

www.solas2009.confmanager.com

SOLAS Open Science Conference 16-19 November 2009 Barcelona, Spain

Second Announcement



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ABOUT SOLAS

The Surface Ocean - Lower Atmosphere Study (SOLAS) Project is an international initiative established in order to

“achieve quantitative understanding of the key biogeochemical-physical interactions and feedbacks between the ocean and atmosphere, and of how this coupled system affects and is affected by climate and environmental change.”

The disciplinary scope of the programme is very broad, not only linking chemical, physical and biological oceanography with atmospheric chemistry and physics, but also involving polar sciences, palaeo-studies and remote sensing.

SOLAS research covers three foci:

Focus 1: Biogeochemical interactions and feedbacks between ocean and atmosphere

Focus 2: Exchange processes at the air-sea interface and the role of transport and transformation in the atmospheric and oceanic boundary layers

Focus 3: Air-sea flux of CO₂ and other long-lived radiatively-active gases



Parc Guell, Barcelona



Parc Guell, Barcelona

REGISTRATION



Early bird registration closes: 15 September 2009

	Early Registration	Late Registration
Scientist	425 USD	525 USD
Student	275 USD	375 USD
Scientist from a developing country	275 USD	375 USD
Student from a developing country	135 USD	235 USD
Accompanying person	125 USD	125 USD

Participant registration fees include:

- Admittance to plenary, discussion and poster sessions
- Coffee breaks
- Lunch on the 16 November
- Ice breaker at CosmoCaixa (15 November)
- Conference material
- Conference banquet (18 November)
- CosmoCaixa museum access for the duration of the conference

DEADLINES

Poster abstracts:

~~31 July 2009~~ **Extended to 31 August**

Discussion session proposals:

~~31 July 2009~~ **Extended to 31 August**

Early registration closes:

15 September 2009

Hotel booking:

1 October 2009



Las Ramblas, Barcelona

PROGRAMME

The SOLAS OSC 2009 will be organized into:

PLENARY TALKS divided into the eight thematic sessions shown below, each comprising a keynote talk and several shorter talks by invited speakers (see page 5).

YOUR CONTRIBUTION:



Parallel Discussion Sessions, which will provide an informal setting where 'hot' topics will be discussed

Poster Sessions, which will each focus on one of the three SOLAS foci.

	16 Nov 09	17 Nov 09	18 Nov 09	19 Nov 09
Morning plenary talks	Long-lived gases and ocean acidification	Surface ocean lower atmosphere interactions in the past	Advanced techniques for SOLAS	Nutrient limitation and atmospheric deposition
	Coffee break			
	Advances in gas exchange parameterization	Aerosols over the ocean	Ozone and halogens over the ocean	Genomic and genetic studies of ocean-atmosphere exchanges
Afternoon sessions	Lunch			
	Parallel discussion sessions			
	Coffee break			
	Poster session: SOLAS Focus 1	Poster session: SOLAS Focus 2	Poster session: SOLAS Focus 3	
		Public lecture	Conference Banquet	

PLENARY TALK SESSIONS

Long-lived gases and ocean acidification

Ulf Riebesell: Ocean acidification and its potential effects on air/sea exchange of climate relevant gases

Laura Farias: Tracking the mechanisms of production and consumption of biogases in coastal upwelling ecosystems

Urumu Tsunogai: Tracing nitrate and nitrous oxide in surface ocean using stable isotopes

Advances in gas exchange parameterisation

Rik Wanninkhof: Quantifying air-sea transfer velocities - do we need more than wind speed?

Christa Marandino: Measuring open ocean DMS fluxes: a comparison and synthesis of air-sea gas transfer velocity experiments

Brian Ward: Toward quantification of upper ocean and lower atmosphere processes for improved determination of air-sea gas fluxes

Surface Ocean Lower Atmosphere interactions of the past

Carles Pelejero: Acidification and carbon cycling in the oceans: clues from the past

Dani Schmidt: Quantifying ocean acidification during the Paleocene Eocene thermal maximum

Rebecca Robinson: Lessons from the last ice age: high latitude controls on tropical ocean biogeochemistry

Eric Galbraith: Modelling the impacts of past climate changes on global nutrient distributions

Aerosols over the ocean

Mitsuo Uematsu: Distribution and chemical characterisation of marine aerosols over the Pacific ocean

Trish Quinn: Origins and composition of aerosol in the marine atmosphere

Olga Mayol-Barcero: Carbonaceous aerosols over the Caribbean region

Ashwini Kumar: Mineral and anthropogenic aerosols over the Arabian Sea and the Bay of Bengal

Advanced techniques for SOLAS

Marcel Kuypers: Quantifying microbial activity in the ocean: from single cells to global fluxes

Oscar Schofield: Dawn in the age of robotic oceanography: building an autonomous distributed network for the world's oceans

Mick Follows: Modelling marine microbes: physiology, community structure and biogeochemical function

Peter Liss: SOLAS and the Spectre of Geo-Engineering

Ozone and halogens over the ocean

John Plane: Halogen chemistry in the marine boundary layer

Alexandra Steffen: Understanding atmospheric mercury in the world of ozone and halogens over the Arctic Ocean

Alfonso Saiz-Lopez: Possible climatic impacts of reactive halogens in the tropical marine atmosphere

Nutrient limitation and atmospheric deposition

Cecile Guieu: Impact of atmospheric inputs on oligotrophic ecosystems

Gong Gwo-Ching: Effect of Asian dust storm on upper ocean biogeochemistry in the nutrient limited Northwest Pacific Ocean

Alex Baker: Field observations of nutrient deposition to the Atlantic Ocean

Jordi Dachs: Atmosphere-ocean exchanges of organic matter: characterization, fluxes and significance

Genomics and genetic studies of ocean-atmosphere exchanges

Mary Ann Moran: Regulation of bacterial DMSP degradation: a functional genomic approach

Rebecca Langlois: tbc

Thomas Mock: Whole-genome expression profiling of the marine diatom *Thalassiosira pseudonana* to identify the molecular underpinnings of nutrient limited growth

DISCUSSION SESSIONS

Parallel discussion sessions are intended to provide an informal opportunity for round table discussions of hot topics, with the aim of fostering collaborations and furthering research.

There will be 15 discussion sessions – 7 on topics chosen by the community

Submit your proposal (150 words) for a discussion session on the conference website.

Don't forget to submit your abstracts before you go on summer holiday 

Submission 
deadline:
31 August

POSTER SESSIONS

Come to Barcelona and present your SOLAS science during our three focus based poster sessions

In addition all posters will be displayed for the duration of the conference for maximum publicity

Submit your 150 word abstract on the conference website

ACCOMMODATION

We have made block reservations with Hoteles Catalonia and the Martí-Codolar Seminario.

All rates are in EUROS per room per night and include VAT (IVA 7%) and breakfast

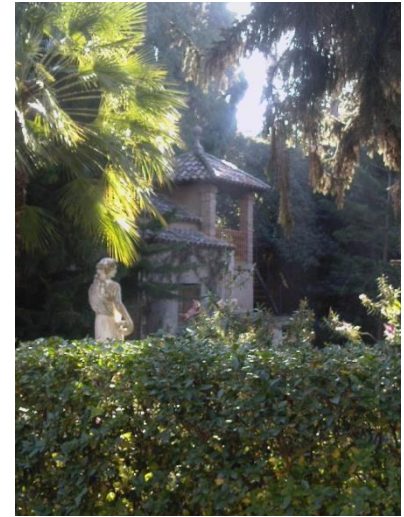
Hoteles Catalonia

www.hoteles-catalonia.com/en/home.jsp

	Single	Double
Hotel Catalonia Castellnou	66	85
Hotel Catalonia Mikado	70	80
Hotel Catalonia Putxet	80	90
Hotel Catalonia Suite	90	100
Gran Hotel Catalonia	99	114

Martí-Codolar Seminario

Single	Double	Triple
31.60	50.90	76.35



Martí-Codolar Seminario

CONFERENCE VENUE

The SOLAS Open Science Conference will be held at CosmoCaixa, Barcelona's pioneering new science museum.



CosmoCaixa offers visitors a range of interactive exhibits, including a Planetarium and a Geological Wall. The highlight for many visitors is the fascinating Flooded Forest, an ambitious recreation of 1000 sq m of Amazonian rainforest, complete with piranhas



Flooded Forest, CosmoCaixa