

PROGRAM

10:00-10:15: welcome, intro

Planetary conditions for habitability

10:15-10:30 Véronique Dehant (ROB) Planetary rotation and habitability

10:30-10:45 Agustin Chicarro (ESA) MARS EXPRESS science results and astrobiological implications

10:45-11:00 Frank Pattyn (ULB) Subglacial lakes on Mars: an Antarctic analogue?

11:00-11:15 J Toubreau (UCL) Life in the sub-surface ocean of Europa

11:15-11:30 discussion

Early life habitats and evolution

11:30-11:45 Luc André (Royal Museum Tervueren) Si isotopes in Presolar, Solar and Terrestrial components

11:45-12:00 Philippe Claeys (VUB) Impacts event and evolution of life

12:00-12:15 Jacques Reisse (ULB) On the origin of homochirality of the constituents of living matter

12:15-12:30 Emmanuelle Javaux (ULg) & Craig Marshall Early life evolution, habitats and biosignatures

12:30-13:15 discussion/lunch

Life in extreme environments

13:15-13:30 Elie Verleyen (U Gent), Dominic A. Hodgson, Koen Sabbe & Wim Vyverman :Preservation of biogeochemical and microfossil markers in Antarctic microbial mats'

13:30-13:45 Annick Wilmotte (ULG): Cyanobacterial diversity in extreme environments

13:45-14:00 Max Mergeay (SCKCEN) Terraforming

14:00-14:15 Larissa Hendricks (SCKCEN):Life support system

14:15-14:30 Natalie Leys (SCKCEN) Response of bacteria to space flight / planetary protection

14:30-14:45 Patrick de Boever (SCKCEN) Biosafety in confined environments / simulated microgravity

14:45-15:00 discussion

The future

15:00-15:15 De Saedeller, B., Libert AS, & Lemaitre Anne (FNDP) : Research themes of the "unit of dynamic systems": Exoplanets, planet rotation and dynamic systems applied to biology

15:15-15:30. D. Mawet/P. Riaud (ULG) Observational astrophysics and the search for life around other stars

15:30-15:45 Christian Muller (IASB-BIRA) The EANA, our international scientific union

15:45-16:00 Emmanuelle Javaux & Jean-Pierre Swings (ULG) Status of ExoMars

16:00: discussion