

Water in the Universe: From Clouds to Oceans

The conference will cover all astrophysical aspects of water, including the water trail, from the formation of water in molecular clouds to water on planetary bodies, including in our own solar system; water as a probe of physics and chemistry; and water in nearby to water in extra-galactic and high redshift sources.

ESA/ESTEC, Noordwijk, 12-15 April 2016

<http://www.congrexprojects.com/2016-events/16a06>

First Announcement

12 June 2015

Introduction and Aims

Water consists up of the two most common reactive elements in the Universe. Does it mean it exists everywhere in the Universe? How and where is it formed and destroyed? What roles does it play under different circumstances? Where did Earth's water form and how did it arrive here?

Although atmospheric water vapour constitutes only $\sim 0.001\%$ of all 'surface' water on Earth, which is but $\sim 0.02\%$ the total mass of the Earth, it makes ground based astronomical observations of water exceedingly difficult. Space missions have played a key role, and today water has been observed in gaseous and solid form in various environments under a range of physical conditions throughout our solar system, in disks around young stars, in proto-stars, in the interstellar medium in star-forming clouds in our galaxy, and in external galaxies including also in high-redshift galaxies in the early universe.

This meeting will cover all astrophysical aspects of water. Topics are meant to be wide in scope, and can include but need not be limited to:

- Formation and destruction of water and its chemistry: theory, laboratory work, and models.
- Water excitation and its relation to other ISM tracers.
- Water in star formation.
- Water in disks and planet formation.
- Water in the solar system and exo-solar systems.
- Extra-galactic and high-redshift water.

The objective of the meeting is to bring together astronomers interested in all astrophysical aspects of water, from the solar system to extra-galactic high-z conditions. The meeting aims to facilitate cross-fertilization between researchers with different observational, experimental, and theoretical backgrounds.

Welcome!

Meeting Format

The meeting will feature invited presentations, and contributed oral and poster presentations will be solicited from the community in the Second Announcement & Call for Papers.

A single plenary session is foreseen for the meeting in order to maximise interaction. There is space for posters close to the lecture hall, ample time will be reserved for extended coffee breaks and poster viewing, and a conference dinner will take place.

Calendar of Events

Pre-Announcement	17 December 2014
First Announcement	12 June 2015
Second Announcement & Call for Papers	24 September 2015
Registration begins	24 September 2015
Abstract submission deadline	11 December 2015
Notification of acceptance	29 January 2016
Preliminary science programme	29 January 2016
Early registration fee ends	5 February 2016
Registration deadline for presenters (oral & poster)	19 February 2016
Final science programme	26 February 2016
Registration ends	8 April 2016
Symposium dates	12-15 April 2016

Venue

The symposium will be held on 12-15 April 2016. The venue will be the ESTEC Conference Centre, Noordwijk, The Netherlands. The maximum capacity of the venue is 250 participants.

The European Space Research and Technology Centre (ESTEC) of the European Space Agency is located in Noordwijk, The Netherlands, a map showing the location and travel directions can be found at http://www.esa.int/About_Us/ESTEC/How_to_get_to_ESTEC

Scientific Organising Committee (SOC)

The SOC consists of:

Yuri Aikawa, University of Tsukuba, JP
Ted Bergin, University of Michigan, USA
Cecilia Ceccarelli, University of Grenoble, F
Ewine van Dishoeck, Leiden Observatory, NL
Yu Gao, Purple Mountain Observatory, Nanjing, CN
Paul Hartogh, MPS, Göttingen, D
Darek Lis, LERMA, Paris, F
Göran Pilbratt, ESA/ESTEC, Noordwijk, NL
Axel Weiss, MPIfR, Bonn, D

Local Organising Committee (LOC)

The LOC consists of:

Göran Pilbratt
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