

Monday, 20 January 2020			
	Overview surface release processes on regolith surface		
Time	Topic	Speaker	
08:30-09:00	Registration ISSI, Hallerstrasse 6, 1st floor		
09:00-09:30	Welcome and Introduction to ISSI	Director, Convener	
Chairperson:	Milillo		
Session 1	Ion sputtering lab results		
09:30-10:00	Review of ion sputtering on planetary regolith surfaces	Wurz	
10:00-10:20	Laboratory experiments on ion sputtering of minerals	Galli	
Session 2	Space weathering and Thermal desorption		
10:20-10:50	Exospheric Adsorption, Desorption and Surface Interactions	Teolis	
10:50-11:20	Coffee Break		
11:20-11:40	Exosphere-Subsurface Interactions	Schorghofer	
11:40-12:00	Solar wind induced hydroxylation process and formation of	Orlando	
	water/OH on the Moon, Mercury, and asteroids	Offarido	
Session 3	Micrometeoroid processes and impact vaporization		
40.00.40.00	Dust vaporization during impact events as a source of atoms	Berezhnoy	
12:00-12:30	of refractory elements in the Hermean exosphere	Berezimoy	
12:30-14:30	Lunch		
Chairperson:	Wurz		
14:30-15:00	Lab experiment meteoroid	Horanyi	
Session 4	PSD and Electron stimulated desorption		
45.00.45.00	Electron- and photon-stimulated desorption of the Moon,	Orlando	
15:00-15:30	Mercury and Asteroid surfaces	Chango	
15:30-15:50	Energy distributions for PSD of Na and K	Gamborino	
15:50-16:20	Coffee Break		
16:20-17:00	Discussion on the surface release processes	Chairperson: Wurz	
17:00	Welcome Reception - Hallerstrasse 6, 1st floor		



i uesday, 2	Tuesday, 21 January 2020				
Chairperson:	Sarantos				
•	The drivers				
Time	Topic	Speaker			
Session 1	lons and electrons	Орсинст			
09:00-09:20	Solar wind and plasma environment of the Moon	Harada			
09:20-09:45	Ion precipitation at Mercury: flux, drivers and implications	Raines			
09:45-10:05	Electron precipitations at Mercury nightside	Lindsay			
10:05-10:30	Modeling the Solar wind interaction with magnetic anomalies at the Moon and with Mercury's magnetosphere	Fatemi			
10:30-11:00	Coffee Break				
Session 2	Surface				
11:00-11:30	Temperatures at the Surface-Exosphere Boundary: Lunar Lessons and Applications to Inner Solar System Bodies	Greenhagen			
11:30-11:50	Surface regolith properties in the frame of exospheric studies	Capria			
Session 3	Micrometeoroids				
11:50-12:20	Dust distribution in the inner solar system	Hirai			
12:20-12:40	The Dust Environment of the Moon from the Surface through the Exosphere	Horanyi			
12:40-14:00	Lunch				
Chairperson:	Teolis				
	Meteor Input on Earth and Other Planets- Modeling and				
14:00-14:30	measurements	Janches			
14:30-14:50	Meteor showers at Mercury	Christou			
14:50-15:20	Coffee Break				
15:20-15:40	Space weather at Mercury and at other airless bodies in the solar system and exoplanetary systems	Winslow (remotely)			
Session 4	Surface				
15:40-16:00	Major Mercury surface features involved in the exosphere processes	Cremonese			
16:00-16:30	Discussion on the drivers	Chairperson: Teolis			
	Exosphere				
Session 1	Back scattering				
	ENAs from backscattering and their use for remote sensing of	Vorburger			
	the surface				
16:30-16:50	the surface End member of refractories				
16:30-16:50 Session 2		Nishino			
16:30-16:50 Session 2 16:50-17:10	End member of refractories	Nishino Killen			
16:30-16:50 Session 2 16:50-17:10 17:10-17:40 17:40	End member of refractories Heavy ions and neutrals in the lunar exosphere				



Chairperson: Murakami				
Time	Topic	Speaker		
Session 3	Long lived volatiles			
09:00-09:30	Overview of ground-based Na (and K) observations Moon, Mercury and other objects in Solar system	Killen		
09:30-09:50	Mercury's Na exosphere variability in relation to Sun activity seen by THEMIS solar telescope	Mangano		
09:50-10:10	Na exosphere along the Mercury's orbit	Milillo		
10:10-10:30	A comprehensive analysis of high-resolution sodium and potassium line profile measurements: Setting constraints on the lunar surface bounded exosphere	Kuruppuaratchi		
10:30-11:00	Coffee Break			
11:00-11:20	Modelling of the Na circulation	Leblanc		
11:20-11:40	The exospheric reservoir of alkalis at the Moon: models and validation with measurements	Sarantos		
11:40-12:10	Discussion and book introduction	Chairpersons: Milillo and convenors		
12:10	Lunch and free afternoon	. 1		



Thursday, 23 January 2020				
Chairperson: Milillo				
Time	Topic	Speaker		
Session 4	Extreme volatiles			
09:00-09:30	Ar and He exosphere of Moon	Grava		
09:30-09:50	Diffusion Limited Degassing of H ₂ to the Lunar Exosphere	Tucker		
Session 5	Water groups			
09:50-10:10	Hydration of the lunar surface inferred from LADEE's observations of exospheric water events	Benna		
10:10-10:40	The Putative Water Exosphere of Ceres	Schorghofer		
10:40-11:10	Coffee Break			
Session 6	Loss processes of exosphere			
11:10-11:40	Na tail Observations	Schmidt		
11:40-12:00	Exospheric model for Mercury, Moon and exoplanets	Mura		
12:00-12:20	Photoionization of sodium at Mercury's exosphere	Jasinski		
12:20-12:40	Modelling of Exospheric ionisation and its role for populating Mercury's magnetosphere	Wurz		
12:40-14:00	Lunch			
14:00-14:15	Discussion on exosphere processes	Chairperson: Milillo		
14:15-14:30	Book organization			
14:30-16:00	Book chapter subgroups			
16:00-16:30	Coffee Break			
Chairperson:	Grava (TBC)			
	Solar system evolution. Exosphere as a boundary			
16:30-17:00	The Sun in time and the resulting planetary escape for Mercury and the Moon	Lammer		
17:00-17:20	The exosphere of the early Moon	Scherf		
17:20-17:40	Evaporation of rocky exoplanet close to the star	Ito		
17:40	End of fourth day			



	Friday, 24 January 2020				
Chairperson: Sarantos Time Topic Speaker					
	Future directions for observations	- CP-SILLO			
Session 1	Future space missions				
09:00-09:20	Comprehensive investigation of Mercury's exosphere by BepiColombo	Murakami			
09:20-09:40	In situ measuring of exospheric densities	Livi			
09:40-10:00	Characterization of the lunar exosphere using mass spectrometry technique: Future instrument concepts	Benna			
10:00-10:20	Deep Space Gateway Moon exploration	Dandouras			
10:20-10:40	Asteroids exospheric exploration	Kameda			
10:40-11:10	Coffee Break				
11:10-12:30	Report of subgroup works (about 10 minutes each)				
12:30-14:00	Lunch	_			
14:00-15:00	Discussion final book organisation and deadlines	Chairperson: Sarantos			
15:00	End of Workshop				