

**TECHNICAL PRESENTATIONS DURING IAC2018  
ON THE TOPIC OF SPACE RESOURCE ACTIVITIES**

**Monday 1 October**

Strategic Considerations for Resource Utilisation in a future Space-Based Economy

15:00 (Bremen 1)

Abstract: <https://iafastro.directory/iac/paper/id/43152/summary/>

**Tuesday 2 October**

A comparative analysis between the act on the exploration and use of space resources (Luxemburg) and the commercial space launch competitiveness act (u.s.): ways forward for national space law

09:45 (Bremen 3)

Abstract: <https://iafastro.directory/iac/paper/id/47115/summary/>

Lunar In-Situ Resource Utilisation (ISRU) Demonstration Mission Activities in ESA's Exploration Envelope Programme (E3P)

14:45 (CCB Kaisen)

Abstract: <https://iafastro.directory/iac/paper/id/46742/summary/>

Resource Prospector: Pathfinding In-Situ Resource Utilization

14:45 (CCB Kaisen)

Abstract: <https://iafastro.directory/iac/paper/id/41915/summary/>

Mars Expedition Resupply Nodes [MERN]: Design of Reusable, Transportable In Situ Resource Utilisation Modules for Sustainable Martian Infrastructure

14:45 (Bremen 1)

Abstract: <https://iafastro.directory/iac/paper/id/45433/summary/>

Lunar In-situ Resource Utilization activities by Airbus

14:45 (CCB Kaisen)

Abstract: <https://iafastro.directory/iac/paper/id/46022/summary/>

## Wednesday 3 October

### In-Situ-Resource-Utilization Water-Farms for Mars and Earth arid regions

09:45 (ZARM 3)

Abstract: <https://iafastro.directory/iac/paper/id/42802/summary/>

### Simulating Oxygen Production on Mars for MOXIE (Mars Oxygen In-Situ Resource Utilization Experiment)

09:45 (ZARM 3)

Abstract: <https://iafastro.directory/iac/paper/id/42905/summary/>

### Lunar outpost sustaining human space exploration by utilizing in-situ resources with a focus on propellant production

14:45 (ZARM 3)

Abstract: <https://iafastro.directory/iac/paper/id/46282/summary/>

### Mars Prospector: Leading the way to in-situ resource utilization on the Red Planet

14:45 (Bremen 1)

Abstract: <https://iafastro.directory/iac/paper/id/47522/summary/>

## Thursday 4 October

### Space Mining Corporation: The Pseudo-Economic and Technology Model

13:15 (IP Hall)

Abstract: <https://iafastro.directory/iac/paper/id/43397/summary/>

### Developing the New Legal Framework for Space Mining: Lessons from the Practical Implementation of the Common Heritage of Mankind Doctrine

13:15 (IP Hall)

Abstract: <https://iafastro.directory/iac/paper/id/42131/summary/>

### Utilization of resources on titan and transitory base-camp for manned outer solar system exploration

13:15 (IP Hall)

Abstract: <https://iafastro.directory/iac/paper/id/47947/summary/>

Expandable And Adaptive Modular Design Habitats Using In-situ Lunar Resources For Future Moon Surface Missions Within The Framework Of The Deep Space Gateway

13:15 (IP Hall)

Abstract: <https://iafastro.directory/iac/paper/id/43700/summary/>

The characterisation of five regolith simulants to enable in-situ resource utilisation research

13:15 (IP Hall)

Abstract: <https://iafastro.directory/iac/paper/id/48310/summary/>

Adaptive in-situ resource utilisation (isru) for long term space exploration

13:15 (IP Hall)

Abstract: <https://iafastro.directory/iac/paper/id/42235/summary/>

Bioreactor design to perform microbial mining activities on another celestial body

14:45 (Bremen 1)

Abstract: <https://iafastro.directory/iac/paper/id/42646/summary/>

Captured comet nuclei as space resource for interplanetary flying

14:45 (ZARM 5)

Abstract: <https://iafastro.directory/iac/paper/id/46545/summary/>

Space Based Electricity Generation using space resources for future space colonies and Missions

14:45 (CCB Danzig)

Abstract: <https://iafastro.directory/iac/paper/id/46162/summary/>

**Friday 5 October**

The Hague International Space Resources Governance Working Group: Third Progress Report

09:45 (Bremen 3)

Abstract: <https://iafastro.directory/iac/paper/id/47763/summary/>

Design and optimization of transfer of resources from the lunar surface to lunar orbit

09:45 (CCB Looydsaal)

Abstract: <https://iafastro.directory/iac/paper/id/47962/summary/>

Demonstrator design for lunar In Situ Resource Utilisation and Oxygen production

09:45 (CCB Kaisen)

Abstract: <https://iafastro.directory/iac/paper/id/48461/summary/>

CubeSat 3U-Payload for In-Situ Resource Utilisation Demonstration at C-type Near Earth Asteroids

09:45 (ZARM 2)

Abstract: <https://iafastro.directory/iac/paper/id/44694/summary/>

Design and optimization of transfer of resources from the lunar surface to lunar orbit

09:45 (CCB Lloydsaal)

Abstract: <https://iafastro.directory/iac/paper/id/47962/summary/>

Treating Space Junk as a Space Resource

13:30 (ZARM 1)

Abstract: <https://iafastro.directory/iac/paper/id/48135/summary/>

Asteroid Resource Exploration Mission by Reconnaissance and Landed Investigation

13:30 (CCB Kaisen)

Abstract: <https://iafastro.directory/iac/paper/id/42601/summary/>

Session D.4.5 “Space resources: Technologies, Systems, Missions and Policies

13:30 (Bremen 1)

Abstract: <https://iafastro.directory/iac/browse/IAC-18/D4/5/>