Outstanding questions for solar system planetary science and associated key representative space missions

TUESDAY 13 September, 2016		Main conference Room, 1 st floor
08:15-08:45	Registration	ISSI, Hallerstrasse 6, 1 st floor
08:45-09:10	Welcome, Introduction to ISSI and to Europlanet, forum origin and objectives	Rafael Rodrigo, Ari-Matti Hari, Michel Blanc
Session 1	Setting the stage	Chairperson: Michel Blanc
09:10-09:30	I -1. Formation of planetary systems	Willy Benz
09:30-09:50	I – 2. Living with one's star: from solar-terrestrial science to star-planets relationships	Helmut Lammer
09:50-10:10	I – 3. A multi-decadal view of upcoming progress in the detection and characterization of exoplanets and their systems	Heike Rauer
10:10-10:30	I- 4. Habitability and habitable worlds, in the Solar System and beyond	Athena Coustenis
10:30-11:00	Coffee break	
11:00-11:30	Discussion on Session I	
Session 2	Solar System: formation and early evolution	Chairperson: John Zarnecki
11:30-11h50	II – 1. Tracing the messages of the Solar Nebula	Bernard Marty
11:50-12:10	II – 2. Formation and early evolution of the solar system: the big picture	Seth Jacobson
12:10-14:00	Lunch	
14:00-14:20	II – 3. Formation and early evolution: the outer solar system	Michiel Lambrechts
14:20-14:40	II – 3. Formation and early evolution: the inner solar system	Mahesh Anand
14:40-15:10	Discussion on Session II	

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Session 3	Solar System: how does it work?	Chairperson: Karoly Szego
15:10-15:30	Keynote contribution: III – 1. Structure and dynamics of solid bodies and implications for habitability and life: where to look for to make progress?	Nicola Tosi and Tilman Spohn
15:30-16:00	Coffee break	
	Small bodies	
16:00-16:20	III – 2. Asteroids and Martian satellites: where do they come from, how do they work?	Maria Teresa Capria
16:20-16:40	III – 3. Comets, Trojans and KBOs: where do they come from, how do they work?	Michael F. A'Hearn
	Giant planets and their systems	
16:40-17:00	III – 4. Exploring the diversity of giant planets systems	Jean-Pierre Lebreton
17:00-17:20	III – 5. Structure and dynamics of ice and gas giants: how to make progress after Juno?	Scott Bolton
17:20-17:40	III – 6. Icy satellites	David Senske
17:40-18:10	Discussion on Session III (1)	
18:10	Adjourn	
20:00	Forum dinner at the Altes Tramdepot	

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WEDNESDAY 14 September, 2016		Main conference Room, 1 st floor
	Terrestrial planets	Chairperson: Rafael Rodrigo
08:30-08:50	III – 7. Terrestrial planets: internal structure and geodynamics	Véronique Dehant
08:50-09:10	III – 8. Terrestrial planets: surface morphology, geology and formation history	Nicolas Mangold
09:10-09:30	III – 9. Terrestrial planets atmospheres and their evolution	Oleg Korablev
09:30-09:50	III – 10. Sources and losses of water on early terrestrial planets	Feng Tian
09:50-10:10	Discussion on Session III (2)	
10:10-10:40	Coffee break	
	Heliosphere, Solar System Magnetospheres and plasma physics	Chairperson: Norbert Krupp
10:40-11:00	III – 11. The Heliosphere and its interaction with the LIC	Veerle Sterken
11:00-11:50	III – 12. Exploring the diversity of planetary magnetospheres	Emma Bunce
11:50-12:10	III – 13. The solar system as a plasma physics laboratory	Adam Masters
12:10-12:30	Discussion on Session III (3)	
12:30-14:00	Lunch	
Session IV	From Habitable worlds to the search for life.	Chairperson: Ari-Matti Harri
14:00-14:20	IV – 1. Exploring Mars as a potential habitat	Sylvestre Maurice
14:20-14:40	IV – 3. Ocean Worlds Exploration	Christophe Sotin
14:40-15:00	IV – 4. Searching for life, in the solar system and beyond	Frances Westall
15:00-15:30	Discussion on Session IV	

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15:30-16:00	Coffee break
	Wrap-up:
16:00-18:30	 Science and key representative space missions: preliminary summary
	- Suggestions for ISSI-Europlanet workshops
18:30	Adjourn

Thursday 15 September, 2016, morning		Main conference Room, 1 st floor
09:00-12:00	Splinter meeting of the Technology Experts (All forum participants welcome) Technologies and infrastructures needed to implement our set of representative missions: preliminary forum outcome, discussion of next steps and of a work plan	
12:00	End of the forum	