



# LIQUIFER. Living Beyond Earth

## Architecture for Extreme Environments

Edited by LIQUIFER Systems Group  
Edited by Jennifer Cunningham

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- First monograph on the boundary-pushing, visionary work of LIQUIFER Systems Group
- Essays by renowned space architects Brent Sherwood and Christina Ciardullo offer a highly readable introduction to the broad subject of space architecture
- A rich source of inspiration for collaborative and sustainable design practice for human life on Earth and in space
- LIQUIFER Systems Group is among the global leaders in space design and has been instrumental in establishing this as an architectural discipline in its own right

Conquering the extremes: LIQUIFER Systems Group, a design and research firm based in Vienna and Bremen, has been addressing the issue of human life on planet Earth and elsewhere in the universe for two decades. Their work demonstrates how considerate technology-based design solutions and careful use of available resources can enable us to live in space. Their concepts, feasibility studies, and technological developments all deal with the key issue of scarcity that defines life everywhere: on Mars, on the Moon, in orbit as well as on Earth. LIQUIFER Systems Group's projects range from a simulated Mars mission in Spain's Rio Tinto region and the interior design for the habitation module of the planned Gateway space station, to the EDEN ISS mobile greenhouse in Antarctica and biogenerative studies in which microbes are integrated into buildings to generate energy and recycle materials.

**LIQUIFER. Living Beyond Earth** is the first book to present the practice's groundbreaking work. It features spectacular images and visualisations, detailed plans, and drawings that are supplemented with essays by renowned American space architects Brent Sherwood and Christina Ciardullo. It enables the reader to delve into the visionary world of Europe's leading space design firms.

**LIQUIFER Systems Group**, based in Vienna and Bremen, is a group of experts around the core team of Barbara Imhof, Waltraut Hoheneder, and René Wacławicek, working on concepts and prototypes for the future colonisation of space and life on Earth. **Jennifer Cunningham** holds a master's degree in anthropology, material culture, and design. Based in Vienna, she works as a researcher, writer, and editor in the fields of design and architecture.