



Program

ESSCA Space Policy Workshop Routledge Handbook on Space Policy

Date: Monday 8 – Wednesday 10 November, 2021

Convener: Prof Thomas HOERBER, ESSCA/EU*Asia Institute, Dr Mariel BOROWITZ, Georgia Institute of Technology & Dr Pascal LEGAI, Senior Advisor to ESA DG

Venue: [ESA/ESRIN](#), Largo Galileo Galilei 1, Frascati - Rome (Italy) + Online via Webex

Day 1 : Monday 8 November, 2021

8 :15-8:45

Registration at the ESRIN Gate

Your ID document and a valid Covid-19 green pass certificate will be required.

09 :00-10 :00 CET

Visit ESRIN

Meeting point: Building 11

Take a guided tour of the ESRIN facilities: Phi Experience, HMW (Heritage Mission Walk through), Memorabilia Wall.

10 :00-10 :30 CET

Welcome & introduction to the workshop

Room: Forcada

Dr Pascal LEGAI

Dr Mariel BOROWITZ & Prof Thomas HOERBER

10 :30-12:00 CET

Session 1 – Sustainability in and from Space – Part 1

Room: Forcada

Chair: Dr. Sarah Lieberman

- **Online:** Julien GUYOT, University of Bordeaux, Prof Akhil RAO, Middlebury College, and Prof Sébastien ROUILLON, University of Bordeaux – GREThA, *The economics of orbit-use management*
- **On-site:** Dr Lorna RYAN, Department of Sociology, City, University of London & London Space Innovation Centre at City, University of London, *Gender and Space*
- **Questions and Answers**

12 :00-13 :00 CET

Lunch break – ESRIN

13 :15-14 :45 CET

Session 2

<p>Session 2.1 – Room Forcada Commercialization of Space <i>Chair: Dr Mariel Borowitz</i></p>	<p>Session 2.2 – Room “G” Space Theory <i>Chair: Prof Thomas Hoerber</i></p>
<ul style="list-style-type: none"> • On-site: Dr Nikola SCHMIDT, Center for Governance of Emerging Technologies, Institute of International Relations, Prague, <i>On the brink of space colonization: what are the current prospects for humanity to spread across the Solar System</i> • On-site: Dr Sarah Lieberman, Canterbury Christ Church University, Law and politics, <i>The actorness of individuals in space</i> • Questions and Answers 	<ul style="list-style-type: none"> • Online: Prof Rodrigo PRAINO, Flinders University, Mr Marco ALIBERTI, ESPI, Prof Ottorino CAPPELLI, Università di Napoli L’Orientale, Mr Francesco Maria VILLANI, SPPARC, Mr Matteo Cappella, Leaf Space, <i>Space Power and Spacepower</i> • On-site: Dr Svetla BEN-ITZHAK, Air University, West Space Seminar, <i>Space Theory</i> • Questions and Answers

15:00-15 :30 CET

Coffee Break

15 :30-17:00 CET

Session 3

<p>Session 3.1 – Room Forcada Commercialization of Space <i>Chair: Dr. Lorna Ryan</i></p>	<p>Session 3.2 - Room “G” Space Theory <i>Chair: Dr. Antonella Forganni</i></p>
<ul style="list-style-type: none"> • Online: Dr Timiebi AGANABA, School for the Future of Innovation in Society, Arizona State University, <i>The Emerging Space 5.0 Era: A Research Agenda in Ethics and Governance</i> • On-site: Dr Svetla BEN-ITZHAK, Air University, West Space Seminar, <i>2021: The End of Government Monopoly on Human Space Travel and Space Exploration?</i> • Questions and Answers 	<ul style="list-style-type: none"> • On-site: Dr Nikola SCHMIDT, Center for Governance of Emerging Technologies, Institute of International Relations, Prague, <i>Cosmopolitan theory for space: between current space policies and future space governance</i> • Online: Dr Gregory MILLER, USAF Air Command and Staff College, <i>Building Space Partnerships through Reliable Reputations</i> • Questions and Answers

17 :00-18 :00 CET

Book discussion

Room: Forcada

Structure of the Routledge Handbook on Space Policy

Dr Mariel BOROWITZ & Prof Thomas HOERBER

Day 2 : Tuesday 9 November, 2021

09 :30-12:00 CET Session 4 – Space Institutions

Room: Forcada Chair: Dr. Sarah Lieberman

- **On-site:** **Andrew THOMAS**, ESSCA EU*Asia Institute, *A Space Programme with Chinese Characteristics*
- **Online:** **Dr Aurélie TRUR**, Independent space policy and international relations expert, *Space policy developments in Eurasia and Turkey's first space strategy*

10 :30-11 :00 Coffee Break

- **Online:** **Dr Deganit PAIKOWSKY**, Hebrew University of Jerusalem, *The changing nucleus of the space club: theoretical and practical implications*
- **Questions and Answers**

12 :00-13 :00 CET Lunch break – ESRIN

13 :00-15 :00 CET Session 5 – Space Law

Session 5.1 – Room Forcada <i>Chair: Dr. Lorna Ryan</i>	Session 5.2 - Room "G" <i>Chair: Dr. Mariel Borowitz</i>
<ul style="list-style-type: none"> • On-site: Dr Antonella FORGANNI, ESSCA/EU*Asia Institute, <i>On the adequacy of Space Law</i> • On-site: Prof Bruno Reynaud de Sousa, Faculty of Arts and Humanities, University of Porto, <i>Detering 21st century privateers: hybrid actions in outer space as acts of piracy</i> • On-site: Maria Vittoria PREST, ESPI, Piero MESSINA, ESA, <i>The next Moon race: an evolving legal and political framework</i> • Questions and Answers 	<ul style="list-style-type: none"> • Online: Dr Alanna Krolkowski, Missouri University of Science and Technology, <i>A Nascent International Regime for the Governance of Space Resources? Diversity, Contestation, and Values in a Coalescing Community of Deliberation</i> • Online: Dr Teasel MUIR-HARMONY, Smithsonian National Air and Space Museum, Dr Stephen BUONO, Stanford University, <i>Lunar Governance: It's History and Politics</i> • Questions and Answers

15:00-15 :30 CET Coffee Break



15 :30-17:30 CET

Session 6 – Sustainability in and from Space – Part 2

Room: Forcada

Chair: Prof Thomas Hoerber

- **Online:** **Prof Danielle WOOD**, Massachusetts Institute of Technology, *The expanding sphere of human responsibility for sustainability on Earth and in Space*
- **Online:** **Prof. Jason CHUAH**, The City Law School, City, University of London & London Space Innovation Centre, *Space Projects for Developing Countries – Deploying a sound Contract Management Strategy*
- **Questions and Answers**



Day 3 : Wednesday 10 November, 2021

10 :00-10 :30 Morning coffee & tea

10 :30-12:00 CET **Session 7 – Militarization of Space**

Room: Forcada *Chair: Dr Mariel Borowitz*

- **On-site** Clémence POIRIER, SGAC Space and Cybersecurity Project Group, *From the militarization to the weaponization of Outer Space through Cyber means*
- **On-site** Giulia PAVESI, KU Leuven, *Space Reversible Operations: setting boundaries before Pandora's box is opened*
- **Questions and Answers**

12 :00-13 :00 CET Lunch break – ESRIN

13 :00-15:00 CET **Session 8 – Space Applications/Domestic Use**

Room: Forcada *Chair: Dr Antonella Forganni*

- **Online** Elisabetta LAMBOGLIA, ESA, Prof. Luisa CORRADO, University of Rome “Tor Vergata”, Prof. Fabio DEL FRATE, University of Rome “Tor Vergata”, *Estimating Copernicus High Priority Candidate Missions Jobs for Europe*
- **Online** Dr Robert Lincoln HINES, US Air War College, *The Domestic Politics of Outer Space*
- **Online** Dr Sung Wook PAEK, Dr Sam BROOKS, Prof Rajkuma ROY, City, University of London & London Space Innovation Centre, *Self-engineering and sustainability considerations of nuclear propulsion in space*
- **Questions and Answers**

15:00-15 :30 CET Coffee Break

15 :30-16 :00 CET **Conclusions**

Room: Forcada Concluding remarks by Prof. Thomas HOERBER, ESSCA EU*Asia Institute & Dr Mariel BOROWITZ, Georgia Institute of Technology