

Astronomical Society of Haringey

17 September 2026, 7pm. Online via Zoom

Visit <http://www.ashastro.co.uk>

SPACEFLIGHTUK Presents

Island Zero - An innovative and unique new development proposal for space habitats

By space expert and author **Jerry Stone FBIS FRAS**



Island Zero in Earth orbit - Image by Jerry Stone.

In the 1970s, Gerard O'Neill and others developed plans for large space habitats.

The design known as "Island One" could house 10,000 people, and there were designs for even larger habitats.

They would be different from anything developed previously, as they would rotate to produce simulated gravity.

Gerard O'Neill deliberately restricted the design of Island One to the technology available at the time, to show it actually was possible to build it.

Around 10 years ago, I reasoned that as technology had greatly advanced since

then, to build this now could be done more efficiently, and relatively cheaper.

So I set up The SPACE Project (**Study Project Advancing Colony Engineering**) at the British Interplanetary Society "to review and update the Island One design".

Before building a large habitat, we'd need a smaller structure to house the assembly team. An initial version would also be needed to carry out the required medical research. This would also demonstrate the viability of some of the ideas behind space habitation.

At the very start of the project, I stated that all space habitat designs assume they will rotate to produce 1g.

I asked; "Do we *need* 1g? Could we live under 0.9g, 0.8 or an even lower value?"

I developed a new innovative unit, designated "Island Zero", which can fulfil both functions. A unique feature is that it can provide simulated gravity at different levels - *simultaneously!*

It has various other advantages over other planned structures.

This is the very latest version of this presentation, based on updates to the design made just during the last 10 days, and including new images and 3D visualisations.