sck cen

60 years of humans in space & 20 years of crewed ISS operations: Why Belgium matters?

12th of April 2021 from 2.15-6.30pm – online event

On 12th of April 2021, the 60th anniversary of Gagarin's 1st orbit around the Earth will be commemorated worldwide. Furthermore, for 20 years straight, humans have been continuously living aboard the International Space Station. This is a major milestone of two decades in which there have always been humans in space.

This event will be an occasion, then, to look both back to a settled past of ESA and Belgian scientific contributions and technological advancements on International Space Station and ahead to a bright future to safely embark on long-duration space voyages to the Moon and Mars.

Programme

14:15	**Welcome**	
Moderator: Sarah Baatout, SCK CEN		
14:20	SCK CEN: a relevant partner in space for longtime to come	**Eric van Walle** SCK CEN director general, BE
14:30	Belgian position in the human space exploration programme	**Thomas Dermine** State Secretary for Science Policy, BE
14:45	The value of exploration	**Josef Aschbacher** ESA director general, FR
15:00	Towards *Terrae Novae*: the future of space exploration in Europe	**Didier Schmitt** Head Strat & Coord, HRE, ESA, NL
15:15	Destination Mars	**Dirk Frimout** Astronaut
15:25	Radiation protection in astronauts	**Sarah Baatout** Head Radiobiology, SCK CEN, BE
15:40	***Musical intermezzo – Between the Stars***	***Daniel Vives-Lynch*** *pianist*
Moderator: Hildegarde Vandenhove, SCK CEN		
15:50	High density electroencephalography in the ISS: a new window on the human brain in weightlessness	**Guy Cheron & Anita Cebolla** ULB, BE
16:05	71% of all ISS cosmonauts reveal human physiological adaptation to microgravity.	**Floris Wuyts** UA, BE
16:20	Life support to the Moon and Mars	**Natalie Leys** Head Microbiology, SCK CEN, BE
16:35	Alteration in autonomic cardiovascular control in astronauts	**André Aubert** KUL, BE

16:50	ESA SciSpacE Human Research activities	**Angelique Van Ombergen** SciSpace team, HRE ESA, NL
17:05	Radiation-induced cardiovascular disease and immune dysfunction : from Earth to space	**Bjorn Baselet** Radiobiology, SCK CEN, BE & Melodi laureate 2020
17:20	Radiation resistance of extremophiles for human space exploration	**Boris Hespeels** UNamur, BE
17:35	***Musical intermezzo - Rise to Mars***	***Daniël Van Quickelberghe*** *opera singer*
Moderator: Angelique Van Ombergen, ESA		
17:40	Alterations of skin in microgravity: lessons from "astro-mice"	**Alain Colige** ULiège, BE
17:50	The human microbiome in space	**Felice Mastroleo** Microbiology, SCK CEN, BE
17:58	ESA Academy's Training and Learning Programme: training opportunities for University students	**Natacha Callens** ESA ESEC, BE
18:05	Mars Society Belgium and Tania, the European astronaut	**Pierre-Emmanuel Paulis** Eurospace Center, Transinne, BE
18:12	Enlightening the big void	**Peter Rakers** Belgian novelist, Author of "2 reply No reply"
18:19	Human space exploration in 60 years: Red Safari	**Jeremy Rabineau** author of Mook Mars **Olivier Weyrich** Publisher
18:25	(RE)Connect, the Emotional Intelligence-garment for space	**Jasna Rokegem** Space suit designer, BE
18:30	**Closure**	