

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. 32

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

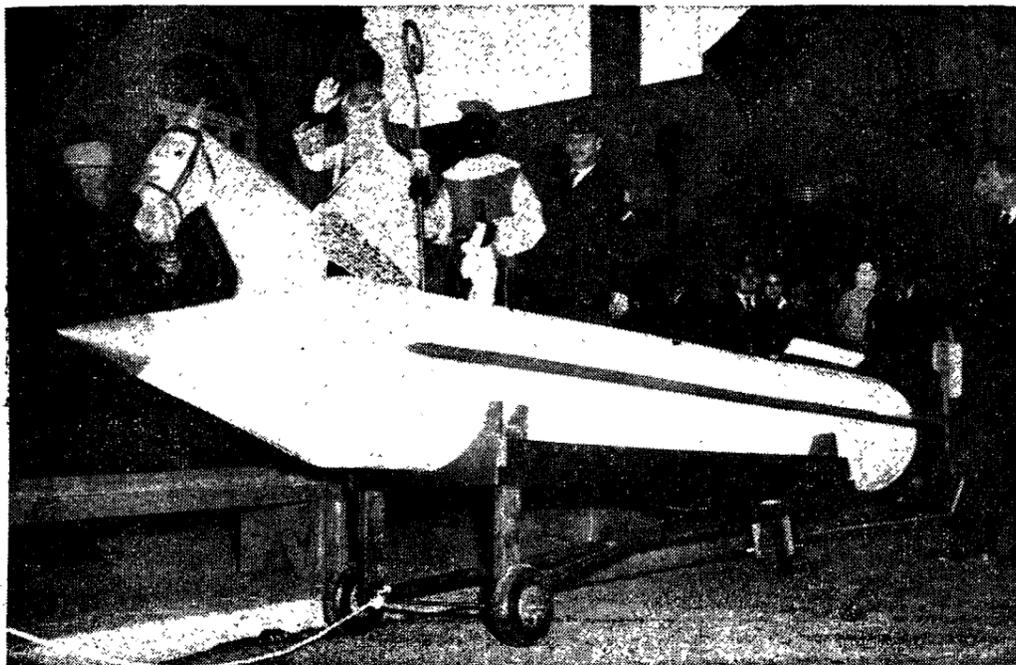
DECEMBER 10, 1958

DURING 66,654-MILE FLIGHT

Space Probe Yields Valuable Data on Radiation

Jet Propulsion Laboratory Transferred to NASA; Use of Army Resources in Space Research Slated

PIONEER III FALLS OVER AFRICA



FIRST SANTA VISITS MISSILE CITY—St. Nicholas, original Christmas saint, arrives at the Ordnance Guided Missile School for his first trip to southern U. S., arranged by students from The Netherlands, one of whom stands at right. In space age tradition, he came in via missile, then transferred to his white horse to visit children and send his assistant, "Black Peter" (center) down chimneys to leave gifts.

* * * * *

ST. NICHOLAS GREETSS NETHERLANDS STUDENTS AT OGMS

Saint Nicholas, the original inspiration for Santa Claus, made his first trip to Huntsville Friday afternoon (Dec. 5th) to greet Netherlands students, their families and friends at the Ordnance Guided Missile School.

The venerable Saint, who has been bringing gifts to children in the Netherlands and Europe for more than 1,500 years, arrived via this Rocket City's foremost mode of locomotion - a replica of a missile that was guided to the City Hall for official greetings by Mayor R. B. Searcy and Col. H. S. Newhall, Missile School commandant, at

4 p. m. just in advance of the city's annual Christmas parade.

Once his arrival was official, Saint Nicholas, wearing resplendent bishop's robes and mitre and carrying his shepherd's crozier, transferred to his traditional white horse and rode about the Court House Square, distributing sweetmeats to children.

The visit of the beloved Saint whose Dutch dialect name of "Sinterklaas" crept into the English language, arranged by officers of the Royal Netherlands Air Force at the Missile School where Capt. Stephanus Van Dam, of The Hague, is senior

Capt. Van Dam said that, according to ancient Netherlands tradition, Saint Nicholas lives in Spain but makes an annual pilgrimage to the Low Country on his birthday, Dec. 5, to distribute presents to children.

In Amsterdam, the good bishop arrives by steamer and is greeted by Queen Juliana of The Netherlands and crowds of as many as million people he said. He always rides through the throng on his white horse, distributing sweets. On the evening of his arrival, Dutch children

(See St. NICHOLAS on Page 3)

The Department of Defense and the National Aeronautics and Space Administration (NASA) announced details of agreements regarding transfer of the Jet Propulsion Laboratory (JPL) from the Department of the Army to NASA and utilization by the NASA of Army resources in achieving the nation's goals in the realm of space.

The agreements were reached "in recognition of the necessity for the most efficient utilization of existing skilled organizations in a manner which will permit a maximum rate of progress in the exploration and exploitation of space science and technology for peaceful as well as military purposes."

In line with the purpose of the National Aeronautics and Space Act of 1958, the agreement provides for "relationships in the national interest that will prevent undue delay of progress in the National Space Program, and prevent undesirable disruption of military programs."

Under operating concepts agreed to by Dr. T. Keith Glennan, NASA Administrator, and Secretary of the Army Wilber M. Brucker, NASA assumed general management and technical direction of JPL upon issuance of an Executive order. However, provision is made for the Army to continue, under existing contracts with JPL, certain specific military projects through Calendar Year 1959. These include the Sergeant guided missile program and aerodynamic testing and research. Arrangements after that time will be by mutual agree-

(See JPL on Page 2)

The Army-NASA space probe, Pioneer III, its instruments working to the last, crashed into the earth's atmosphere and burned up over Africa Sunday after a flight that carried it a third of the way to the moon.

Army scientists immediately hailed the scientific results of the robot's 66,654-mile flight into space while conceding some "engineering disappointment" that it did not attain the velocity needed to reach the moon and pass into an orbit around the sun.

Dr. William H. Pickering, director of the Jet Propulsion Laboratory, Pasadena, Calif., said the probe yielded data which for the first time produced information on the intensity of some of the deadly radiation belt surrounding the earth.

Dr. Wernher von Braun, of the Army Ballistic Missile Agency, said the flight was deemed 90 percent successful because "on the first try, this never-tested rocket" was launched at a pre-determined time with no count-down troubles.

The 13-pound robot met a fiery death in the air over French Equatorial Africa. In an exceptional performance, information from its instruments was received until a bare 20 minutes before the end.

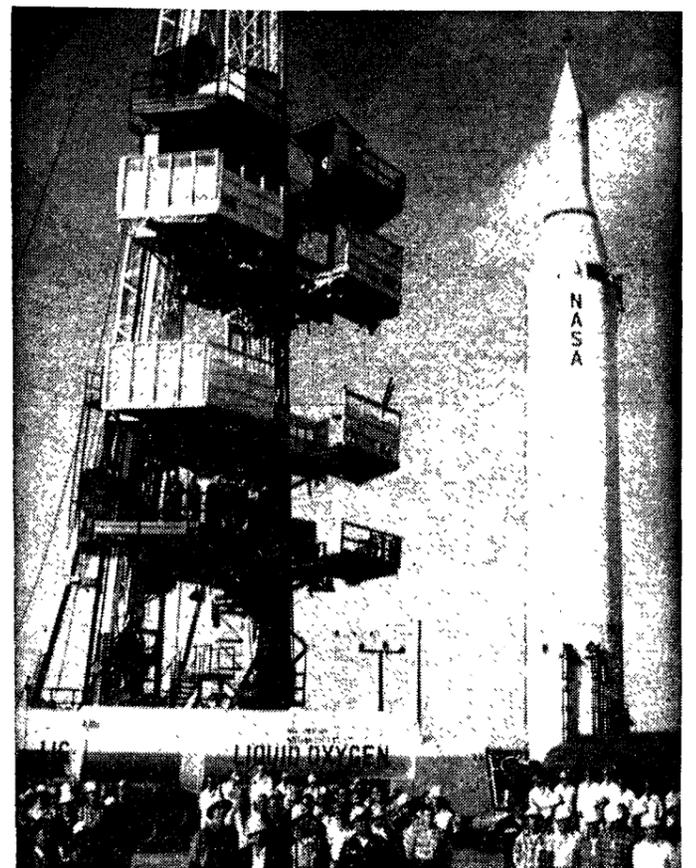
The device was failing at a speed of 23,241 miles an hour when it struck the atmosphere at 1:51 p.m. CST, and presumably flared like a meteor, although there were no immediate reports that it had been observed by any eye-witnesses.

The total flight time for the instrument-packed Pioneer III, launched from Cape Canaveral, Fla., at 11:45 p.m. CST Saturday, was 38 hours and six minutes.

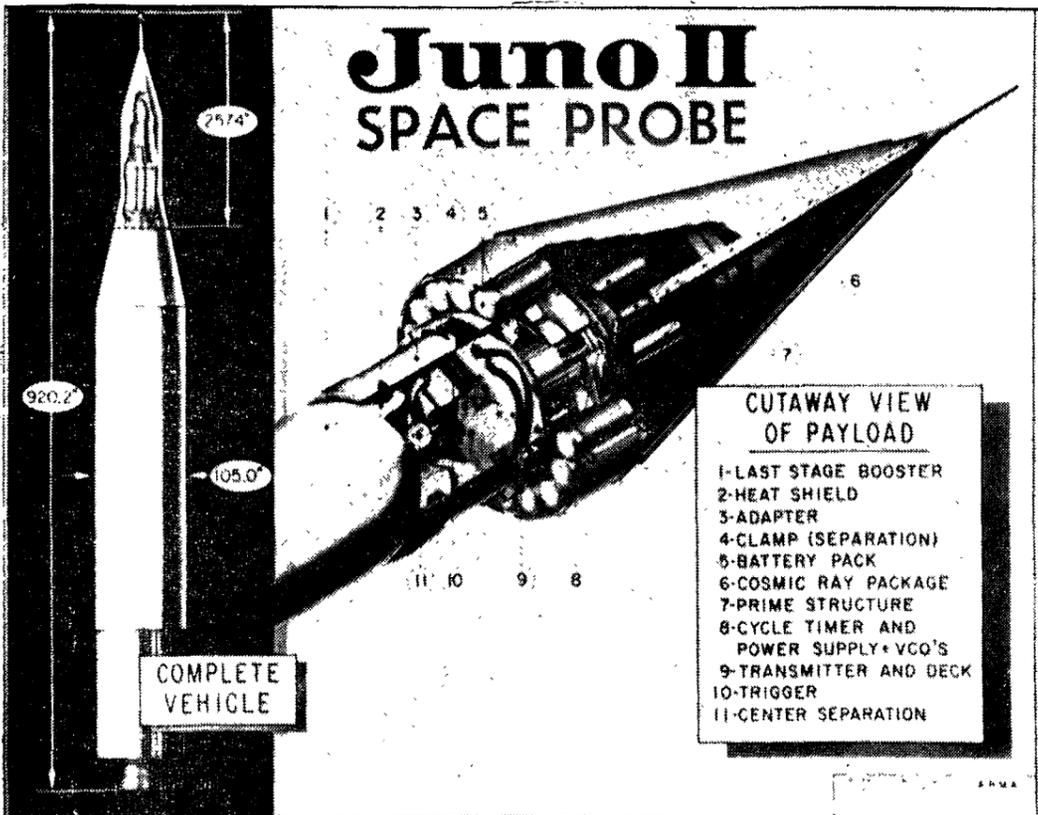
It was reported that scientists were delighted that the robot's

(See SPACE PROBE on Page 2)

* * *



ASSEMBLED BEFORE the giant JUNO II space rocket are some of the key members of the Army's missile firing team at Cape Canaveral, Fla. Lower left, foreground: Dr. Kurt Debus, Director, Missile Firing Laboratory, Army Ballistic Missile Agency; at his right, Dr. Hans Gruene, his deputy. These are the men who launched the Explorer satellites. In the rear may be seen the tall service tower which is used to prepare the Army's long-range missiles for firing.



The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama. In accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

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The publisher will receive editorial content for publication in the Rocket only through the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama, Bldg. 4488, Extension 2722. All advertising copy and payments therefor are received by Mrs. Zillah Newsome, 308 E. Holmes St., Huntsville, Ala., P. O. Box 346, telephone JE 4-4701, as representative of the publisher. The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.00 a year, or \$2.75 for six months. Mailing arrangements may be made with the publisher.

Vehicle Configuration Fact Sheet

The total vehicle height is 76 feet.

First Stage

The first stage is a U. S. Army Jupiter, modified to contain the high speed upper stages.
Weight: 60 tons fueled.

Second Stage

The second stage is an annular cluster of 11 scaled-down Sergeants, using solid propellant and developed by the Jet Propulsion Laboratory. JPL also developed the third and fourth stages.

Weight: 721 pounds

Third Stage

The third stage is a concentric cluster of three scaled-down Sergeants, using solid propellants.

Weight: 207 pounds.

Fourth Stage

The fourth stage is one scaled down Sergeant. The cone shaped payload is mounted atop the fourth stage. All three upper stages are covered by a nose fairing to protect against aerodynamic heating. This fairing was jettisoned shortly after Jupiter burnout.

Jupiter burnout. Weight: 59 pounds.

Payload

The payload is a gold-plated cone shaped package that weighs 12.95 pounds. It contains a small radio transmitter that weighs 1.1 pounds and is powered by batteries, two Geiger-Mueller tubes to measure radiation in space, a photo-electric scanner to receive reflected light from the moon, and a de-spin device to slow the payload down from its 400 RPM rotational speed as it nears the moon.

Space Probe

(Continued From Page 1)

instruments functioned on the return trip through the radiation belt as well as on the rocket's ascent.

Pickering said in a statement

issued shortly after the robot fell that this was a dividend offsetting the failure to reach the moon.

"While the results of the launching of Pioneer III were disappointing to the engineering specialists in that the probe did not reach the moon," he said, "the scientific benefits to be obtained more than compensates for this disappointment."

Von Braun and others said contact was lost with the probe for a time, at least partly because the earth's rotation put it out of reach of the tracking stations.

He said Britain's Jodrell bank tracking station was to have helped in the job, but developed in-

JPL

(Continued from Page 1)

ment. Army funding of the JPL activities has been on a calendar year basis rather than the fiscal year basis customary in Government agencies. Therefore, the Army supporting research program planned for CY 1959 had been prepared and tentatively budgeted many months ago. Since it will require some months before these Army-oriented research programs can be directed more specifically to meet the needs of NASA, the Army and NASA have agreed that Army funds in the amount of \$4,878,250 will be used to finance activities at JPL for the first half of CY 1959. NASA, having assumed general management and technical direction of JPL at the beginning of the calendar year, will by mid-year have been able to reorient these activities to meet specific NASA needs and will provide funds for the balance of the year. Any expansion of the program at JPL during 1959 will be funded by NASA.

The agreements provide that the Army will furnish administrative and logistical support to NASA for servicing contract activities at JPL during 1959. This will be accomplished on a non-reimbursable basis. After 1959 required Army services and support will be provided under con-

ditions to be mutually agreed upon.

strument trouble. Von Braun said Dr. James A. Van Allen of the University of Iowa, who discovered the radiation belt surrounding the earth, was "highly satisfied" with the data he received on the belt from this country's latest venture into space.

Scientists and army officials gave no major reasons for the failure of Pioneer III to reach the moon. They said that the first of the Juno rocket's four stages burned out 3.7 seconds too soon and that the rocket's launching course was 3½ degrees too low.

Despite these setbacks, Maj. Gen. John B. Medaris, AOMC Commanding General, and others associated with the project reported that the probe succeeded brilliantly as a scientific experiment.

Gen. Medaris said instruments in the cone-shaped probe, just 23 inches long and 10 inches in diameter at the base, radioed back "good solid data" on the deadly radiation band that circles the earth and might imperil future space travelers.

Gen. Medaris said the robot actually was twice as successful as expected in some respects since it gathered data both going up and coming down.

Gen. Medaris also confirmed that army secretary Wilber M. Brucker sent a brief message into space with Pioneer III. Inscribed on a small shield, it read:

"Exploring the universe to further the welfare of all mankind, WMB, December, 1958."



LT. GEN. JAMES M. GAVIN (USA-Ret.), left, formerly Army Chief of Research and Development and now an executive of the A. D. Little Co., talks with Brig. Gen. J. M. Colby, Deputy Commanding General of the Army Ordnance Missile Command, during a visit by Gen. Gavin last week to Redstone Arsenal, AOMC headquarters. Gens. Gavin and Colby were classmates at the U. S. Military Academy in 1929.

ditions to be mutually agreed upon.

This support will include Army assistance in pre-award contract activities, including negotiations and financial and legal assistance; audit services by the Army Audit Agency in connection with contractor performance and allowable cost determination; administrative supervision of contractors' property maintenance and cost accounting procedures, and litigation and proprietary rights matters.

Recognizing the often inseparable nature of national efforts to meet both military and scientific objectives in the missile and space fields, the agreements provide for continuation of the organizational strength of the Army Ballistic Missile Agency of the U. S. Army Ordnance Missile Command (AOMC). Further agreement makes the AOMC and its subordinate organizations immediately, directly, and continuously responsive to NASA requirements.

The Commanding General AOMC, as the Army's principal agent, will utilize all resources of his Command for the accomplishment of assigned NASA projects. This includes organizations directly under his control, Army contractors, and other elements of the Department of the Army.

NASA will have direct and continuing access through resident personnel at Huntsville for technical contact and the direction of efforts on NASA projects. In this connection NASA has accepted the Army's invitation to place a staff in residence at AOMC. This staff will provide for a continuing supervision of all projects assigned by NASA, as well as maintaining close contact with the Army's research and development achievements in this field.

Army liaison group may be established at JPL to provide direct and continuing exchange of technical information on supporting research in the aeronautical, missile and space fields, to enable the Army to carry out its responsibility for Army activities.

NASA requirements for projects to be accomplished by the Army will be placed directly upon AOMC. These will be funded by NASA. AOMC will accept full responsibility for complete and successful accomplishment of these assignments.

The agreements assign to the Commanding General, AOMC, the responsibility for scheduling space and missile activities under his control to meet priority requirements of NASA consistent with overall national priorities.

Public information and historical and technical documentation of projects assigned to AOMC by NASA will be under direction and control of NASA.

The transfer of JPL, California Institute of Technology, at Pasadena, Calif., was effected by an Executive Order announced by the White House Dec. 3.

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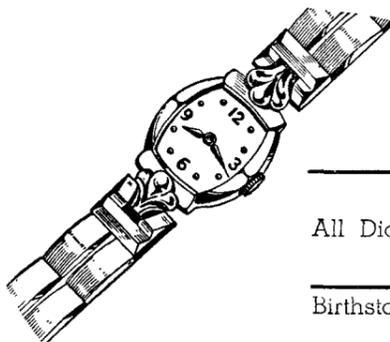
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Program Underway for Christmas Hospitality for Arsenal Servicemen

(Editor's note: The following article was submitted to The Rocket by Leon Van Leeuwen, of Structures and Mechanics Lab., DOD, AB-MA).

After completion of a successful Thanksgiving Day Hospitality Program to bring Huntsville residents and members of NATO forces together, efforts are now underway to repeat the same for the Christmas holidays.

However, this time it is desired to take care of U. S. Army personnel as well.

As this project is more comprehensive, similar arrangements have been made as were used with the NATO boys.

Therefore, this is to serve notice to all hospitable people of Huntsville and rural areas, so that they may again open their hearts and homes to all "mothers' sons away from home" and NATO families.

Because of the accomplishments of our scientific and technical teams at Redstone Arsenal in the field of rocketry, the

eyes of the World are focused on Huntsville sometimes known as 'Rocket City,' U. S. A. So, let's show the world that Huntsville is also known as 'Hospitality City, U. S. A.

Jewish Service personnel at Redstone Arsenal have volunteered to take over the duties of many of the Christian personnel to give them the opportunity to observe this holiday.

As was expected, the Huntsville radio stations and the Russel Erskine Hotel have given assurance to help in the manner as they had done previously.

With the co-operation of officials at Redstone Arsenal, arrangements are being made to assist in the placing of personnel in the homes.

In the preparation of this Christmas Program, we now know almost to a man, how many people, both NATO and American, are hoping to be invited into homes.

The drive started Monday, and will continue through Sunday, 14 Dec., as follows: Calls for NATO servicemen will be taken by Leon van Leeuwen, JE 6-8910 from 6 p. m., to 10 p. m., and for the American personnel by the RSA Service Club, Arsenal ext. 4741 from 2 p. m. until 10 p. m.

All NATO personnel will meet their hosts at the Russel Erskine Hotel, while the American personnel will meet at the Service Club.

Special passes will be issued at Gate No. 1 to those people picking up their guests at the Service

Bloodmobile Is Due On Post Tomorrow

The American Red Cross Bloodmobile will visit Redstone Arsenal tomorrow from 8:30 a. m. to 2:30 p. m. at the Post Gymnasium, Bl. 5663.

Bids Are Invited For Work on ARGMA Testing Facilities

Army Engineers have issued invitations to contractors to submit bids for the construction of test facilities for the use of the Army Rocket and Guided Missile Agency in important engine development work of the Army Ordnance Missile Command at Redstone Arsenal.

The job will include the modification of an existing instrumentation building by constructing an addition of reinforced concrete having a floor area of about 1,500 square feet, the construction of a vertical test stand of reinforced concrete with a floor area of about 1,560 square feet, the construction of a horizontal test stand of reinforced concrete with a floor area of about 1,550 square feet, and the construction of outside utilities and paved areas.

Bids for the work will be opened at 11 a. m., C. S. T., on Dec. 18, 1958, at the Corps of Engineers District Office at 2301 Grant Street, Mobile, Ala.

Club. Personnel will be picked up at the

We again ask each and everyone of our citizens to help us share the Christmas holidays with all our military personnel from Redstone Arsenal.

Red Cross First Aid Certificates Given To Group at Arsenal

Standard First Aid Certificates were presented recently by the American Red Cross to the following persons at Redstone Arsenal, it was announced by Miss Corrie Knight, ARC Field Director in Huntsville:

Richard Brown, Ardis L. Carroll, Ray DeRousse, Charles W. McCreary, Bruce W. Phillips, Walter Salmi, Mrs. Joy Struebing, Jonas I. Sturas, and Bruce A. Watkins (all employees of the Martin Company); Paul A. Devine, Frank A. Kopera, and Charles H. Prosesus (of the Army Ballistic Missile Agency); and Sfc. Leo S. Baron and Sgt. John G. Howard.

Instructor was James C. Curtis.

A wife is a woman who spends the first part of her life looking for a husband and the last part wondering where he is.

St. Nicholas

(Continued from Page 1) put their shoes near the fireplace or stove for Saint Nicholas and his helpers to fill with gifts during the night. Before they go to bed, they sing many folk songs. A favorite goes:

"Bright December moon is beaming, Boys and girls now stop your play!

For tonight's the wondrous evening,

Ever of good Saint Nicholas Day.

Over the roofs his horse unshod Brings us gifts or else the rod."

Hammer Was Best Speaker at Toastmaster Club

SP-4 Roger Hammer of Redstone Arsenal was recently named best speaker of the evening at a meeting of Huntsville Toastmasters No. 1972. His talk was entitled "Reveal Yourself."

THE JEWEL SHOP

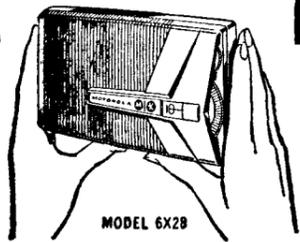
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- Fresh Pack
- ★ MARSHMALLOWS 1 Lb. Pkg. 29¢

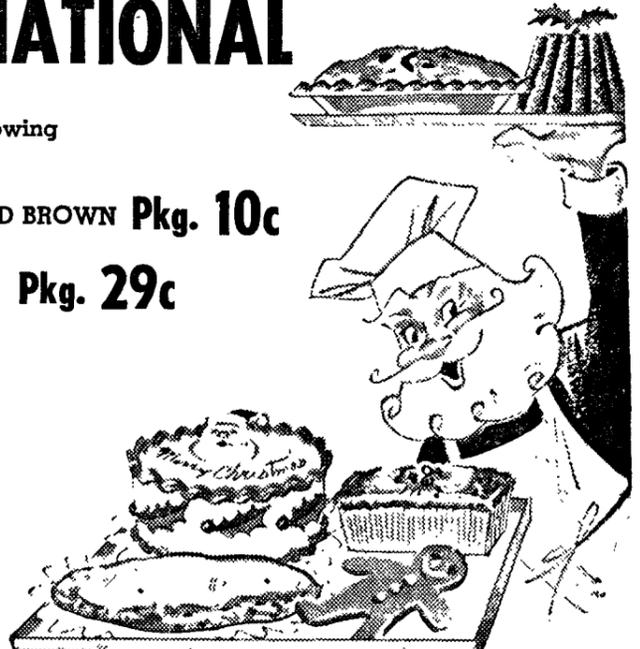
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Canasta, Bridge Groups of Officers Wives Club Meet

The canasta and bridge groups of the Redstone Arsenal Officers Wives Club met Thursday for competition with the following results:

DUPLICATE BRIDGE: 5 tables, Howell movement, first, Mrs. Bruce Pierce and Mrs. C. C. Young; second and third tied, Mrs. L. L. DeNoya and Mrs. Thomas Reed, and Mrs. Glenn Elliott and Mrs. T. E. Wood.

PARTY BRIDGE: 5 tables, first, Mrs. R. B. Love, 8410 points; second, Mrs. H. L. Carmichael, 5990 points; third, Mrs. R. E. Neunlist, 5810 points; low, Mrs. S. R. Pearson, 1930 points.

CANASTA, 4 tables, high Mrs. Donald Voorhees, low Mrs. Marcellite Pearce. The canasta group will hold competition again on Thursday, January 8th at 10 a.m. at the Squirrel Hill Officers Club.

Arsenal Personnel To Sing in Chorus

The Huntsville Community Chorus will present A Sacred Oratorid, The Messiah, by George Frederick Handel at the First Baptist Church in Huntsville Sunday Dec. 14, 1958, at 3 p. m.

Soprano soloist will be Mrs. Andrew H. Starling wife of Air Force Capt. Starling who is stationed here. She is from Arizona and has sung professionally in that state as well as in Mass., New Mexico, Washington and Guam.

Alto soloist will be Mrs. James Love wife of a Redstone engineer. She is from Dyersburg Tenn., has a bachelor of music education degree from Murray State College and has had experience as a public school music teacher and choir director in Owensboro, Kentucky.

Tenor Soloist will be Harold Rush a psychologist with the Thiokol Chemical Corp. He is from Tennessee and is the organist at the First Presbyterian Church in Huntsville.

The director of the chorus is

Arsenal Thespians In Christmas Play

Judy Jonakin, a typist in Field Service Division of ARGMA, is one of the "lost boys" in the annual Christmas play to be presented by Huntsville's Little Theater group next Saturday and Sunday (Dec. 13 and 14) during its three-performance run at the Huntsville High School.

The play, James M. Barrie's classic "Peter Pan," has been a favorite for many years of children and grownups.

Playing roles as lost boys with Judy are Pat Miller, Bobbie Ruff, and Nina Fontana.

Ginger Sayer, daughter of Fred Sayer who is chief of the Programming Branch of ABMA's Office, is one of the "Darling children." Janie Calvert and Chrys Politis are her sisters. Aubrey Bowling and Virginia Lipscomb play the roles of Mr. and Mrs. Darling. Mrs. Donald Linger will play "Peter Pan", and his bitter enemy, Capt. Hool, is portrayed by Wayne Lacy.

Bill Greene, an ordnance engineer in ARGMA's Industrial Division, Bill Odom, Gene Blinkow, Allen Neal, Bobby Patterson, and Ray Miller are pirates.

Indians are Jim Burns and Virginia Holley while Kay Burruss plays Nana the dog. One of the Little Theatre's most capable directors, Mrs. Robert Hubbard, is the director of the play.

"Peter Pan" will be presented on Saturday (Dec. 13) at 10:30 a. m. and 7:30 p. m. Sunday's performance will begin at 2:30 p. m.

Mrs. Pat Hamm. The accompanist is Kenneth V. Turvey.

The officers of the chorus are all arsenal employees. They are: Carl E. Winkler, president R. Woodson Weaver, vice president, Miss Marie Sexton, sec. - treas.

The Community Chorus will hold tryouts for the Gilbert and Sullivan operetta, trial by jury, Monday evening Dec. 15 at 7:30 at the Huntsville High School. Anyone interested in trying out for one of the six solo parts or for the chorus will be welcome.

At the Service Club

WEDNESDAY: Join in the fun of Bingo tonight, December 10, at 8:15 o'clock. The prizes are exquisite and the Grand Prize is fabulous. Coffee Call is at 8 o'clock tonight. Enjoy a cup of coffee while you participate in a game of Bingo.

THURSDAY: A movie "Rebirth of a Nation" will be shown by Capt. Kothe, German Liaison Officer, Thursday night December 11 at 8 o'clock. Sgt. Waddel will be projectionist. All enlisted personnel and their guests are invited to see the movie. Coffee will be served following the movie.

FRIDAY: We have reserved this night for the men to work on the toys for Huntsville Christmas Charties. The toys will be on display at the Open House at the Christmas Charties on December 21. We have many toys that need attention so please give us a helping hand. The toys need to be repaired prior to the Open House.

SATURDAY: ROLLING ALONG OF 58 will be presented at the Post Theatre December 13 at 2:30 and 6:30 p. m. The show features the finalists of the 1958 All-Army Entertainment Contest. Admission is free. Enjoy an afternoon or evening of the BEST entertainment.

SUNDAY: There will be a SONG FEST Sunday, December 14 at 3 o'clock. The Fest will be led by the Missilemen and Missilemaids. Join us for your favorite Christmas Carols.

MONDAY: Bingo is scheduled for 8:15. If you did not win last week try your luck again this week. Coffee call is at 8:00 p. m.

TUES.: The Square Dance Class has been changed from Thursday to Tuesday night. We had twelve

new Huntsville girls for the class last week and we hope to have more this week. Come early and get in on the first "Texas Schottische".

WEDNESDAY: Clyde Nestler will present his Japan Color Slides at 7:30 o'clock. We understand that he has an excellent selection slides so don't miss this wonderful opportunity.

As time marches on, the eighteen of December grows more lustrous on the calendar. The hostesses have all pulled out their holiday clothes and swirling skirts will lead the promenade at the Christmas Ball. The Junior Hostesses will all be aglow that night because the JUNIOR HOSTESS OF THE YEAR will be announced during the evening. All of the Hostesses as of November 1, will be presented name tags for their outstanding work during the past year. It will be a gala affair so join us for the festivities. Jimmy Thomas and his Orchestra will furnish the music for the dance.

U. S. Army Enlisted Men who would like an invitation for Christmas Dinner with Huntsvillians are requested to make reservations at the Service Club office between December 8 and 15.

Of all the seasons of all the year, the Christmas season is the gayest, merriest, and the happiest. This, "the most venerable and tremendous of all festivals," is the festival of laughter, good cheer, good will, and hospitality. We plan a delightful way of entertaining on Christmas Eve by playing BINGO on Wednesday night December 24 at 8 o'clock. The gifts were donated by the Jewish Welfare Board.

The Service Club will be open every day throughout the Holi-

Garrabrants' Son Is Assigned Here; Another at WSMR

Pfc. Ward A. Garrabrant, son of CWO and Mrs. Andrew Garrabrant, 213-C Capehart, has been assigned to the Ordnance Guided Missile School.

CWO Garrabrant is with the Field Service Division of the Army Rocket and Guided Missile Agency.

The Garrabrants have another son, Mark, who is stationed at White Sands Missile Range, N. M. He is a Specialist 4.

day Season from 9:30 until 2200 hours. Coffee will be served on Christmas Morning at 9 o'clock

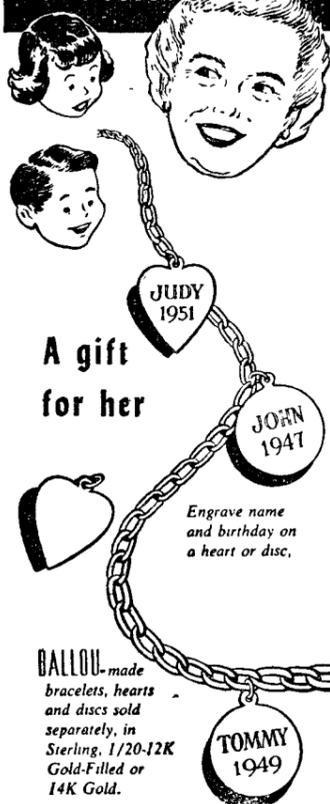
Its going to be a big and bright new year - so start the bells ringing at the New Year's Eve dance at 8 o'clock. The records will start spinning early and the Birmingham Hostesses will be ready to dance. We'll bring the dance to a close at 12 o'clock by singing the nostalgic AULD LANG SYNE. The crowd will set out for home with hats, horns and the firm resolution: Let's have a dance just like this next year!

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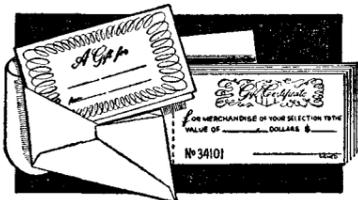
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THIS HUGE METALLIC SHROUD was designed by the Army Ballistic Missile Agency to encase and protect the upper, high-speed stages of the Juno II launching vehicle and the Pioneer III space probe during the ascending flight through Earth's atmosphere when temperatures as high as 500 degrees Fahrenheit were encountered. When the probe vehicle reached outer space, the shroud was separated and kicked to one side by a small rocket, clearing the path for the probe and the high speed rocket motor assembly.

Redstone Chapter Of Sojourners Slates Dinner Meet Thurs.

The Redstone Chapter of Sojourners No. 353 will have a dinner meeting at the Squirrel Hill Officers Club on Thursday evening, 11 Dec. Social Hour will be at 6:30, dinner at 7.

Chaplain Maj. James H. Goe-wey Redstone Arsenal Chaplain, will be the guest speaker.

This will be election night and President Fred Sayers has appointed a nominating committee as follows: Col. Thurston T. Paul, Chairman; Lt. Col. James H. Jean, Capt. Raoul J. Quantz, Capt. G. E. Watkins, and Capt. Samuel Speaker

The following members of the

program committee are planning and publicizing this meeting: Capt. Fred C. Gotham, ext. 6722; Lt. Ronald J. Lundberg, ext. 3573; Jim Goodwin, ext. 2248; and Pete Redding, ext. 8815.

Call above committee members for reservations.

Doug Ray, president of the Huntsville Shrine Club, has invited all Sojourners to the Shrine Club's Christmas Dance on Friday, 19 Dec., at the Elks Club. A table will be reserved for all Sojourners. A steak dinner will be served at 7:30, and a floor show and orchestra will provide music and entertainment; all included for the price of \$6.50 per couple. Tickets may be purchased from Pete Redding.

Where there's a will there's a lawsuit.



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The office gossips were gabbing over the marriage of the boss to his secretary. He was 67, and she was 22.

"It's a crime against youth," said one, "He ought to have his head examined and she ought to

Tickets for Chamber Of Commerce Dinner Available on Post

Tickets for the annual Huntsville-Madison County Chamber of Commerce dinner tonight are available at four points on the Arsenal.

The dinner is open to the public.

It will be held in the basement of the Huntsville Utilities Building at 7 p.m. Tickets at \$3.00 each may be obtained in the Public Information Offices in Buildings 4505, 4188, 7101, and 3300.

be spanked." "What's all the fuss about?" Asked another. "When she's 100, he'll only be 145."

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In case of an accident ask for our new wrecker. Courteous operator, reasonable charges. Day Phone JE 4-4561, nights JE 4-0808.

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Choice of 1 Meat
Choice of 3 Vegetables
Hot Rolls or Corn Muffins
Coffee or Tea

85c

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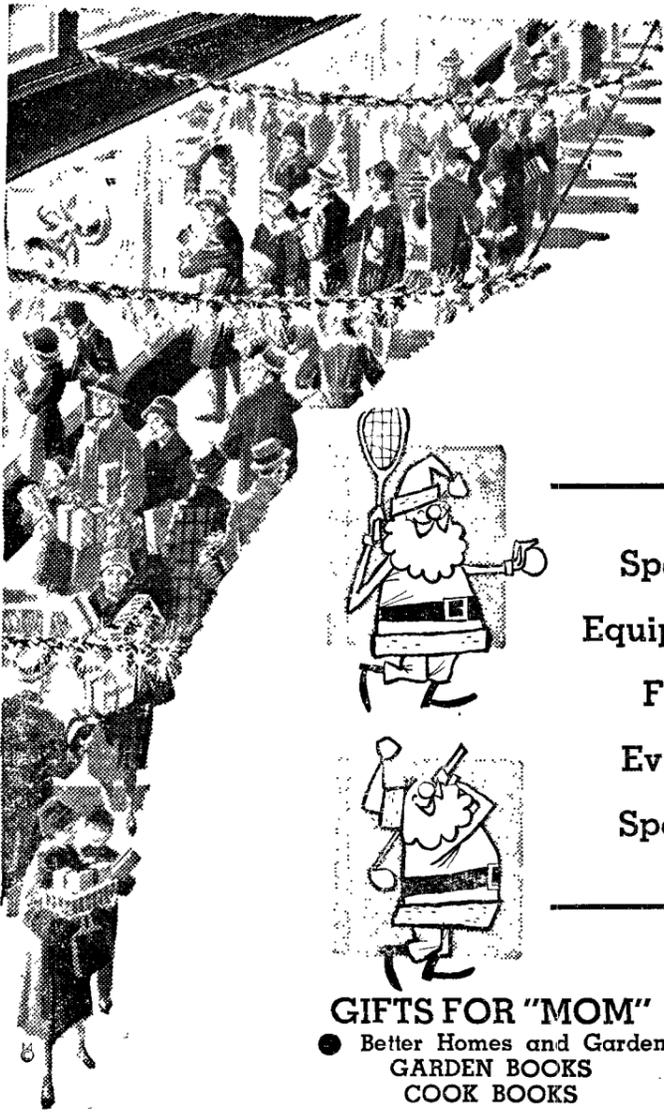
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GOLF WINNERS—Mrs. Walter Mullane, Mrs. E. M. Dooley, and Mrs. N. G. Koebbe, winners in the Match Play Tournament held by the Golf Group of the Redstone Arsenal Officers Wives Club, receive first place gift certificate prizes from Mrs. O. O. Roundy, Golf Chairman. Prizes were awarded last Wednesday at the Group's monthly awards luncheon.

Prizes for Match Play Tournament Awarded by Officers Wives Golfers

Prizes for the Match Play Tournament held by the Golf Group of the Redstone Arsenal Officers Wives Club were awarded last Wednesday at the Group's monthly awards luncheon. Mrs. O.O. Roundy, Group chairman, presented the awards, which were colorful gift certificates hand-painted by Mrs. W. F. Kaiser.

Koebbe, first flight; Mrs. Walter Mullane, second flight; and Mrs. E. M. Dooley, third flight. Runner-up prizes were presented to Mrs. Reino Lehtonen, first flight; Mrs. J. E. Devine, second flight; and Mrs. H. M. Murray, third flight. Mrs. G. B. Daughton and Mrs. W. J. Durrenberger received consolation prizes for the first and second flights respectively. Consolation winner in the third flight is yet to be determined by play-off between Mrs. R. L. Spragins and Mrs. G. H. Macdonald. In addition to the awarding of tournament prizes, the Group held a Christmas gift exchange, grab

bag style. As a Christmas luncheon, the event was free to members as a contribution of the Golf Group. Serving on the luncheon and program committee were Mrs. T. T. Paul, Mrs. H. M. Murray, and Mrs. W. J. Durrenberger. The event was held at the Arsenal Squirrel Hill Officers Club. Sheila J.: What's the difference between marching and dancing? David: I don't know. Sheila J.: I didn't think you did. Let's sit down!

RSA OFFICERS MIXED BOWLING LEAGUE STANDINGS 1 DEC. 58

	Won	Lost
1. Peapickers	60	21
2. Bowlweevils	45	36
3. Bombers	44	37
4. Pindroppers	44	37
5. Hi-Counts	41	40
6. HolyRollers	34	47
7. D-Yanks	32	49
8. BlindMice	25	56
200 Games Men:	201	Hess, Thompson 211, Ludick 203 Rabinowitz 200, McGraw 204, Usinger 214
180 Games Women:	Thompson 194	

Safety Caution Is Urged For Holidays

The military disabling rate has shown improvement and the number of days without a disabling injury reached 13 as of 8 December. This is considerable improvement over previous like periods especially during the football season when football injuries ran high.

A very good string of injury-free days for civilian personnel which had reached 30 was brought to a halt when it was determined that an employee should be hospitalized as a result of an injury received several days earlier. The string of disabling injuries was dropped back to 12.

Days without a disabling injury for contractor personnel continue to grow toward their goal of 75.

During this period approaching the holiday season it will be difficult to keep our minds on the job and too, because of bad weather, driving conditions will be more hazardous. The Safety Division urges all Redstone employees, civilian, military and contractor to avoid injury in order that they might have a happy holiday season.

Basket Ball Scoreboard

"A" Det OGMS—50, 9615th Signal Det—41
Hq Det 1—86, "B" Det ABMA—62
1st ETD—57, "B" Det OGMS 1—48
Officers—60, Medical Det—31
2nd ETD—45, Hq Det 2—43
291st MP Co—66, "B" Det OGMS—49

BASKETBALL SCHEDULE 10-18 December

Dec. 10 "A" Det OGMS -vs- Hq Det 1—1800 hrs
"B" Det OGMS 2 -vs- 3rd ETD—1930 hrs
Dec. 11—1915 the Signal Det vs. -1st ETD—1800 hrs
Hq Det UTC -vs- Officers—1930 hrs
Dec. 12 "B" Det ABMA -vs- 2nd ETD—1800 hrs
864th AF -vs- Hq Det 2—1930 hrs
Dec. 15 Medical Det -vs- "B" Det OGMS 1—1800 hrs
291st MP Co -vs- 3rd ETD—1930 hrs
Dec. 16 9615th Signal Det -vs- 2nd ETD—1800 hrs
"A" Det OGMS 2 -vs- Officers—1930 hrs
Dec. 17 Hq Det UTC -vs- Hq

Det 2—1800 hrs
"A" Det OGMS -vs- 1st ETD—1930 hrs
Dec. 18 "B" Det ABMA -vs- Medical Det—1800 hrs.
864th AF -vs- "B" Det OGMS 1—1930 hrs

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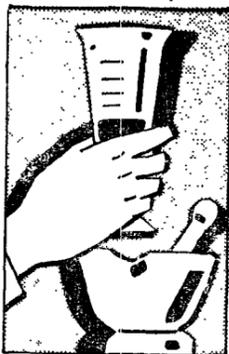
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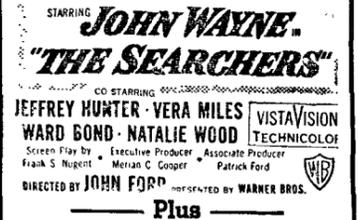
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Upper Stages and Payload of Juno II Vehicle Covered by Metallic Shroud

The upper stages and payload of the Army-NASA Juno II space probe vehicle were covered by a shroud which gives the configuration an unusual, bullet-like appearance.

The shroud had a three-fold purpose: to carry part of the missile guidance equipment, to protect the upper stages and payload from aerodynamic heating, and to prevent buffeting of the upper stages by high altitude winds.

The shroud was conceived at the Army Ballistic Missile Agency in the Fall of 1957 following recovery of a scale model nose cone from the Jupiter C test vehicle. This launching indicated the need for heat protection and support for angle-of-attack meters.

An angle-of-attack meter protruded from the tip of the shroud's cone resembling a Missile Age arrow. The meter sensed deviations, tilts or changes in direction of the rocket while it traversed the Earth's atmosphere and transmits this information back to the guidance and control equipment installed in the instrument compartment of the first stage, a modified Jupiter Intermediate Range Ballistic Missile.

The meter functioned during the first 120 seconds of flight to ensure that the configuration fol-

lows the correct flight path.

Because of its greater thrust the Jupiter missile accelerated more rapidly than the smaller Jupiter C which launched the Explorer earth satellites. The missile also tilted rapidly to the flattest possible trajectory and therefore remained longer in the sensible atmosphere. This produced heating of the skin of the missile caused by aerodynamic friction.

To reduce heat conduction the aluminum shell of the shroud was coated with a heat-resistant plastic. The air inside the shroud provided further insulation for the spinning payload, or probe, and the high-speed solid rockets of the upper stages.

As in the Jupiter C vehicle, electric motors drove the upper stages in a rotational movement prior to liftoff and continued to rotate them during flight for purposes of stabilization. Without the protective shroud the upper stages would be subjected to the intense heating which might affect their functioning.

The shroud was designed and developed by the Structures and Mechanics, Guidance and Control and Aeroballistics Laboratories of the Missile Agency.

Guidance and Control wanted to get the angle-of-attack meter out in front of the missile as refinement to the guidance of the gyroscopic system. The Structures and Mechanics Laboratory designed the shroud device after the Aeroballistics Laboratory provided data essential to determine the best angle for the cone.

The body and base, called the "shroud support assembly," were not separated from the first stage Jupiter. Around the walls of the assembly were 12 plastic RF windows about 15 inches square which promoted the transmission of tracking signals to ground stations. Vents near the base provided for exhaust of the second stage rocket motors when they were fired.

The cone-shaped portion of the structure, or the shroud itself, was separated after the first stage cutoff to clear the way for the functioning of the upper stages.

Explosive bolts released coiled springs which pushed the shroud ahead of the missile, traveling at many times the speed of sound. A timer device then signaled ignition of a small, solid propellant

Movie Schedule

Wednesday, 10 December, "Guns, Girls and Gangsters" starring Mamie Van Doren and Gerald Mohr. Time 1315, 1745, and 1945.

Thursday and Friday, 11 and 12 December, "Around the World in 80 Days" starring David Niven, Shirley MacLaine, Robert Newton, and a cast of stars. Time 1315, 1745, and 2115. Admissions: Adults 50c - children 25c.

Saturday, 13 December, SPECIAL MATINEE, - "The Oklahoman" starring Joel McCrea and Barbara Hale. Time 1000.

Saturday, 13 December, MOVIE CANCELLED. "Rolling Along of 58" (All-Army Entertainment Show) will be presented at 1430 and 1830.

Sunday and Monday, 14 and 15 December, "The Naked and the Dead" starring Aldo Ray, Cliff Robertson, Raymond Massey, Lilli St Cyr. Time Sunday 1400, 1745, and 2015; time Monday 1315, 1745 and 2015.

Tuesday, 16 December Walt Disney's "White Wilderness" True Wildlife Adventure of the Arctic Regions of North America. Time 1745 and 1945.

ROCKET TRIP OPENS MOVIE Spectacular Opening is Used to Launch "Around the World in 80 Days."

Seeking a spectacular opening to match his spectacular film "Around the World in 80 Days", producer Michael Todd decided to utilize the greatest extreme in contrasts he could find. At great expense, he obtained a rare print of the granddaddy of all science-fiction movies, George Melies' celebrated "The Trip to the Moon." Made in 1902 and based on a story by Jules Verne, as is "Around the World in 80 Days", it strikingly sets the stage for what follows.

As the regulation-size screen zooms to gigantic proportions and Melies black and white images burst into brilliant technicolor, a sleek Corporal Rocket replaces the 1902-vintage space-ship and explodes skyward, revealing an eerie panoramic view of the Earth's surface, as seen from

"side-kick" or lateral thrust rocket which was attached to the shroud's inner wall. This pushed shroud to one side and clear of the rocket's path.

\$250 Given to UGF By North American, Rocketdyne Official

A \$250 contribution to the recently completed Redstone Arsenal United Givers Fund campaign has been received from, S. K. Hoffman, vice-president of North American Aviation, Inc., and general manager of its Rocketdyne Division.

Hoffman's donation brought the total Redstone UGF amount to \$155,478, it was announced by Stuart H. Jones, Executive Chairman of the post's drive.

stratospheric heights.

After its unique opening, the Jules Verne classic soars to new peaks of adventure and thrills on hasty globe-circling jaunt.

52 Best Picture Awards & World-Wide Honors
MICHAEL TODD'S
Around the World in 80 days

"Around the World in 80 Days" will be at the Post Theater Thursday and Friday, 11 and 12 December at 1315, 1745 and 2115. Admissions: Adults 50c - children 25c.

WOODY'S DRIVE-IN
OPEN 6:00 - START 6:30

THURSDAY & FRIDAY
Last of the Badmen
CINEMASCOPE Color
GEORGE MONTGOMERY

Plus
"Jungle Heat"
LEX BARKER

SATURDAY
Showdown at Boot Hill
A REGALSCOPE picture

Plus
The Unholy Wife
DIANA DORS
ROD STEIGER
TOM THOM

SUNDAY & MONDAY
20
FRANCOISE SAGAN'S
a Certain Smile
CINEMASCOPE
COLOR BY DE LUXE

GRAND THEATRE

THURSDAY & FRIDAY

Missile Monsters
REPUBLIC PICTURE

plus

Satan's Satellites
REPUBLIC PICTURE

SATURDAY

COLUMBIA PICTURES presents
Return to Warbow
starring PHIL CAREY
TECHNICOLOR

Plus

COLUMBIA PICTURES presents
DANA ANDREWS
Curse of the Demon

SUNDAY & MONDAY
"Wild Heritage"

In Color and CinemaScope
WILL ROGERS, JR.

TUESDAY & WEDNESDAY

COLUMBIA PICTURES presents
RICHARD BURTON
CURT JURGENS
RUTH ROMAN
RAYMOND PELLEGRIN
BITTER VICTORY
with SEAN KELLY
CINEMASCOPE

WHITESBURG DRIVE-IN

LAST TIMES TONIGHT
"Underwater Warrior"

Starring
DAN DAILEY

THURSDAY & FRIDAY

Van HEFLIN
Tab HUNTER
Kathryn GRANT
GUNMAN'S WALK

SATURDAY

The Girl in Black
LEX BARKER
ANNE BANCKROFT
Stockings

plus

Gary COOPER
Lauren BACALL
Jack CARSON
BRIGHT LEAF

SUNDAY & MONDAY

REX HARRISON • KAY KENDALL
The Reluctant Debutante

TUESDAY & WEDNESDAY

BETTY HUTTON
DANA ANDREWS
SPRING REUNION

231 DRIVE-IN

Huntsville, Alabama

Starts Dec. 16th
Tues., Wed., Thurs.

WORTH GOING BACK TO HEAR ALL OVER AGAIN. TAKE IT FROM ONE WHO IS ABOUT TO.

Anyone who can sit through it without smiling nostalgically or tapping a foot in three-quarters time would be a cold tone-deaf customer indeed. Beautiful to watch, melodic as all get-out... truly fine operetta score, superlatively arranged. 99 -N. Y. Times

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PETER PAN

December 13 —
10:30 a.m. - 7:30 p.m.

December 14 —
2:30 p.m.

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Presented by
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TICKETS 25c and 50c

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A Walt Disney Production

SUNDAY & MONDAY
QUEEN OF OUTER SPACE
COLOR CINEMASCOPE
ZSA ZSA GABOR
ERIC FLEMING • LAURIE MITCHELL

TUESDAY & WEDNESDAY
ESCAPADE IN JAPAN
TERESA WRIGHT
CAMERON MITCHELL
JON PROVOST
ROBIE NAKAGAWA
TECHNIRAMA • TECHNICOLOR

Plus
The BRAVE ONE
CINEMASCOPE Technicolor
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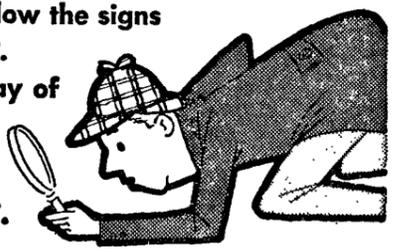
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Here's Brief Description Of Probe Instrumentation

Pioneer III was a gold plated conical shaped instrument package which weighed 12.95 pounds, measures approximately 20 inches in length and was a little more than nine inches in diameter.

The following is a brief description of the instrumentation:

1. A battery powered radio transmitter designed to transmit continuously on a frequency of 960.05 megacycles for a lifetime of 75 hours. This meant that the probe's radio voice was audible long after it had escaped from the earth's gravity. The radio transmitter weighed 1.1 pounds and radiates 180 milliwatts of power. (One milliwatt is one thousandth of one watt)

2. Two Geiger-Mueller tubes and associated circuitry to measure corpuscular radiation in space. Telemetry from the probe's radiation experiment was received continuously. Data from the early part of the trajectory, while the probe was in the radiation belt near the earth discovered by the Army's Explorer satellites, will enable estimates to be made as to the energy levels and the physical limits of this mysterious band of radiation. In addition, the radiation experiment provide data of incalculable value once the probe reaches deep space and the Geiger-Mueller tubes report on energy levels there.

3. A photoelectric scanning device, shaped somewhat like a pistol, was mounted on the bottom

of the probe at an angle. Mounted in the barrel of the scanner were two small apertures opening into two photoelectric cells. The apertures were spaced so that only a comparatively large light image would be wide enough to enter both apertures and trigger both cells simultaneously. When a light image of that size was encountered, the scanner was to report that fact back to earth by sending pulsating signals.

The scanner experiment provided a test for a trigger device which could be used to activate a television camera in future space experiments

4. The de-spin mechanism was an important element in the experiment. The upper stages of JUNO II-A were spin stabilized before and during launch, so that the probe in space continued to rotate on its long axis at approximately 400 revolutions per minute. At this speed, the scanner data would be meaningless, so a method had to be found to slow the spin rate down after the probe was in space. The answer was found to be a simple application of an elementary principle of physics. Two small weights about seven grams each, were fastened to the payload at the ends of wires 60 inches long. During and after launch, the wires and weights were wrapped around the payload and were secured in place. At about 19 hours after launch, a hydraulic timer freed the weights and centrifugal force made them spin with the payload at the ends of their wires. After a few revolutions, they were released to fly off into space. This was enough, however, to cause the payload to slow down to about six revolutions per minute in one quarter of a second.

Dr. Kurt Debus Headed Team Which Carried Out Launching of Space Probe

The launching of the NASA-Army Juno II space probe vehicle was carried out by the skilled team headed by Dr. Kurt Debus who has directed launchings of hundreds of ballistic missiles in the past 20 years.

Technicians of the Army Ballistic Missile Agency and the Jet Propulsion Laboratory prepared the Juno II and its payload, the Pioneer III probe, for the event.

Witnessing the launching from inside the Army blockhouse on Cape Canaveral, Fla., were Dr. T. Keith Glennon, NASA Chief, and Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command which conducted the experiment for NASA.

The firing team included Dr. Jack Froehlich, JPL Space Projects Supervisor; Dr. Hans Gruene, Deputy to Dr. Debus; Robert Moser, Countdown Coordinator; and the following:

William O. Chandler, general panel; C. Downing Sweat, Jr., propulsion panel; Russell P. Clay, measuring panel; James F. Terry, slant altitude control panel; William Jaileris, range control panel; Comer H. Bryan, Jr., Cross Range Control Panel; Carl A. Whiteside and Milton Chambers, auto pilot rack; and William cluster panel.

Operating the measurement panel which simultaneously reported and recorded the functioning of mechanical and electrical systems on board the giant rocket were Reuben Wilkinson, Sylvan Welliser, Russell Harris, Jose Gonzalez, Ted Hershey, Alt McKim, Daniel McMatu, Melvin Campbell, William Bogart, and Jack Griffith.

Assisting Dr. Froehlich for JPL were J. W. Talbert, John Casani, Allen E. Wolfe, John Small, David R. Margetts, and Eugene Giberson.

JPL furnished the high-speed upper stages for the Juno II and the gold-plated, conical probe itself which carried a radio trans-

Recent Births Listed At Arsenal Hospital

Following is a listing of births at the Redstone Army Hospital during the period Nov. 26-Dec. 3:

Dale Alan Hall, 8 lbs., 5½ ozs., born 27 Nov., son of Sp-5 and

Mrs. Donald W. Hall.

John Patrick Blanchard, 6 lbs., 7¼ ozs., and Christopher Jay Blanchard, 5 lbs., 11-1/4 ozs., twin sons of Sfc. and Mrs. Francis R. Blanchard.

Robert Adam Harrell, 6 lbs., 7-¾ ozs., 1 Dec., son of Sgt. and Mrs. John Joseph O'Shea.

Donna Jean Allegood, 7 lbs., 8 ozs., 2 Dec., daughter of Sgt. and Mrs. Billy G. Allegood.

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'BEST SOLDIER'—Pfc. Hugh Erwin receives a complimentary ticket to the Huntsville Chamber of Commerce banquet tonight from Miss Sarah Taylor, the Redstone Arsenal representative assigned at the C of C to help new arrivals find homes in Huntsville. Pfc. Erwin was chosen "Soldier of the Month" at the Arsenal in competition which includes all the troops on the post. The soldier chosen must show a knowledge of current events, his personal job assignment, and military rules and bearing. Pfc. Erwin is a New Yorker now assigned in Detachment 'A' of the U. S. Army Garrison Troops. His job assignment is in the Supply Management Branch of the Field Service Division, Army Rocket and Guided Missile Agency. Erwin has an M.B.A. degree in business from Dartmouth College. In addition to being a guest in town during his three-day Army pass awarded to the Soldier of the Month, he was a guest of honor at the Kiwanis Club banquet Tuesday night. The Kiwanis Club and the Chamber of Commerce are co-sponsors of the "Soldier of the Month" program.

COL. NEWHALL THANKS VAN LEEUWENS FOR ARRANGING THANKSGIVING DAY FETES FOR NATO STUDENTS AT OGMS

Mr. and Mrs. Leon Van Leeuwen, who made arrangements for more than 200 European students at the Army Ordnance Guided Missile School to be Thanksgiving dinner guests of Huntsville families, were given the official thanks of the School by Col. H. S. Newhall in ceremonies at City Hall last Friday.

Col. Newhall, the OGMS commandant, read a special letter to the Van Leeuwens during the

course of welcoming the first visit here of Saint Nicholas, the original Santa Claus, in a program arranged by Royal Netherlands Air Force students at the School.

Col. Newhall said many of the men and their families who enjoyed Thanksgiving hospitality had told him it was the first time they had been received into an American home.

"I am especially pleased that this excellent program was carried out by a man like yourself who was born in Europe and became an American citizen, for it served to emphasize the very strong ties of origin, culture, and customs that we in America share with those from across the sea," Col. Newhall said.

"As men from other lands continue to enroll here, I hope it will

Army Engineers Ask Bids for Repair of Building at School

Army Engineers have announced that bids will be opened at 11 a. m., C. S. T., on Dec. 23, 1958, at the Corps of Engineers District Office in Mobile, Ala. for repairing the roof of Vincent Hall, a class and laboratory building of the Ordnance Guided

Missile School at Redstone Arsenal.

The job will consist of removing the present roof wearing surface and installing a new roof wearing surface of synthetic latex.

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Sunday and Holidays 0900-2200.
LIBRARY OPERATING HOURS
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Sunday 1200-2200
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Wednesday thru Friday 1400-1630 and 1730-2200.
Saturday and Holidays 0800-1630.
Sunday 1230-1930.
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Tues., Thurs., Sat., Hol., 1000-2300.
Friday 0900-2300.
League Play:
Friday 1300-1600 and 2000-2300
Monday thru Thurs., 1745-2300
GOLF DRIVING AND ARCHERY RANGE OPERATING HOURS
Sun thru Sat., 1300-1830.
POST GYMNASIUM OPERATING HOURS
Monday thru Friday 1030-2130
Saturday 0930-1700
Sunday 1300-1700 (The Gym will be utilized by the Bloodmobile 10 and 11 December).
The Gym will be reserved for ladies of the post Tuesday and Thursday mornings from 0930 - 1130 hours effective 9 December.

be possible for you and those who work with you to carry on this warm and friendly activity," he said.

Van Leeuwen was born in The Netherlands, became a U. S. citizen and is now employed in the laboratories of the Army Ballistic Missile Agency. His wife was born in Canada. They live at



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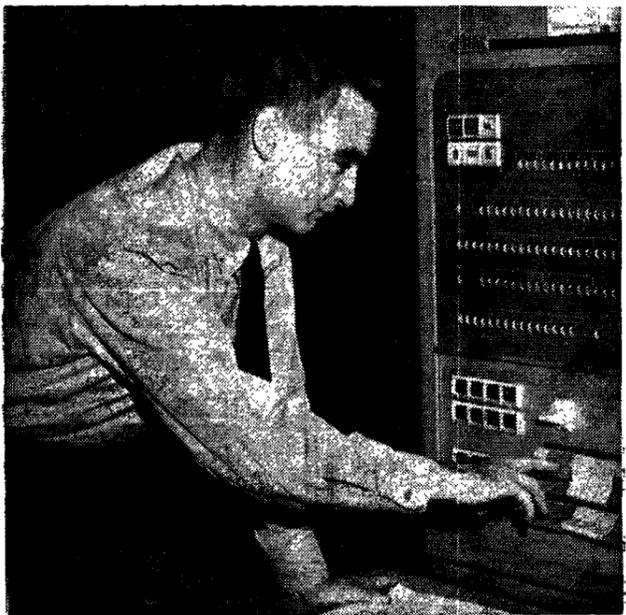
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PFC. FRANK J. BESADESKY, JR.

S&P SOLDIER HELPED DETERMINE LAUNCHING CONDITIONS FOR PROBE

A 24-year-old Army Private first class played an important part in the research necessary for the Army-NASA space probe. Because of the Army's Scientific and Professional program for allowing maximum contributions from qualified personnel while in service, Pfc. Frank J. Besadesky, Jr., helped to determine the launching conditions necessary to place the payload on a path into space.

school science students at Kansas City, Mo., for one year after graduation from Central Missouri State in 1956. Then he entered the Army, received basic training at Ft. Leonard Wood, and was sent directly to the Army Ballistic Missile Agency at Redstone Arsenal.

Because of his Bachelor of Science degree with a major in mathematics, he was assigned to the Computation Laboratory of

ABMA, one of 10 directed by Dr. Wernher von Braun.

Here he helped to establish the initial conditions which would put the payload in its desired trajectory. Receiving initial coordinates and conditions at an injection point from the Aeroballistics Laboratory of ABMA, Pfc. Besadesky transferred these to machine language, understood by a giant electronic computer.

The injection point was selected after all stages of the launching vehicle had been fired. Given the thrust and guidance of the payload at this point, the amazingly swift computer calculated at any time on its course the payload's distance from the earth, the moon, and the sun, its velocity, and the direction it would be heading.

The flight of the tiny object was affected by the gravitational pull of the earth, moon, and sun. Information on hundreds of simulated launchings was fed into the computer by Pfc. Besadesky. His supervisor, Thomas C. Yarbrough, Jr., says that Pfc. Besadesky worked many hours overtime, at no extra compensation, to complete his assignments. His work is regarded highly by Dr. Helmut Hoelzer, director of the Computation Laboratory.

Pfc. Besadesky married the former Miss Janice Brown, also a graduate of Central Missouri State College and a former school teacher. Now living in Huntsville, they have an eight-months-old daughter, Janet Kimberly.

His parents live at 6605 Hardy, Kansas City, Mo.

'Old-Timer' McMurray's Service Crowned With Space Probe Success

Twelve years of continuous service by Gail G. McMurry with the Army's long-range missile development team have been crowned with the success of its first deep space probe experiment.

McMurry, who lives at 216 Richmond Drive, N. W., Huntsville, has been associated with Dr. Wernher von Braun and his colleagues since September, 1946, when he joined "Operation Paperclip" at Ft. Bliss, Texas.

This was the first station in the U. S. where Dr. von Braun and the nucleus of what is now the Army Ballistic Missile Agency began their historic work. "Operation Paperclip" was the code name for the project which got underway at the close of the war in Europe and resulted in the transfer of 120 scientists from the Peenemuende Rocket Center to this country.

McMurry is employed in the Gage Calibration Laboratory of the Systems Analysis and Reliability Laboratory of Dr. von Braun's Development Operations Division. He spent three years in the Regular Army at Ft. Bliss in 1920-23.

"I am the oldest American in terms of service associated with the team," McMurry explained. "I was the tenth native-born employe hired by General Electric to work on Project Hermes, an

experimental rocket. The other nine have left the organization in the course of the 12-year period."

McMurry attended high schools in Brandon, Texas, where he was born March 2, 1902, and in Memphis, Texas. He began his career with the Army Ordnance Corps as a civilian employe at Ft. Sam Houston in 1942. He has also been stationed at Dunwoody Institute in Minneapolis, Rock Island, Ill., Arsenal and Camp Hulen, Texas.

His wife, Mary, is the daughter of Mrs. Allie Minor of 216 Richmond Drive, N. W., Huntsville. The couple have a grandson, James Miller Robertson, III.

McMurry is a past high priest of Eunomia Chapter No. 5, Royal Arch Masons of Huntsville, and a Shriner. His hobbies are beekeeping, rose gardening, woodworking, photography and, as he put it, "I enjoy being a professional grandpa."

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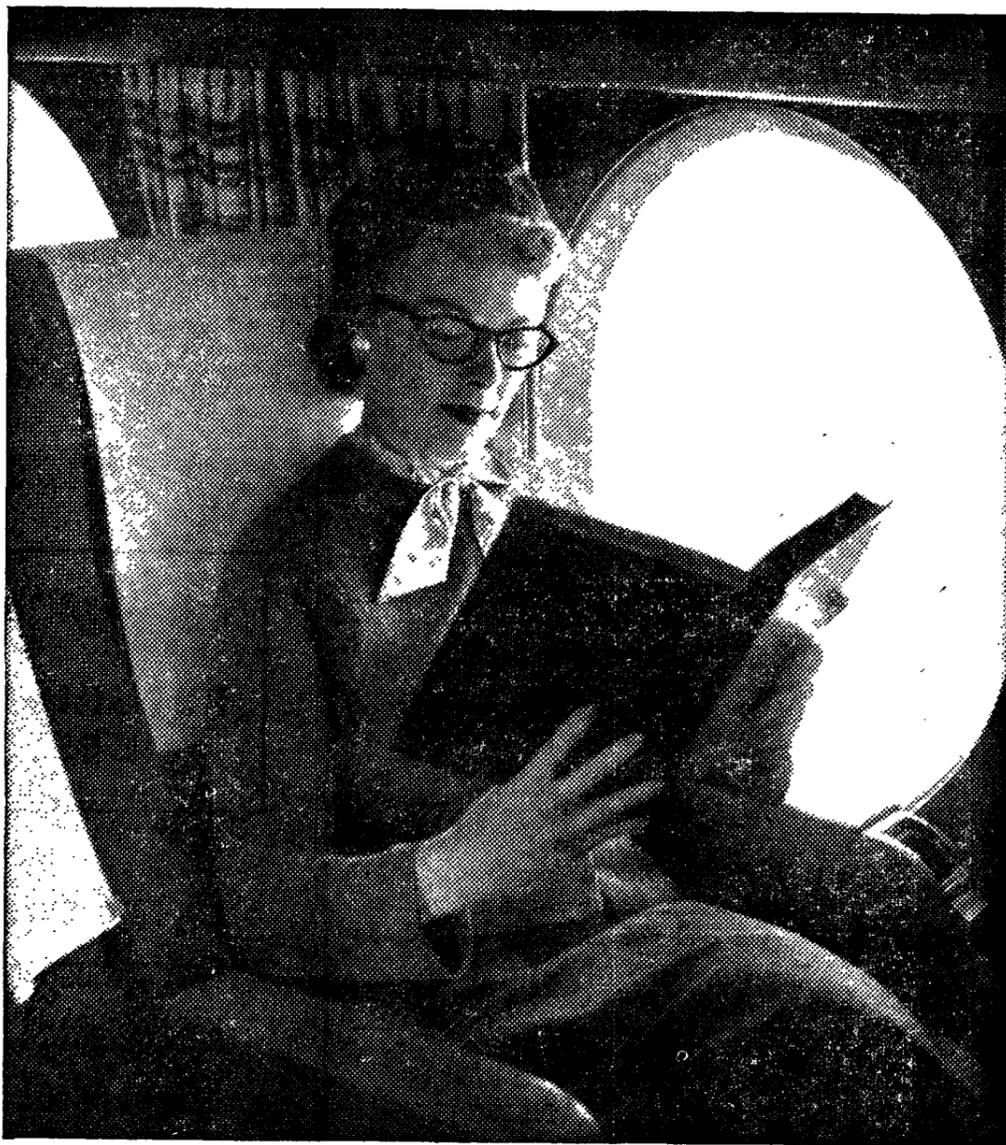
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AUCTION SALE! Our next surplus and salvage sale will be held Friday, Dec. 12 at 6:30 p.m. There will be plenty of good used furniture, appliances and other useful items at your own price. Prizes will be given all during sale. (Use your Cents to Save Dollars). **WAREHOUSE SALES CO.,** Four-lane drive—city limits. 1tc

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WANTED—2 passengers to Los Angeles in executive type airplane, depart Saturday, Dec. 20 return Saturday, Dec. 26. For information phone **JE 4-7975 or Redstone extension 3688.** 1tc

FOR SALE — GE Portable TV, 17 in., near new, no reasonable offer refused. Call Mrs. Thomas, Redstone ext. 3916 or can be seen at Thomas Trailer, Dixie-Land Trailer Court, at Lacey Spring. 1tc

FOR SALE — Army dress blue uniform. Good condition. \$35.00. Call Redstone Arsenal 8162. 1tp

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FOR GRACIOUS COUNTRY LIVING — Spacious modern brick home on 1½ acres, located 16 miles from Redstone near high school and shopping district. This is for anyone who wants quality, built by a building contractor for own home. For further information call **New Hope BR 3-4773.** 12-19c

FOR SALE — Five room house, garage and barn on 1½ acres of land two miles east of Hartsville. **W. R. PATTERSON, Pho. SP 3-7394.** 12-25c

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FOR SALE—Two modern 3-bedroom homes 1 mile west of Athens on new 72 highway just outside city limits. Terms can be arranged. **R. E. MASSEY, Phone Athens day 9156, night 926W3** 12-12c

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.** tfc

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Three Sergeants Named As MC's for Annual Children's Yule Party

Master Sergeants **Arnold B. Chipman, Howard R. Wynn, Henry S. Balicki, and Harry Bullard** will serve as masters of ceremonies for the Annual Children's Christmas Party at Redstone Arsenal on Dec. 22nd, it was announced by the Christmas Party Committee this week.

In addition, there will be three Santa's helpers for the occasion—Master Sergeant **Jack Dempsey, Master Sergeant Ed R. Dieringer, and Pfc. Oakley Guillary.**

The party will be divided into four groups in order to accommodate all dependents of Arsenal military personnel ranging in age from infants in arms up through children nine years of age, residing both on and off post. Dependents of NATO troops stationed at the Arsenal are also included.

Division into groups has been done alphabetically in order to allow children from the same family to attend the same party. Two parties will be held simultaneously at 9:30 a.m. and 1:30 p.m., utilizing the Arsenal's Rocket Auditorium and Post Theater.

Children whose last names begin with A through D will attend the 9:30 a.m. party at the Rocket Auditorium; E. through J will attend at 9:30 a.m. at the Post Theater; K through R will attend at 1:30 p.m. at the Rocket Auditorium, and S through Z will attend at 1:30 p.m. at the Post Theater.

No reservations are required for the event. Bus transportation from the various housing areas will be furnished for both parents and children. The program will include taped Christmas music, movies and the presentation of gifts.

FOR SALE — Very clean 1953 Chevrolet Bel Air—radio, heater, new tires. Take over payments of \$47 per month or buy it outright for \$542. Contact **W. P. MOORES** at 6-4411, ext. 5302 or 5271. 1tp

HOUSE TRAILER FOR RENT — 30-foot one-bedroom, couple only, located White Way Trailer Park. \$75 per month, utilities furnished. **Phone JE 6-5747, or Redstone extension 2537.** 1tp

JUST ARRIVED—Truck loads of new furniture. Couches, chests, cedar wardrobes, bedroom suites at factory prices. (Use your cents to save dollars). **Warehouse Sales Co., Four Lane Drive, city limits. Phone JE 6-2103.** 12-17c

Arsenal boy and girl scouts will serve as "mother's helpers" during the parties, assisting on the buses and during the festivities. This participation will be credited toward their Scouting badge work.

The Party is being sponsored by the Arsenal's Joint Activities Council through its Special Projects Committee.

Gen. Trudeau Will Be On 'Face the Nation'

Lt. Gen. **A. G. Trudeau, Army Chief of Research and Development,** will appear on the "Face the Nation" television program at 11:30 a. m. Sunday, Dec. 14. CBS network will carry the program.

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ORDNANCE CORPS PROGRAM HELPS YOUNG OFFICERS DEVELOP CAREERS

The Army Ordnance Corps recently began a new indoctrination program to encourage young Regular Army Officers to choose Ordnance careers and help them develop into Ordnance troops commanders or managers of Ordnance activities.

Seventy-six officers are now enrolled in the training program, including about 19 at colleges or universities. When the program gets in full swing, Ordnance experts to have about 200 officers enrolled at all times. About 30 percent of these will be in educational institutions. The number of enrollments and the duration of the program depend, of course, upon the continuing availability of funds.

The new training program, normally lasting three to four years, will follow four stages:

1. Orientation: This consists of a four-week Company Officer Indoctrination Course at the Army Ordnance School, Aberdeen Proving Ground, Maryland. This course covers the history, organization, and function of the Ordnance Corps, plus the principles of design and manufacture, distribution, and field service of Ordnance materiel.

2. Advanced education: This encompasses one or two years at a civilian college or university for advanced study in technological and other specialized fields of value to Ordnance.

3. Ordnance development: This includes two or more duty assignments to provide balanced experience in the several types of

Ordnance operations.

4. Field service preparation: Officers attend local troop schools receiving instruction in Ordnance field service operations.

Each officer enrolled in this course will concentrate in a special field—guided missiles, special weapons or ammunition, automotive, or armament. The selection will be based upon the individual officer's preference, his background and education, and the

needs of the Corps.

Some of the installations being employed for this program include the Army Ordnance Missile Command, Picatinny Arsenal, Ordnance Tank-Automotive Command, and Watertown, Watervliet, and Frankford Arsenals. Educational institutions include the University of Alabama, New Mexico A and M College, University of Michigan, University of Pennsylvania, and Rensselaer Polytechnic Institute.

All Regular Army Ordnance officers assigned to the Corps after 15 September 1958, if they have not completed more than four years of commissioned service, will be enrolled in the new program upon completion of a

tour of duty with a combat unit. Those serving with a combat unit overseas will be enrolled when they return to the United States. Regular Army Ordnance officers who have completed combat unit tours, but have not completed four years of commissioned service, will be considered for enrollment. Selection is to be based on education, experience, and the amount of money available to finance the program.

Outstanding career reserve officers serving with Ordnance, up through the grade of first lieutenant, will be considered if they have four years of commissioned service, a bachelor's degree in a technical or scientific field, and

meet certain other requirements.

Safety Scoreboard

(As of Dec. 8)

Days since last civilian disabling injury—12.	Our Goal	30
Days since last military disabling injury—13.	Our goal	30
Days since last contractor personnel disabling injury—42.	Our Goal	75
Days since last government vehicle accident—6.	Our Goal	30

Officers Taking Courses Indoctrination Tour In 'Space Technology'

The University of Alabama is presenting a series of filmed 2½ hour weekly presentations entitled "Space Technology."

Cost of the course is \$15 and is presented during off-duty hours.

Officers in the Officer Indoctrination Tour (OIT) program are taking this same course during duty hours, each Tuesday (except during the Christmas season) at 1000 hours in the auditorium of Bldg. 3303.

The AOMC Chief of Staff has approved attendance of AOMC staff on a "catch-as-catch-can" basis at the Tuesday sessions. There will be no charge for this type of attendance in that enrollment with the University of Alabama will not be effected nor will credit be given.

The schedule for the remainder of this calendar year follows. The schedule for the remainder of the series will be announced in the near future.

PROGRAM 6 16 December 1958

Recovery Dynamics — Heat Transfer at Hypersonic Speeds—Lester Lees, Professor of Aeronautics, California Institute of Technology.

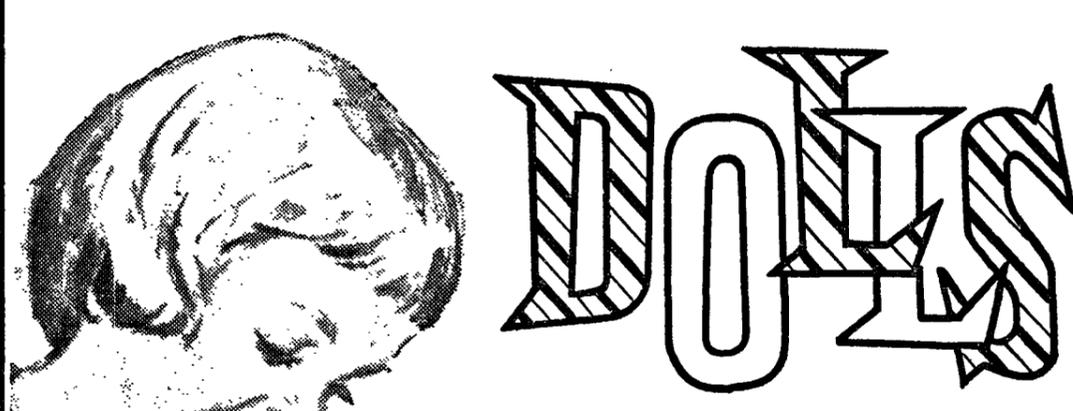
Recovery Dynamics — Possibility of Non-Destructive Landing — Alfred J. Eggers, Jr., Chief, Supersonic Wind Tunnel Branch, NACA-Ames Aeronautical Laboratory, Moffett Field, Calif.

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