

# Two Hours NY To Moscow Predicted By Scientist

By JOHN BARBOUR  
Associated Press Science Writer

NEW YORK (AP)—The whine and roar of the rocket is enormous.

An invisible force presses you back into your seat and you feel your weight has suddenly doubled or tripled.

You are riding a rocket plane that will power you and perhaps 35 other passengers more than 5,000 miles to Moscow in less than two hours.

This picture of flight along the fringes of space was reported by Dr. Robert Cornog of Space Technology Laboratories to the meeting of the American Rocket Society.

For five full minutes the battle between rocket and gravity will push you back with an acceleration faster than you've ever felt before.

At the end of five minutes, you'll be hurtling along at about 8,000 miles an hour some 30 miles over the world. The rocket plane has already covered 500 to 1,000 miles.

Suddenly the noise is gone, the acceleration slackens. The rocket plane booster breaks away and returns to its base—and now you and your fellow passengers are gliding toward your destination.

The inside of the passenger compartment is less luxurious than the big jet planes that span the globe—but the time you spend flying is small.

Cornog said that such a plane could be commercially in operation in 10 years or so. The passenger fare would be half as much as comparable trips by jet—and would be faster too, he said.

In fact, jet passenger planes will be stuck at speeds less than the speed of sound for at least the next 10 years, Cornog said.

The military will probably have passenger and freight type rocket gliders, as well as bombers long before they are commercially practical, he added.

The Air Force has had a program called Dyna-Soar under way

for sometime. It intends to develop a rocket-propelled ship capable of gliding around the earth.

Because of the stresses of this type of travel, passengers may have to undergo physical examinations to make certain they have no serious heart ailments or other medical problems.

Cornog said the passenger glider would use a rocket engine of less than 30,000 pounds thrust—about a third as powerful as either the Jupiter or Thor 1,500-mile range ballistic missiles.

The passenger ship would be practical only on trips between 3,000 and 6,000 miles, he said. It might cost up to 10 million dollars to develop a flying prototype.

**THE BIRD**  
PARKERSBURG, W. Va. (AP)—That Thanksgiving turkey won't taste the same to Garry Kozen, 21. He was treated at Camden Clark Memorial Hospital for a broken big toe suffered when he dropped a 25-pound frozen turkey.

**NO AWARDS**  
MIDLAND, Tex. (AP)—Kiwans Club President Phil Jonsson arose at an annual banquet to present awards to members with perfect attendance records for the year. The first five members he named were absent.



"You've got to admit he's a hustler, J.G.! He's only been here for four days and already he's got a basketball and a hockey pool started!"

# Army Hoping To Shoot Space Probe December 6

WASHINGTON (AP)—The Army hopes to fire its first space probe Dec. 6. It will be much lighter and simpler than the ones the Air Force used in three tries at reaching the vicinity of the moon.

The launching will be made from Cape Canaveral, Fla., the base from which the Air Force sent aloft its lunar probes earlier this year. One of these was partially successful, but two other rockets failed not long after takeoff.

The Army plans to launch a new rocket combination it calls Juno. This comprises a modified Jupiter intermediate range ballistic missile and three rocket stages fueled with solid propellants.

The probe, riding in the nose of the rocket, will contain 15 pounds of instruments while the probe case will weigh another 15 pounds.

The Air Force lunar probes weighed about 85 pounds, with instrumentation accounting for about 25 pounds of this.

Unlike the Air Force, the Army goal is to pass the moon and head toward the sun.

If the probe enters the sun's field of gravity, it could be pulled into orbit. Then it would be a baby planet revolving about the sun just as Earth, Mars, Venus and the other planets do.

Cape Canaveral soon will have to share attention with the Pacific Coast in missile and space vehicle launchings.

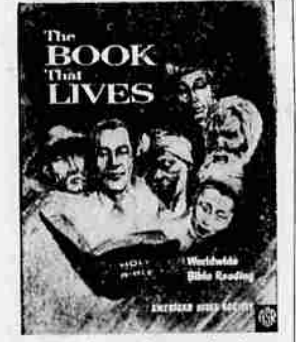
Informed sources say the first launchings from Vandenberg Air Force Base near Lompoc, Calif., will come in December.

There had been speculation that the new launchings would include the reconnaissance satellites Sentry and Pied Piper. They would circle the earth, about 200 to 400 miles up, and scan the land below.

But a Defense Department spokesman said the Pied Piper and Sentry will not be tried for at least a year.

In the three Air Force shots at the moon, one rocket blew up after a bit more than one minute in the air. The second traveled roughly a third of the 229,000 miles to the moon, then fell back to a flaming death in the atmosphere. The third reached only 1,000 miles when one of its stages misfired.

Now the Army has two chances. Although the aim of the first probe is to pass the moon, Dr. Werner von Braun, head of the Army space probe program, has said it might get caught in the moon's pull of gravity instead. Then the Army probe could become a satellite of the moon or hit it.



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- Camay Facial 3 reg. bars 32c
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- Lava Hand Soap 2 reg. bars 25c
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- Oxydol Giant 49-oz. pkg. 89c
- Dreft pink detergent 37-oz. pkg. 87c
- Dash mild detergent 24-oz. pkg. 45c
- Cheer giant 51-oz. pkg. 87c
- Spic 'n Span cleanser 16-oz. pkg. 30c
- Joy dishwashing Detergent 22-oz. btl. 75c
- Ivory liquid detergent 12-oz. can 45c
- Cascade For dishwashers 20-oz. pkg. 49c
- Comet Household Cleanser 14-oz. can 17c
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There have been over 2100 winners to date. Get a card each time you visit our stores and join in the fun and valuable prizes. Follow the rules listed on the back of each card. Do not combine game numbers that appear in similar designs.

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- Dog Food** Colo - 2c off pack 8 cans \$1
- Pork and Beans** Highway - just heat 'n serve 2 2 1/2 cans 39c
- Beef Stew** Libby's - Rich with meat & vegetables 24-oz. can 49c
- Pancake Flour** Kitchen Craft - Safeway's own 4-lb. pkg. 49c
- Pancake Flour** Betty Crocker - finest ingredients 4-lb. pkg. 55c
- Minute Rice** prepared instantly 13 1/2-oz. pkg. 45c
- Hominy** Highway Golden or White 3 No. 300 cans 29c
- Grapefruit** Town House sections 2 303 cans 45c
- Pear Halves** Highway peeled - in light syrup 3 2 1/2 cans \$1
- Tomatoes** Gardenside - fresh picked flavor 6 303 cans \$1
- Stewed Tomatoes** Famous Del Monte 5 303 cans \$1
- Grape Delight** Tea Garden preserves 3 8-oz. glasses 49c
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## Navel Oranges

5-lb. bag 59c

## Green Cabbage

lb. 5c

## Grapefruit

8-Lb. Bag 69c

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