

Programme

Wednesday 29 October 2008

11.30-14.00 Registration at the ESF-COST desk

13.00-14.00 Lunch

14.30 Conference Opening

John Marks (European Science Foundation, Strasbourg, FR) as ESF representative

John Bartzis (University of West Macedonia, Kozani, GR) as COST representative

Session 1: Origin of Life in a “water” world

Chair: **Arja Kallio** (ESF)

15.00 **Yves Godderis** (Université Paul Sabatier, Toulouse, FR)

Climate, geochemical cycles, and life in the geological past

15.30 **Bernd M. Rode** (University of Innsbruck, AT)

Water and Life - chemical evolution in an aqueous environment

16.00 Coffee break

16.30 **Tanja Zegers** (Utrecht University, NL)

Water and planetary habitability; Earth and Mars

Session 2: Water and life in extreme environments – Part 1

Chair: **Inge Jonckheere** (ESF)

17.00 **Brent Christner** (Louisiana State University, Baton Rouge, US)

Biology and the hydrological cycle: interplay with climate and life in Earth’s frozen reservoirs

17.30 **John A. Baross** (University of Washington, US)

Submarine hydrothermal vents: microbial biofilms, limits of life and early evolution

18.00 **Michail Yakimov** (Institute of Coastal Marine Environment – CNR, Messina, Italy)

Deep-sea hypersaline anoxic basins: chemosynthetic view on ecosystem functioning

18.30-19.00 Open discussion

19.45 Dinner

Thursday 30 October 2008

Session 2: Water and life in extreme environments – Part 2

Chair: Inge Jonckheere (ESF)

- 09.00 **Paul Dando** (University of Wales – Bangor, UK)
Marine life at the interface – fluid flow sites on the seabed
- 09.30 **Günter von Kiedrowski** (Ruhr Universität Bochum, DE)
Towards Systems Chemistry

Session 3: Water and life – changes in the anthropocene – Part 1

Chair: Carine Petit (COST)

- 10.00 **Berrien Moore** (University of New Hampshire, Durham, US)
Complex Systems: finance and climate and the currency
- 10.30 **Federico Fierli** (CNR Bologna, IT)
Atmospheric water vapour in the climate system
- 11.00 Coffee break
- 11.30 **Anny Cazenave** (Centre National d'Etudes Spatiales Toulouse, FR)
Sea level rise : observations, causes and impacts
- 12.00 **Jan Erisman** (Energy Research Centre of the Netherlands, Petten, NL)
Nitrogen and life
- 12.30 **Tom Battin** (University of Vienna, AT)
Freshwater ecosystem research in the anthropocene: an imperative!
- 13.00 Lunch

Session 3: Water and life – changes in the anthropocene – Part 2

Chair: Carine Petit (COST)

- 14.30 **Carol Turley** (Plymouth Marine Laboratory, UK)
Life in a high CO₂ ocean
- 15.00 **Anna Ledin** (Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, Stockholm, SE and Technical University of Denmark, Lyngby, DK)
Xenobiotic organic compounds in the urban water cycle - sources, risks and mitigation actions
- 15.30 Open discussion
- 16.00 Coffee break

16.30-18.30 **Poster session**

19.30 Dinner

Session 4: Future challenges – Part 1

Chair: Bernard Avril (ESF)

21.30 – 22.30 Projection of highlights from the documentary movies “A journey in the History of Water” and “Future of Water”

Friday 31 October 2008

Session 4: Future challenges – Part 2

Chair: Bernard Avril (ESF)

09.00 **Terje Tvedt** (University of Oslo, NO)
A journey in water

09.30 **Jérôme Benveniste** (European Space Agency – ESRIN, Frascati, IT)
Monitoring fresh water storage and fluxes from space

10.00 Coffee break

10.30 **Maite M. Aldaya** (University of Twente, Enschede, NL)
Water accounting: virtual water transfers and water footprints

11.00 **Peter van Oevelen** (European Space Agency, Noordwijk, NL)
The social-economical impacts of adaptation and mitigation to changing extreme events

11.30 Open discussion

12.15 **Conclusion**
Reinhart Ceulemans (University of Antwerpen, Wilrijk, BE), ESF/LESC rapporteur
Yosef Steinberger (Bar Ilan University, Ramat Gan , IL), COST rapporteur

13.00 Lunch and departure

All posters will be on display during the whole duration of the conference