

The objective of this conference is to discuss recent, original and unpublished contributions to the understanding of current issues in space law and commerce and their consequences for modern economies and societies.

This year's theme is sustainability for space, in space and from space. 6 forward-looking themes have been selected (see the programme).

The conference will feature theoretical, experimental and/or policy-oriented contributions.

**REGISTRATION :**

<https://spacetalks24.sciencesconf.org/>

**LOCATION :**


Université Toulouse Capitole, Manufacture des Tabacs,  
21 allées de Brienne, bâtiment S

**ATTENDANCE :**

The SIRIUS Space Talks'24 take place in person.  
However, it will be possible to participate remotely

**CONTACT :**

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# Sustainability **for** Space, Sustainability **in** Space, Sustainability **from** Space

## 21 juin 2024

Université Toulouse Capitole  
Manufacture des Tabacs  
Auditorium salle MS001

INSCRIPTION EN LIGNE : <https://spacetalks24.sciencesconf.org/>

**SIRIUS SPACE TALKS '24**  
**11<sup>th</sup> Space, Business & Law Conference**

***Sustainability FOR Space, Sustainability IN Space,  
Sustainability FROM Space***

Toulouse, 21 June 2024

**8:30 – 9:00 am**

**Breakfast and registration**

**9h00 – 9h15 am**

Opening remarks (Prof. L.Rapp, Chaire SIRIUS,  
University Toulouse-Capitole, France)

**9:15 – 10:15 am**

**Space Sustainability as a Global Challenge**

- *"The 'Kessler Syndrome Apocalypse': Questioning the adequacy of international space law to regulate space debris?"*  
I.Wood (Université of Aberdeen, Scotland, UK)
- *"Legal Frameworks for Space-Made Products: Addressing Jurisdiction, Liability and Long-Term Sustainability in Outer Space"*  
Antonia Kardamaki (Leiden University, The Netherlands)
- *"Beyond Boundaries: Establishing a Global Framework for Space Traffic Management"*  
N.Moraitis, (Space Generation Advisory Council, Greek Chapter, Greece)

Chairman: C.Balty, Thales Alenia Space

**10:30 – 11:30 am**

**Lunar Mining, Nexus of Space Sustainability**

- *"The Environmental Imperative of Space Sustainability: The Case of Lunar Mining"*  
G.Leterre (University of Luxembourg, Chaire SIRIUS, Luxembourg)
- *"Legal and Sustainability Challenges associated with Lunar Mining and Settlement"*

(L.Denoyelles, University of Paris I, France)

- *"The Insurability of Environmental Damages caused by Lunar Activities"*  
S.Paradis (Laval University, Chaire SIRIUS, Canada)

Chairman: G.Griseri, Airbus Defence and Space

### Coffee Break

11:45 – 12:45 pm

#### Taxation, AI, Maritime: Lessons to be learned for Space Sustainability

- *"Application of Risk-Ethically adjusted Pigouvian Taxes to subsidize the Removal of Orbital Debris"*  
M.Bonissi (University of Western Piemonte, Italy)
- *"Harmonizing Technology and Law for Lunar Resource Utilization: Machine Learning in Crater Mining and Ice Harvesting under the Moon Treaty and Artemis Accords"*  
J.Sandalinas-Baro (Space Lawyer, Chaire SIRIUS, Spain) (Remote)
- *"FuelEU: Lessons to be learned from Maritime"*  
Helen Tung (Tung Chambers, UK)

Chairman: Ph.Gout (University Toulouse-Capitole)

12:45 – 2:15 pm

### Lunch

2:15 – 3:15 pm

#### Which Corporate Strategies towards Space Sustainability?

- *"Entrepreneurial support organization outcomes towards sustainable development"*  
A.Cloitre, (Toulouse School of Management, Chaire SIRIUS, France)
- *"Green Space Technologies: Conceptualization and Analysis"*  
N.Pulsiri (Toulouse Business School, Chaire SIRIUS, France)
- *"Ecosystems related to subcontracts for celestial minerals"*  
J-M.Haziza (University of Bordeaux, Chaire SIRIUS, France)



3:15 – 4:15 pm

### Technical Standards for Space Sustainability

- *“Towards a Customary Crystallization of Anti-Debris Norms?”*  
A.Chazelle (University Toulouse-Capitole, Chaire SIRIUS, France)
- *Unsustainable If Secure: China and technical standards for cyber-safe operations in outer space”*  
R.Vecellio Segate (University of Groningen, The Netherlands) (Remote)
- *“Regulation of Rocket Fuel Emissions in light of the Goals of Sustainable Development and Net-Zero Emission”*  
S.Dhamija (McGill University, Canada) (Remote)

Chairman: L.Deroin, CNES

Coffee Break

4:30 – 5:30 pm

### Space Sustainability for All

- *“A Universe for All: Unraveling the Enigma of Equitable Sharing of Benefits of Space Resources. How can the benefits of Space Resources be shared equitably?”*  
R.Cardellini (Leiden Law School, Air and Space Law, The Netherlands)
- *“The ‘Sustainability Odyssey’: Crafting Governance for Space Frontiers”*  
E.Koellner (University of Mississippi, USA) (Remote)
- *“Safeguarding the Skies: Balancing Space Sustainability with Indigenous Rights Protection”*  
D.Kasibante, (Space Generation Advisory Council, African Chapter, Austria) (Remote)

Chairman: L.Rapp, University Toulouse-Capitole

5:30 – 6:30 pm

Closing remarks (L.Monnoyer-Smith, CNES)