

**Movie Schedule**

Wednesday, 15 July, "Miracle Of The Hills", starring Rex Reason and Theona Bryant. Time 1315, 1745 and 1945.  
 Thursday, 16 July, "The Scape Goat", starring Alex Guinness and Eette Davis. Time 1315, 1745 and 1945.  
 Friday, 17 July, "Vertigo," starring James Stewart and Kim Novak. Time 1315, 1745 and 1945.

Saturday, 18 July, SPECIAL MATINEE, "Ghost Diver", starring James Craig and Audrey Totter. Time 1000.

Saturday, 18 July, "The Four Skulls of Jonathan Drake", starring Eduard Franz, Valerie French, Grant Richards and Henry Daniell. Time 1745 and 1945.

17 July — Lt. Dill (Officers) vs Lt. Gross (Mixed), Field No. 2 — 1930 hours.

20 July — Det 'A' OGMS vs. 864th Air Force, Field No. 2 — 1800 hours.

20 July — 3rd ETD vs 1st ETD, Field No. 2 — 1930 hours.

21 July — Medical Men vs. Hq Det USAG, Field No. 2 — 1800 hours.

21 July — Hq Det UTC vs Medical Det, Field No. 2 — 1930 hours.

**Rhymes of the Times**

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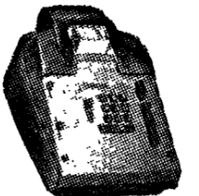
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**BY CAPT. CHARLES MAUCERI**  
 Maj. Gen. John B. Medaris cut the ribbon officially opening the new 9-hole Squirrel Hill golf course. He then proceeded to lace the first shot straight as a ribbon 225 yds down for our golf course, a great start for our golf course, the latest addition to the recreational facilities at Redstone.

Four hundred and seven years ago probably a similar scene took place when St. Andrews Golf Course in Scotland was opened in the year 1552. While this staid old club is conceded to be the oldest in the world surely ours is the newest.

However, the game goes back sometime before the founding of St. Andrews and it is quite likely that while Columbus was searching for new continents some kilted Scotsman searching in the heather for "Ye Olde Golfe Ball." That he found it is a foregone conclusion because the game has blossomed into one of the most fascinating sports in the world.

**Queen Played Golf**

Golf was for many years considered the exclusive right of the dominant male and the reclaimed cow pasture no place for a lady. (It's worth noting that to this day that famous mecca of golfdom, St. Andrews, won't allow a woman within fifty feet of the Clubhouse). But there was one lady who took the woman's prerogative, in this case her high position in society and became

the first woman golfer. This was Mary, Queen of Scotland (1542-1567) the granddaughter of King James IV. As may be expected the brave queen came in for a lot of criticism but she persisted and records indicate that she became quite adept.

Conditions have changed considerably since those dark days but there are some diehards who still insists the golf course is no place for a lady. But the handwriting is on the scoreboards, so to speak, and the ladies can no longer be denied or ignored. Their scores are getting better every day and, in numerous instances, even beating men's par on some of the more difficult courses around the country. Certainly there is no denying "les girls" have come a long way in this sport and earned a place in the sun, but those old diehards, while conceding the acquired aptitude, still complain that tradition and rules are being trampled to death.

**Golf Etiquette**

Though men lump rules and traditions under the heading of deportment what they actually allude to but won't mention is golf etiquette — sounds too much like Emily Post. So the wise lady will meet this challenge by learning the etiquette of golf even before taking on the other rudiments of the game.

Our first problem, and a very critical one is "how can we help the crowded conditions that exist on practically all golf courses?"

Many will remember that old vaudevillian routine where the two Frenchmen come to the door and before finally passing thru it "Apres vous, Gaston" and "Apres vous, Alphonse" until they finally both make a pass to go thru and bump each other. Such politeness is of course exaggerated, but certainly consideration coupled with a polite attitude towards other players

can't go wrong. Remember the first player to tee off is usually the one scoring best for the preceding hole. This is called having the "honor."

In approaching the green the person furthest away shoots first and so on down until the person actually having made the longest shot from the tee shots last.

The same procedure is followed until everyone has holed out.

**Is Game Trailing?**

A note of controversy exists on "when is it advisable to allow faster players thru?"

Whenever a backward glance tells you that the following players have been waiting and it is realized that your own game is not unusually slow then wave them thru at the first opportunity. Common sense applied here will improve your enjoyment of leisurely played round and at the same time earn the respect of the oncoming players.

In short holes it is customary to allow the following players to tee off before putting out. This aids considerably in relieving congestion on the shorter holes.

Carts should always be kept on the furthest side of the green away from the approaching players.

**Avoid Scuffing Green**

In approaching the ball prior to putting learn to use the shortest distance in walking to the ball. Learn to appreciate the amount of work it takes to develop a good putting green and avoid unnecessary usage whenever possible.

A few of the important points in the etiquette of golf and its traditions have been covered. There are many more that will be discussed in future editions of the Redstone Rocket.



**ASTRO-ELECTRONICS CHIEF VISITS** — Lt. Col. John V. Fill, Jr. (left) acting chief of the Signal Office, U. S. Army Ordnance Missile Command, Redstone Arsenal, Ala., conducted Dr. Hans K. Ziegler, director of the Astro-Electronics Laboratories at Ft. Monmouth, N. J., on a tour of the Laboratories of the Army Ballistic Missile Agency during a recent visit to this North Alabama installation. Dr. Ziegler was here with several members of the staff from the U. S. Signal Corps Research and Development Laboratories.

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**SIGNAL CORPS VISITORS**—Recent visitors at the Signal Office, Army Ordnance Missile Command included Col. H. McD. Brown, commanding officer of the U. S. Signal Corps Research and Development Laboratories at Ft. Monmouth, N. J., two members of his staff, and Ozro Covington, technical director for the Signal Missile Support Agency at White Sands Missile Range, N. M. Vachel Stapler (left) of the Army Ballistic Missile Agency's Fabrication Laboratory conducted the group on a tour of that facility. With Stapler (left to right) are: Covington, F. S. Kineavy, director of management of the Signal Corps Laboratories, and Col. Brown. Dr. Hans K. Ziegler, director of the Astro-Electronics Laboratory, of the Signal Corps Laboratories also was a member of the visiting group. (U. S. Army Photo)

**Capt. Selfe Receives Commendation**

Capt. John K. Selfe, son of John G. Selfe, McElhattan, Penna., received the Army Commendation Ribbon with Metal Pendant from Major General J. B. Medaris, commander of the U. S. Army Ordnance Missile Command.

Capt. Selfe is an Army pilot assigned to the Command Headquarters at Redstone Arsenal, Ala. Prior to his assignment at the Command, Capt. Selfe was an instructor at the Army Aviation Center at Fort Rucker, Ala.

Army Ordnance Missile Command.

A graduate of Rogers High School, Spokane, Wash., Lt. Reedy received his BS degree in mechanical engineering from Gonzaga University, Spokane, in 1957. Prior to entering the Army in July 1958 he studied nuclear engineering at the University of Washington and was employed as an associate research engineer with Boeing Aircraft Co., Seattle,

**Project Officer Is Assigned Military Plans and Training**

Lt. Delbert Ray Reedy, has been assigned as a project officer with the office of the assistant chief of staff for military applications and training at the

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### Safety Honor Award Is Given Chrysler's Huntsville Division

An Award of Honor — the National Safety Council's highest form of recognition — has been presented to Chrysler Corporation's Huntsville Operations for achieving more than three million man-hours with a disabling work injury.

The award was earned over a five-year period and dates back to the time the plant was established in March, 1953.

Presentation of the award was made to A. R. Trahern, Chrysler Huntsville Operations manager, by Maj. Gen. Henry Hoefler (Ret.), assistant general manager of the National Safety Council.

Trahern, in accepting the award plaque, termed the safety accomplishment "a great tribute to the safe working practices of all plant personnel and to the safety leadership of every member of plant management."

In addition to the National Safety Council award, Huntsville Operations has earned military awards of merit from the Army Ordnance Missile Command for its outstanding safety in each of the past five years.

Huntsville Operations, part of Chrysler Corporation's Missile Division, has a work force of approximately 1,000 employees. Its primary mission is to supply engineering services to the Army



**AWARD OF HONOR**—A. R. Trahern (second from right), manager of Chrysler Corporation's Huntsville Operation, accepts an Award of Honor—the National Safety Council's highest form of recognition—from Maj. Gen. Henry Hoefler (Ret.), Assistant General Manager of the Council. Huntsville Operations has achieved more than three million man-hours without a disabling work injury, over a five-year period. Looking on, in photo, are Col. John J. Wald (left), Chief, Jupiter Project Office, Army Ballistic Missile Agency, and John Leary, vice-president for Personnel, Chrysler Corporation, Detroit. Huntsville Operations, part of Chrysler's Missile Division, has a work force of approximately 1,000 employees.

\* \* \*

Ballistic Missile Agency and AOMC on Redstone and Jupiter missiles and other Army and government-sponsored space projects.

This marks the fourth time in the last three years that the Chrysler Corporation Missile Division has been recognized by the National Safety Council for noteworthy safety performance. The Chrysler-operated Michigan Ordnance Missile Plant, headquarters of the Missile Division, has received the Council's Award of Merit in 1956, 1957 and 1958.

Wife: "I want to do some shopping tomorrow, if the weather's good. What does the newspaper say?"

Husband: "Rain, hail, sleet, snow, thunder, lightning and fierce winds."

#### WHAT THEY'RE SAYING

"As a constructive force, the carrying out of scientific exploration in space will give man the knowledge and the means whereby he may more fully understand the processes of nature. It may prove to be the means by which we can raise men's minds to the heights where human dignity is recognized everywhere as the lofty estate we hold it to be."—T. Keith Glennan, Administrator, NASA.

### Post Library

ANNA L. FARRAR, LIBRARIAN

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- William Ballinger, "The Doomsday."
- Pearl Buck, "Command the Morning."
- Noel Clad, "Love and Money."
- Alexander Cordell, "Rape of the Fair Country."
- Herbert D'neerstein, "War and the Soviet Union."
- Arthur Divine, "Nine Days of Dunkirk."
- Cliff Farrell, "Ride the Wild Trial."
- Jacquetta Hawkes, "Providence Island."
- Fred Hoyle, "Ossian's Ride."

- Robert de La Croix, "They Flew the Atlantic."
- Alfred Lansing, "Endurance, Shackleton's Incredible Voyage."
- Edmund Love, "War is a Private Affair."
- John Makris, "Silent Investigators."
- Donna Mathews, "Fatal Amateur."
- Margaret Millar, "The Listening Walls."
- Lewis Miner, "Front Lines and Headlines."
- Charlton Ogburn, "The Marauders."
- Ben Puchaski, "What You Can Earn in 250 Different Careers."
- E. L. Rogers, "Using Your Boat for Fishing."
- Martin Ross, "Handbook of Everyday Law."
- Milton Shapiro, "Phil Rizzuto Story."
- Howard Singer, "Wake Me When It's Over."
- William Talbert, "Playing for Life."
- Alan Villiers, "Give Me a Ship to Sail."
- Erle Wilson, "Adams of the Bounty."

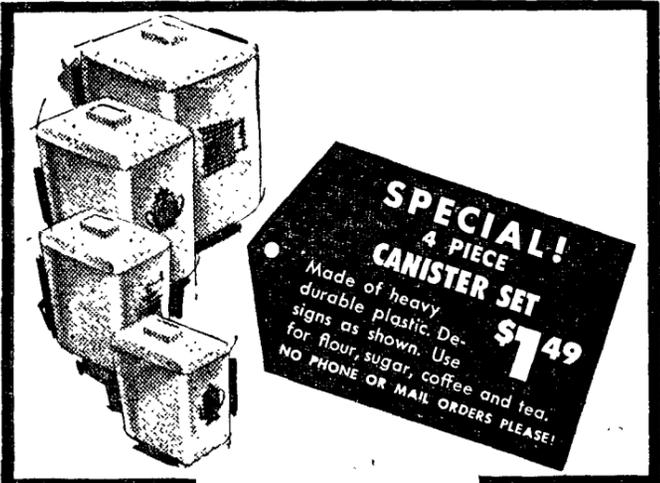
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JOHN MUNGER

### Safety Man Gives Pointers On Pedestrian Safety

Editor's Note: Two pedestrians have been hit by autos within Redstone Arsenal recently. Therefore, this supervisor's safety talk prepared by W. T. (Bill) Cook, RSA Safety Division, is considered very appropriate at this time.

The number of pedestrian injuries and fatalities on our streets and highways is very high and is increasing yearly. This I am sure concerns each of you personally, for each of you at some time is a pedestrian and most of you at some time, a vehicle operator.

Now, what is causing these useless killings? Is it the condition of our streets and highways? No, it is not the conditions of our streets and highways for we are constantly improving these and yet our accident rate is increasing. Is it mechanical failure? No, because mechanical failure accounts for only 2% of these accidents.

I'll tell you what's causing this useless slaughter. It's our poor attitudes. Yes, attitudes like ours as vehicle operators — driving 50 miles per hour in a 25 mile zone; disobeying traffic controls; and attitudes like ours as pedestrians, crossing streets in the middle of the block instead of at authorized crossings; walking on the wrong side of the street; darting from behind parked vehicles.

Now let's see what we have caused when we have done these things. We have broken the law but worse than that, we have

taught our children and our neighbor's children to break the law also. Such attitudes could start a chain reaction which might take one or more lives.

The rate of our highway and street accidents can and must be reduced. First, we must change our attitudes. As a vehicle operator obey all traffic laws; adjust driving to meet road conditions; drive defensively; look for a pedestrian to dart from behind every parked vehicle; expect the unexpected; give the pedestrian a break even if he is wrong; be extra cautious around schools and playgrounds; be courteous.

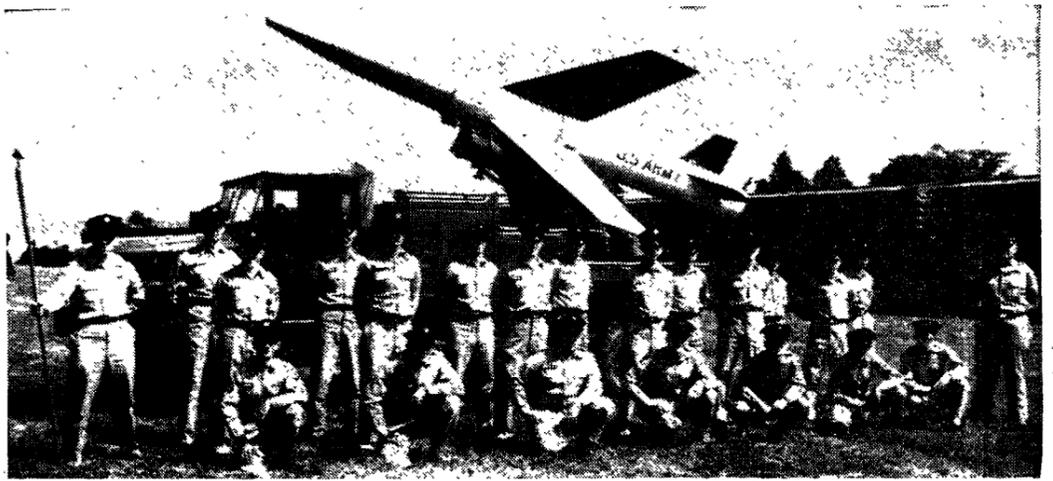
As a pedestrian remember you are no match for a vehicle so don't tangle with it; you will lose every time.

Cross roads and streets at authorized crossings only; do not step from behind parked cars directly

for your safety. Whenever possible, all work should be done remotely, and quantities of the mixture be kept as small as possible. The use of safety shields, glasses and gloves are always necessary for protection against "an unknown substance."

Munger is married and has two children—Russ and Beth. He and his wife have purchased a home at 502 Sanders Road, Huntsville. His spare time activities are centered around making his new home a better, more comfortable place to live.

He suggests that the best preparation for any experiment involving propellant chemistry is to expect it to blow up and plan



THE 17TH ORDNANCE DETACHMENT (Direct Support, Lacrosse), trained at the OGMS Unit Training Center, will be transferred in the near future to Fort Bliss, Texas, where it will be attached to the Fifth Missile Battalion of the 41st Artillery Group. This unit, commanded by WO G. K. Clardy (extreme right), will maintain the ordnance equipment used in the Lacrosse training program.

### John Munger Chosen Week's Safe Worker

John Munger, a chemist assigned to OML's Propulsion Laboratory, has been selected as the Safe Worker of the Week.

He was born in New York. Munger served with the Army Chemical Warfare Branch in the Philippine Islands from 1942 to 1946. After his discharge from the service, he returned to school. He graduated from Georgia Tech in 1950 with a bachelor of science degree in chemistry.

Munger has been employed at Redstone Arsenal since July 1950. Throughout his employment the major portion of his work experience has been in the development of rocket fuels. From his research work in this new field of chemistry, Munger has prepared several technical papers.

Munger has worked with materials whose characteristics were unknown, and many of his experiments have ended with an explosion. But, as he says, "Because of adequate, safe planning, good luck and the help of the Good Lord, I have only had one minor injury resulting from my work."

He suggests that the best preparation for any experiment involving propellant chemistry is to expect it to blow up and plan

Recruit waiting to see doctor: "May I go in first, please. I just swallowed a hand grenade."

Tourist: "What does 'Fontainebleau' mean in French?"  
Cab driver: "Bring money!"

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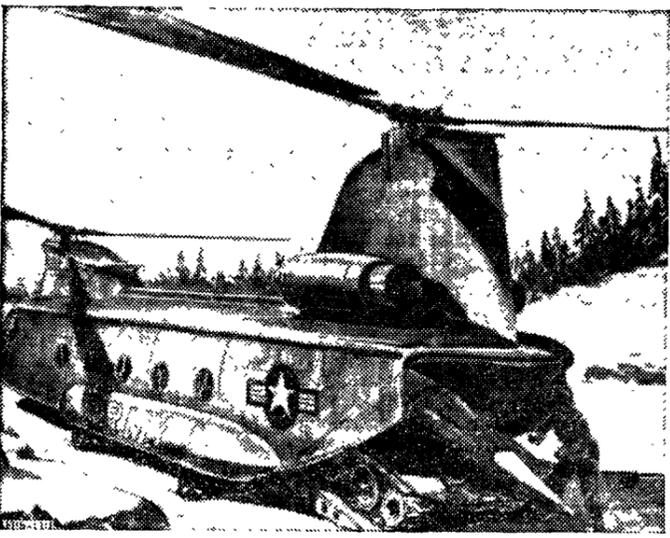
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**MODERN 'COPTER**—This is an artist's illustration of the Army's new transport helicopter, the Chinook. A tandem rotor, turbine-powered helicopter, it features a rear loading ramp and will eventually replace the Army's piston engine-powered transport helicopters.



**CAPT. T. F. BRADY**

**Capt. Brady Named Safe Supervisor**

Capt. Thomas F. Brady, Special Weapons and Logistics Branch, OTD, OGMS, was selected the Safe Supervisor of the Week by the Redstone Safety Division.

Capt. Brady is Senior Instructor Special Weapons Section, and his record has been accident free since 1951. He said that he stresses safety in his instructions and he considered it most important because one accident could ruin many months of preparation. He believes that safety conserves manpower and is a must if our country is to remain the leading power of the world.

The safe supervisor was born in Linear, Ga., and moved with his parents to Johnson City, Tenn., while he was still very young.

He graduated from Hampton Institute of Virginia where he majored in science. He attended Loyola in Baltimore and Peabody in Nashville. He has his B.S. degree in education, and was a school teacher in the public schools before entering the army.



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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

**RSA BOWLING LANES OPERATING HOURS**

Sunday and Holidays — 1300-2100.  
Monday thru Saturday 1200-2200

**GOLF DRIVING RANGE AND ARCHERY RANGE OPERATING HOURS**

The Golf Driving Rang located immediately east of the Service

Club, Bldg. 3711, has been closed. A new Golf Driving Range has been opened at the RSA Golf Course.

The Archery Range located immediately east of the Service Club, Bldg. 3711, will remain open. Equipment may be checked out from the Service Club. Operating hours: Monday thru Friday 1300-2100, Saturday and Sunday 1300-2000.

**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 dark.

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Capt. Brady has been in the Army 16 years and during this time has been stationed in Germany, France, India, Korea, Japan, Aberdeen Proving Ground. He came to Redstone in 1958.

Capt. Brady is married to the former Leona Quarles of Palestine, Texas. Mrs. Brady is a teacher also. She teaches chemistry. They have two boys, Thomas, Jr. 16 and Anthony 14. Both boys like music. Thomas, Jr. plays the piano in church and Anthony plays the drum in the band.

Capt. Brady and his family reside at 1122 Buffington Road. The Captain's hobbies are bowling and woodworking.

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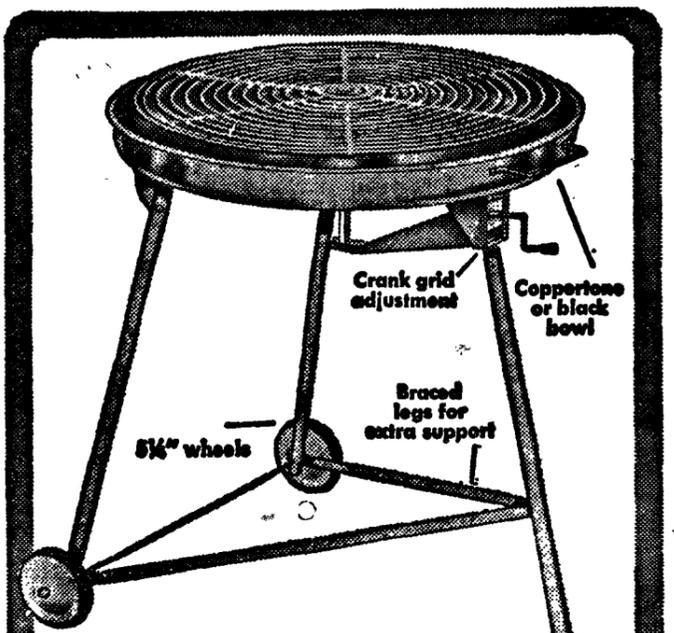
Tuesday 9 a.m.—5:30 p.m.

Friday 9 a.m.—5:30 p.m.

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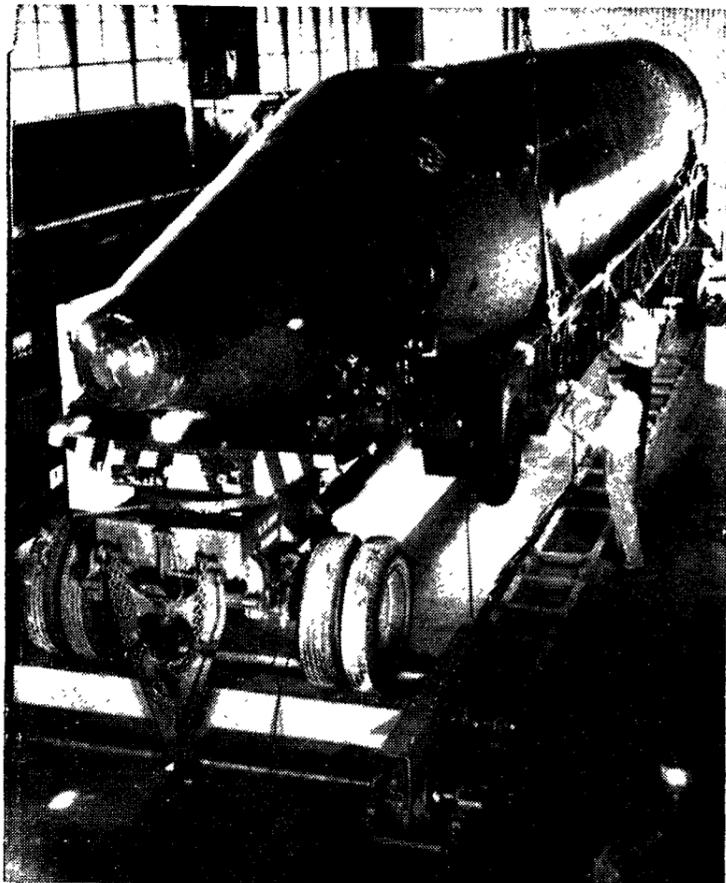
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**MISSILEMAN'S ROCK AND ROLL**—Missile technicians at the Army Ballistic Missile Agency have come up with their own version of the "rock and roll"—a giant shake table for testing missile components and supporting equipment. Above, Alexander Kosis and Lawrence Vance, technicians with the Shake Table Unit of the Agency's Systems Support Equipment Laboratory, check accelerometers following a shake table test of a tactical Jupiter missile transporter. One of the largest shake tables in operation, the facility can accommodate vehicles with wheel bases up to 50 feet and can put 30,000 pounds through a rotary shake action which provides up to 90,000 pounds gross vibrating force. Controlled vibration assists Army missilemen in detecting deficiencies and determining the best position for recording devices during other tests. The Army Ballistic Missile Agency is an element of the Army Ordnance Missile Command.

\* \* \* \* \*

## ABMA Has Its Own Rock'n Roll Version—'Shake Table'

Missile technicians at the Army Ballistic Missile Agency have come up with their own version of the "rock and roll"—a giant shake table for testing missile components and supporting equipment.

This unique device, operated by the Transportation and Packaging Section of the Agency's System Support Equipment Laboratory, can put 30,000 pounds through a rotary shake action which provides up to 90,000 pounds gross vibrating force. The Army Ballistic Missile Agency is

an element of the Army Ordnance Missile Command.

One of the largest shake tables in operation, the facility is approximately 10 feet in width and can accommodate vehicles with wheel bases up to 50 feet.

Controlled vibration provides two kinds of information to missile technicians. Measurements taken by accelerometers assist in determining the best position for recording devices during other tests, and strain gages measure stress at selected points in tested structure to assist in detecting

deficiencies.

The table has been used in the testing of large missile components, ground support vehicles, and packaging containers.

"The shake table is not a fatigue test machine," explains Robert Jones, chief of the Laboratory's Shake Table Unit. "We don't ordinarily test something until it is completely worn out. Instead, the table is used primarily for preliminary testing to determine basic characteristics of an item. This gives us an idea of what to expect during further testing."

An item under test may remain on the table for several days, undergoing numerous short periods of vibration. Actual test time usually does not exceed several hours.

Construction of the facility began two years ago. The initial concept and parts were provided by an industrial supplier, Shake Table Unit personnel added design modifications to increase the facility's capacities. In its present form, the table has been operating for about five months. As modified, it is highly versatile and can be adjusted to fit a wide variety of items.

The table is driven by a reciprocating gas-driven industrial engine through gear boxes and line shafting to adjustable eccentric cams. These cams may be set to rotate in or out of phase as desired and can perform from 1 to 25 rotations per second. In throw they are variable in eight increments from one sixty-fourth of an inch to one inch inclusive.



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## Dollar Goal Reached By Military in AOMC AER-ARS Fund Drive

In the Army Emergency Relief-Army Relief Fund campaign which ends on July 31, the Army Ordnance Missile Command has reached 100 per cent of the dollar goal.

The campaign committee hopes to exceed this figure when the officers and enlisted men who have not yet contributed to this campaign place their "fair share," the suggested donation which the committee worked out on a pro rata basis. Maj. Andrew Draper is drive chairman.

The second highest contributor is Redstone Arsenal which has attained 53 per cent of the goal. Third is the Ordnance Guided

Missile School which has reached 48 per cent of the goal. The Army Rocket and Guided Missile Agency has collected 42 per cent of its goal and the Army Ballistic Missile Agency 37 per cent.

The Joint Fund Campaign is aiming at an over-all Army total of \$600,000 and throughout the Army the campaign started May 1.

The money collected is used for Army personnel or their families when financial assistance is needed in emergencies beyond the ability of the individual to meet.

Throughout the Army last year Emergency Relief provided \$4.5 million in assistance to nearly 40,000 members of the Army or their dependents. The Army Relief Society meets the urgent needs of widows and orphans of Army personnel.

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**FOR SALE** — 2 year old home, 3 bedrooms, den, living and dining room, carpeting, carport, about 1750 sq. ft., \$1500 down, call Decatur EL 3-5245 or see at 1710 Penny Lane, Decatur. 1tc

**FOR SALE** — 1951 Plymouth Cranbrook, radio, heater, turn indicator, windshield washer, w.w. tires, runs and drives good. \$240.00. Phone JE 9-1572. 1tc

**FOR SALE** — 1954 Pontiac Chieftain, radio, heater, Hydramatic. Call Redstone extension 3782 or JE 4-7311 after 5 p.m. Ask for Mr. Hugo. 1tp

**FOR SALE** — House trailer, 33 ft, 1953 model, "Prairie Schooner". All aluminum. Excellent condition, 14" TV included. Price \$1495.00. Arsenal ext. 6289. After 1700 hours call JE 6-0865. 1tp

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**COMMERCIAL** free lance photographer has limited opening for additional accounts. Studio and on location work. For further information phone Photographer, JE 4-4701 or write c/o P. O. Box 346, Huntsville. 7-22p

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**FOR SALE** — One 1959 Lone Star Fiberglass boat with Mastcraft tilt type trailer and one 1958 Forty-Five (45) H.P. Electric start motor, complete with skis, rope, and life jackets. \$1250.00. Call Spivey, RSA, Ext. 4186. 1tp

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**AUCTION SALE**—Our next auction sale will be held Friday night, July 17, 7:30. There will be plenty of good used furniture and appliances and other useful items. Prizes given all during sale. (Use your cents to save dollars). Warehouse Sales Co., 5013 Governor Drive, Phone JE 6-2103. ttc

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## Lt. Ben J. Risse Is Assigned at ARGMA

Lt. Ben J. Risse, has been assigned with the Army Rocket and Guided Missile Agency. A 1958 aeronautical engineering graduate of Georgia Institute of Technology, Lt. Risse was a civilian employee of the Army Rocket and Guided Missile Agency prior to entering the Army in February 1959. He is a member of the Institute of Aeronautical Sciences and Lambda Chi Alpha Fraternity. Lt. and Mrs. Risse, the former Sandra Jean Hanley, daughter of Mrs. Jerry Lewis of 2080 Rd., Atlanta, Ga., have one daughter, Rolly Lynn, 23 months old.

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# The Judge Advocate Advises



## TRAFFIC ACCIDENT REPORTS

Private William Penn, a legal resident of Pennsylvania, of course, but stationed at Redstone Arsenal, is the owner of a sports car proudly displaying Pennsylvania license plates. Private Penn is the holder of a valid driver's license issued by the Commonwealth of Pennsylvania.

A few weeks ago, while driving in downtown Huntsville, Penn was sideswiped by Mrs. I. M. Wrong. Both cars suffered extensive damage. Penn immediately filed a claim with Mrs. Wrong's insurance company, but did nothing else concerning the accident. A few days ago, Penn was surprised to receive a notice from the State of Alabama that he had failed to file a report of the accident as required by Alabama law and that, therefore, his driving privileges in Alabama were being suspended until a proper report was filed. Penn immediately came to see a legal assistance officer and demanded to know why his "rights" were being violated.

### State Has Right

What Private Penn did not know is that the State of Alabama and her forty-eight sister states have the right and authority to make and enforce reasonable regulations concerning the use of their highways, including the right to require reports of any accidents which occur. The reporting of accidents enables the state to determine which drivers are consistently involved in accidents; which roads, by reason of the frequency of accidents occurring on them, may be more dangerous than others, and which drivers do not have liability insurance or are not otherwise financially capable of paying for any damage they may cause.

The report required by the State of Alabama must be filed within ten days of any accident on the streets or highways of Alabama in which damage to the property of any person exceeds \$50.00 or in which ANY personal injury or death is inflicted irrespective of property damage.

The reporting requirement applies to both residents and non-residents of Alabama regardless of the state in which their cars may be licensed, or their drivers' licenses may have been issued; or whether they are in military service. It applies to any drivers involved in accidents regardless of who may be at fault.

The report must be filed, for example, even if only 1 car is involved as when a car runs off the road or where only property other than vehicles is damaged. The driver of a parked car is required to make a report if his car is damaged. If the operator of a vehicle involved in an accident is injured and cannot file the report, the owner, if another per-

son, must file it.  
**Failure to Report**

The Alabama driving privileges of any person who fails to file the report within ten days may be suspended until the report is filed and for an additional period of thirty days and such person

may also be subject to a fine of \$25.00. Any person who files a report containing information which he knows to be false is subject to a fine of \$1,000.00, imprisonment for one year, or both.

Considering the present cost of car repairs and the serious penalties involved for failing to report an accident, almost every accident should be reported except those of extremely minor nature. The necessary forms (SR-13 and SR-21) may be obtained at the Alabama Highway Patrol Office in Huntsville, but must be mailed to: Drivers License Division, Safety Responsibility Unit, P. O. Box 1471, Montgomery, Alabama.

### Insurance Not Required

As indicated above, one of the purposes of requiring the report, and perhaps the primary one, is to enable the state to determine which drivers are financially responsible, that is, able to pay for any damage they may cause.

The State of Alabama does not require that all drivers carry liability insurance.

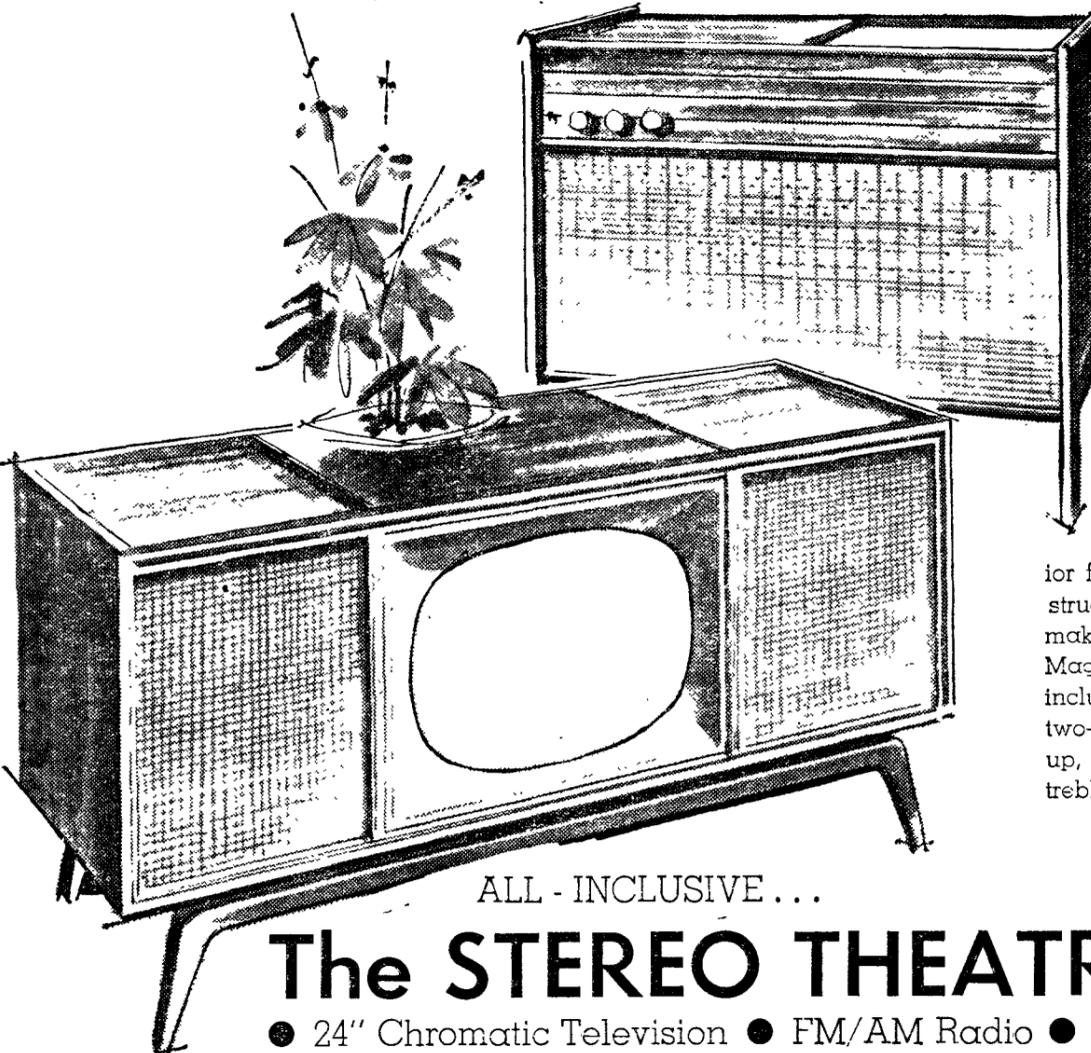
### But Insurance Is Wise

However, if any person is involved in an accident which results in a valid claim against him, he must show that he has a current liability policy with coverage of at least \$5,000.00 - \$10,000.00 for personal injury and \$5,000.00 for property damage. If he has

no such policy, he must file with state authorities a certified check or cash in TWICE the amount of the claim involved. If he fails to show his financial responsibility by one of these methods, his driving privileges may be suspended or revoked until the claim is paid or otherwise settled.

As is indicated from the foregoing, the maintenance of adequate automobile liability insurance is desirable, entirely aside from the post requirement therefor. However, in the final analysis, the one practice which will contribute most to avoiding all the difficulties herein discussed is that of safe and careful driving.

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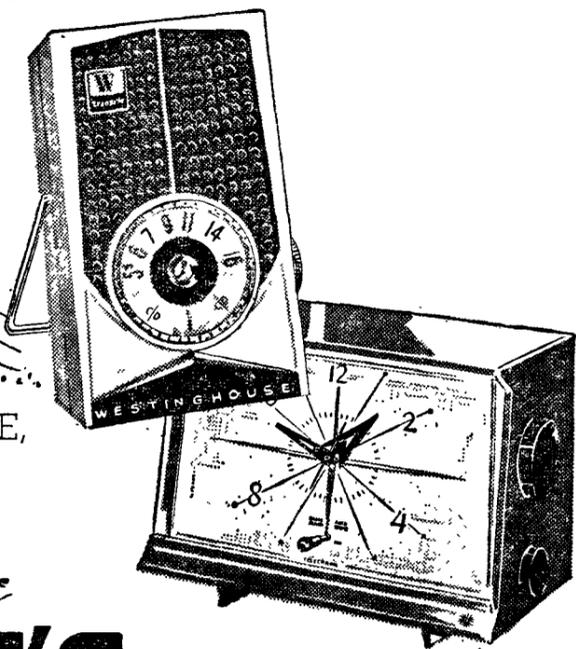
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**NAUTICAL MISS** — Bikini-clad Sonia Furio, a Mexican actress, poses aboard a yacht in the Mediterranean while attending the 1959 Cannes Film Festival.



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