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EXTRATERRESTRIAL ARCHITECTURE ON MARS

Abstract

Discussions about terraforming Mars and constructing a sustainable Martian base have been ongoing since the 1960s, with no clear architectural vision evolving. It is undeniable that exploring Mars has been dominated by government oversight, while creative artists from Earth have been presenting illustrated images through a variety of art mediums of what an extraterrestrial environment would look like influenced greatly from Earth alone.

In this session, the topic will be designating the site at Hellas Basin, well known for having the thickest atmosphere on Mars. We will explore the possibility of living permanently on Mars through thinking architecturally in an extraterrestrial communal habitats program and how hydroponic system would constitute the base of food production to secure the permanent life, it will be designed to maximize Martians interactions with shared spaces, practice of in-situ resource utilization system, and interplay with the subsurface to establish protection from the harsh environment.