



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

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)

This study is organised by the European Space Sciences Committee of the European Science Foundation (www.essc.esf.org).



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