**ExOceans**

**Science Strategy for Space Exploration of the Outer Solar System Icy Moons Oceans**

13 November 2017 – Paris Observatory

*Salle de l’atelier, 77 Av. Denfert-Rochereau, Paris*

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9.00-9.30
Welcome address
Dr. Athena Coustenis, Paris Observatory, ESSC Chair

9.30-10.00
The origin of life on Earth and elsewhere
Prof. Jan de Leeuw, NIOZ (The Netherlands)

10.00-10.30
Life in marine extreme environments: examples from geological record
Dr. Barbara Cavalazzi, University of Bologna (Italy)

10.30-11.00
Simulation experiments: the key for finding evidence of life in the sub-surface exooceans
Dr. Karen Olsson Francis, Open University (UK)

11.30-12.00
Habitability environments across the solar system: An Oceans Worlds Exploration Strategy
Dr. Alexander Hayes, Cornell University (USA)

12.00-12.30
Geodynamics of icy moons
Dr. Gabriel Tobie, University of Nantes (France)

12.30-13.00
Saturn’s moons: Titan and Enceladus
Dr. Christophe Sotin, Jet Propulsion Laboratory (USA)

14.15-14.45
NASA Europa Lander Science Definition Team Report and Mission Concept
Dr. Kevin Hand, Jet Propulsion Laboratory (USA)

14.45-15.05
Characteristics and programmatic feasibility of radioisotope power systems for space exploration: applicability for icy moons and exooceans
Dr. Markus Landgraf, ESA (The Netherlands)

15.05-15.35 Technical advances to explore OCEANS - concepts and case studies from ROBEX
Dr. Franz Wenzhöfer, Dr. Sascha Flögel and Dr. Stefan Sommer, GEOMAR and AWI (Germany)

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