

## NITheCS COLLOQUIUM: Extreme environment economics

Dr Adriana Marais (Foundation for Space Development Africa)

### Join us in person or online

Venue: Ithemba 2, School for Data Science and Computational Thinking, Stellenbosch

**Monday, 26 September 2022 | 16h00 – 17h00 SAST**

### ABSTRACT

Achieving human settlement of the Moon and Mars in the coming decades is increasingly realistic. Efficient management of limited resources will be tantamount to the sustainability of communities in such environments. Given that off-world settlements would be established from scratch, the design and implementation of novel economic systems is possible.

Living organisms are open systems, continuously exchanging energy and matter with the environment in order to survive. Looking from the behaviour of terrestrial extremophiles to human communities living beyond Earth, here we think about resource management strategies and their impact on survivability and other aims of specific communities and environments.

### BIOGRAPHY

Adriana Marais' PhD and postdoctoral work in quantum biology focused on photosynthesis and the origins of prebiotic molecules in space.

Adriana is currently a director at the Foundation for Space Development Africa, scientific moderator on space resources with Geneva Science and Diplomacy Anticipator, chair of space sciences at Tod'Aérs Aeronautics and Space Research, and also faculty at the Singularity University.

In 2019, Adriana founded Proudly Human, towards a future we can be proud of, whatever planet we are on. Proudly Human's Off-World Project prepares for extreme conditions on Earth and beyond.



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