

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 advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. VII, NO. 39

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 4, 1959

OPEN HOUSE SATURDAY

Schedule of ABMA Birthday Events

9:30 a.m. to 2 p.m. ★ Continuous showing of films, at Post Theater.

9:30 a.m. to 2:30 p.m. ★ Continuous tour of COMPUTATION LAB, Bl. 4663.

★ Continuous tour of WIND TUNNEL, Bl. 4732.

★ Continuous tour of FABRICATION LAB, Bls. 4705, 4707.

★ Continuous showing of JUPITER MISSILE ERECTION, Systems Support and Equipment Lab.

★ Continuous tour of ABMA HEADQUARTERS, Bl. 4488. (With technical displays of Aeroballistics Lab, Guidance & Control Lab, Structures & Mechanics Lab, Signal Corps.)

SPECIAL EVENTS

9:30 a.m. ★ Jupiter Countdown (by 864th Strategic Missile Squadron), at Jupiter launch site.

11 a.m. ★ Static test firing of Jupiter motor, at Test Lab.

2 p.m. ★ Jupiter Countdown (by 864th Strategic Missile Squadron), at Jupiter launch site.

* * *

Have your photo made with JUNO II SPACE PROBE hardware, on lawn in front of ABMA Headquarters, continuous from 9:30 a.m. to 2:30 p.m.

ABMA Open House Visitors Must Leave Cameras at Home Sat.

Visitors to the Army Ballistic Missile Agency's Third Birthday Celebration Saturday will NOT be allowed to bring cameras on post, ABMA officials emphasize.

Other contraband articles such as binoculars and intoxicating beverages are of course also prohibited, it was added.

Visitors Saturday are requested to enter and leave the Arsenal only through Gates No. 1, 3, and 9.

No private autos will be allowed in Plants Area No. 1 during the birthday celebration, it was announced. Bus transportation will be furnished.

Three parking areas will be designated for visitors at ABMA Headquarters, Bl. 4488; AOMC, Bl. 4505; and the Computation Lab, Bl. 4663.

Maps indicating routes and loading points will be handed out to visitors by gate guards. A schedule of events will be printed on the back of the map.

A station for lost and found children will be set up Saturday in Room A-127, Bl. 4488. A lost and found articles station will be in Room A-112 of the same building.

First aid stations will be set up in Bls. 4488 and 4705.

Feb. 12 Will Be 'D' (For Donor) Day At Redstone Arsenal

Thursday, Feb. 12, will be "D-Day" at Redstone Arsenal. The "D" in this case stands for "Donor"—and the call is out for donors to the American Red Cross Bloodmobile. The Bloodmobile will be in operation at the Post Gymnasium (Bl. 5663).

Thiokol Tests First Motors For Pershing

Thiokol Chemical Corp., has announced the successful test firing of the first solid propellant development motors in the Army's Pershing Missile System Program. Prime Contractor for the Pershing System is the Martin Co., Orlando, Fla., and Thiokol Chemical Corporation-Redstone Division is developing the solid propellant propulsion system under subcontract to the Martin Co. Announcement of the Thiokol participation in the program was made in August of 1958.

The Pershing is designed as a ground-to-ground missile for use by the Army as a close support field weapon.

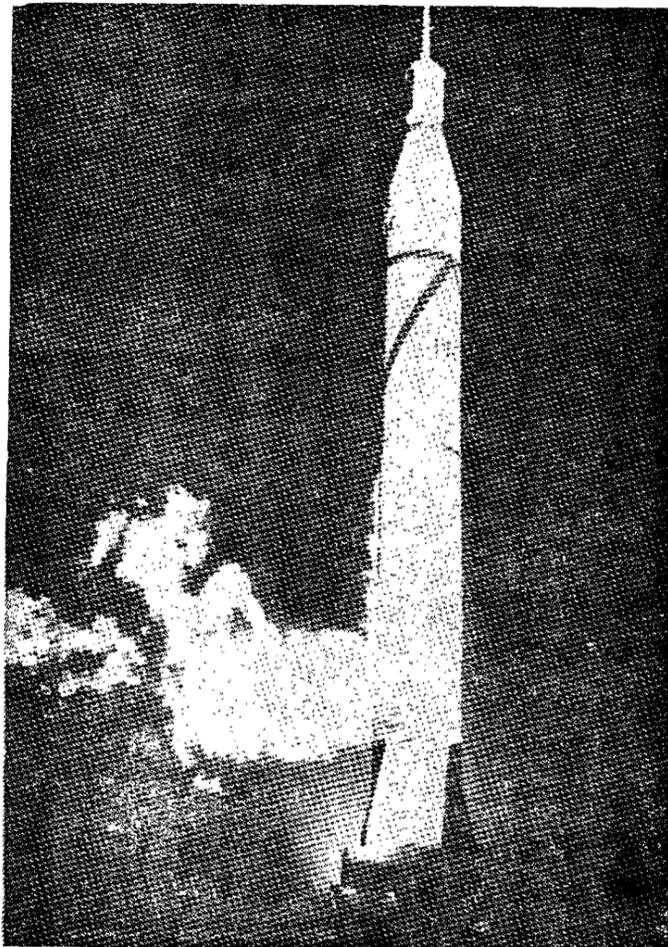
Thiokol, one of the leading developers of solid propellant rocket motors, has developed the propulsion systems for such missiles as the Lacrosse, the Falcon, the Nike-Hercules sustainer, the RVA-10, the Polaris Test Vehicle, the Recruit, the Sergeant, the Mator Booster, and others.

Current development contracts include motors for the Minuteman program, the Bomarc Booster, the Nike-Zeus, the Nike-Hercules Booster, and others.

Membership Record Claimed by IRE Group

Latest membership figures show that the Huntsville Section of the Institute of Radio Engineers is the fastest growing professional society in the Tennessee Valley, according to Huntsville IRE officials.

The Section added 57 new members during the Fall quarter and 23 during the Winter quarter. These figures do not include student memberships, it was added.



A SCENE TO REMEMBER—Shown above is the historic sight of America's first satellite, Explorer I, atop an Army Jupiter-C, on the night of Jan. 31, 1958—poised for flight on its launching pad at Cape Canaveral, Fla. On the first anniversary of the epochal launching, a full-scale replica of the space vehicle was presented Saturday to the Smithsonian Institution in Washington, D. C., by Secretary of the Army Wilber M. Brucker.

* * *

WITH EXPLORER I

U. S. Entered Space Age A Year Ago Last Sat.

The United States entered the Space Age with the Army-launched Explorer I scientific earth satellite a year ago last Saturday.

Two other Explorers were launched later. The three have amassed a total of some 200,000,000 miles in their orbits around the earth and have contributed scientific data of extreme importance to the nation's outer space research efforts.

The greatest achievement of the Explorers was the discovery and subsequent investigation of the Van Allen Radiation Belt which circles the earth. Scientists participating in the International Geophysical Year consider this among the most important findings of the worldwide research program.

Explorer I detected a deadly band of radiation beginning at about 600 miles altitude. The exact nature and intensity of the radiation was not known, but it was apparent that this obstacle could block or greatly delay man's entry into space.

The number of particles encountered per second was some 1,000 times greater than what had previously been considered normal.

Explorer III, launched March

26, carried more sophisticated instrumentation. The radiation band discovery was confirmed and knowledge of the distribution was greatly extended with the more elaborate radiation equipment, plus a tape recorder which made possible readings representative of the total orbit.

The instrumentation carried on the first two satellites was not capable of distinguishing between the types and energy levels of radiation. A new package was designed, and launched by the Army July 26 in Explorer IV.

These instruments, like those orbited in the earlier Explorers were designed by Dr. James A. Van Allen and associates at the State University of Iowa. Van Allen, chairman of the Iowa physics group, (See WITH on Page 3)

JUPITER-C

A Look at First U. S. Space Vehicle

The Army Jupiter-C, which was presented to the Smithsonian Institution Saturday, Jan. 31, was America's first space vehicle.

The Jupiter-C launched the Free World's first scientific earth satellite and has been credited with more successful launchings than any other space vehicle in the nation's expanding space program.

The Jupiter-C sprang from the Army Redstone, workhorse of ballistic missiles. It was originally conceived as a satellite vehicle in 1954 by the Army missile team headed by Dr. Werner von Braun.

In the fall of 1954 Army and Navy scientists met in Washington to discuss possibilities of a joint satellite project. The Army offered the Redstone missile as the basic propulsion unit, to be

JUPITER-C GOES ON DISPLAY AT THE SMITHSONIAN

Replica Presented On First Anniversary Of Explorer I Launch

The millions of visitors to Washington will now be able to view close up America's first entry in the space age.

A full-scale replica of the Army's Jupiter-C, capped by Explorer I, was presented to the Smithsonian Institution by Army Secretary Wilber M. Brucker on Saturday, Jan. 31, first anniversary of the launching at Cape Canaveral of Explorer I.

The towering Jupiter-C, a modified Army Redstone guided missile, was emplaced at the Smithsonian as a permanent outside exhibit.

Already on display in the Institution is the first recovered guided missile nose cone, the scaled-down Jupiter nose cone shown by the President on a nationally televised show.

During the past year about 17,000,000 people in 52 cities in the United States and Canada viewed traveling exhibits of animated models of the Explorer at fairs, exhibitions and other public places.

The traveling models, which were "retired" in November, were part of the Army's program to keep the public informed of its progress in the space age and its support of the International Geophysical Year.

In another ceremony Saturday, Sec. Brucker presented a plaque to Milton K. Cummings of Huntsville, president of Brown Engineering Co.

The Huntsville firm was one of 17 companies that received awards at an anniversary banquet. Brown's award was for contributing to the design of the payload structure and times for the rocket, the Army said.

Noting that several 1959 space flights and satellite launchings have been assigned to the Army Ordnance Missile Command at Redstone Arsenal, Brucker said several vehicles are being assembled and tested at the Army Ballistic Missile Agency.

Launching dates have not been announced.

"I am told the data to be collected by just one of these satellites will include: first, cosmic ray intensity above the atmosphere on basis of time and geography; second, the effects of solar radiation on our atmosphere; third, determination of the flow of heavy cosmic rays or primary particles which are completely ionized nuclei; fourth, the determination of the daily heat input into our atmosphere with the aim of establishing relative importance of earth atmosphere and its water mass in distributing the heat to northern latitudes; and (See ON DISPLAY on Page 3)

STUDY ANTI-AIRCRAFT WEAPON

First Hawk Class Begins at OGMS

The first class to be trained in the new Hawk anti-aircraft missile that soon will be used by troops here and abroad began at the Ordnance Guided Missile School Monday, it was announced by Col. H. S. Newhall, Commandant.

Ten U. S. enlisted specialists and two Canadian officers are in

the class which began training on the seventh missile system to be incorporated in the Missile School's curriculum.

The first class began its sessions in a \$2,100,000 academic building and training shop specially constructed for the conduct of complex missile training.

The Hawk gets its name from

the "Homing All the Way Killer" radar mechanism that enables it to intercept enemy aircraft at treetop level and above. It complements the Army air defense Nike missiles that protect against high-level air attack.

The Hawk is 17 feet long and 14 inches in diameter and is a (See FIRST on Page 2)

The Redstone Rocket

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JUPITER-C

(Continued From Page 1)

to a reentry test missile. In this manner a scale model of the proposed Jupiter nose cone could be tested flown before the Jupiter itself became available for flight testing.

The Orbiter vehicle's design was slightly changed, and the missile became known as the Jupiter Composite Reentry Test Vehicle. The chief changes were the elimination of the fourth stage, which would have carried the satellite, and the substitution of scaled-down Sergeant motors for the Lokis which formed the upper stage.

On Sept. 29, 1956, the Jupiter-C in its first test flight hurled an inert payload more than 600 miles high and some 3,300 miles over the Atlantic, setting altitude and distance records. This flight was primarily to test propulsion, separation and stabilization techniques.

On Aug. 7, 1957, the Jupiter-C successfully tested a scale model Jupiter IRBM nose cone. This research effort was so successful in the first flight test that the remaining Jupiter-C vehicles were deferred from the firing schedule, making them available for other purposes.

The Secretary of Defense, on Nov. 8, 1957, directed the Army to prepare for two satellite launchings using the Jupiter-Cs on hand. The first, Explorer I, was launched Jan. 31, 1958, eighty-four days after the go-ahead was given.

To date the Jupiter-C has been fired nine times in weapons development and space exploration programs. Six of the nine launchings were entirely successful, and three were partial successes.

The final version of the vehicle was a joint development of the Army Ballistic Missile Agency, Huntsville, Ala., and the Jet Propulsion Laboratory, Pasadena, Calif. ABMA provided the first stage and guidance and control systems. JPL furnished the upper stages.

Details and Mechanics of Operation

The Jupiter-C consists of a modified Redstone Ballistic Missile

serving as the first stage and a three-stage cluster of solid propellant rockets placed in a spinning tub mounted in the nose of the first stage.

The standard Redstone, now deployed in Europe with U. S. Army forces, operates with a thrust of 75,000 pounds and burns alcohol and liquid oxygen. For the satellite missions the first-stage propellant tanks were enlarged and Hydne replaced alcohol as fuel. Hydne yields from 10 to 15 percent more specific impulse than alcohol and can be used in an engine designed for alcohol and liquid oxygen without major modification. Burning time as well as thrust was increased for the satellite launching missions.

Guidance

The Jupiter-C instrument compartment rests atop the tank section of the first stage and is separated from the latter after power cutoff of the booster engine. It houses the guidance and control equipment for the first-stage flight phase and a spatial attitude control system for horizontal alignment of the separated nose cone section, with the spinning tub, when it passes through the apex of its trajectory. The objective is to aim and fire the high-speed clusters prior to apex so that at injection the satellite is traveling in exactly horizontal direction with reference to the Earth.

Gyroscopes control the missile up to cutoff by means of jet vanes. After separation, the same gyroscopes control a system of compressed air nozzles mounted in the tail of the instrument compartment. The reaction thrust of these nozzles tilts the entire nose section, complete with the spinning cluster of high-speed rockets, into the horizontal direction. By turning the nose section into the horizontal relatively fast, sufficient time is allowed for residual errors to decay. Thus the highest possible degree of accuracy is attained in horizontal alignment by the time apex is reached.

Firing Procedure

Jupiter-C takes off vertically. During the burning time of the first stage, it is tilted into the trajectory inclined at a pre-determined degree to the horizon at



MEDICAL SERVICE VISITORS at Redstone Arsenal last week included Col. Bernard Aabel, Chief of the Medical Service Corps; Col. Harvey Coddington, Acting Chief of the Medical Allied Science Section; and Lt. Col. William Clegg, Chief of the Career Planning Section, Personnel and Training Division, all of the Surgeon General's Office, Department of the Army, Washington, D. C. During their two-day visit, they toured the Post's hospital facilities as well as various Army Ballistic Missile Agency laboratories and the 864th Jupiter Training Area. Shown in discussion above are, seated, Col. H. C. McClain, Post Surgeon; left to right, Capt. Gilberto Cardenas, Post Hospital Registrar; Col. Clegg; Capt. J. C. McBroom, Post Hospital Executive Officer; Col. Aabel; Col. Coddington; and Capt. Donald Smith, Administrative Assistant to Col. McClain.

cutoff. A few seconds after cutoff, the booster (combined tank and engine section of first stage) is separated from the instrument compartment by igniting explosive bolts. Wrapped around the bolts are coil springs. When the explosion destroys the bolts, the springs exert a gentle push on the instrument compartment and separate it cleanly from the booster. This is immediately followed by the firing of two small solid propellant retro-rockets contained within the booster which give it an added impulse at separation, causing it to slow down in speed and move to the side.

From the point of separation, the two portions of the missile coast through a vacuum trajectory during which the spatial attitude control system aligns the instrument compartment into exactly horizontal position. An automatic sequencing arrangement ignites the second stage slightly prior to apex. Thereafter the successive stages fired in the space of seconds, and the satellite is injected into orbit.

Upper Stages

The second stage consists of a ring of 11 solid propellant rockets. Inserted into this ring is the third stage consisting of 3 rockets. The single rocket making up the fourth stage sits atop the third stage.

Cluster Runup

At 15 minutes prior to launching, the tub holding the upper stages is rotated at 550 rpm by means of electric motors. After liftoff, a governor controlled by a tape programmer in the missile changes the regulator setting gradually up to 650 rpm. It increases to 750 rpm while first-stage flight is in progress. There is no change in the speed of 750 rpm during the free coasting climb to apex. The precision force of the spinning cluster is employed to tilt it in the pitch direction.

FIRST

(Continued From Page 1)

thin, graceful weapon designed and developed here by the Army Rocket and Guided Missile Agency.

It is manufactured by the Raytheon Manufacturing Company and uses a solid fuel engine developed by Aerojet-General Corp. Northrop Aircraft Company is a major sub-contractor.

The missile is highly mobile and can be transported by truck, tracked vehicle, by helicopter and aircraft.

The Missile School instructs in six other missiles: Corporal, Redstone, Jupiter, Nike-Ajax, Nike-Hercules, and Lacrosse.

The firing squad was escorting a Russian comrade to his place of execution. Rain was pouring down, it was chilly and the march was a dismal one.

"What a terrible morning to die," said the unhappy prisoner.

"What the heck are you kicking about?" one of the soldiers said. "We have to march back in it."



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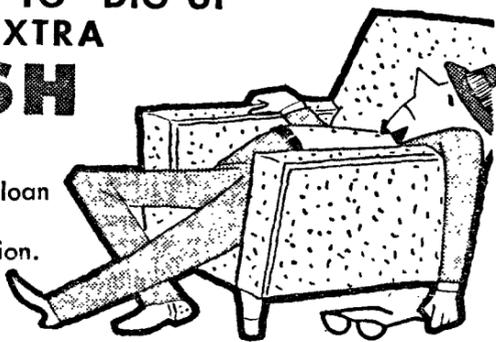
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(Continued From Page 1) finally, detection of impacts of micrometeorites with a diameter of 1,000th of a millimeter and larger," Brucker said.

The companies receiving plaques included Rocketdyne division of North American Aviation Inc., Consultants and Designers, Inc., Chrysler Corp., Reynolds Metals Co., General Electric Co., Grand Central Rocket Co., and Ford Instrument Co.

Sec. Brucker termed it one of the great moments of our age when President Eisenhower announced that the Jupiter-C missile had lifted Explorer I into orbit.

Addressing top Defense Department officials and some of the nation's leading scientists, the Army secretary declared:

"Our soaring space explorer, circling the earth every 114 minutes at 18,000 miles an hour, carried America's prestige high in its flight, and did much to overcome the psychological effect of the Russian Sputniks . . .

"It proved that our tree science and enterprise had not been irretrievably outdistanced by the regimented efforts of scientists working feverishly under a dictatorship with the military applications of science as their primary objectives," Brucker said.

Dr. Leonard Carmichael, secretary of the Smithsonian Institution, in accepting the Jupiter-C replica, topped by an Explorer replica, called it "a significant specimen of achievement."

"It will be preserved for the inspiration of the millions who will view it," he told officials and a public gathering of more than 1,000.

Brucker made presentations of distinguished civilian service awards to Dr. William H. Pickering, director of the Jet Propulsion Laboratory at Pasadena, Calif., and Dr. James A. Van Allen, chairman of the University of Iowa's department of physics, for their contributions to the Army's missile program.

First to congratulate them were Maj. Gen. John B. Medaris, Commanding General of the Army Ordnance Missile Command at Huntsville, and Dr. Wernher von Braun, Director of the Development Operations Division of ABMA.

Medaris and Von Braun are previous recipients of distinguish-

(Continued From Page 1) sics department, is a world pioneer in radiation research.

Explorer IV contained four radiation counters instead of the one each carried by I and III. This system of four detectors gave excellent data on the distribution and energy level of the radiation. In order to obtain a wider geographical coverage, the satellite was launched to orbit at 51 degrees inclination to the equator, instead of the 34 degree inclination of previous U. S. satellites.

Resume of Radiation Findings

Dr. Van Allen recently made a report of the American Physical Society on the findings of Explorer IV, covering the entire operating lifetime of 3,600 recorded passes. Some of the main points made in the report are as follows:

1. "The detectors of 1958 Epsilon (Explorer IV), designed with the knowledge of earlier results, have provided a vastly more full and detailed knowledge of the distribution and nature of the radiation . . ."

2. "We regard it as established that the great radiation belt around the earth consist of charged particles, temporarily trapped in the earth's magnetic field. The rapid diminution of intensity at the lower altitudes is almost certainly due to atmospheric scattering and absorption . . ."

3. "We propose that the radiation belt is the reservoir whose leakage of particles is the direct cause of visible aurorae. It is further suggested that solar plasma replenishes the reservoir from time to time, working its way into the outer reaches of the earth's magnetic field when its density is sufficiently great, then being trapped in the field.

"On the occasion of the arrival of new batches of gas, the pattern of magnetic field lines at great altitudes and hence at high latitudes is distorted, thus permitting the leakage of particles from the reservoir into lower altitudes at a rate greatly exceeding that which is usual for the quiescent situation."

4. "The radiation belt may well be the seat of a distributed 'ring' current encircling the earth; and the perturbations of the belt due to arrival of solar plasma may be directly responsible for magnetic storms."

5. "Also it may well be that steady leakage of energetic particles contributes significantly to the general heating of the atmosphere at all latitudes."

(Since these investigations were made, further data of great significance were obtained from the Army-NASA space probe, Pioneer III. It was discovered that there are actually two radio bands surrounding the earth. Radiation in both of these bands is so intense as to preclude a continuous orbit of a manned vehicle without harmful effects on the passenger. Van Allen predicts, however, that

ed service awards.

The 70-foot Jupiter-C and the 80-inch Explorer were bolted in place at the side entrance of the Arts and Industries Building of the Smithsonian.

An aluminum plaque read: "United States Army Jupiter-C Missile.

"The first United States scientific satellite, Explorer One, was launched by the United States Army from Cape Canaveral, Fla., on January 31, 1958, using a Jupiter-C, composite reentry test vehicle developed by the United States Army Ballistic Missile Agency, Huntsville, Alabama."

man could orbit between the two layers without harm from radiation.)

Other Explorer Contributions

Explorer I confirmed man's ability to control temperature within an artificial satellite. Scientists of the Jet Propulsion Laboratory who conducted the heat experiment were assured by results that their technique for temperature control is adequate for the successful operation of sensitive electronic equipment.

The internal temperature was maintained between 32 and 104 degrees Fahrenheit—well inside the tolerance needed to protect instrumentation from heat or cold failure. Outside temperature, measured at the shell, fluctuated between 14 and 167 degrees Fahrenheit. Inside temperature of course, is easily within the range acceptable for human survival.

In the third area of Explorer I's instrumentation, it was determined that micrometeorites offered no serious hazard to orbiting vehicles. Two wires on the Explorer I erosion gage were fractured during the firing of the last stage; no additional fractures occurred during the satellite's lifetime. The impact microphone inside the vehicle registered the collision of several small particles on the shell.

Visual and photographic observations of the Explorers are contributing to still another area of science. The satellites were sighted and photographed hundreds of times. These pictures have been used to compute and predict more precise orbital data for other satellites, and are being analyzed to provide information about the earth's equatorial bulge, and anomalies in the earth's gravity.

Two of the three Army-launched satellites are still orbiting. Explorer I is expected to stay aloft five to seven years; Explor-

Army Starts Basic Research Study Of Small-Scale Weather Variations

FORT HUACHUCA, Ariz.—A large-scale basic research program in the little-known field of local weather variations, is under way here at the Meteorology Department of the Army Electronic Proving Ground.

Small-scale variations in the weather cannot be seen on the usual weather map, nor can they be forecast with the normal methods of weather prediction. But sudden and sometimes extreme local changes in the general weather pattern are especially troublesome to Army operations.

Variations in wind speed or direction and changes in temperature and humidity, for example, affect the launching of rockets and other missiles, the laying of smoke screens, the use of radar or other electronic devices, air traffic and the radiological fallout of tactical atomic weapons.

Instead of proceeding on rather limited basic information about local weather variations, the Meteorology Department here wants to accomplish more basic research in this field.

Scientists from all over the nation will be asked for contributions. A symposium for physicists, chemists, mathematicians and agriculturists, as well as meteorologists, will be held here in December.

The department already has Explorer IV's lifetime may end in 10 to 11 months. Explorer III, its batteries exhausted and missions completely fulfilled, reentered June 28, 1958.

contracts with the Universities of Wisconsin and Arizona for weather research. When the program gets into full swing it is expected to be the largest the Army has attempted in this field since World War II.

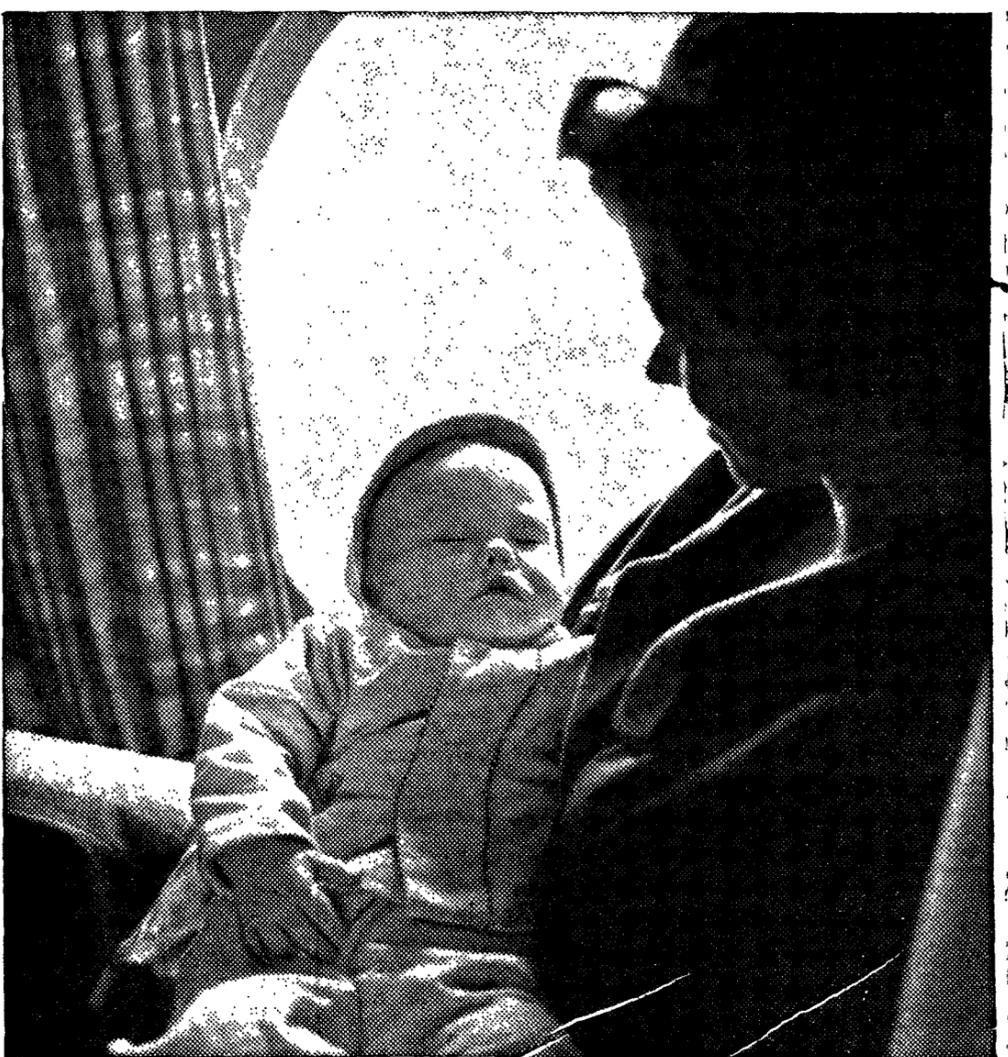


The automobile motor began to pound; then finally stopped. The worried boy friend said to his date: "I wonder what that knock could be?"

"I dunno," answered the pretty blonde, "but it isn't opportunity."

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OLD AND NEW—Mrs. J. A. Barclay displays a turn of the century golf style while Mrs. R. O. Lehtonen wears a more current golf fashion. Mrs. Barclay, wife of Brig. Gen. J. A. Barclay, Commander of the Army Ballistic Missile Agency, and Mrs. Lehtonen, president of the Redstone Arsenal Officers Wives Club, were among 13 ladies participating in the fashion show held last Wednesday afternoon by the Golf Group. Redstone Arsenal Officers Wives Club, at the Squirrel Hill Officers Club.

Golf, Spring Fashions Highlight Club Luncheon

"Fashion Tips for the Tee-Off", a showing of current golf and spring fashions, highlighted the first monthly luncheon of the new season held last Wednesday afternoon by the Golf Group of the Redstone Arsenal Officers Wives Club.

Sixty-one ladies attended the event, including 15 ladies from the Huntsville Golf and Country Club. The program included the latest styles in walking shorts and casual separates for use on the golf course, as well as afternoon dresses and evening fashions.

of the century styles were shown, modeled by Mrs. J. A. Barclay and Mrs. W. J. Durrenberger. Mrs. Barclay's dress, designed for the golf course, featured a white high-necked shirtwaist and long black skirt. At the waist was a scorecard with ivory pages, beautifully bound in sterling.

Mrs. Durrenberger's dress, two-piece and full length in black, was an afternoon style.

In sharp contrast were the current fashions, featuring the full array of spring colors.

Mrs. T. H. Crommer narrated the show and was in charge of the arrangements for the fashions.

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AT NEWCOMERS COFFEE — Mrs. J. M. Colby, wife of Brig. Gen. Colby, Deputy Commander of the Army Ordnance Missile Command, serves coffee during the Newcomers Coffee held Jan. 27 by the Redstone Arsenal Officers Wives Club. In line to be served are, left to right, Mrs. John Palsrok, Mrs. Paul Lamoure, Mrs. Perry Mayo and Mrs. J. C. McBroom. Also pouring during the Coffee, which recognized all newcomers officers wives arriving at the Post during the last six months were: Mrs. J. A. Barclay, wife of Brig. Gen. Barclay, Commander, Army Ballistic Missile Agency; Mrs. J. G. Shinkle, wife of Brig. Gen. Shinkle, Army Rocket and Guided Missile Agency; Mrs. K. T. O'Keefe, wife of Col. O'Keefe, Commander, Redstone Arsenal; Mrs. W. J. Durrenberger and Mrs. Jerome Jefferds.

Redstone Arsenal Officers Wives Group To Sponsor Luncheon

The Officers Wives Club Luncheon for February will be sponsored by the Redstone Arsenal Officers Wives Group, chairman, Mrs. K. T. O'Keefe.

The luncheon, which will take place at 12:30 p. m., Tuesday, 10 Feb., at the Squirrel Hill Officers Club, will feature a Valentine Theme. Maj. M. D. Parker of the Ordnance Guided Missile School will be guest speaker and will discuss the history of St. Valentine's. In addition, there will be a comprehensive display of the original Hallmark collection of authentic Valentine Day cards and tokens dating from 1780 through the gay 90s.

A choral recital will be given

80 ATTEND NEWCOMERS COFFEE HELD BY OFFICERS WIVES CLUB

More than 80 members and newcomers attended the Newcomers Coffee held Jan. 27 by the Redstone Arsenal Officers Wives Club at the Squirrel Hill Officers Club.

All officers wives who had arrived at the Post during the last six months were invited to attend the event, and 40 newcomers were present. Each of the Club's numerous activities was depicted by the Huntsville High singing group, directed by Mrs. Cleo Love, with musical accompaniment.

For off-post reservations, members should call Mrs. Jesse A. Garner, JE 4-4326 on-post, Mrs. Henry E. Syzek, ext. 7056.

Reservations must be placed by Friday, Feb. 6. Cancellations must be made by noon on Monday, Feb. 9. The post nursery will be open.

a decorative table, with the activity chairman present to sign up interested newcomers for participation.

Activities represented included bowling, gardening, Pre-Teen Club, Scouts, bridge, sewing, golf, art, Thrift Shop, Teen Club, fund raising, and Red Cross.

The main table was highlighted with a bouquet of chrysanthemums, asters, and iris.

Mrs. H. H. Wishart headed the Hostess Committee for the event. Committee members included: Invitations and Name Tags, Mrs. A. H. Williams, Mrs. J. T. Roby, Mrs. J. C. McBroom, Mrs. N. I. Reiter, Decorations, Mrs. L. L. DeNoya and Mrs. R. P. Beatty; arrangements, Mrs. H. H. Wishart and Mrs. T. B. Stewart.

Some men spend fifty dollars on a canary. Others spend twice as much on a lark.

Bridge, Canasta Groups List Results

The Bridge and Canasta Groups of the Redstone Arsenal Officers Wives Club met Thursday for weekly competition with the following results:

DUPLICATE BRIDGE: 7 tables, North-South, first Mrs. J. J. Fagan and Mrs. Pierre Tisdale; second, Mrs. Clifton Nooncaster and Mrs. Marvin Parker.

East-West, first, Mrs. C. C. Young and Mrs. R. W. McNamee Jr.; second, Mrs. Sarah Gibbs and Mrs. Conway.

PARTY BRIDGE: 5 tables, high — Mrs. H. L. Carmichael; second, Mrs. J. J. Bull; third, Mrs. R. G. Cooper; low, Mrs. R. J. Brown.

CANASTA: 3 tables, high, Mrs. H. R. Arnold; low, Mrs. Eugene Coogan. The Canasta group will meet again on Thursday, 5 Feb., at 12:30 p. m. at the Squirrel Hill Officers Club, for weekly competition. All Club members are invited to participate. For reservations call Mrs. Coogan, ext. 8055.

She is no newcomer to fashion, being a member of Fashion Group Inc., an international fashion organization.

Mrs. H. M. Murray and Mrs. W. J. Durrenberger headed the luncheon committee. Mrs. J. M. Bishop was responsible for the props. Mrs. O. O. Roundy, Golf Chairman, opened the program and Mrs. George Kocbbe, tournament chairman, gave plans for the spring season competition. Mrs. H. H. Northington was in charge of publicity.

Club members who served as models included Mrs. J. A. Barclay, Mrs. W. J. Durrenberger, Mrs. R. O. Lehtonen, Mrs. J. M. Bishop, Mrs. H. H. Wishart, Mrs. J. A. Dasche, Mrs. W. R. Shoemaker, Mrs. H. M. Murray, Mrs. W. R. Mullane, Mrs. J. E. Devine, Mrs. M. L. Wilson, Mrs. R. L. Spragins, and Mrs. J. S. Jefferds.

Fashions were courtesy of Harold's of downtown Huntsville and Parkway Center. Golf equipment was courtesy of K. V. Estes, Pro-Shop, Municipal Golf Course.

First door prize, a gift certificate from Harold's, went to Mrs. S. J. Dobbs. Second prize, a floral centerpiece, went to Mrs. G. B. Daughton.

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Other styles in . . .

Ship'n Shore

Who but Ship'n Shore would think of this: a gay array of French sailors embroidered clear around her overblouse. More fun, too, in the colorful collar and tie. In white combed cotton broadcloth, with bright trim. So very, very sudsable.

She'll be thrilled by our new Ship'n Shores, from 1.98

Buy Now For Easter — Use Our Lay-Away Plan!

- OPEN 'TIL 8 P.M. THURSDAYS
- WE CASH PAYROLL CHECKS

T. T. TERRY'S

LADIES' DEPARTMENT

S. Side Square

— Jim Terry, Owner



PREVIEW — Two Turkish soldier-students at the Ordnance Guided Missile School give two members of the post's Service Club staff a "preview" of movies on Turkey which they showed at the YMCA in Birmingham Friday. The public was invited to the showing. Left to right in photo above are M-Sgt. Hulusi Ozkilig, and Miss Molly Patterson. Host for the entertainment was the Birmingham Servicemen's Organization. Thirty-two Turkish students at the Missile School, together with about 30 more NATO and American servicemen, traveled to Birmingham for the event under the auspices of the Redstone Service Club. After the showing of the film, a dance for military personnel was held at the YMCA.

Special Services Activities

POST SERVICE CLUB OPERATING HOURS
Monday thru Saturday 1000-2200.
Sunday and Holidays 0900-2200.

LIBRARY OPERATING HOURS
Monday thru Friday 0900-2200.
Saturday and Holidays 1000-2200.
Sunday 1200-2200

CRAFTS SHOP OPERATING HOURS
Monday and Tuesday—Closed.
Wednesday thru Friday 1400-1630 and 1730-2200.
Saturday and Holidays 0800-1630
Sunday 1230-1930.

RSA BOWLING LANES OPERATING HOURS
Mon., Wed., and Sun., 1300-2300.
Tues., Thurs., Sat., Hol., 1000-2300.
Friday 0900-2300.

League Play:
Friday 1300-1600 and 2000-2300
and 1600-1715 and 2000-2300.

ENJOY "OK" USED CAR SAVINGS BUY WITH WARRANTED CONFIDENCE HILL CHEVROLET CO.

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Expertly Done At
FIVE POINTS
Lauder Shop
715 Prait Ave.
Phone JE 4-4482

FOAM RUBBER
Random lengths
1/4" to 4 1/2" thick
Lb. ----- **\$100**
Foot Lockers ----- \$5.98 Up
Army-Navy Surplus Co.
No. 7 S. Side Square
"We Buy and Sell Anything"
Phone JE 4-6991
Open All Day Wednesday & 'Til Late Thursday Night

BULLETIN BOARD OF 1872 SPEAKS VOLUMES ABOUT THAT DAY AND TIME

Bulletin boards often serve as remarkable tell-tale signs of the times from the standpoint of history.

The rules below, unbelievable as they may seem today, were actually posted - and accepted as perfectly normal - in the Mt. Cory Carriage & Wagon Works in 1872.

1. Office employes will daily sweep the floors, dust the furniture, shelves and show-cases.
2. Each day fill lamps, clean chimneys, and trim wicks. Wash the windows once a week.
3. Each clerk will bring in a bucket of water and scuttler of coal for the day's business.
4. Make your pens careful'y.

Monday thru Thurs., 1745-2300
1600-1715.

GOLF DRIVING AND ARCHERY RANGE OPERATING HOURS
Sun thru Sat., 1300-1830.

POST GYMNASIUM OPERATING HOURS
Monday thru Friday 1030-2130
Saturday 0930-1700
Sun. — 1300-1600.

The Gym will be reserved for ladies of the post Tuesday, Wednesday and Thursday mornings from 0915-1115 hours.

You may whittle nibs to your individual taste.

5. This office will open at 7 a. m. and close at 8 p. m. daily, except on the Sabbath, on which day it will remain closed.

6. Men employees will be given an evening off each week for courting purposes, or two evenings a week if they go regularly to church.

7. Every employee should lay aside from each pay a goodly sum of his earnings for his benefit during his declining years, so that he will not become a burden upon the charity of his betters.

8. Any employee who smokes Spanish cigars, uses liquor in any form, gets shaved at a barber shop, or frequents pool and public halls, will give me good reason to suspect his worth, intentions, integrity, and honesty.

9. The employee who has performed his labours faithfully and without fault for a period of five years in my service, and who has been thrifty and attentive to his religious duties, is locked upon by his fellowmen as a substantial and law-abiding citizen, will be given an increase of five cents

Everybody needs money sometime

when you do . . . visit **MUTUAL!**

If you need **UP TO \$2000**

phone: **JEfferson 6-8591**
before noon to arrange for money the same day!

Amount of Contract	Cash You Receive	18 Monthly Payments	Total Cost of Loan
\$360.00	\$314.28	\$20.00	\$45.72
432.00	376.33	24.00	55.67
504.00	442.39	28.00	61.61
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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106 South Side Square
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Open daily 9 to 5 • Saturday 9 to 1
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CARTOON of th WEEK
SELECTED FROM
NAVAL BASE NEWS PHILADELPHIA, PENNA.

"REMINDS ME OF THE OLD NAVY."

SOP

"HELLO AL, JUST STOPPED BY TO... MY, HOW NICE-RUFFLES!"

per day in his pay, providing a just return in profits from the business permits it.

BE WORTHY OF YOUR HIRE!
Zachary U. Geiger, Sole Proprietor Mt. Cory Carriage & Wagon Works

(The foregoing appeared in LEVER STANDARD, published by Lever Brothers Company, Dec. 24, 1958).

See ROACHES?
Call **ANDY!**
Off. JE 2-5078, Res. JE 6-3910

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Three fine lines of new watches—ELGIN, MIDO & SELDON'S. MIDO GUARANTEED for three years. Finest watch repair by Seldon Smith.
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Valentine Special!

Thurs., Fri., Sat., — Feb. 5-6-7
Thurs., Fri., Sat., - Feb. 12-13-14

\$20.00 PERMANENTS ---- \$12.50
\$15.00 PERMANENTS ----- \$7.50

(Let's Get Acquainted)

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Phone JE 9-1111

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ATTENTION!
Military and Civilian Personnel WATCH AND JEWELRY REPAIR at PX Prices
3 Days Service — Certified Watchmaker

- ☆ DIAMONDS — 10% ABOVE WHOLESALE
- ☆ WATCH BANDS — 25% OFF

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Tues., Wed., Fri., Sat., 'til 7 p.m.
Sundays 'til 5 p.m.

Spring IS A — "Happy Season"

We're blossoming out with all you need to get into the swing of spring . . . everything as fresh and new as the delightful season itself and just as welcome! You'll like our kind-to-your-budget prices, too . . . so breeze in soon, and get off to a bright spring start!

Open Mondays and Thursdays!
'til 8 P. M.

Member Downtown
Park 'n Shop!

The Town & Country Shoppe

No. 10 No. Side Square Phone JE 2-5861



TWENTY-FIVE TURKEYS were released by the Alabama Conservation Department in Hunting Area 34 at Redstone Arsenal last week—but Arsenal hunters needn't start seeing visions of Thanksgiving dinners just yet. There's no open season on turkeys in Madison County this year, the Game Warden Division of the Redstone Provost Marshall Office pointed out. Besides, it will probably be at least five years before the Arsenal turkey population multiplies sufficiently to warrant allowing hunting to begin on the post, officials added. In photo above, the caged fowl are being turned loose by Sgt. Buford Harrison (left), Redstone Deputy Game Warden, and William P. Kelly, Huntsville, district supervisor with the Alabama Game and Fish Department. The turkey contingent, including four gobblers and 21 hens, was brought to Redstone from Barbour County. Hunting Area 34 is just off Buxton Road in the southern part of Redstone near the Tennessee River.

Billy McDaniel Named 'Safe Worker of Week'

The "Safe Worker of the Week" as selected by the RSA Safety Division is Billy G. McDaniel, Printing Plant Equipment Mechanic, Post Quartermaster Maintenance Branch, Office Appliance Repair Section.

McDaniel's selection was based on the recommendation from his supervisor quoted in part as follows. "McDaniel entered government service 4 Feb. 1957 and in the intervening years has had an exemplary accident-free record. His work involves handling heavy and complicated machinery with electrical and mechanical variations, and requires constant alertness and painstaking attention to detail. He is noted for his cheerful service to organizations throughout the arsenal, and it is with pleasure that I nominate him for RSA Safe Worker of the Week."

Prior to his employment at Redstone Arsenal, he worked for a short time in Hammond, Ind., and prior to that was in the Air Force, serving one and a half years on Okinawa. He lives with his wife, Peggy, in Fayetteville. However, he is a native Huntsvillian, having lived here most of his life.

He has never received an in-



BILLY G. McDANIEL

* * *

jury serious enough to cause him to lose time from his job. He thinks that working safely is a good idea all the way around and that everybody profits.

REDSTONE CHESS TEAM LOSES TO FT. McCLELLAN

The Redstone Arsenal Chess Team lost its series of matches with Fort McClellan on Jan. 24 and 25.

The matches were held at the Fort McClellan WAC Service Club.

The Redstone team consisted of SP-4 Mike Schulman, Pvt. Bill Colmer, Pfc. Basil Gordon, Ph. D., and Pfc. John Quigley. The McClellan team included Carlos Gacia, Bob Altar, Al Brodeur, and Ted Holt.

Redstone got off to a bad start,

BASKETBALL SCOREBOARD

"B" Det. OGMS 2-2, Hq & Hq Det-9 (forfeiture).
2nd ETD-40, 864th AF-33.
"B" Det. ABMA-59, RSA Officer-49.
1st ETD-44, Hq. UTC-37.
3rd ETD-45, 9615 Signal Det-

its only win being Schulman over Garcia. Colmer lost to Altar, Gordon lost to Brodeur, and Quigley lost to Holt, making the score 3-1 for McClellan.

Redstone recovered in the second round, its only loss being Colmer to Gacia. Schulman drew Altar after an unusually long game that was well played and closely contested throughout. Gordon defeated Holt and Quigley defeated Brodeur, making the score 4½ - 3½.

The third round was again disastrous, the only win being Schulman over Brodeur. Two games were lost by Gordon and Quigley who both played Garcia, due to the length of the Schulman - Altar match. Colmer also lost to Holt, making the score 7½ - 4½. A comeback was attempted in the fourth round when Schulman defeated Holt and Colmer defeated Brodeur. But Gordon lost to Altar, making the score 8½ - 6½. Since the series was lost, Quigley and Altar did not play.

41. Hq & Hq Det 2-59, "B" Det OGMS-40.

"A" Det OGMS-38, 291st MP Co-35.
"B" Det OGMS-74, 228th Ord Plt-34.
"B" Det ABMA-73, Hq & Hq Det 2-54.

RSA Officers-60, 9615 Signal Det-46.
Hq & Hq Det 1-89, 291st MP Co-39.

BASKETBALL SCHEDULE FEBRUARY 4-14

Feb. 4-1st ETD vs 291st MP Co—1800. 3rd ETD vs Hq Det 1—1930. "B" Det ABMA vs 228th Ord Plt—2045.

Feb. 5-864th AF vs Hq UTC—1800. "B" Det OGMS 1 vs 9615 Signal Det—1930. Medical Det vs "B" Det OGMS 2—2045.

Feb. 6-Hq Det 2 vs "A" Det OGMS—1800. 2nd ETD vs 291 MP Co—1930. RSA Officers vs Hq Det 1, 2045.

Feb. 7-3rd ETD vs 1st ETD—1300. Medical Det vs 864th AF—1430.

RSA unit level basketball tournament, Feb. 9-16

1st round
Feb. 9th—"B" Det OGMS 2 vs Medical Det—1800. 291st MP Co vs 9615 Signal Det—1930. Hq

RSA MIXED BOWLING LEAGUE

(Standings as of 26 Jan.)

	Won	Lost
Peapickers	93½	41½
Bombers	80½	54½
Pindroppers	75	60
Hi - Counts	68½	66½
Bowlweevils	60	75
D-Yanks	60	75
Holy Rollers	56½	78½
Blindmice	47	88
200 Games — Men: Usinger 214, Kloos 224.		
180 Games — Women: Kloos 188.		

UTC vs 864th AF—2045.

Feb. 10-3rd ETD vs Officers—1800. "B" Det ABMA vs Det 2—1930. 1st ETD vs 228th Ord Plt—2045.

RSA BASKETBALL STANDINGS

	Won	Lost
Hq & Hq Det 1	11	0
"B" Det ABMA	12	1
1st ETD	10	3
Officers	9	3
291st MP Co	9	3
3rd ETD	8	5
"B" Det OGMS 1	6	7
2nd ETD	5	7
Hq & Hq Det 2	5	8
"A" Det OGMS	5	8
864th AF	3	10
9615 Sig Det	3	10
Hq UTC	3	10
Medical Det	2	8
"B" Det OGMS	2	11
228th Ord Plt	2	4

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OPEN 6:00 - START 6:30

THURSDAY & FRIDAY

20 MILLION MILES TO EARTH

— Plus —

"DESERT HELL"

BRIAN KEITH
BARBARA HALE

SATURDAY

Paramount presents CORNEL WILDE JEAN WALLACE *The Devil's Hairpin* TECHNICOLOUR

— Plus —

"AMBUSH AT CIMARRON PASS"

SCOTT BRADY

SUNDAY & MONDAY

DOE HOPE FERNANDEL ANITA EKBERG MARTHA HYER *Paris Holiday* TECHNIRAMA • TECHNICOLOR • UNITED ARTISTS



ANYONE FOR DUELING?—Properly decked out for a bit of swordplay is this week's Rocket Pin-up, Miss June Laughmiller. A resident of Decatur, she works in the Industrial Division of the Army Rocket and Guided Missile Agency. June's wearing her heart on her blouse in this photo—but in view of that cutieass it'd take a brave lad indeed to steal it away. (Photo by Jimmy Taylor.)

At the Service Club

Bon Voyage to Francis! She left Sunday for four months at Florida Southern College in Lakeland. We're looking forward to seeing her back in June.

The Redstone Arsenal Chess Team lost a series of chess matches to Fort McClellan on January 24 and 25. The Redstone team consisted of Sp. 4 Mike Schulman, Pvt. Bill Colmer, Pfc. Basil Gordon, and Pfc. John Quigley. We wish them better luck when they meet with Fort McClellan in March. The Redstone Arsenal Chess team meets every Tuesday night at 1900 hours. Let's get that loving cup back from Fort McClellan, Fellas!

Over sleeping didn't spoil the

chances for Bill Gallucci, Hq. and Hq. Det., USAG, of winning the Pool Tournament on Thursday night. Robert Swearingner, Det. B, ABMA, came in second place. Hope to see you here for the tournament at 1900 hours on Thursday night. Bill Gallucci urges everyone interested in playing pool to please contact him.

Did you see the new mural on the left side as you walk in the door of the Service Club lounge? If you haven't—you must come see it! RICHARD COONES, 2nd ETD, is the artist.

Everyone, well practically everyone, made the trip to Birmingham on Saturday night for the dance at the YMCA. Two films on Turkey were shown. John Strickland was very kind to offer his services as projectionist. We would like to thank you, M-Sgt. Ahmed Hulusi Ozkilic of Turkey.

Saturday afternoon we found Bob Klein, Service Club Bridge Tournament Director, conducting a four table Howell tournament. Mike Speir, Det. A, ABMA and A. Null were the tournament winners.

The beginners, tango, and jitterbug classes will meet on Wednesday starting at 1930 hours.

Another TOUR to Birmingham is on schedule for Saturday, February 7. The bus leaves at 1200 hours from the Service Club. Please be on time so we can get

Movie Schedule

Wednesday, 4 Feb., "City of Fear" starring Vince Edwards and Lyle Talbot. Time 1315, 1745 and 1945.

Thursday and Friday, 5 and 6 Feb., "The Big Country" starring Gregory Peck, Jean Simmons, Carroll Baker, Charlton Heston and Burl Ives. Time 1315, 1745 and 1945.

The Buddy Bair Orchestra will play for our Valentine Dance on February 17 starting at 2000 hours. Buddy plays trumpet and trombone, in addition to being an excellent vocalist and Master of Ceremonies. His sister, Jacque Lynn, is featured vocalist.

A tour to Birmingham is planned for February 21. The Birmingham hostesses will entertain with a buffet supper and dance at the YMCA. The bus leaves from the Service Club at 1600 hours.

All of you Square dancers get your dancing shoes on for big dance on February 27 at 2000 hours. Coffee at 2000 hours and following this we're off for a big game of Bingo on Monday night. Get your lucky card in the lounge and be ready for the game at 2015 hours.

BARBARA

Sustained superior performance awards with cash awards, have recently been received by the following personnel at Redstone Arsenal, it was announced by the Redstone Incentive Awards Office:

Reavis C. O'Neal, Jr., of the Ordnance Guided Missile School; Mrs. Sylvia Weyandt, Redstone Arsenal; Allan R. Monger, RSA; Mrs. Clemmons T. Glen, Army Ballistic Missile Agency; Garvin R. Emanuel, ABMA; Kurt H. Debus, ABMA; Douglas L. King, ABMA; James H. Draughon, ABMA; Dr. Ernst Stuhlinger, AB-

MA; Dr. Helmut Hoelzer, ABMA; Marion C. Taylor, Army Rocket and Guided Missile Agency; Mrs. Kathleen N. Wilks, ARGMA; Luther E. Powell, ARGMA; William C. Trice, RSA; Charles H. Reed, RSA; Mrs. Mary P. Prigler, RSA; Gus Quillen, RSA; Miss Patsy Patterson, ARGMA; Mrs. Bernece A. Pressnell, RSA; Mrs. Thelma G. Patterson, RSA.

P. Fearson Shorridge, ABMA; Mrs. Jacque H. Laney, ARGMA; Mrs. Jonnie H. Morrison, ARGMA; Ramon J. Samaniego, Jr., RSA; Raymond A. Kline, RSA; Erich W. Neubert, ABMA; Karl L. Heimbarg, ABMA; Roland L. Guard, ABMA; Lynn Jonakin, ABMA; and J. D. Pettus, ABMA.

Two Ex-Redstoners Named to Executive Posts in Pittsburgh

"Old-timers" at Redstone Arsenal might be interested to learn of a couple of appointments of ex-Redstoners to executive positions with the U. S. Steel Corp. in Pittsburgh.

George H. Potts, who was deputy chief of the Ammunition Division and later chief of the Transportation Office while here, has been named as executive assistant in the office of the president of U. S. Steel. He left Redstone about four years ago.

D. H. Boyd, who served here as a first lieutenant in 1945-46 in the Ammunition Division, has been named president of the corporation's divisions, and is reportedly one of the youngest division chiefs in U. S. Steel.

In addition to Sustained Superior Performance Awards, the following also received Outstanding Performance Ratings: O'Neal, Mrs. Glen, Dr. Debus, Draughon, Dr. Stuhlinger, Dr. Hoelzer, Taylor, Mrs. Pressnell, Mrs. Morrison, Samaniego, Neubert, Heimbarg, and Jonakin.

Recipients of Outstanding Ratings included: John E. Fenton, ARGMA; Heyward D. Brewster, ABMA; Harold E. Price, ABMA; Charles I. Cooley, ABMA; John W. Torzillo, ARGMA; and J. W. Herring, ABMA.

Births at Post Hospital Listed

Following is a listing of births at the Redstone Army Hospital during the period Jan. 7-21:

William Lonzie, 11 lbs., 1 1/2 oz., 10 Jan., son of Pfc. and Mrs. Willard W. Byrom.

Stephanie Mathis, 8 lbs., 8 1/4 oz., 18 Jan., daughter of Capt. and Mrs. Lowell D. Twitchell.

In most American households good food is plentiful and most of us are thick of it.

LYRIC THEATRE

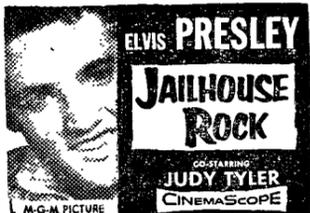
"HUNTSVILLE'S FINEST"

WED., THURS., FRI.

"CHINA DOLL"

VICTOR MATURE

SATURDAY



Plus



"I WANT TO LIVE"

6 DAYS — STARTING SUNDAY



GRAND THEATRE

Wednesday - Thursday - Friday



Saturday - Double Feature!



Starts Sunday



WHITESBURG DRIVE-IN

THURSDAY & FRIDAY



SATURDAY Fake Money Thriller!



Ride Out For REVENGE

RORY CALHOUN GLORIA GRAHAME LLOYD BRIDGES JOANNE GILBERT

SUNDAY & MONDAY



TUESDAY & WEDNESDAY



TUES., WED. & THUR.

"Battle Cry"

- VAN HEFLIN
- ALDO RAY

In Color

plus



THE CURSE OF FRANKENSTEIN

Have You?

PLEASE TRY NOT TO PAIN!

FRIDAY AND SATURDAY



PLUS

"Last of the Badmen"

STARTS SUNDAY



Portion of 'Today' TV Show Originates From ABMA's Fab Lab

A portion of the NBC television program "Today", featuring Dave Garroway, originated live at Redstone Arsenal Monday. It was shot in the Fabrication and Assembly Engineering Laboratory of the Army Ballistic Missile Agency.

The scenes will be part of a full program devoted to an examination of progress made by the United States in missiles and space during the past year.

The program was in commemoration of the first anniversary of the launching of the Army's first earth satellite, Explorer I.

A camera tour of the lab was followed by an interview between Garroway and Big Gen. Joseph M. Colby, Deputy Commanding General of the Army Ordnance Missile Command, and Dr. Werner von Braun, Director, development Operations Division ABMA. Garroway conducted the interview from New York via cable.

The show carried scenes from other military installations throughout the country.

Also included were portions from the National Aeronautics and Space Administration and the Advanced Research Projects Agency of the Department of Defense.



'SOLDIER OF MONTH' HONORED—Redstone Arsenal's "Soldier of the Month" Pfc. David C. Blank (center) looks on as his fiancée, Miss Mary Ellen McGinn, receives a corsage of roses from Bill Carter, manager of the Holiday Inn Motel. As part of a Huntsville Chamber of Commerce program to honor Redstone's top enlisted man each month, the Holiday Inn Motel played host to the chosen GI for a weekend of "luxury lodging," including meals in the motel's restaurant. Pfc. Blank, a member of Detachment B, Army Ballistic Missile Agency, is a native of Hurlisford, Wis. Miss McGinn was a visitor in Huntsville from her home in Glenview, Ill. She is a student at the University of Wisconsin, and Pfc. Blank plans to resume his studies there after completing his military service. Pfc. Blank and Miss McGinn were guests Saturday night of American Legion Post 37 for dinner and floor show. Monday night, Pfc. Blank was a guest of the Huntsville Kiwanis Club for dinner, and was presented an inscribed cigarette lighter. All transportation for the serviceman's "big weekend" was furnished by the A-1 Taxi Co. In cooperation with the Kiwanis Club, the "Soldier of the Month" program is sponsored by the Redstone Arsenal Committee of the Chamber of Commerce. Co-chairman of the Committee are William H. Stevens and Maj. Gen. (Ret.) R. L. Spragins. Pfc. Blank was "Soldier of the Month" for November, but chose to postpone receiving his honors until this past weekend.

Underwood Heads Local Lodge of International Assn. of Machinists

Redstone Lodge 336, International Association of Machinists has elected the following officers for the coming year:

Willard D. Underwood, president; T. W. L. Haynes, vice-pres-

ident; Frederick S. Owens, Sr., recording secretary; John J. Weaver, financial secretary; Joseph L. Edwards, treasurer; Elgan F. Bledsoe, conductor; Leslie O.

Hatton, sentinel; Jack M. Carroll, Billy E. Edwards, and Charles R. Madison, trustees.

Redstone Lodge 336 meets the first and third Monday nights of each month at the new Carpenter's Hall located at 2505 Clinton Ave., West in Huntsville.

The next regular meeting will be held at 7:30 p.m. Feb. 2.

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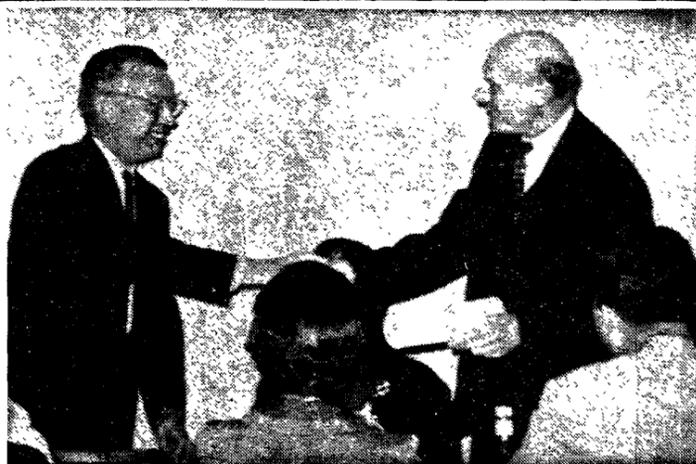
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IRE MEMBERSHIP FOR GEN. BARCLAY—Brig. Gen. J. A. Barclay (left), Commander of the Army Ballistic Missile Agency, receives a Senior Membership diploma in the Institute of Radio Engineers from Dr. Ernst Weber, national IRE president. Dr. Weber, who is also president of Brooklyn Polytechnic Institute, made the presentation at a recent meeting of the Huntsville Chapter of IRE, at which he was principal speaker.

SPORTS QUIZ

1. Name the only two boxers ever to hold three world titles simultaneously.
2. What fighter held the heavyweight title the longest?
3. Which major league player hit the most home runs during the 1958 season?
4. Name the American league pitcher who had the best record last year.
5. What change to goal posts

did the National Collegiate Athletic Assn. rules committee make recently?

(Answers to Quiz)

1. Bob Fitzsimmons held the light, middle and heavyweight titles and Henry Armstrong held feather, light and welterweight crowns.
2. Joe Louis, 1937-49.
3. Ernie Banks, Chicago Cubs, with 47.
4. Bob Turley, Yankees, with 21-7.
5. They widened the posts from 19 feet 2 inches to 24 feet to encourage field goal attempts.

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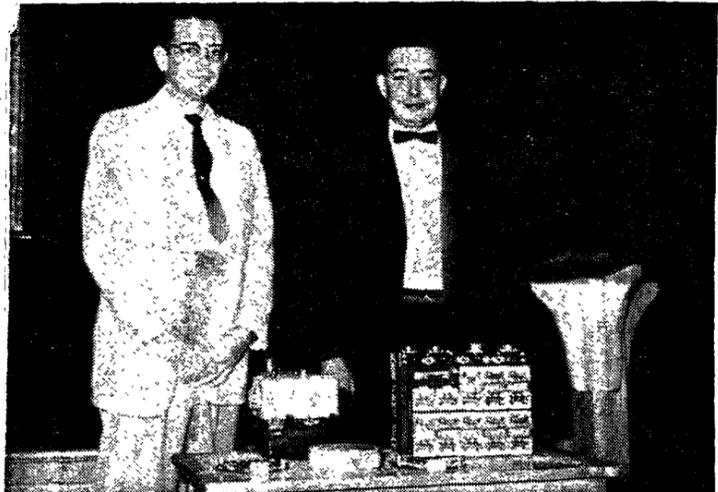
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SPACE ELECTRONICS AND TELEMTRY GROUP ORGANIZED—Two electronics engineers from the Army Ballistic Missile Agency, Walter O. Frost (left) and Olin B. King, have obtained the necessary 25 signatures on a petition requesting formation of a Professional Group on Telemetry and Remote Control in the Huntsville Section of the Institute of Radio Engineers and the group is now being organized. Frost is a past chairman of the Huntsville Section, and King has been named chairman of the Professional Group. IRE national headquarters has recently mailed ballots to members of this group throughout the country on a proposal to change its name to Professional Group on Space Electronics and Telemetry.

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 TV Room of Service Club.

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

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

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

Tuesday — 1630 hours — Junior Choir Rehearsal.

Wednesday — 1845 hours — Chancel Choir rehearsal.

RSA PARK — Sunday, 0945 hours — Bldg. 9600 — Sunday school classes.

JEWISH — Temple B'Nai Shalom (corner of East Clinton and Lincoln)

Friday — 2000 hours — Regular service, O'Neg Shabbot (Sabbath Social) at Temple Annex following service.

Sunday — 0930 hours — Religious School at Temple Annex.

CATHOLIC

Sunday — 0745, 0845 and 1230 hours—Mass.

1830 — Youth Religion Class. in Chaplains Office

Monday — 1900 hours — Convert class in Chaplain's office.

Tuesday — 1930 hours — Novena in honor of Miraculous Medal. 200 hours — Choir practice.

Saturday — 1000-1045 hours—Altar Boys Class.

Neal: "If I had money I'd travel."

Bored She: "Would a quarter get you started?"

Catechism classes — 1000-1130.

Confessions — 1800-1900 hours.

DAILY MASS — 1130 Hours.

CHAPEL NO. 2 — Sunday — 1100 hours — Mass.

First Friday Mass—0900.

Dr. Grady King

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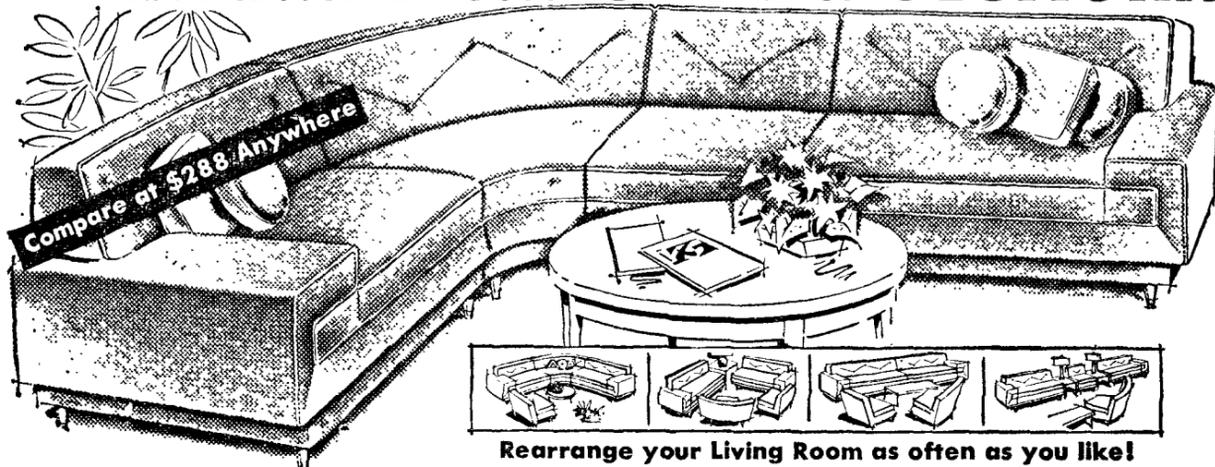
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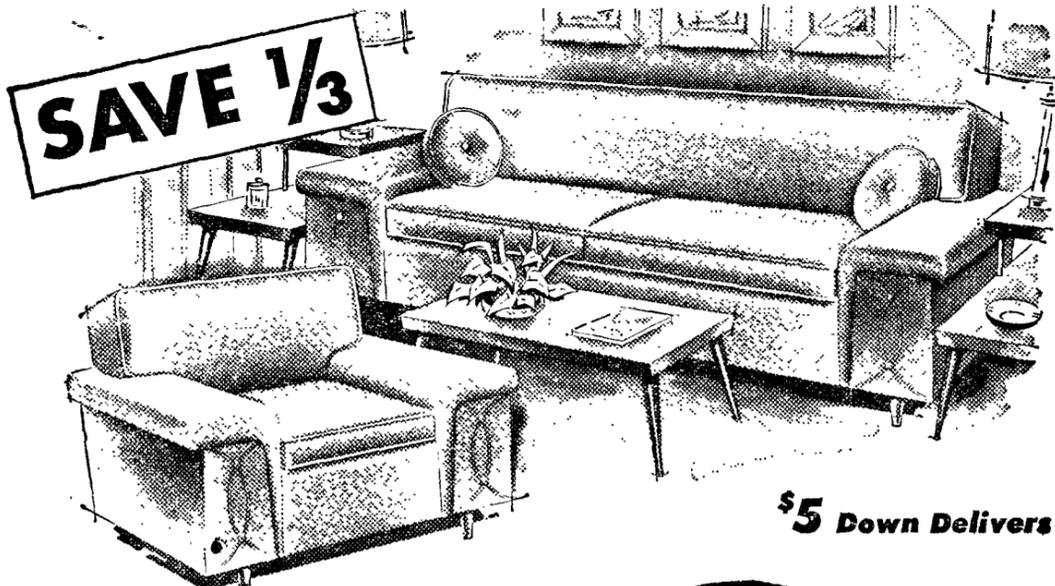
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CAPT. GERALD A. LUDICK

Capt. Ludick Named As 'Safety Supervisor'

Capt. Gerald A. Ludick, Chief, Nike Branch, SAM Division, Ordnance Guided Missile School, has been selected as the "Safety Supervisor of the Week" by the RSA Division based on recommendations from his supervisor.

Capt. Ludick is presently responsible for the training of U. S. and NATO enlisted troops in the Nike Ajax and Nike Hercules missile systems. In addition, as an extra duty, he is a studio instructor in television presentations from OGMS.

Capt. Ludick served as an enlisted man in World War II in the Pacific Theater. He re-entered the army in 1950 in the Transportation Corps and has served in Germany and several installations in the U. S.

He and his wife, Beverly, and son, Stephen, 10, live in the Capehart area on Redstone Arsenal. As an off-the-job diversion he has particularly enjoyed working with one of the small boys'

Safety Scoreboard

(As of 2 Feb.)

Days since last civilian disabling injury	68
Our Goal	75
Days since last military disabling injury	2
Our Goal	30
Days since last contractor personnel disabling injury	59
Our Goal	60
Days since last government motor vehicle accident	3
Our Goal	30

DRIVING RECORD
(Government Vehicles)

(As of 2 Feb.)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	2	3
Post Engineer Div. (RSA)	6	3
Provost Marshal Div. (RSA)	1	22
All Other RSA	4	4
Thiokol (ARGMA)	1	19
All Other ARGMA	1	30
OGMS	2	5
ABMA	0	32

Technical Writers Society's Local Chapter Formed

With an active membership campaign underway, the newly organized Huntsville Chapter of

the Society of Technical Writers and Editors is growing rapidly. A. M. Jupiter, of ARGMA, the chairman of the organization's steering committee, announced that applications for membership have been received from military, civilian, and contractor personnel in all major installations on the past.

In addition to Jupiter, the steering committee includes Ira Remer, ABMA; Paul Mattoon, Royer and Roger; Edwin M. Hart, ARGMA; Paul Bungard, OGMS; Mitchell Sharpe, ARGMA; Horace Champion, ARGMA; Edgar Gollop, ARGMA; and Yewell Lybrand, AOMC.

With the objective of encouraging professional development and training in the field of technical writing, the society is open to all technical writers, editors, and illustrators and to interested personnel in associated fields. It is a professional, non-profit organization with a national membership of over 2,500. In cooperation with the national program, the Huntsville Chapter will offer its membership stimulating programs, educational activities, and participation in a well-organized campaign for the expansion of technical writing as a profession. Information may be obtained



KIWANIS PRESIDENT VISITS—Kenneth B. Loheed (fourth from left), of Toronto, Canada, who is president of Kiwanis International, receives a briefing on Army missiles during his visit last week to Redstone Arsenal as a guest of the Army Ordnance Missile Command. Showing the Kiwanis chief models of the Honest John, Nike-Hercules, and Redstone missiles is Col. John G. Zierdt (second from right), AOMC Chief of Staff. Left to right in photo are: Maj. John E. Caryi, Canadian Liaison Officer at Redstone; D. C. Boone, president of the Huntsville Kiwanis Club; G. H. Stacy, of Centreville, Ala., who is Alabama state governor of Kiwanis; Loheed; Col. Zierdt; and Stuart Jones, Deputy Director of Civilian Personnel, AOMC, and a Huntsville Kiwanian.

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Next Session of Rocket Society Course Features Lecture on Guidance

Filmed lectures by William Russell of the Ramo-Wooldridge Corp. and Dr. William Pickering of the California Institute of Technology on Guidance will feature the next session of the Space Technology course being given at Lee Junior High School in Hunts-

ville tonight at 7 o'clock. The series of 17 filmed lectures is sponsored by the University of Alabama in cooperation with the local chapter of the American Rocket Society.

ville tonight at 7 o'clock.

The series of 17 filmed lectures is sponsored by the University of Alabama in cooperation with the local chapter of the American Rocket Society.

Dr. Pickering discusses Radio Guidance and its associated problems and limitations and gives a simple example. Mr. Russell speaks on Inertial Guidance. His lecture includes discussion of basic principles involved in gyros, accelerometers and stable platforms, as well as a discussion of the function of gravity in guidance.

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60 ACRES timber land, 4 miles S.E. of Arab, 1½ miles W. of Guntersville Lake on Thompson Falls Rd. Good stand pine timber, \$3,600.00. **T. M. DORMAN**, Arab, Ala., JU 6-2395. 1tc

FOR RENT — 4 room furnished apartment, 2 bedrooms, 311 Holmes Ave., N. E., (City Trailer Park) No phone calls please. 1tc

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FURNISHED COTTAGE on elevated 1-acre plot overlooking river and Buck Island at Guntersville. Two bedrooms, bath-shower, modern electric kitchen, living and dining room combination with beautiful sandstone fire place and large picture window. Tile floors and knotty pine paneling throughout. For info. phone JE 6-4597. tfe

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HOME SHOPPING is the modern way. Cosmetics are a must for all women. Call your Luzier's consultant, Mrs. Odell Whitt, 319 Sunset, Phone JE 2-3247 1.t.c.

LOW DOWN PAYMENT—3 bedroom brick ranch in Bel Air Heights, central air conditioning, approximately 1400 sq. ft. of living area. Phone JE 6-4375 after 5 p. m., Redstone extension 3820 during duty hours, ask for George Sack. 1 t. c

NEW—Army field shoes \$3.95. Navy dress shoes \$6.80; foam rubber 75c lb., long handled, heavy duty shovels, \$2.50. Warehouse Sales Co., 5013 Governor Drive, Phone JE 6-2103. 1.t.c

FOR RENT — Three room duplex apartment. Couple only. Call SP 3-4401, Hartselle. 1tc

FOR SALE: 1 acre lot, 4 miles east of Hazel Green, in Walnut Grove community. Contact Jean Hayle, ext. 3591. 1tp

SPECIAL—Westinghouse laundromat automatic washing machine, like new. Price born here raised elsewhere. Warehouse Sales Co., 5013 Governor Drive, Phone JE 6-2103. 1.t.c

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FOR SALE — Complete fireplace set, folding brass screen with brass tools, holder and wood basket. Also brass andirons and iron grate. JE 4-6812. 1tp

FOR RENT — New 3 bedroom cottage, furnished. Buck Island (off Hwy. 431 on Lake Guntersville 4 mi. north of Guntersville.) Boat Dock. \$100 per month. JU 2-3914. 2-11-p

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 Masseuse in charge. Phone JE 2-2444. tfe

FOR RENT—New house in Guntersville in Sunrise Shores waterfront, 3 bedrooms, bath, utility room and carport, \$120.00 per month, unfurnished. Phone JU 2-4959. tfe

NOW OPEN — Self service coin operated Brandon Street Laundromat. Open 24 hours a day 6 days a week at 2108½ Brandon St. S. W., next to Hill's Super Market. tfe

SCHOOL OF CHARM now open, courses in personality development, exercise, modeling, costuming and make-up. Classes begin Thursday, Jan. 15th. Night classes 7 to 9:30. 112½ Washington St., Phone JE 6-7841. tfe

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

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13 ST. S.E. DECATUR—1 nice 3-bedroom home, completely air conditioned with heat pump, stainless steel GE dish washer, and sink, bath and half, very nice section. Move in for \$400 and pay \$800 at closing. No closing cost. If interested call JE 2-5311.

2 NICE 3-bedroom houses in Grove View Acres. Should see to appreciate, in beautiful pecan grove, \$15,950 and \$16,750.

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AUCTION SALE—Our next auction sale will be held tomorrow night, (Thursday, Feb. 5 at 6:30 p.m. 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. 1tc

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LOT FOR SALE — Suitable for duplex, 100x150 ft. located on Jordan Lane and Highway 72. Phone JE 2-2652. tfe

FOR SALE — Beautiful 112x145 ft. lot in Athens best section, \$2600.00 cash. Call J. B. Elliott, Redstone ext. 8428. tfe

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How's Your Know-How?

1. When did the U. S. Constitution go into effect?
2. In the song "Comin' Through the Rye" what are the people doing?
3. All Latin American countries speak Spanish. True?
4. Who was the youngest U. S. President?
5. How old is the atomic theory?

(Answers to Quiz)

1. The first Wednesday of March, 1789.
2. They are fording the River Rye.
3. With one exception. Portuguese is spoken in Brazil.
4. Theodore Roosevelt was 42 when inaugurated.
5. It was expounded as early as 400 B.C. by the Greek philosopher Democritus.

Maj. Parker Named Top Toastmaster

Maj. "Bud" Parker was elected best speaker at the Redstone Toastmasters meeting of Jan. 20. Other speakers on the program were Web Mayfield, Herb Adcock, and Bill Greene.

Maj. Jack Caryi presided and also acted as topic master. Toastmaster of the evening was Henry Clifford. Grammarian was Al Ginzburg.

Miles Hardenburg and Collins Hess were voted in as active membership. This marked the first time that Redstone No. 1932 has reached its full membership of 35 active members. However, anyone interested in joining is encouraged to become an associate member and may move into active membership when vacancies occur. Those interested may contact the club president, Maj. Caryi, at 5143.

Rhymes of the Times

S'MAZING HOW PEOPLE CARE FOR THOSE OF US WHO DO OUR SHARE.
...Agon: AFPS

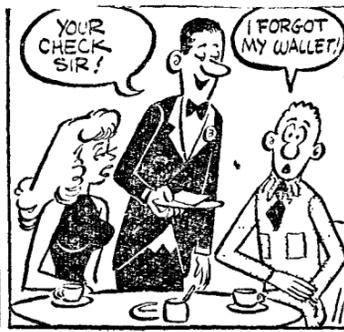


A bow-legged man moved so slowly on the golf links that an irritated player deliberately shot a ball between his curved legs.

Operation Blonde



I KNOW JUST HOW YOU FEEL. I'VE HAD ENOUGH K.P.!



I FORGOT MY WALLET!



"Do you call that golf?" the offended man snapped.

"No," was the reply, "but it's darned good croquet."

Daffynition: Women Haters - women.

Valentine's Day GIFTS

FOR YOUR KING OF HEARTS!

Van HEUSEN & ARROW DRESS SHIRTS

\$400 to \$695

Select his favorites from those found in the many colors, patterns, and collar styles found now at Dunnivant's. Whites . . . pastels, plaids, or prints . . . you'll see them all. Drip dry styles and regular cottons.



VAN HEUSEN & OXFORD SPORT SHIRTS for Spring



For Your **VALENTINE**

Faultless & Weldon **PAJAMAS**
\$395 to \$895

Drip dry and regular styles for Valentine gifting. Choose from many desired patterns and colors now! Have your selection gift wrapped absolutely free of charge.

Solids & Fancy Patterns
Longs & Regulars

Mayfair & Jefferson **SLACKS**

\$7.95 to \$15.95

Spring colors and weights in all woolens and blends. See them all and choose your favorite for your Valentine.

Pioneer & Tex Tan **BELTS** \$1.50 to \$7.50
● LEATHER
● ELASTIC

Regal & Cavalier **TIES** \$1.00 to \$5.00
Square ends and regular styles.
Bow ties, \$1.00

JERKS & INTERWOVEN **SOCKS**

Sport Cottons - 55c to \$1.00
Nylons & Stretch Styles 75c to \$1.50



Huntsville's Quality Family Store **DUNNAVANT'S**

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CARTOON of the WEEK
SELECTED FROM
The CARRIER
U.S. NAS, ALAMEDA, CALIF.

"BENSON! WHO PACKED THESE NEW PARA-RAFTS?"



FEBRUARY 1959

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

CALENDAR GAL—While most of the nation bundles up to escape winter winds, delectable Doris Ellis has to resort to a beach hat to hide from the Miami Beach sun. Not a bad spot to spend Valentine's Day.