

Workshop programme: Enabling Sustainable and Responsible Lunar Activities

All times are indicated in the following time zone: UTC + 1 (United Kingdom time zone)

General view:

	Day	Day 1: 03/06/26				Day 2: 04/06/26		Day 3: 05/06/26
	Room	Earth 1&2				Earth 1&2		Earth 1&2
	Break-out room	Earth 1&2	Earth 3	Moon	Mars	Earth 1&2	Online (Teams) breakout room	Earth 1&2
	8:30 - 9:00	COFFEE BREAK				COFFEE BREAK		COFFEE BREAK
Morning session 1 - (09:00 - 10:45)	09:00 - 10:30	Welcoming & Keynote presentations Welcome from Agencies 🌐				Frame the problem, give the context-outcome focused Keynote speaker: Sustainability and Responsibility in the frame of Lunar Missions and applications 🌐		Frame the problem, give the context-outcome focused Keynote speakers: Enabling international coordination of Lunar activities 🌐
	10:30 - 10:45	Introduction to workshop structure, organization and breakout sessions 🌐				Intro to discussion sessions (15') 🌐		
10:45 - 11:00		COFFEE BREAK				COFFEE BREAK		COFFEE BREAK
Morning session 2 - (11:00 - 12:30)	11:00 - 12:30	PP breakout 🌐	SDM breakout 🌐	NPS breakout 🌐	HSFS breakout 🌐	Discussion: Lunar scenario in orbit	ONLINE: Lunar scenario in orbit 🌐	Discussion: Enable international coordination for Lunar activities 🌐
12:30 - 13:30		LUNCH BREAK				LUNCH BREAK		LUNCH BREAK
Afternoon session 1 - (13:30 - 15:30)	13:30 - 15:30	PP breakout 🌐	SDM breakout 🌐	NPS breakout 🌐	HSFS breakout 🌐	Discussion: Lunar scenario on surface	ONLINE: Lunar scenario on surface 🌐	Report brief Way forward White paper / publication table of content 🌐
15:30 - 16:00		COFFEE BREAK				COFFEE BREAK		
Afternoon session 2 - (16:00 - 17:30)	16:00 -17:30	Report (15' per discipline) 🌐				Report 🌐		Social / early departures
	17:30 - open end	Cocktail reception						

Legend:

Presentations

Discussion

Wrap-up

Social

: Remote connection possible

PP – Planetary Protection

SDM – Space Debris Mitigation

NPS – Nuclear Power Safety

HSFS – Human Space Flight Safety

Note: Teams links for remote connection will be sent by email prior to the event.

Detailed View:

DAY 1 (03/06/2026)								
Start time	End time	Session Name	Chair	Co-chair	Name of the presentation	Presenter Name	Presenter Organisation	Timing
09:00	10:10	Welcoming & Keynote presentations Welcome from Agencies Room Earth 1&2	Paloma Villar (ESA)	Sibyl-Anna de Courson / Silvio Sinibaldi (ESA)	Welcome from Space Agencies	Tommaso Ghidini / Paloma Villar	ESA	10' + 5' Q&A
						Elaine Seasley	NASA	10' + 5' Q&A
						Ryoji Kobayashi	JAXA	10' + 5' Q&A
						Sarah Boyal	UKSA	10' + 5' Q&A
10:10	10:30	Introduction to workshop structure, organization and breakout sessions			Introduction to workshop objectives, structure, organization and breakout sessions	Silvio Sinibaldi / Sibyl-Anna de Courson	ESA	20'
COFFEE BREAK								
11:00	15:30	PP Breakout * Room Earth 1&2	Nick Benardini (NASA)	Silvio Sinibaldi (ESA)	Planetary protection for lunar exploration in the new era for space	Silvio Sinibaldi/ Nick Benardini/ Takashi Yamazaki	ESA / NASA / JAXA	20'
					Can spacecraft-borne contamination compromise our understanding of lunar ice chemistry?	Francisca Paiva	Instituto Superior Técnico	10'
					Long Range Organic Footprint Transport on the Lunar Surface	John Alred	NASA	10'
					The Contaminant Footprint of Landed Spacecraft: Toward an Inventory and Modelling Framework	William Hoey	NASA	10'
					A Microbial Survival Model for the Permanently Shadowed Regions of the Moon Shows Long-Term Survival of Terrestrial Microbial Contamination	John Moores	York University	10'
(including lunch break 12:30 - 13:30)					OPEN DISCUSSION			
11:00	15:30	SDM Breakout * Room Earth 3	Sara Sanchis (OHB)	Sibyl-Anna de Courson (ESA)	Impact and Evolution of Zero Debris Requirements for Lunar Orbit Missions	Sara Sanchis Climent	OHB	10'
					Collision Risk Management and Space Traffic Safety in Cislunar Space	Filippo Mascellani	PoliMi	10'
					Space Debris Mitigation and Post Mission Disposal Options in Lunar Orbit	Bulbul Mukherjee	ISRO	10'
					Debris mitigation study in the cislunar domain	Chikako Hirose	JAXA	10'
					Low lunar orbit dynamic evolution and surface impact	Anthony Genova	NASA	10'
(including lunch break 12:30 - 13:30)					OPEN DISCUSSION			
11:00	15:30	NPS Breakout * Room Moon	Alessandra Barco (Perpetual Atomicms)	Grzegorz Ambroszkiewicz/ Luca Stoll (ESA)	Endure as an enabler of sustainable and responsible lunar activities.	Pierre Coquay	ESA	10'
					Development of americium-based RPS	Alessandra Barco	Perpetual Atomicms	10'
					European LSAP User Guide & Methodology For Implementation Of A Space Mission With RPS Launched From CSG	David le Falcher	ESA	10'
(including lunch break 12:30 - 13:30)					OPEN DISCUSSION			
11:00	15:30	HSFS Breakout * Room Mars	Larissa Arnold (NASA)	Nadia This / Alexander Gemitis (ESA)	The Evolution of Spaceflight Safety from Compliance Assurance to Risk Assessment	Terri Castillo	NASA	15'
					Using Mission Risk Profiles for the Tailoring of Safety Requirements for Human-Rated Lunar Systems.	Emmanuel Lesser	MDA Space	15'
					Lunar Surface Challenges for Human Exploration	Larissa Arnold	NASA	10'
					Why Biosafety and Biosecurity standards are important in lunar habitats	Lucas Teixeira Boldrini	IBBIS	10'
					ESA technology development for Human and Robotic surface exploration: prospecting and In-Situ Resource Utilization	Robert Lindner	ESA	10'
					Effects of Lunar Dust	May Martin	ESA	10'
(including lunch break 12:30 - 13:30)					OPEN DISCUSSION			
COFFEE BREAK								
16:00	17:30	Report Room Earth 1&2	Silvio Sinibaldi (ESA)	Sibyl-Anna de Courson (ESA)	PP breakout report	Nick Benardini	NASA	15' + 5' Q&A
					SDM breakout report	Sara Sanchis Climent	OHB	15' + 5' Q&A
					NPS breakout report	Alessandra Barco	Perpetual Atomicms	15' + 5' Q&A
					HSFS breakout report	Larissa Arnold	NASA	15' + 5' Q&A

*Note that for all breakout sessions, the presentations are not shown in order and may be redistributed along the morning or afternoon sessions (only presenters are aware of their tentative slot). The chairs of each session will show the detailed timeline of their break-out session during the workshop.

DAY 2 (04/06/26)

Start time	End time	Session Name	Chair	Co-chair	Name of the presentation	Presenter Name	Presenter Organisation	Timing
09:00	10:30	Frame the problem, give the context-outcome focused Keynote speaker: Sustainability and Responsibility in the frame of Lunar Missions and applications <i>Room Earth 1&2</i>	Silvio Sinibaldi (ESA)	Sibyl-Anna de Courson (ESA)	LUMOS mission	Warren Soh	Honeywell Aerospace	10' + 5' Q&A
					ESA Argonaut Mission Overview	Edrich Yau	ESA	10' + 5' Q&A
					Overview of the Moonlight programme	Charles Cranstoun	ESA	10' + 5' Q&A
					Chang'E-4 (2018), Chang'E-5 (2020) and Chang'E-6 (2024) Missions	Jing Peng	China Academy of Space Technology, ISSE	10' + 5' Q&A
					Exploration-related contamination of lunar polar regions: consequences and considerations for lunar science in the context of planetary protection	Alice Stephant	ESF	10' + 5' Q&A
					Purpose and Definition of a Lunar Surface Disposal Graveyard for Lunar Satellites	Matthew Stuttard	Mstar Space Ltd	10' + 5' Q&A
					European Space Nuclear Power Program	Alessandra Barco	Perpetual Atomics	10' + 5' Q&A
10:30	10:45	Intro to discussion sessions			Introduction to Day 2 discussion sessions objectives, and structure	Silvio Sinibaldi / Sibyl-Anna de Courson	ESA	5'
COFFEE BREAK								
11:15	12:45	Discussion: Lunar scenario in orbit <i>Room Earth 1&2</i>	Matthew Stuttard (Mstar)	Alice Stephant (ESF)	OPEN DISCUSSION			1h30
11:15	12:45	ONLINE: Lunar scenario orbit	Roberto Destefanis (TAS)	Francesca Letizia (ESA)	OPEN DISCUSSION - Remotely			1h30
LUNCH BREAK								
13:45	15:45	Discussion: Lunar scenario on surface <i>Room Earth 1&2</i>	Karl Kane Collery (UKSA)	Karen Olsson (O.U.) + Alessandra Marino (O.U.)	OPEN DISCUSSION			2h
13:45	15:45	ONLINE: Lunar scenario on surface	Sandra Ortega (ESA)	Luca Stoll (ESA)	OPEN DISCUSSION – Remotely			2h
COFFEE BREAK								
16:15	17:30	Report <i>Room Earth 1&2</i>	Silvio Sinibaldi (ESA)	Sibyl-Anna de Courson (ESA)	IN PERSON group In orbit scenario report	Matthew Stuttard	Mstar	15' + 5' Q&A
					ONLINE group In orbit scenario report	Francesca Letizia	ESA	15'
					IN PERSON group on surface scenario report	Karen Olsson	The Open University	15'
					ONLINE group on surface scenario report	Luca Stoll	ESA	15'

DAY 3 (05/06/26)

Start time	End time	Session Name	Chair	Co-chair	Name of the presentation	Presenter Name	Presenter Organisation	Timing
09:00	10:45	Frame the problem, give the context-outcome focused Keynote speakers: Enabling international coordination of Lunar activities <i>Room Earth 1&2</i>	Alexander Getimis (ESA)		Global governance of outer space activities and environmental considerations	Niklas Hedman	COSPAR	15' + 5' Q&A
					Managing Sites of Special Scientific Interest on the Moon	Ian Crawford	Birkbeck College, London	15' + 5' Q&A
					Protecting Astronomy on the Moon	Richard Green	IAU	15' + 5' Q&A
					Near term lunar governance tasks and opportunities, including balancing science, exploration, and geopolitical stability.	Christopher Johnson	International Institute Of Air And Space Law, Leiden University	15' + 5' Q&A
					Preserving science and strengthening cooperation: from Antarctica to the Moon	Alessandra Marino	The Open University	15' + 5' Q&A
COFFEE BREAK								
11:00	12:30	Discussion: Enable international coordination for Lunar activities	Niklas Hedman (COSPAR)	Ian Crawford (Birkbeck College London)	OPEN DISCUSSION			1h30
LUNCH BREAK								
13:30	13:45	Report brief <i>Room Earth 1&2</i>	All	All	Key take-aways from "Enable International Coordination for Lunar Activities"	Niklas Hedman	COSPAR	15' + 5' Q&A
13:45	15:00	White paper table of content <i>Room Earth 1&2</i>			White paper table of content	Sivlio Sinibaldi / Sibyl-Anna de Courson	ESA	1h
15:00	16:00	Way forward and Conclusions <i>Room Earth 1&2</i>			Way forward and Conclusions	Sivlio Sinibaldi / Sibyl-Anna de Courson	ESA	1h