

# The Redstone Rocket

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## MEN ON MOON WILL RECEIVE SUPPLIES VIA LUNAR FERRY

## SCIENTIFIC ADVISORS VISIT FOR BRIEFING

Nine members of the Secretary of Defense's Scientific Advisory Committee and eight members of the Office of the Director of Defense Research and Engineering, Department of Defense, were official visitors to the Army Ordnance Missile Command Thursday and Friday of last week.

The groups met here to receive an orientation on the Army's progress in the missile and space fields, including its activities under direction of the Advanced Research Projects Agency (Department of Defense) and the National Aeronautics and Space Administration.

Briefings by top AOMC officials covered advances in the state of the art in various fields and indicated the directions in which further advances may be expected in the future.

Members of the Scientific Advisory Committee visiting Redstone included: Dr. John Dunning, Dean of Engineering, Columbia University, New York, N. Y.; Dr. Darol K. Froman, Technical Associate Director, Los Alamos Scientific Laboratory, University of California, Los Alamos, N.M.; William B. Graham (See SCIENTIFIC on Page 3)

## Lacrosse Contracts Awarded to Martin

The Department of the Army today announced the awarding of two contracts, totaling \$15,181,000, to the Martin Company of Orlando, Fla., for additional production of the LaCrosse missile and engineering services.

The contracts were awarded through the Birmingham Ordnance District, Birmingham, Ala.

LaCrosse Contracts awarded to Martin since January, 1959, total \$25,181,000, the Army said.

The LaCrosse, a battlefield missile which has unique capabilities to destroy point targets, was developed under cognizance of the Army Rocket and Guided Missile Agency at Redstone Arsenal, Ala. It was developed by Cornell Aeronautical Laboratory, Ithaca, N.Y., and has been in production since August, 1957, at the Martin plant in Orlando.

(See LACROSSE on Page 2)

TOKYO, Japan — Dr. Ernst Stuhlinger, U. S. Army missile-space scientist, last week described a lunar ferry which may be used in a few years to transport building equipment and materials, oxygen, water and food to the Moon.

The proposed ferry would use electric power supplied by a nuclear reactor. Several round trips to the Moon would be possible without refueling.

Dr. Stuhlinger directs the Research Projects Laboratory of the Army Ballistic Missile Agency, Huntsville, Ala. He spoke to the International Symposium on Rockets and Astronautics sponsored by the Japanese Rocket Society.

The moon ferry would not be manned. Dr. Stuhlinger pointed out that for transporting human passengers, chemically propelled rockets are better. They would cut the Earth-Moon travel time to 40 or 60 hours in order to reduce the hazard of exposure to cosmic radiation.

"Heavy freight loads," he explained, "would not suffer from radiation damage and longer" (See MEN ON MOON, Page 2)

## BRIG. GEN. COLBY FORMALLY OPENS AOMC CAFETERIA

Brig. Gen. J. M. Colby, deputy commanding general of the Army Ordnance Missile Command, opened the new AOMC headquarters building cafeteria with a brief talk and a ribbon cutting ceremony on May 28.

The cafeteria, housed in a new building which cost approximately \$200,000, has a capacity for comfortably serving 1000 people during the three-hour lunch period (staggered so that employees can be served without interrupting the flow of business in offices). The modern equipment added another \$57,000 to the cost of the building, a sum absorbed by the Army-Navy-Air Force Exchange Service which is a non-profit arm of the military establishment that serves Armed Forces personnel in the U. S. and overseas.

Two hundred can be seated in the cafeteria at one time. In addition there is a staff dining room.

This operation under the management of Mrs. Ella Conder, has sixteen employees.

The kitchen is equipped to prepare and store the food for the capacity crowds that are expected to use this service, according to George J. Geiger, general manager of the Exchange Service.

\* \* \*

## Army Scores With Monkey Flight; Manned Rocket Flight Foreseen

### ABLE AND BAKER UNDERGO MORE LAB EVALUATION

\* \* \* \* \*

The celebrated space monkeys, Able and Baker, have wound up their public appearances and have been returned to Army and Navy medical laboratories for exhaustive studies which will reveal fur-

For more stories and pictures on the space experiments turn to pages 4 and 5.

ther data on the effects of their historic flight through outer space.

The pair, launched in ABMA's reliable Jupiter early Thursday from Cape Canaveral, became the first animals to survive a trip through space. They were recovered, along with other biological experiments flown by the Army, 92 minutes after liftoff from Cape Canaveral.

The Jupiter carried Able and Baker over a trajectory of some 1965 space miles, with maximum altitude of over 300 miles. They reentered the atmosphere at a velocity of 10,000 miles an hour, experiencing 38 times the normal pull of gravity plus a weightless period of some nine minutes.

Despite these tremendous stresses, the animals were recovered in perfect condition. Scientists call the experiment a major step toward manned rocket flight.

The experiments, sponsored by the National Aeronautics and Space Administration, were carried out by the Surgeons General of the Army and Navy in cooperation with the Army Ordnance Missile Command. ABMA developed and launched the Jupiter missile and provided most of the special hardware for the experiments. Local project officers were Maj. Gerald Champlin, chief of the AOMC Bioastronautics Unit, and George Pedigo of the ABMA Structures and Mechanics Laboratory.

Able and Baker, after recovery by the Navy, met press photographers as they reached shore at San Juan, P. R., Friday. On Saturday they "starred" at a full dress press conference at NASA (See ABLE & BAKER, Page 2)



ENJOYS SNACK—One of the American-born rhesus monkeys which underwent training preparatory to flight of a selected specimen in a Jupiter missile nose cone, takes time out to enjoy a banana. The launching was sponsored by the National Aeronautics and Space Administration as part of its space program. Telemetry data on the experiment was received throughout the flight and the specimen was successfully recorded for further analysis.

## Jupiter, Recovery System Prove Reliability Again

The Army drew upon a wealth of experience in successfully carrying out the space research experiment with the Jupiter last week. Both the missile and the recovery system had been thoroughly tested and proven reliable.

The cone carried bio-medical experiments on a space available basis in support of NASA's space program. The Jupiter launch was a regularly scheduled event in the IRBM weapons development program.

The recovery gear employed in the test had functioned successfully in three out of four previous launchings by the Army.

The first missile nose cone recovered in the Free World after ballistic flight of long range was picked up by the Navy August 7, 1957. This was transported by a Army Jupiter C rocket.

In May and July, 1958, the Navy recovered for the Army two full-scale Jupiter IRBM nose cones in undamaged condition after they were launched from the Atlantic Missile Range. They traveled about 1,500 miles.

For the current test, the carrier vehicle was the Army-developed Jupiter. The missile has been launched 20 times and achieved an extraordinary record of reliability and accuracy.

The success of earlier recoveries established that the Army had developed a technique to protect a nuclear warhead from pre-

mature destruction when it reenters earth's atmosphere from outer space at a velocity of about 10,000 miles per hour. The temperature of 5,000 degrees Fahrenheit would otherwise destroy the cone before it reached the target area.

The nose cone for the Jupiter (See JUPITER on Page 3)

## ... And the Admiral Said to the General:

After the successful recovery of the Jupiter nose cone with the two monkey passengers alive last Thursday, Brig. Gen. J. A. Barclay sent the following message to the commander of the Caribbean Sea Frontier:

Dear General:  
"To the world's champion outfielders, our appreciation and thanks to all participants for your usual superb job in the recovery operation. You have again teamed with us in another free world first—the recovery of animal specimens after a journey to outer space and re-entry into the atmosphere. Congratulations."  
The reply from Admiral Gal-

lery:  
"All outfielders appreciate your message but say playing outfield against you guys is easy. Apparently in this league you don't follow old baseball rule of hit 'em where they ain't."



RIBBON CUTTING—Brig. Gen. J. M. Colby (right), deputy commander of the Ordnance Missile Command, cuts the ribbon leading the serving line in the new AOMC Headquarters cafeteria which opened last week. At left is Col. Owen T. McCloskey, commander of Redstone Arsenal. Behind the two officers among the interested spectators at the ceremony is Mrs. Marguerite Piazza, a member of the Chief of Staff's office.

# The Redstone Rocket

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## MEN ON MOON

(Continued From Page 1)

transfer times. It is quite conceivable that building material, equipment, instrumentation, food, water and oxygen will be hauled to the Moon by low-thrust vehicles needing several weeks for the one-way trip which offer a pay-load-to-weight ratio superior by a very sizeable fraction to that of high thrust vehicles."

He mentioned recent encouraging progress in the development of electrical propulsion systems. Laboratory studies using models indicate the feasibility of two systems employing electro-static fields to accelerate ions.

"Judging from the progress of space technology in the past few years," he said, "it may be anticipated that a lunar ferry for freight transport will be of use from 1965-1970 on."

Either solar or nuclear energy can be used as the main source of electrical energy.

The vehicle described by Dr. Stuhlinger would use a nuclear reactor located some distance from the body of the vehicle as a measure of protection against nuclear radiation. The ferry would have a payload capacity of 50 tons. The total weight of the vehicle would be 84 tons.

Ferry components would be assembled in satellite orbit some 375 miles above the Earth. The propellant and payload will be added, then the ship could depart from its Earth orbit in a spiraling path.

Elements of the ferry include the nuclear reactor, shielded and located on the end of a long

stem; a radiation cooler, ion thrust chamber, Earth-sensing and Moon-sensing antennas, a turbine and a generator, and a lunar landing vehicle shielded from radiation and sun heat to prevent evaporation of fuel.

Dr. Stuhlinger said the Moon ferry would not get closer than several hundred miles to the Moon's surface. At that point a lunar landing vehicle would be detached from the ferry. The ferry would return to its orbit about the Earth to pick up a new payload, or lunar landing vehicle.

The 50-ton landing vehicle, like a shuttle bus, would carry about 15 tons of payload to the Moon's surface. Three and a half tons of hydrogen and 26 tons of liquid oxygen would be needed to propel the landing ship after it separated from the ferry. Two engines of 15,000 pounds thrust each would provide ample power for landing maneuver, according to Dr. Stuhlinger.

A few feet above the Moon's surface the landing vehicle would release the 15-ton payload. The engines and the almost-empty fuel tanks would then land on the surface at a point where no damage could result in event the residual propellant ignited upon impact. Guidance and control systems in the payload package could be re-used.

"When the ferry has returned to its home orbit, its propellant is replenished, a new payload attached, and a new transfer operation can begin. The nuclear reactor would be shut down during this operation," Dr. Stuhlinger explained.

"If properly designed, the re-

## ABLE & BAKER

(Continued From Page 1)

headquarters in Washington. Army and Navy scientists said the animals' reaction during flight were "remarkably near normal."

Attending the Washington press conference from Huntsville were Brig. Gen. J. A. Barclay, ABMA Commander; Dr. Hans Gruene, deputy director of Missile Firing Lab; George Pedigo of Structure and Mechanics Lab; Dr. R. S. Young of Research Projects Lab. and Maj. Gerald Champlin of the Bioastronautics Unit, AOMC.

Able, the rhesus monkey, was taken for further study to the Walter Reed Army Institute of Research, Washington. Baker was taken to the Navy School of Aviation Medicine, Pensacola, Fla.

The four experiments were:

1. Monkey Able, a seven-pound American-born rhesus, carried in a 250-pound capsule. Sixteen channels of information were provided on this experiment; all but two of them worked satisfactorily.

2. Monkey Baker, a one-pound squirrel monkey similar to the experiment performed in December, 1958. Important scientific data were obtained about the physiological reactions of the monkey although recovery of the nose cone was unsuccessful. By electronic circuits, measurements were made on Monkey Baker of its respiration, body temperature, pressure within the capsule, and heart action.

3. Biological experiments, primarily for radiation studies, involving various cellular systems such as possessed by yeast, corn, mustard seeds, fruit fly larvae and human blood.

4. A mold spore and egg fertilization experiment to determine effects of space phenomena such as radiation and weightlessness on cell division and the fertilization process. This experiment was sponsored by the ABMA Research Projects Laboratory.

actor will provide power for a number of trips. Rather than refuel the reactor in orbit it may be advisable to replace it by a new unit. In this case the long stem which supports the reactor will be detached near the radiation cooler and disposed of along with the reactor itself.

"The ferry's guidance will be achieved by inertial means similar to those employed in ballistic missiles up to the Moon's vicinity. The maneuvers in that area will be supervised and assisted by radio control from a manned lunar station. The descent and landing of the lunar vehicle will depend entirely upon radio control from the lunar station."



**COKES AND CANDLELIGHT**—Soldier of the Month SP4 Charles R. Merritt of Det. B, Army Ballistic Missile Agency, and Mrs. Merritt enjoy Cokes, candlelight and dancing at the Legion Club on South Memorial Parkway during the three day pass he was awarded as the Post Soldier of the Month. The couple were guests at the Holiday Inn during the recent week-end sponsored jointly by the Chamber of Commerce and the Kiwanis Club. The Army awards the soldier of the month a three-day-pass, cash and 30 days free from company duty. SP4 Merritt is an industrial engineer assigned in the Program and Budget Branch of the Development Operations Division, ABMA.

## LACROSSE

(Continued From Page 1)

An extensive testing program has been underway since that time by both Army and Marine troops in firings at Ft. Bliss, Texas, and White Sands Missile Range, N.M. The Army has announced that two LaCrosse battalions will be activated at Ft. Sill, Okla., by the end of June

1959, to deploy the weapon.

The LaCrosse has a nuclear capability.

The developing agency, ARGMA, is an element of the Army Ordnance Missile Command, which has its headquarters at Redstone Arsenal.

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was designed and developed by the Army Ballistic Missile Agency, Huntsville, Alabama, the organization responsible for the entire Jupiter missile system. The Cincinnati Testing and Research Laboratories, Cincinnati, Ohio, assisted in the development work.

ABMA is an element of the U. S. Army Ordnance Missile Command, which in addition to its primary mission of development of Army ballistic missiles, conducts space missions for the National Aeronautics and Space Administration and for the Advanced Projects Agency, Department of Defense.

For last week's experiment the Navy team included two destroyer escorts, the USS Snowden and the USS Brough, a fleet tug, the USS ATF Kiowa which effected the actual recovery, and two P2V aircraft.

The ships took up positions in the impact area prior to the firing of the Jupiter in order to observe the re-entry of the missile

and its cone into the atmosphere. The airplanes helped guide the USS Kiowa to the point at which the cone plunged into the Atlantic.

The intricate recovery gear included a large colored balloon, dye marker, signal lights and a radio transmitter to help the waiting ships locate the cone. A capsule of shark repellent was released to protect Navy "frogmen" who dove into the ocean to secure hoisting lines to the cone suspended beneath the balloon.

Air bottles inside the nose cone inflated the 5-foot orange and blue balloon which carried a small light on top as a beacon.

The USS Kiowa carried special gear designed by ABMA engineers by means of which the nose cone, its passengers and biological experiments were recovered from the sea for return to the mainland via San Juan, Puerto Rico, for study.

Jupiter is in production at the Michigan Ordnance Missile Plant, operated by the Chrysler Corporation for the Army.

The basic missile has been employed in two space projects, the

(Continued From Page 1)

am, Associated Head, Engineering Division, RAND Corporation, Santa Monica, Calif.; Edward E. Harriman, Executive Secretary, Office of Director of Guided Missiles, Office Secretary of Defense; Dr. Charles C. Lauritsen, professor of physics, California Institute of Technology, Pasadena, Calif.; Dr. Clark B. Millikan, Director of Guggenheim Aeronautical Labs, Cal. Tech. (Committee Chairman); Dr. J. Barkley Rosser, professor of mathematics, Cornell University, Ithaca, N. Y.; Carroll L. Zimmerman, Chief Scientist, Headquarters Strategic Air Command, Offutt Air Force Base, Neb.; and Dr. Carl Overhage, Director, Lincoln Laboratories, Massachusetts Institute of Technology, Cambridge, Mass.

Members of the Research and Engineering group included: Maj. Gen. William W. Dick, Jr., Director of Special Weapons, Dept. of Army; John B. Macauley, Deputy Director of Defense R&E; Howard A. Wilcox, Deputy Director of Defense R&E; S. S. Sorgen, of ODDR&E; E. F. Sweetser, of the Office of the Director of Guided Missiles, Dept. of Defense; Col. A. W. Prentiss, of ODDR&E; Lt. Gen. A. G. Trudeau, Chief of Research and Development, Dept. of the Army; and Dr. E. G. Witting, Deputy Director of R&D, Dept. of the Army.

Both groups were welcomed to Redstone Arsenal by Maj. Gen. J. B. Medaris, Commanding General, A O M C. Orientation briefings were given by the following: Rudolph H. Schlidt, on Redstone missile; Konrad H.

Pioneer III and IV deep space probes launched for the National Aeronautics and Space Administration. Pioneer IV became the first made-in-the-U.S.A. satellite of the Sun after its launching March 3, 1959.

Dannenberg, on Jupiter; James B. Bramlett, on Pershing; Lt. Col. E. M. Dooley, on Nike-Zeus; Dr. E. D. Geissler, nose cones; Dr. William R. Lucas, on nose cone materials; Dr. Ralph Swann, on solid propulsion; Gerhard Heller, on liquid propulsion; William Mrazek, on structures and metal parts technology; and Dr. Walter Haeussermann, on guidance and

control. Overall discussion were led by Dr. Wernher Von Braun, Director of Development Operations, ABMA, and Gen. Medaris.

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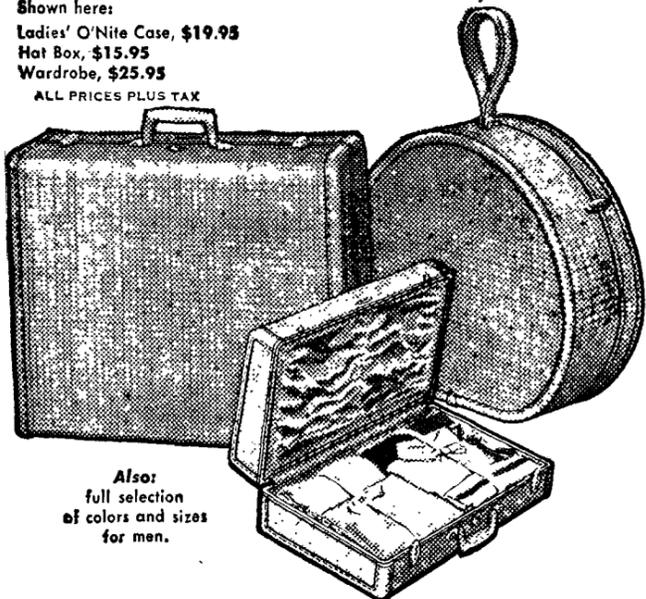
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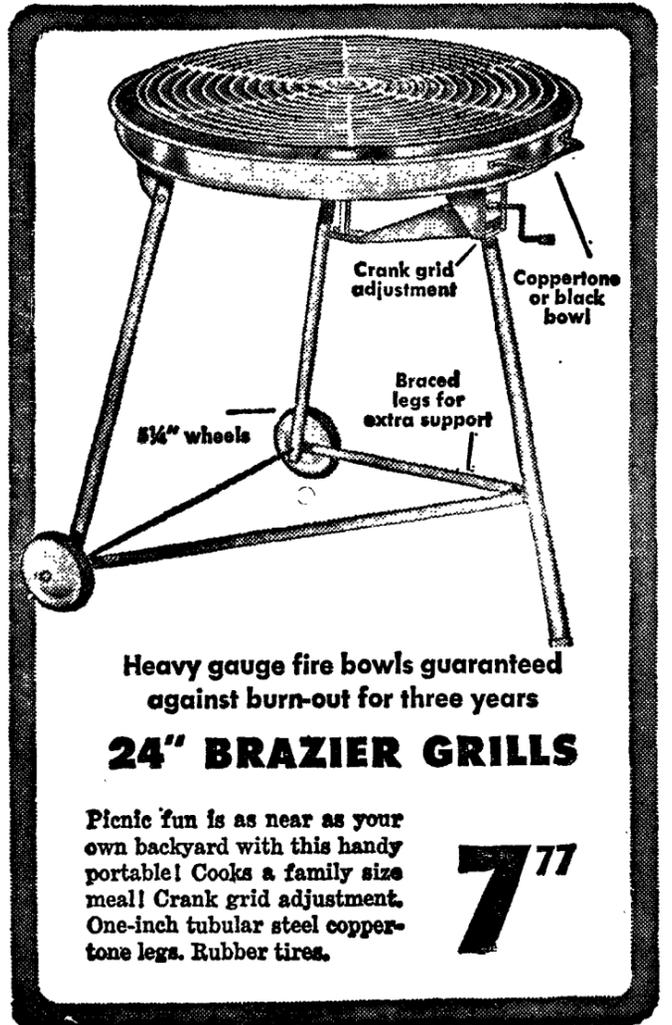
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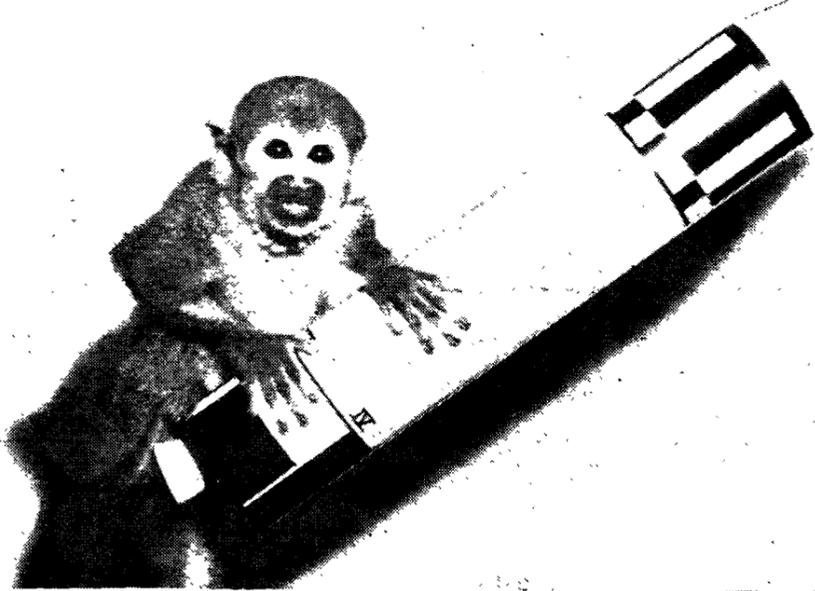
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**BRING ME BACK ALIVE, BY JUPITER!**—A South American squirrel monkey perches on a model of the Army's Jupiter missile prior to this morning's successful recovery of a Jupiter missile nose cone. The experiment was carried out under the direction of the National Aeronautics and Space Administration as part of the National space program. In addition to recovery, the experiment provided valuable telemetry data throughout the flight.

\* \* \* \* \*

# Here Are Details on Army's Rhesus Monkey Experiment

The United States successfully launched a Jupiter Intermediate range ballistic missile last week. The primary mission was the recovery of the heat protected nose cone, a secondary mission was a four-part bio-medical experiment housed in the nose cone. The four bio-medical research experiments included in the project did not interfere with the primary mission of the firing. They were conducted in support of the Space Program of the National Aeronautics and Space Administration.

Two animals — an American-born rhesus monkey and a squirrel monkey — were part of the experiment. In addition, studies

were made on yeast, corn, mustard seeds, fruit fly larvae, human blood, mold spore, and fish eggs.

The American-born rhesus monkey, Monkey Able, was trained to perform physical movements throughout its flight over the Atlantic.

This marked the first time this type of experiment had been attempted during an extended gravity-free or weightless state.

The experiment was designed to provide information to be used in studying the effects of rocket flight upon human performance such as the psychological effects of noise, acceleration, deceleration, vibration, rotation and gra-

vity-free state encountered in rocket-propelled vehicles.

The Jupiter missile was programmed for about 1500 statute miles over the Atlantic Missile Range at a maximum altitude of more than 300 miles. This trajectory would provide a period of weightlessness of about nine minutes.

The experiment was carried out by the Army Medical Service and the Army Ballistic Missile Agency, Army Ordnance Missile Command. ABMA, developer of the Jupiter, launched the missile. The scientific experiments were conducted on a space-available basis, with no interference with the normal weapons development program.

The data obtained from the scientific experiments will be provided to the bio-medical programs of NASA and the military services. Other Government agencies and educational institutions involved in bio-medical research will also receive the analyzed data upon request.

Army doctors trained Monkey Able over a period of several months.

The 7-pound animal was clothed in a special space suit and helmet to protect it from the effects of the flight and to allow collection and transmission of data on its reactions.

A capsule weighing about 250 pounds contained the monkey and provided all of the essentials of life for it during the historic flight.

As a behavioral response, the animal was trained to depress

and release a small control lever or hand switch—similar to a telegraph key — with his hand throughout the duration of the flight which included velocities of up to nearly 10,000 miles per hour.

A small red light located within the compartment signalled for the response. The light was set to flash once per second. Very slight pressure was required to operate the key.

Small headphones within the "space helmet" were worn by Monkey Able and the click of the small lever which the animal depressed was amplified and fed into the headphones to assure him of his correct response.

Sixteen channels of information on the experiment alone were to be telemetered to the earth during the flight. These included such items as electrocardiogram, electromyogram (muscular reaction), heart sounds, pulse velocity from large blood vessels, body temperature, behavioral response, respiration rate, and temperature, pressure and relative humidity inside the capsule.

The Army previously launched a squirrel monkey over IRBM range in December 1958. Important scientific data were obtained about the physiological reactions of the monkey, although recovery of the nose cone was unsuccessful.

Today's test is expected to have great significance in connection with future human rocket travel.

The American-born rhesus monkey was chosen for two primary reasons: (1) it was within the size limitation and was of sufficiently high order of primate to provide data which can be successfully applied to human beings; (2) the U. S. has available a large body of information on the rhesus, resulting from more than eight years of experimentation with the species at Walter Reed Army Institute of Research.

The latter consideration was most important for such an undertaking must have a base line" for comparison. This type of subject and the techniques used in this experiment have been employed in much basic research at Walter Reed since 1950.

The monkey rested during the flight in a special contoured fiberglass bed. The animal was in a semi-supine position, face-down during the launching phase. During the critical reentry phase, its back was again toward the forward movement of the nose cone in order to provide maximum protection from rapid deceleration. The control lever was within reach of its fingers so that it could be pressed and released throughout the flight of some 15 minutes.

A colony of eight monkeys was trained for the experiments. The animal actually flown was not selected until three days before the launching in order to take full advantage of last minute testing and conditioning. The final selection was based upon careful records which have been kept during the months of training and upon the opinion of the doctors.

The animals, all under two years of age, were trained, conditioned and subjected to environmental tests at the Walter Reed Army Institute of Research, in Washington, D. C.; the Army Medical Research Laboratory, Ft. Knox, Ky.; and the Army Ordnance Missile Command, Huntsville, Ala.

All operations were conducted according to established rules for animal care.

Here are Details — GAL 2 ... In medical and missile test laboratories the specimens were subjected to most of the conditions of actual flight simulated to varying degrees. The one major condition for which no test could be devised was weightlessness. The monkey would experience this state for about nine minutes.

The animals underwent more than six times the normal pull of gravity in a centrifuge without ill effects. Another successful test continuously changed the body orientation with respect to the vertical. Restraint periods were also conducted to determine the possible psychological effects of confinement and curtailment of movement.

The animals were kept in space capsules at Huntsville for periods (See DETAILS on Page 5)

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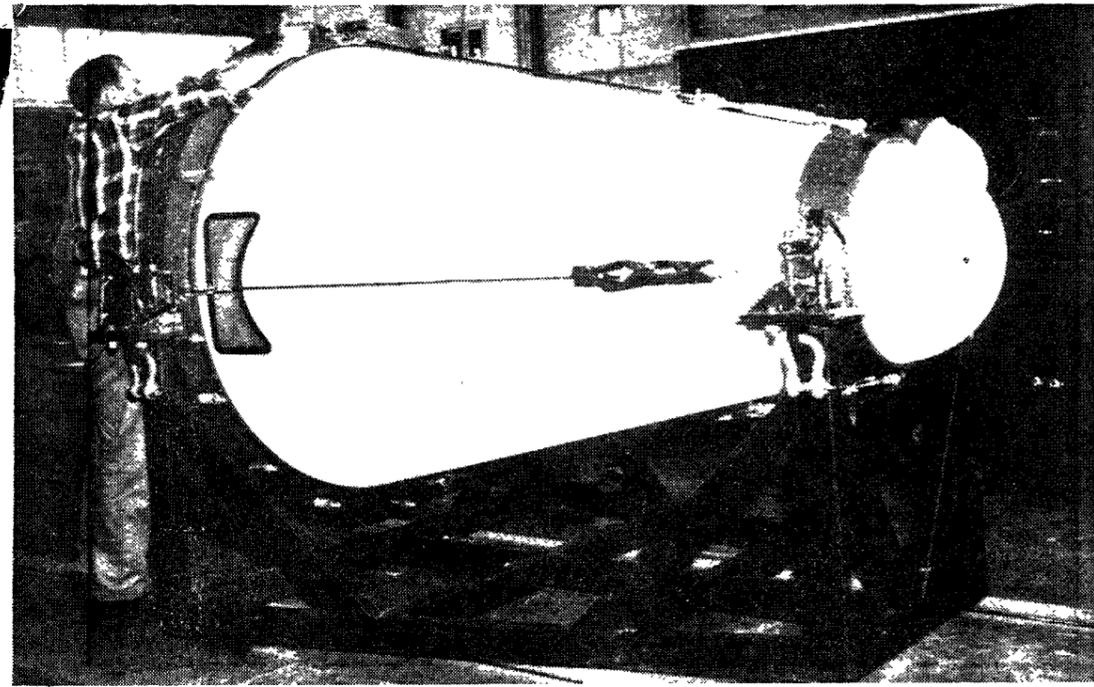
New SUBJECTS to be offered include: Engineering and Missile Shorthand — Charm and Personality Development — (Beginning - Intermediate - Advanced, Shorthand) and Many Other Business Subjects.

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**JUPITER IS CHECKED OUT**—The Jupiter missile nose cone which carried two monkeys and other bio-medical experiments into outer space and was recovered from the Atlantic Ocean undergoes checkout procedures in a hangar at the Army Ballistic Missile Agency's Missile Firing Laboratory, Cape Canaveral, Florida.

**RECOVERED NOSE CONE RETURNED TO HUNTSVILLE**

The Army Jupiter IRBM nose cone which safely returned two monkeys from outer space last week arrived at the Army Ballistic Missile Agency this afternoon. The cone was flown to Huntsville from San Juan, P. R., by the U. S. Air Force. The Navy recovered the cone several hundred miles from shore early Thursday, 92 minutes after the missile was launched from Cape Canaveral. A Memphis, Tenn., Air Reserve unit, the 701st Squadron of the 445th Troop Carrier Wing, returned the big cone to Huntsville in a C-123 aircraft. The Memphis group volunteered for the assignment as a part of its normal Reserve training program.

The pilot-instructor of the plane was Maj. Dave Burrow. Other crew members included 1st Lt. William Tucker, pilot; Capt. William C. Dewey, navigator; and S/Sgt. Tom Rainey, crew chief. The Jupiter cone was taken to the ABMA Structures and Mechanics Laboratory for evaluation.

**Nose Cone Carried Two Experiments Besides Monkeys**

One of the four experiments launched by the Army last week consisted of four tiny capsules — two containing mold spores sensitive to radiation and two containing egg fertilization experiments. The eggs and sperm of the sea urchin were encased in three separate vials within 10-ounce aluminum cylinders in which the fertilization reaction was triggered before and during peak acceleration of the giant rocket's nose cone.

The cylinders, 1½ inches in diameter and 5 inches long, were rushed, upon recovery, to San Juan, Puerto Rico, for scientists of the Army Ballistic Missile Agency's Research Projects Laboratory to evaluate the results of this pioneer space biology study. Data will be provided to NASA and the military services. Other government agencies and educational institutions involved in biomedical research will also receive the data on request.

The sperm and eggs within each vial mixed during the rocket's acceleration. Scientists hope to determine the effect of space phenomena such as cosmic rays, weightlessness and temperature on the fertilized eggs; on the fertilization process in a weightless condition; and on cell division.

Each of the vials contained sea urchin eggs in sea water. One vial contained pre-fertilized eggs. Another held unfertilized eggs which were fertilized by a triggering mechanism during acceleration. A third held unfertilized eggs which were activated before launch and in which the fertilization process was stopped by a fixative triggered during deceleration, as the nose cone reentered Earth's atmosphere.

Prior to the test flight of the biological capsule experiments, scientists from the Research Projects Laboratory at ABMA conducted temperature and pressure tests as well as simultaneous control experiments on land at the Missile Firing Laboratory at Cape

Canaveral, Fla. The study of the effects of space travel on egg fertilization — the effect of weightlessness, cosmic radiation and stress — may enable scientists to gain valuable information about space flight.

The study of the effect of weightlessness on the basic biological phenomenon of fertilization and subsequent cell division was designed to yield information concerning this effect on several aspects of cellular activity.

**COSMIC-RAY EFFECTS ON MATTER**

Another part of the biomedical experiments consisted of five cylinders requiring no power or temperature considerations, or special handling and containing the following matter:

**BLOOD.** Because space vehicles may be used to transport critical medical supplies such as whole blood, a sample of human blood was carried on this flight. It was hoped that this test will enable us to determine the effects of gravity forces and radiation upon whole blood.

**COSMIC-RAY EFFECTS ON OILION TISSUE AND SEEDS.** Purple and white onions were placed in one cylinder. After the flight they were to be checked for radiation reaction in relation to germinative ability. Information to be gained from this flight will demonstrate the interaction of cosmic rays and biological systems; provide information on the biologic effects on animal tissue; and provide experience which can be applied in future experiments.

**COSMIC-RAY EFFECTS ON DROSOPHILA.** Biologic effects of cosmic radiation were studied using the pupae of the fruit fly. Information to be gained from this experiment will give information on survivors who will be checked for radiation damage. Survivors will also be bred to determine probable genetic effects.

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**Congratulations**

Following are messages of congratulations to AOMC and ABMA in connection with last Thursday's Jupiter firing. Maj. Gen. J. B. Medaris, AOMC commanding general, wrote Brig Gen. J. A. Barclay, ABMA commander, as follows:  
"You know that it is a real pleasure for me to send my heartiest congratulations and warmest of the Army Ballistic Missile Agency on the remarkable successes achieved by the last Jupiter flight, including another outstanding first for an outstanding team."

"Once more ABMA's performance has focused the attention of the entire nation on the outstanding capabilities of the Army in more advanced fields of missile and space technology. These continuing successes bring great credit to each individual concerned, to your Agency, to this Command, and to the Army."

"That your achievements are fully recognized in other quarters is attested to by the congratulatory telegrams from Dr. Glennan and Gen. Trudeau of which I am attaching a copy.

"With determination, thoroughness, and resolute courage in the

face of many attacks, your organization can be proud of its progress and of its continuing achievements."

Dr. Keith Glennan, administrator of the National Aeronautics and Space Administration, telegraphed Gen. Medaris:

"Congratulations. Your team of expert missileers have once again demonstrated excellence and proficiency in their tasks. On behalf of NASA, I extend my warmest appreciation for a job well done."

From Lt. Gen. A. G. Trudeau, chief of Army Research and Development, Gen. Medaris received the following:

"Congratulations to you and your command on the most successful Jupiter firing to date. This firing is further proof of the accuracy and reliability of Jupiter. The recovery of the nose cone and the success of the associated experiments will contribute greatly to our knowledge of re-entry phenomena and space biomedicine."

T. F. Morrow, vice president of the Chrysler Corp. in charge of defense products, wired Gen. Medaris: "Congratulations to you and your organization on this latest great accomplishment for the Army and the country."

**DETAILS**

(Continued From Page 4)

of several hours without discomfort.

The initial phase of training was in the operation of a modified telegraph key. At first each monkey was given six to eight half-hour training sessions daily, alternating with half-hours of rest. Over a period of weeks, these one-half hour sessions were progressively lengthened to an hour. Doctors reported that the lengthening of the session did not appreciably affect the response rate.

Other phases of training and testing were conducted at Ft. Knox, including restraint and discrimination tests. The latter consisted of standard tests to differentiate between primate species and to establish intelligence levels. At Huntsville, as the training continued, the environmental tests (simulation of missile flight conditions) were conducted.

The Army Ballistic Missile Agency built the capsule in which the monkey was contained and designed the electronic circuitry for the capsule which collected and transmitted the scientific data.

The 250-pound capsule is cylindrical with a diameter of 18 inches and a length of 41 inches. Its design provides all of the essentials for life and relative comfort.

The capsule has its own heat-

**SION FOR COSMIC RAY MEASUREMENT.** A cell suspension of yeast will be used to measure the biological effects of heavy penetration. The irradiated micro-organisms will show the specific effects of radiation by exhibiting a reduced rate of cell division.

**EFFECTS OF RADIATION ON SEEDS.** A capsule carried some corn in a sealed polyethylene pack, in an effort to determine the effects of cosmic rays on corn germination.

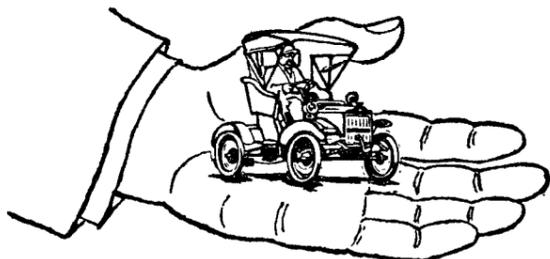
The studies are being conducted by the Army Medical Research Laboratory, Fort Knox, Kentucky.

ing and cooling systems and provides for two complete changes of air every minute. Systems were also provided for disposal of carbon dioxide and moisture. Bottles of high-compressed air carried in the capsule have the capacity of maintaining life until anticipated recovery.

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# Social News

## Mrs. Nelson and Mrs. Denoya Make High Bridge Scores

The bridge group of the Redstone Arsenal Officers Wives Club met Thursday for weekly competition with the following results: Party bridge, high, Mrs. William J. Nelson; second, Mrs. Wina Smith; third, Mrs. B. Niederer; low, Mrs. R. J. Brown. Duplicate bridge, Howell movement; first, Mrs. L. L. DeNoya, and Mrs. Ullman Reed; second, Mrs. Ben Keyserling and Mrs. Wells H. Gibbs. All members of the Wives Club are invited to participate in the activities of the bridge group. To make reservations for party bridge, call Mrs. Hal D. White, JE 9-1106, by Wednesday noon. Play is held at 10 a.m. on Thursdays at the Squirrel Hill Officers Club. Tomorrow the duplicate players will hold their charity master point game, and all are urged to participate. Play begins at 10 a.m., Squirrel Hill Officers Club.

## Wives Club Golfers Hold Blind Partner Tournament Today

Twelve golfers participated in competition for best poker hand for nine holes held Wednesday morning by the Golf Group of the Redstone Arsenal Officers Wives Club. First place for the event was tied between Mrs. R. L. Spragins and Mrs. R. O. Lehtonen. Beginners as well as regulars participated. Today the group is holding a Blind Partner Tournament for Nine Holes. Beginners as well as regulars are urged to participate in the Golf Group's events. The golfers meet weekly on Wednesdays at 9 a.m., Municipal Golf course.

Patronize the Rocket Advertiser

## Engineer Meeting Scheduled June 11

The Northeast Alabama Chapter of the Alabama Society Professional Engineers will meet at Dale's Restaurant, Memorial Parkway South, on June 11. Social hour is at 6:30 and dinner at 7:30. Mr. T. M. Francis, consulting engineer in Birmingham and chairman of the State Alabama Society Professional Engineers legislative committee, and Mr. H. O'Brien, consulting engineer and member of the ASPE legislative committee, will be present to discuss the new law on registration of professional engineers. Application forms for registration and membership in ASPE will be available at the meeting. The members invite registered professional engineers and engineers interested in registration to attend. Reservations may be made by calling Mr. C. E. Hammett or Mr. P. E. Redding at Arsenal extensions 2928 or 2969.

## Teenagers Invited To VFW Teen Dance

All teenagers are invited to the semiformal dance to be held Friday, June 5, at the Veteran's of Foreign War's Club on North Memorial Parkway by the VFW president, Vernon Drake. Dancing will begin in the ballroom of the Gentry-Ison Post 27-02 at 8 p.m. A floor show will feature members of the VFW Teen Town Club, under the direction of Mrs. Oliver Snow, the show's originator. Admission for the dance will be seventy-five cents for couples and fifty cents for stage. The dance will be chaperoned by Mr. and Mrs. Oliver Snow, Mr. and Mrs. Ed Kilgore, Mr. and Mrs. Fred Moffitt, Mrs. Benjamin Harbin, Jr., Clyde Smith, Jr., and other VFW and Auxiliary members.

## Little Theater Plans Summer Programs

Readings for parts in "The Moon is Blue," Huntsville Little Theater Summer production, will take place in the F.H. Avenue School auditorium on Wed., June 4 at 7:30 p.m. Season ticket memberships are valid throughout the summer. Newcomers must pay \$1 for summer dues. One does not have to be a member of the Little Theater to audition for a part.

## Officer Installation Is Scheduled Tues.

A sherry marking the installation of new officers for the Redstone Arsenal Officers Wives Club will be held on Tuesday, June 9 from 2 until 4 p.m. at the Squirrel Hill Officers Club. Reservations for the event must be made not later than noon June 5, by calling Mrs. M. A. Ashley, ext. 8256; Mrs. A. J. Woodard, ext. 7858; Mrs. P. W. Constance, JE 6-9986; Mrs. L. S. Pohl, JE 6-0806. Cancellations will be accepted until noon of June 8 by calling Mrs. E. W. Kreisler, ext. 8452.



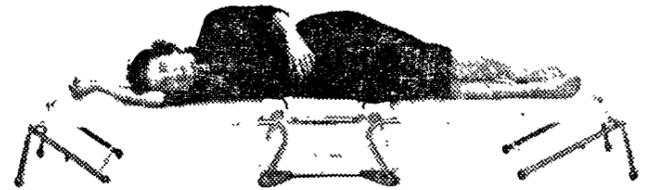
LAST PARTY OF SEASON—Girl Scout Troop 202 of Redstone Park held its last meeting of the season recently. Each member of the troop received second class badges and Girl Scout charm bracelets. The meeting broke up with refreshments served to the girls and their guests. Above (front row, left to right) are: Mrs. Samuel D. Minton, assistant leader, Irene Barker, Linda Wynn, Carol Sisson, Helen Marlock, Susan Teegarden, Jeanne Coker, Denys Duncan, and Mrs. James F. Shelton, troop leader. In the second row (left to right) are: Diane Whittaker, Pamela Kirkness, Gloria Smith, Karen Minton, Roslyn Fredericks, Linda Jeantet, Delores Searcy, and Gayle Schaffer. All the girls were members of the fifth grade last term.

Use a steam iron to raise the nap of a carpet that has been matted down by furniture legs. Hold the iron down near the nap, but do not touch it. Never wash furniture woods with hot, soapy water unless you are certain that the finish is water-proof and free from any surface breaks.

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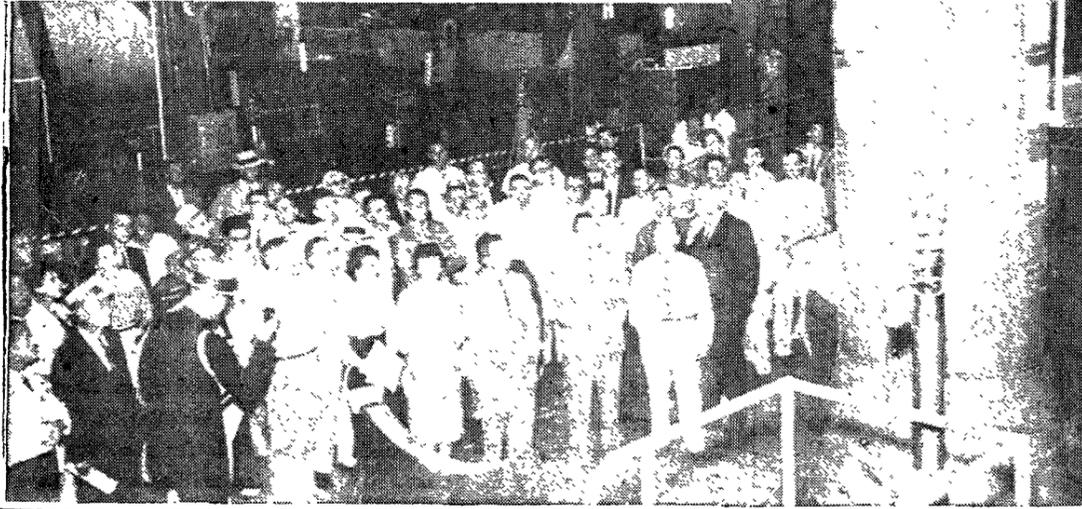
"On land or on sea?"

Mr. Thom's a land lubber (as well as a sea lubber) from way back. That's why he's designed these amphibious sailcloth casuals (They're equally at home walking the boardwalk or walking the plank.) Attention all able-bodied seamen: no need to bend over getting 'em on—they have elasticized laces. Black, Chino, Hot orange, Bravo blue. SCHOONERS from the new Mr. Thom collection, only **\$2.99**



**Thom McAn**  
PARKWAY CITY

**CHAMBER OF COMMERCE TOUR**—Eight members of the Huntsville-Madison County Chamber of Commerce toured Redstone Arsenal last Thursday. The group is shown above during a visit to the Fabrication and Assembly Engineering Laboratory of the Army Ballistic Missile Agency, as they inspect a metallic shroud similar to the one which covered the upper stages of the Juno II deep space probe rocket. The visitors were welcomed to the post by Col. H. S. Newhall, Commandant of the Ordnance Guided Missile School. At OGMS, they also were shown a video tape of the recent television program the School staged for the National Press Club in Washington.



**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.  
On Wednesday, Thursday and Friday, 3, 4, and 5 June, the First Annual RSA Team Champion of Champions Tournament will be conducted beginning at 1900 hrs. During this tournament, the lanes

must be closed to open bowlers from 1800 hours on these three days.

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

**POST GYMNASIUM**  
Closed indefinitely for repair (except Exercise Room, which is open from 1800 to 2100 hours)

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**Safety Scoreboard**

(As of 1 June)

Days since last civilian disabling injury	5
Our goal	60
Days since last military disabling injury	19
Our goal	30
Days since last contractor personnel disabling injury	50
Our goal	50
Days since last government motor vehicle accident	10
Our goal	30

**Births at Post Hospital**

Tracy William Allen, 7 lbs., 10 ozs, son of 2nd Lt. and Mrs. William L. Allen, born 11 May 1959.  
Brian Gill Davis, 7 lbs., 11 ozs., 13 May 1959, son of Sgt. David F. Davis and Mrs. Davis.  
Craig William King, 5 lbs., 11½ ozs., 15 May 1959, son of 2nd Lt. and Mrs. Jack E. King.  
Karen Sue Saxton, 7 lbs., 10½ ozs., 16 May 1959, daughter of Pvt. and Mrs. Donald R. Saxton.  
Cynthia Dawn Lindgren, 6 lbs.,

7 ozs., 16 May 1959, daughter of SP4 and Mrs. Everett G. Lindgren.

Steven Gregory Smith, 7 lbs., 4 ozs., 19 May 1959, son of 1st Lt. Max F. Smith and Mrs. Smith.

Gail Ellen Holmes, 7 lbs., 2 ozs., 18 May 1959, daughter of Lt. Col. and Mrs. Charles W. Holmes.

The fallout, I sigh,  
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Isn't stuff from the sky;  
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**HUNDRED PERCENTERS IN SAVINGS BOND DRIVE**—A unit of the Industrial Division, Army Rocket and Guided Missile Agency, is the first to claim 100 percent membership in the current U. S. Savings Bond Payroll Deduction Plan drive at Redstone Arsenal. The 100 percenters are the 34 employees of the Air Defense Systems Low Altitude Branch (Hawk). Left to right above are Mrs. Rogna Kirby, bond drive solicitor for the branch; D. R. McClung, deputy chief of the branch; Joe Williams, bond drive coordinator for ARGMA's Industrial Division; and Mrs. Carmen Harrell, branch solicitor. At the beginning of the campaign, 13 persons in the branch were buying bonds regularly. Mrs. Kirby and Mrs. Harrell signed up the remaining 21 within a few days. The Arsenal drive is scheduled to end Friday, May 29.



**RECEIVES COMMENDATION**—SP5 Robert J. Prince, legal clerk in the command and staff Judge Advocate Office for the Army Ordnance Missile Command at Redstone Arsenal, Ala., receives the congratulations of Lt. Col. Morton S. Jaffe, staff judge advocate, who was instrumental in awarding an Army Commendation to Prince for his work at this installation. The Army Ordnance Missile Command is responsible for the overall Army missile program. Prince, a former Marine, has served in China, at several posts in the U.S., and in Europe. SP5 Prince is the son of Mrs. Mary Vedeeka of Thomas, W. Va.

**SOFTBALL SCHEDULE**  
June 3 - 9

June 3 Lt. Det Officers vs 32nd Ord Det Field 1 1800  
Hq Det UTC vs 864th Air Force Field 1 1930  
Medical Men vs Signal Det Field 2 1800  
A Det OGMS vs Lt. Det Officers Field 2 1900  
June 4 32nd Ord Det vs Hq Det UTC Field 1 1800  
A Det ARGMA vs Medical Det Field 1 1930  
3rd ETD vs Signal Det Field 2 1800  
Hq Det USAG vs B Det ABMA Field 2 1930  
June 5 1st ETD vs Lt. Gross

Mixed Field 1 1800  
228th Ord Plt vs 864th Air Force Field 1 1930  
Medical Det vs Field Maint Field 2 1800  
32nd Ord Det vs A Det OGMS Field 2 1930  
June 8 A Det ARGMA vs Lt. Det Officers Field 1 1800  
3rd ETD vs Hq Det UTC Field 1 1930  
Hq Det USAG vs Medical Det Field 2 1800  
1st ETD vs Signal Det Field 2 1930  
June 9 228th Ord Plt vs B Det ABMA Field 1 1800  
Field Mat vs Lt. Gross Mixed Field 1 1930

Medical Men vs 864th Air Force Field 2 1800  
A Det ARGMA vs 32nd Ord Det Field 2 1930

**BASEBALL SCHEDULE**  
June 3 - 9

June 3 Hq Det USAG vs M & I  
June 4 "B" Det ABMA vs Hq OGMS Linton Field  
June 5 "B" Det OGMS vs M & I OGMS Linton Field 1930  
June 6 "A" Det OGMS vs Hq Det USAG Linton Field 1630  
June 6 M & I OGMS vs "B" Det USAG Linton Field 1930  
June 7 "B" Det OGMS vs "A" Det OGMS Linton Field 1630  
June 7 Hq Det UTC vs Hq Det USAG Linton Field 1930  
June 9 Hq Det USAG vs "B" Det ABMA Linton Field 1930

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## Movie Schedule

Wednesday, 3 June, "The H-Man" starring Yumi Shirakawa and Kenji Sahara. Time 1315, 1745 and 1945.

Thursday and Friday, 4 and 5 June, starring Rock Hudson, Jean Simmons and Dorothy McGuire. Time 1315, 1745 and 2000.

Saturday, 6 June, SPECIAL MATINEE, "Escapade in Japan" starring Teresa Wright and Cameron Mitchell. Time 1000.

Saturday, 6 June, "Enchanted Island" starring Dana Andrews and Jane Powell. Time 1745 and 1945.

Sunday and Monday, 7 and 8 June, "Shake Hands with the Devil" starring James Cagney, Don Murray and Dana Wynter. Time Sunday 1400, 1745 and 1945. Time Monday 1315, 1745 and 1945.

Tuesday, 9 June, "Riot in Juvenile Prison" starring Jerome Thor and Marcia Henderson. Time 1745 and 1945.

## Lowers Joins ABMA Industrial Division

Horace R. Lowers has recently been named deputy director of the Industrial Division of the Army Ballistic Missile Agency. Col. Calvin A. Heath heads the Division.

Lowers was formerly assigned to the Pentagon as special assistant for artillery vehicles and infantry systems, Office, Chief of Ordnance.

Lowers is a graduate of Clarkson College of Technology, Potsdam, N. Y., with a bachelors degree in Mechanical Engineering and from Chrysler Institute of Engineering, Highland Park, Mich., with a master's degree in Automotive Engineering. He also attended George Washington University in Washington, D. C.

He is a member of the Society of Automotive Engineers and of the Society of Naval Engineering. Lowers was formerly chairman of the NATO Expert Working Groups on Vehicle Interchange Ability and Spare Parts from



LT. COL. P. J. DAIGLE

## Lt. Col. Daigle Transfers to Salt Lake City

Lt. Col. Paul J. Daigle transferred last week to the Sperry-Utah Engineering Laboratory at Salt Lake City as the senior representative for the Army Rocket and Guided Missile Agency of the Army Ordnance Missile Command.

Col. Daigle will be replaced as chief of the Engineer Test and Evaluation Branch for the ARMA Industrial Division by Lt. Col. A. L. Bellavance.

Col. Daigle came to Redstone

## Lee Company Gets Barracks Contract

A contract amounting to \$3,024,735.79 to the Ray M. Lee Company of Atlanta, Georgia, for the construction of extensive facilities at Redstone Arsenal, Huntsville, Alabama, to accommodate organizational units assigned to the U. S. Army Ordnance Guided Missile School for training in the use of missiles, it was recently announced by the U. S. Army District Engineer at Mobile.

The facilities will include four 3-story barracks building, a 1-story consolidated mess building, and two 1-story administration and storage buildings. All will be of concrete masonry construction with brick exterior facing. Each of the barracks buildings will accommodate 326 men.

Work under the contract is scheduled to begin within the next two weeks so that the buildings will be ready for use before

Arsenal in October, 1955, from the San Francisco Ordnance District where he was Officer in Charge, San Jose Branch, and has served in various capacities in the Industrial Division.

He is a Michigan College of Mining and Technology graduate with a bachelor of science degree in ferrous metallurgy.

Daffynitions: Marriage — the first union to defy management.

the end of August 1960.

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## PISTOL TEAM WINS TROPHIES

The Redstone Arsenal Pistol Team competed in the Fiesta of the Five Flags Pistol Tournament held in Pensacola, Florida, on 16-17 May 1959.

CWO A. Startup took the first sharpshooter trophy in the center-fire timed-fire match.

Sgt. J. Gonzalez won the second place trophy in the National Rifle Association Building Fund Aggregate match.

1955 to 1957.

Lowers and his wife Barbara and their children, Stephen, 5, and Susan, 3, will reside in Huntsville.

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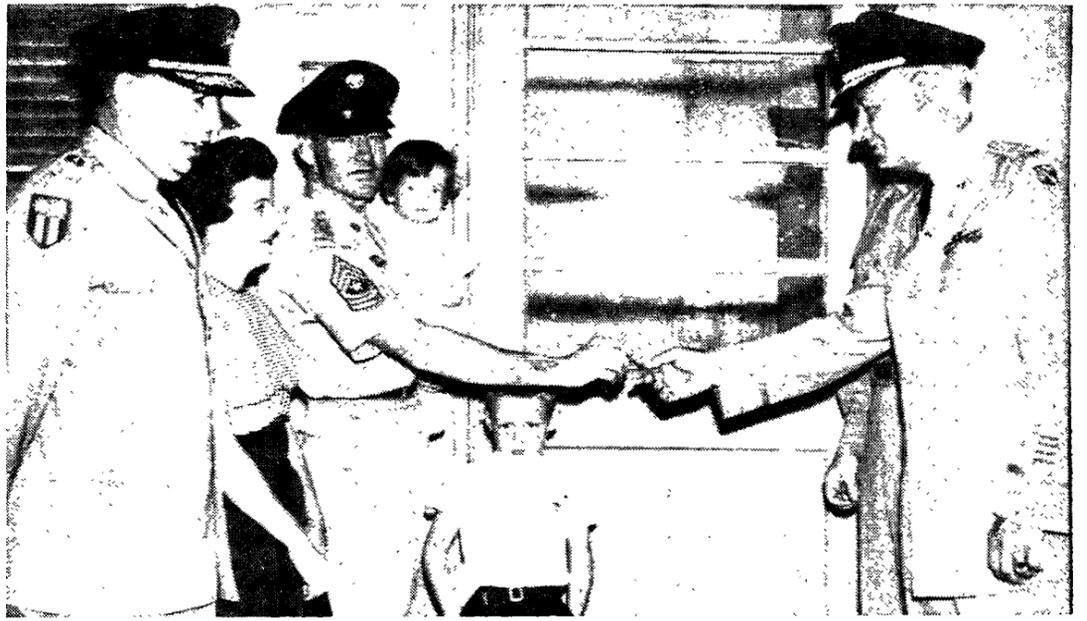
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**RECEIVES COMMENDATION RIBBON** — Sergeant First Class Francis L. Magill (right), son of Mrs. Charles J. Magill of Middletown, N. Y., recently received an Army Commendation Ribbon with Metal Pendant for exceptionally meritorious service at headquarters of the Army Ordnance Missile Command at Redstone Arsenal. Pinning on medal in photo above is Maj. Gen. J. B. Medaris, AOMC Commanding General. Magill has recently received his discharge from the Army and now makes his home in Atlanta, Ga. At Redstone, he served as chief of the Administrative Branch.



**FIRST NCO IN CAPEHART**—Sergeant Major Rudolph A. Weaver (third from left), recently became the first non-commissioned officer at Redstone Arsenal to move into the post's newest Capehart housing area. In photo above, he accepts keys to apartment from Col. Owen T. McCloskey, Redstone Arsenal Commander. Weaver is sergeant major at Headquarters of the Ordnance Guided Missile School. Left to right are Col. H. S. Newhall, OGMSS Commandant; Mrs. Weaver; Sgt. Maj. Weaver; the Weavers' children, Kandria, age two, and Andrew, age five; Capt. Gerald G. Jones (behind Col. McCloskey), Redstone Billeting Officer; and Col. McCloskey. Weaver recently received promotion to the post's first E-9 rating. He is the son of Mr. and Mrs. Andrew Weaver, of Dublin, Ga. Before the Weavers moved into their new three-bedroom, two-bath unit at Capehart Quarters 1242A, they had lived in a trailer near Madison, Ala. The new Capehart units at Redstone, totaling 178, will be occupied by the top five grades of NCO's.

## Religious Services

### POST CHAPEL — Bldg. 3714 PROTESTANT

Sunday — 0945 hours, Sunday School, 1st Session 4th grade through Senior High.

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

1100 hours — Sunday School 2nd Session — 3 yrs. of age through 3rd grade.

1100 hours — Morning Worship The nursery for babies and small children is open during this service.

1830 — Christian Youth Fellowship — Jr. High Young People and Senior High.

Wed. — 1800 hours — EMCU. Wednesday — 1845 hours — Chapel 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 services. O'Neg Shabbot (Sabbath Social) at Temple Annex.

Sunday — 0930 hours — Re-

ligious School at Temple Annex. **CHRISTIAN SCIENCE SERVICES**

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

**CATHOLIC** Sunday — 0745, 0845 and 1230 hours — Mass.

Monday — 1900 hrs. Choir Rehearsal.

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

Saturday — Confessions — 1800-1900 hours.

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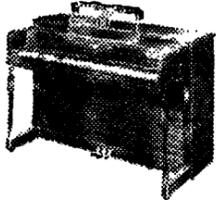


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684.00	607.52	38.00	76.48
900.00	805.69	50.00	94.31
1260.00	1135.96	70.00	124.04

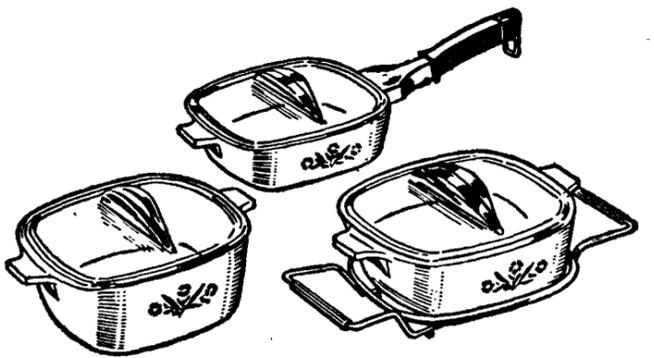
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**NATO OFFICER TO ADDRESS SOJOURNERS**

Friday evening, June 5 the dinner meeting of Redstone Chapter 353, National Sojourners at the Squirrel Hill Officers Club will begin with a social period at 1830.

NATO Officer, Captain Stephanus Van Dam, who is liaison officer from Netherlands will speak on his native country Captain Van Dam's training with US Forces dates back to 1946 when he received Air Traffic Controller training at Kessler Air Force Base. Presently he is a student in the Unit Training Center, OGMS. In July he will be with his Netherlands Unit at Fort Bliss and then rejoin the Royal Netherlands Air Force in his native land in the autumn.

Guests of the Sojourners will include the ladies, and a good turnout of the fair sex is expected. So, members don't overlook reservations for your wife.

Chapter business will include the initiation of new members, some of whom accepted during the last meeting, report on projects and acceptance vote on the revised Constitution and By-laws. Special emphasis will be given to last minute plans for the Sojourner Dance to be held at the VFW Club on June 13.

Reservation tickets for the Friday night dinner should be obtained from George Buyske, ABMA or Eugene Allen, ABMA ext. 4144; Pete Redding, ABMA ext. 2928; Irvin Gladstone, ext. 4907, ARGMA; Capt. Kenneth Gryder, FSD, ARGMA ext. 2903; Lt. Col. James N. Jean AOMC, ext. 5209; Maj. Fred E. O'Brien, OGMS, ext. 2510 and Capt. Cal-

**At the Service Club**

Attention all girls! Ray Pisani is teaching classes in foxtrot and jitterbug each Wednesday night. We invite you to attend the classes starting at 7:30 p.m.

George Doerner's Orchestra will play for the dance on Tuesday, 9 June starting at 8:00 p.m. The Birmingham and Huntsville Junior hostesses will attend the dance.

Have you made plans to attend the series of monthly discussions and lectures scheduled at the Rocket Service Club? The first meeting will be on June 11 at 1900 hours. All persons interested in participating are requested to sign up in the Service Club office.

Shiloh National Military park was established by an act of Congress in 1894. It contains approximately 3,700 acres of Federal lands, including the areas of heaviest fighting, in the battle. More than 3,700 Federal soldiers are buried here. Shiloh was the first major battle in the western campaigns of the War Between the States. The battle between Confederate Gen. Albert Sidney Johnston's 44,000 troops and Gen. Ulysses S. Grant's Federal Army of 40,000 troops was fought in this area.

Plan to make a tour of this famous battleground with the Service Club on June 14. We will leave from the Club at 1230 hours.

Before touring the park, we will visit the exhibit room in the headquarters building near Pittsburgh Landing. Relics, exhibits, and maps relating to the battle

vin C. Guffey 291th MP RSA, ext. 5640.

**Athens BPW Installs Four Arsenal People As New Officers**

The Athens Business and Professional Women's Club recently installed new officers in a ceremony following dinner at the Tanner Home Demonstration Clubhouse.

Mrs. Dorothy Woodall, State President of the Alabama Federation of BPW Clubs was installing officer. Four employees of Arsenal organizations were numbered among those installed.

The new officers who will serve for the 1959-60 club year are: president, Mrs. Margaret Southard; vice president, Mrs. Thelma Fliszar; recording secretary, Mrs. Margaret Vaughn; corresponding secretary, Mrs. Janice Norton; and treasurer, Mrs. Grace Bailes.

Mrs. Southard is employed as a management analyst in the Industrial Planning Office of Industrial Division, ARGMA; Mrs. Fliszar is secretary to the chief of the Anti-Missile Missile Branch,

**MEMBERS INVITED**

Members of UCT (United Commercial Travelers) among Redstone Arsenal employees who have transferred into the Huntsville area and who have not as yet affiliated themselves with Huntsville Council No. 251 are invited to do so and may contact the secretary, Henry C. Rupp, Army Rocket and Guided Missile Agency Industrial Division, phone ext. 6937 or JE 4-7124.

**Mrs. Granger and Fred Ellis Win At Party Bridge**

Seven tables of party bridge were played at the Officers Club Monday night, May 25, with the following results:

Women: high, Mrs. R. H. Granger; second, Mrs. Fred Ellis; low, Mrs. Beth Dobbs.

Men: high, Fred Ellis; second, Jim Felts; low, Capt. M. A. Ashley.

W-O and Mrs. Granger were hosts for the evening.

and the war are displayed and illustrated talks are given throughout the day. A library is also available for your use. The park museum is open every day from 8:00 a.m. until 5:30 p.m. Please don't forget to sign up for this trip!



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Industrial Division, ARGMA; Mrs. Vaughn is a secretary in the Security Office, ABMA; and Mrs. Bailes is an accounting clerk in the Ballistic Missile Materiel Branch, Depot Division, Redstone. The outgoing president, Mrs. Mildred Kubilis, serves as a management analysis officer in Operating Services Office, ABMA.

At the state convention of Alabama BPW Clubs in Birmingham May 15-17, the Athens Club was awarded ribbons for achievement in percentage of increased membership and for contributions to The Alabama Business Woman, published by the State Federation.

Then there's the story of the pretty young thing who was so annoyed by the fellow sitting next to her at the movie that she got up and changed cars.

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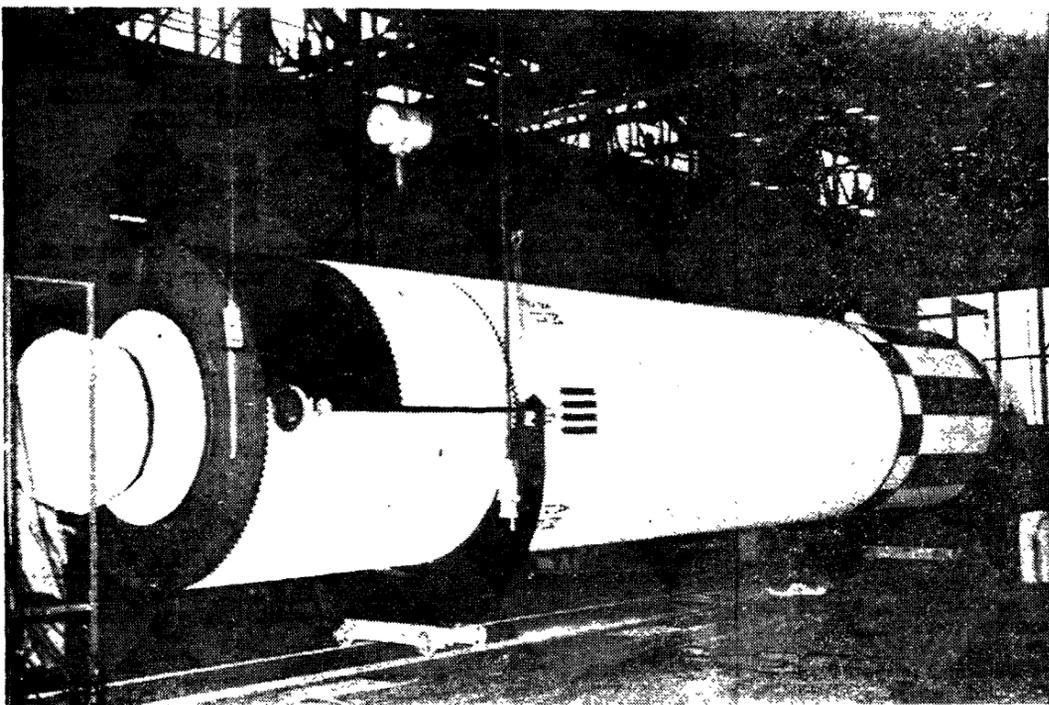
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THE JUPITER MISSILE used in Thursday's launching of biomedical experiments into outer space is given final pre-flight testing at the Army Ballistic Missile Agency's Missile Firing Laboratory, Cape Canaveral, Fla. The bio-medical experiments, which rode in the missile's nose cone and were successfully recovered for complete analysis, were conducted as a contribution to the space program of the National Aeronautics and Space Administration.

**Bio-Medical Tests Begun In 1946-47 By the Army**

The successful recovery of the bio-medical experiments was another step in a space research program initiated by the Army more than 12 years ago.

During 1946 and 1947 captured V-2 rockets were fired at White Sands Missile Range, New Mexico, in the early stages of a broad space exploration effort.

In the rockets Army technicians installed scientific instruments and monkeys for the purpose of gathering data about the environment beyond earth's atmosphere and measuring the effects of rocket flight upon live animals. In some cases the monkeys were carried to altitudes of more than 80 miles and parachuted back to earth safely.

The White Sands projects were carried out by Army missile developers and scientific institu-

tions. They laid the groundwork for today's manned space flight program.

The present series of experiments date back to 1958 when the Army Surgeon General asked the Army Ballistic Missile Agency to make space available in missile nose cones for biological experiments.

This request followed the successful recovery of three nose cones with the assistance of the Navy. A scale model cone flown on a Jupiter C rocket was recovered in August, 1957. Two full-scale Jupiter IRBM nose cones were recovered in undamaged condition in May and July, 1958.

The recoveries attested to the ABMA success in protecting the IRBM nose cones against the intense heat generated when they reenter Earth's atmosphere at velocities of 10,000 miles per hour from outer space. The solution was based on the ablation principle, the term by which missile designers describe the gradual erosion of minute layers of nose

cone material.

This was the method chosen by the Army to protect Jupiter nuclear warheads from premature destruction during reentry, when the nose cone is subjected to temperatures as high as 5,000 degrees Fahrenheit. It was apparent that the same principle could be utilized in protecting scientific experiments carried in rockets preparatory to manned space flight.

The Jupiter's reliability and accuracy also made it a desirable carrier for these experiments.

The Army Ordnance Missile Command agreed that space not otherwise utilized in Jupiter nose cones, during regularly scheduled flights which are part of the weapons development work, could be utilized for biomedical experiments.

The first experiment was flown Dec. 13, 1958. A South American squirrel monkey was placed in a Jupiter nose cone. While the missile flight was successful, and valuable scientific data was obtained about the physiological reactions of the subject, a mishap prevented recovery of the nose cone.

The subject journeyed through space about 15 minutes. Measurements were recorded of heart actions, respiration, body temperature, and temperature and pressure within the tiny, cylindrical chamber in which the subject was placed.

The South American monkey was selected because it resembles man anatomically and physiologically. It displayed a marked sen-

**Professors Names for Summer Courses**

The Huntsville Center of the University of Alabama announced the appointment of several new faculty members for the summer term.

Dr. Richard Young is teaching in the Department of Biology. He is employed at ABMA, holds a doctor's degree from the Florida State University, and has had considerable college teaching experience.

Mr. Cecil E. Robinson joins the faculty full time as a visiting instructor in mathematics this summer. Mr. Robinson holds a master's degree from the University of Tennessee and taught part time at the Center while stationed in the Army here several years ago.

Dr. O. R. Ainsworth, Associate Professor of Mathematics at the University of Alabama, will be teaching MA 128, Introduction to Cybernetics. The course is for electrical engineers and others concerned with control systems, which includes the study of mechanical and electrical components for stability and purpose-

ful actions. Dr. Wm. D. Jordan, Professor of Engineering Mechanics, University of Alabama, will be teaching MA 228 Experimental Stress Analysis. This course includes lectures and laboratory work on determining stresses in structures by means of bonded wire resistance strain gages and photoelastic models.

Dr. Champ Keny Liu, Associate Professor of Mechanical Engineering, University of Alabama, will be teaching ME 201 Fundamental Thermodynamics. The course is for graduate engineers who require more thorough study of the fundamental topics of thermodynamics such as temperature, work, heat, entropy and further developments.

**AFGE TO MEET**

There will be a meeting of the American Federation of Government Employees (Lodge 1858) June 8 at 7:30 p.m. at the Carpenters Hall, 2505 Clinton Ave., West.

The executive committee urges all employes to attend this meeting.

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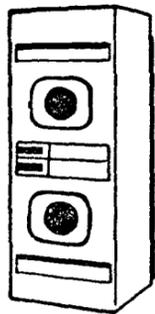
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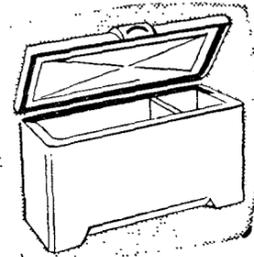
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DR. RICHARD S. YOUNG (left), a biologist with the Army Ballistic Missile Agency's Research Projects Laboratory, directs the preparation of the egg fertilization experiment which was flown in a Jupiter Intermediate Range Ballistic Missile nose cone. His assistant Jerry L. Johnson holds one of three tiny vials which were contained in the capsule designed to study the effect of weightlessness on the basic phenomenon of fertilization. From left to right are Dr. Young, Johnson, J. Robert Bruce, Technical Program Coordinator, and Don Cochran, Research Projects Laboratory engineer.

### Huntsville People Take Part In Launching Monkeys

A number of Huntsville people played prominent roles at Cape Canaveral and the Atlantic Missile Range during the Army's successful operation of launching and recovering two monkeys and other biological experiments utilizing a Jupiter IRBM.

The missile, developed by the Army Ballistic Agency, hurled the experiments 1,965 space miles in its arcing trajectory over the Atlantic at velocities approaching 10,000 miles per hour. The nose cone of the missile and all experiments were recovered in undamaged condition by the U. S. Navy 92 minutes after the missile roared off the pad at the Cape.

Brig. Gen. J. A. Barclay, ABMA Commander, headed the Army team at the Cape. The chief medical officer present was Brig. Gen. Joseph McNinch, Commanding General, Army Medical Research and Development Command, Washington. The Jupiter was launched by the Missile Fir-

ing Laboratory of ABMA headed by Dr. Nurt Debus.

The National Aeronautics and Space Administration sponsored the scientific experiments.

Involved in preparation of the experiments at the Cape were Dr. S. J. Gerathewohi and Capt. E. S. Wilbarger, Jr., of the Bioastronautics Unit, Army Ordnance Missile Command; 1st Lt. J. W. Davis PFC Darrell Cox, and Sp-4 Leonard Lee of the Post Veterinarian Section, Redstone Arsenal.

Army and Navy medical activities at Walter Reed Hospital Washington; Fort Knox, Ky. and Pensacola, Fla. were represented by technicians.

M. E. Huston, recovery project engineer in the ABMA Structures and Mechanics Laboratory, coordinated recovery operations from San Juan, Puerto Rico. Huston's assistant, R. M. Barraza, handled the Cape to Puerto Rico communications.

Maj. Gerald Champlin of the AOMC Bioastronautics Unit was the medical project officer aboard the recovery ship, USS Kiowa. Others on the ship were R. E. Gorman, Missile Firing Lab; T.-

C.N. Paludan, Guidance and Control Lab; Dr. Richard S. Young, Jerry L. Johnson, James

Other persons concerned with the recovery project on the USS Kiowa were Frederick Uptagrafft, Structures and Mechanics Lab; Julian Hamilton, Systems Support Lab and Sfc. W. E. Foster, Structures and Mechanics Lab. R. Bruce and Charles D. Cochran, Research Projects Laboratory, ABMA, sponsor of one experiment.

Five local men were aboard another ship, the USS Severn, in connection with ABMA's "Operation Gaslight," a program to measure and record reentry phenomena. They were Dr. Charles Lundquist, Dr. David Woodbridge and Ray Hembree of the Research Projects Laboratory; Harold Hunt and William D. Oliver, Redstone Arsenal photographers.

1st Lt. Cecil Stoughton, AOMC public information photographer, provided the official experiment and recovery photography to the Army and NASA for national release.

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SUNDAY, JUNE 7, 1959

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### BAKER EXPERIMENT IS CONTINUATION OF FORMER TESTS

The squirrel monkey experiment — supplied by the Navy — was a continuation of Army-Navy cooperation in biomedical research. The two services cooperated in the first experiment involving a squirrel monkey transported in a Jupiter nose cone December 13, 1958.

One phase of last week's experiment repeated the December test, from which important scientific data were obtained about the physiological reactions of the monkey although recovery of the nose cone was unsuccessful.

The capsule in which Monkey Baker was carried was developed and built by the Structures and Mechanics Laboratory, Army Ballistic Missile Agency which developed the Jupiter missile system and which launched today's missile. Electrical units for the capsule were provided by the Guidance and Control Laboratory, ABMA.

The Naval Aviation School of Medicine at Pensacola, Fla., Naval Air Station, designed and fabricated the animal support cylinder in conjunction with the Army Surgeon General. The Naval School also tested, trained and prepared the animal.

The capsule containing the animal support cylinder measured 9.75 by 12.5 by 6.75 inches. Thus 670 cubic inches of space were available for Monkey Baker, survival and recording equipment.

The capsule was installed at the base of the missile nose cone and was attached to the cone. The



**MONKEY BAKER** — One of the group of South American squirrel monkeys prepared for flight in the Jupiter nose cone, launched last Thursday from the Atlantic Missile Range, Cape Canaveral, Florida, enjoys a bit of fresh air and a tidbit while awaiting final selection of the specimen to ride into outer space and return.

\* \* \*

chamber, instruments and monkey weighed 29.5 pounds. Except for an electrical connection, which supplied power and transmitted data to ground receiving stations, the capsule was entirely self-sufficient.

It was insulated with fiberglass and rubber. Oxygen was furnished from a flask equipped with a pressure operating valve. A mobilhead absorber removed excess moisture from the atmosphere

within the capsule. Baralyme pellets absorbed carbon dioxide. The life-supporting equipment was capable of operating until anticipated recovery.

A small bank of thermostatically controlled resistance heaters maintained even temperature in the capsule while the missile was being readied for launching.

Monkey Baker wore a helmet of molded plastic compound over chamois. It was placed upon a molded bed of silicone rubber overlaid with a thin sheet of foam rubber.

The animal's position was supine with knees drawn up to provide maximum resistance to the stress factors involved in the flight. The support cylinder was placed longitudinally in the larger capsule and rested on rubber ribs.

By electronic circuits, measurements were obtained of its respiration, body temperature, pressure within the capsule, and heart action.

After the cone's recovery from the Atlantic Ocean, scientists measured the capsule's atmosphere, including its composition, pressure and temperature, while medical personnel examined the monkey.

The monkey and ancillary equipment were to be flown to the Naval Air Station School of Medicine for study and evaluation. The flight package will be returned to the Army Ballistic Missile Agency.

All data obtained from the experiment will be made available to the National Aeronautics and Space Administration and the military services. Other Government agencies and institutions involved in biomedical research may also have the data upon request.

In the December, 1958 flight, the subject reached an altitude of approximately 300 miles. This was the longest subgravity state achieved to date in the Free World by an experiment designed to furnish important biological data.

Measurements of heart action in the December 1958 experiment disclosed no abnormalities during acceleration and weightlessness. Short periods of increased respiratory rate were well correlated with increased heart action due to body movement or other recognized stimuli. Adequate body temperatures were recorded. The temperature of the capsule remained remarkably constant, varying less than 3 degrees Centigrade (about 37 degrees F). The temperature averaged 22 degrees Centigrade (about 72 degrees F). The pressure varied less than 1 pound per square inch. The average was 16.8 pounds per square inch.



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**FOR SALE —** House trailer, Robbins 1952, 8 x 26 feet, single bedroom, full bath and kitchen, good condition. Call Lt. Pouncey, extension 2494 days. 1tp

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**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 Masseuseur in charge. Phone JE 2-2444. ttc



**STUDENTS AND FACULTY MEMBERS** from the Air University at Maxwell Air Force Base spent two days at the Army Ordnance Missile Command last week attending a classroom TV lecture and panel discussion covering the importance of guided missiles in national defense. Maj. Gen. J. B. Medaris, AOMC commander (far right) conducted the lecture and answered the panel. Students and the General during the discussion are: (clockwise) Lt. Col. Theodore H. Ostendorf, Lt. Col. Thomas J. Leonard, Maj. Lawrence Williams, Maj. William H. Walters, Maj. William F. Austin, Lt. Col. William S. Underwood and Gen. Medaris. Three faculty members audited the panel discussion: Lt. Col. Earl O. Olmstead, Lt. Col. Edward M. Majors and Maj. Wallace C. Bosworth.

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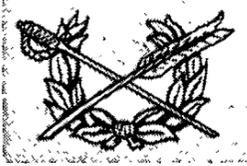
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# The Judge Advocate Advises



## Powers of Attorney

Just last week a letter reading substantially as follows was received in the Office of the Command Staff Judge Advocate from the Judge Advocate of an Overseas Command (any similarity of names to persons living or dead is coincidental):

"This office has received an inquiry from SP5 Owen Alott, RA 13 131 313, who is newly assigned to this command. In July 1957 while assigned to Redstone Arsenal, Sp. Alott executed a general power of attorney to his wife, Abuse Alott. Mrs. Alott has used the power of attorney for purposes other than were contemplated. As a matter of fact, she transferred her husband's interest in their home without his knowledge. Since that time they have separated . . ."

As it happens, the attorney counseling Sp. Alott remembers advising him against the dangers of executing a general power of attorney. Sp. Alott, however, was adamant. He knew he could trust his wife implicitly and since he wasn't sure what authority he should give his wife, he gave her complete authority to do anything in his name that he could do himself. The above letter tells the end of the story.

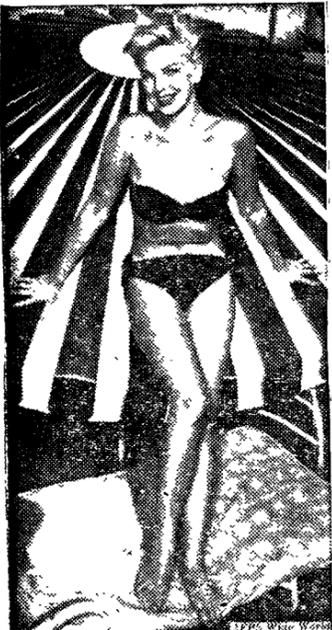
Powers of attorney are powerful documents. There is a need for military personnel to understand their nature and effect.

What is a power of attorney? It is an instrument which creates the legal ability in another to produce a change in the maker's legal relations by the doing of whatever acts are authorized; or, to put it another way, it is an instrument authorizing another to act in his place for him as his agent. The agent, or grantee, stands in the place of the principal, or grantor. It is revocable at any time by the grantee or grantor and is automatically revoked upon the death of either party.

The agent acting within the scope of his authority obligates the grantor only, not himself or herself. The agency relation can be with or without a time limitation.

There are two types of powers of attorney — general and special. The former permits the grantee to do anything that the grantor can do. He can buy, sell, mortgage or even borrow money in the principal's name. The latter type is of limited authority, that is, the agent can only act in the grantor's name within the scope of the specific powers granted. For example, one may grant a special power of attorney to another for the purpose of allowing the latter to receive the former's private automobile or household goods at a port of embarkation. Any actions of the agent not authorized in the special power of attorney will not bind the principal.

Then there was the sweet young thing who wanted to marry a sailor and rear admirals.



**SUN GODDESS** — Showgirl Barbara Nichols, who laments that her roles make it difficult for her to find a husband, seems to have the necessary attributes to catch a matrimony-minded gentleman.

Understanding the significance of the relationship created by a power of attorney, a person must make a determination as to its necessity or value to him and, in connection with such determination, he should consider several facts. Of course, the most significant is the proposed grantee of

the power of attorney. Is it his wife, some other relative, a friend, or a business associate? What is to be accomplished? Is there any other way to accomplish his objective? Is the grantee experienced in business? Can he effectively handle the transaction in question? If the grantor is satisfied that the grantee possesses sufficient business acumen and is completely trustworthy and that there is no other way to accomplish his objective, then perhaps it is a necessary undertaking.

The next consideration is the type power of attorney. No more power should be granted than the minimum necessary to accomplish the objective desired. As will

Sp. Alott testify, it is foolish to execute a general power of attorney when something less would suffice. Serious consideration should be given before creating such a relationship. It is apparent that a hopeless financial situation may be created for a principal careless in his choice of agent by giving away complete power. By all means a general power of attorney should be avoided unless, after careful consideration, that is the only practicable step.

Ordinarily a special power of attorney is all that is necessary. In that way the grantor can limit the areas in which action by the grantee is permissible and can,

to some extent, control the nature of the acts. The grantor, here, will not have to worry about his house being sold out from under him.

Many people have, through unfortunate experiences, become painfully aware of the hidden dangers of a power of attorney. Though revocable at the will of either party, the grantor, to revoke prior to the expiration date, if any, must notify all persons with whom the agent has dealt as well as publish a general notice disclaiming any responsibility for the agent's future actions in each geographical area in which the agent may have used the power of attorney.

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