Tuesday November 3rd

Time Zone Europe/Brussels | GMT/UTC +1

09:00→	Welcome Talk Franco Ongaro, ESA-ESTEC director
09:15→	MELiSSA in Belgium Pierre Coquay, BELSPO
09:30→	MELiSSA activities in Switzerland Oliver Botta, Swiss Space Office
09:45→	ASI Life Support Activities Marino Crisconio, ASI
10:00→	MELiSSA state of the art and perspective of ESA Christophe Lasseur, MELiSSA Project
10:30→	Break
10:45→	Introduction to the Human Spaceflight Program in China Gongling Sun, International Space University
11:15→	ECLSS Russian activities Pr Ilyin, IBMP, Moscow
11:45→	Status and Future plan of JAXA microbial monitoring from ISS and beyond I Toru Shimazu, Japan Space Forum
12:15→	The Role of Plants as Food and Life Support for Exploration I Ralph Fritsch & Lucie Poulet, NASA

12:45→

<u>Room 1</u>

<u>Room 2</u>

Edible Biomass Production

Edible	Biomass	Production	

13:30→	PACMAN project: Designing, building and testing the prototype of a Plant Characterization Unit	EBIOS: an approach to build bioregenerative life suppost sytem for terrestrial and planetary application	
	Claudia Quadri, Lorenzo Buccchieri, EnginSoft	Barbara Belvisi, Insterstellar	
14:00 →	P, K, Mg, Ca, Na balances in a closed system combining aeroponic lettuce cultivation supplied with grey water Kamil Janiak, Wroclaw University of Science and Technology	Development status of the nutrient delivery system of PFPU, Precursor of a microgravity Food Production Unit Giorgio Boscheri, Thales Alenia Space	
14:15→	Lunar Nutritional Grower (LuNG): Assessing the viability of a lunar hydroponic system	Microgravity mimetics on the development of multifunctional bioreactors systems for efficient cell growth	
14:30→	Berlin Optimization of a controlled environment food	Department PRIAM: A compact intensified artificial light	
	production unit for space applications Thomas Bartzanas, Agr. University of Athens	photobioreactor adapted to life support for human space exploration Charlene Thobie, Brochier Technologies	
14:45 →	Improved lettuce yield and quality by microbial treatments in vertical farming	Design of a module for cultivation of tuberous plants in space: the PROJECT "PRECURSOR OF FOOD PRODUCTION UNIT" (PFPU)	
	Thijs Van Gerrewey, Ghent University	Roberta Paradiso, University of Naples Federico II	
15:00→	Coffee break		
	Edible Biomass Production	Societal impacts and education	
15:30 →	Plant gas exchange mechanistic modeling taking into account multiple timeframes and gravity levels.	Challenges for a MELiSSA deployment on Earth	
	Lucie Poulet, NASA	Paola Leoni & Antonio Piccirillo, Leoni Corporate	

16:00→	Can microgreens serve as fresh food in space or are space conditions too harsh?	The SEMiLLA Platform as a means to create environments to develop the Circular Economy concept.
	Nele Horemans, SCK-CEN	Clara Plata, SEMiLLA IPStar
16:15→	Microbial fuel cells with peroxide production for blackwater treatment	Mission to Mars inspires food project in the Democratic Republic of the Congo
	Sudeep Popat, Clemson University	Felice Mastroleo, SCK-CEN
16:30 →	Microbes in Hydroponic Crop Cultivation in Space	IGLUNA 2020 - A Space Habitat - MELiSSA POMP Team - Cyanobacteria and higher plant production on recycled urine
	Danny Geelen, Ghent University	Grace Margaret Crain, ETH Zurich Group of Plant
16:45 →	Seed orientation affects seedling development in hardware for experiments in space	Philosopher's journey into MELiSSA
	Giovanna Aronne, University of Naples Federico II, Department of Agricultural Sciences	Vincennes Saint-Denis
17:00→	In-Situ resources bio-utilisation for Life Support Systems (REBUS)	The MELiSSA Foundation and the future of ESA sponsored LSS research via the Pool of MELiSSA PhD (POMP project)
	Stefania De Pascale, Dept. of Agricultural Sciences - University of Naples Federico II	Max Mergeay, MELiSSA Foundation
17:15→	Hydroponic nutrient solution monitoring for crop characterization	Questionning the future through a fiction science graphic novel
	Øyvind Mejdell Jakobsen, CIRIS, NTNU Social Research	Schmitt Didier, ESA
17:30→	Conclusion of the day <i>(5min)</i>	
	Christophe Lasseur, MELiSSA Project	
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