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MAN AND THE STARS:

On a London site laid waste by the first 1,000-lb. bomb of the blitz, the Duke of Edinburgh opens the most modern planetarium in the world - and the first in the British Commonwealth. The dumbbell-shaped projector, which (with its driving machinery weighs more than six tons) throws a crystal-clear picture of the heavens on to the inside of the huge white dome. To give the planets their correct movement, separate projectors rotate in a complex pattern. We can be shown the Southern Cross - for the sky of any part of the world, as seen at any time past, present, or future, can be conjured up by this wonderful machine.

From looking at the stars, to reaching out towards them; here is man's newest satellite. The windows are solar batteries, to power one of the pair of tiny radars. And here's the U.S. Navy's 72-foot Vanguard rocket, ready to launch the six-inch satellite on its lonely journey in the vacuum of space. The Navy's determined after two failures, this launching will be a success.

At the Cape Canaveral launching site, the boffins give the word - and on St. Patrick's Day, 1958 - man-made satellite No. 4 is airborne.

The three-stage Vanguard rocket behaves perfectly, gradually building up speed to the 18,000 miles an hour needed to put the little satellite in orbit.

In Washington, first calculations at the Vanguard Computing Centre prove that the launching has been a complete success. Circling the earth every two and a quarter hours, at a maximum height of 2,500 miles - the highest yet - the satellite may stay in orbit for 10 years!