



GREEN  Electra



# Ionic and protonic conducting ceramic membranes for green energy applications

Ciudad Politécnica de la Innovación  
Universitat Politècnica de València

Auditorium. Blue Cube. Building 8B  
Access "M" – Floor 3, Camino de Vera, s / n,  
46022 Valencia, Spain.

### More information

School@itq.upv.es  
<http://itqschool.blogs.upv.es>



## SUMMER SCHOOL

SEPTEMBER 23<sup>rd</sup>-25<sup>th</sup> 2015



Valencia, Spain  
Universidad Politécnica de Valencia

# Ionic and protonic conducting ceramic membranes for green energy applications

### Confirmed lecturers

Truls Norby (Univ. Oslo)  
Henny Bouwmeester (Univ. Twente)  
Nikolaos Bonanos (DTU)  
Grover Coors (Coorstec)  
Olivier Guillon (FZ-Jülich)  
Ralf Kriegel (Fraunhofer IKTS)  
José Santiso (CSIC)  
Marie-Laure Fontaine (SINTEF)  
Tor S. Bjørheim (Univ. Oslo)  
Bert de Haart (FZ-Jülich)  
Mathieu Marrony (EIFER)  
Ragnar Strandbakke (Univ. Oslo)  
Jesús Canales (Univ. Castilla-La Mancha)  
Ian Metcalfe (Newcastle Univ.)  
Agustín Martínez (CSIC-UPV)  
Christian Kjølseth (Protia)  
Joe Da Costa (Univ. Queensland)  
Michael Schroeder (RWTH Aachen Univ.)  
Grover Coors (CoorsTek)  
Falk Schulze-Küppers (FZ-Jülich)

### Recommended Accommodation

GALILEO GALILEI Residence Hall  
<http://www.galileogalilei.com>  
Av. Los Naranjos s/h, 46022 Valencia  
Ph: +34 96 335 20 00 Fax: +34 96 355 12 13

NH Las Ciencias Hotel  
[www.nh-hotels.com](http://www.nh-hotels.com)  
City of Arts and Sciences Area.  
Instituto Obrero de Valencia, 26-28.  
46013 Valencia - Spain

### Organizing Committee

Cecilia Solís/Clara Fornés  
Sonia Escolástico/María Fabuel/Laura Navarrete  
Raquel Zanón/Julio García  
Vicente Vert/Cyril Gaudillere  
Fidel Toldrà/ David Catalán  
Nuria Bausá/Sara Escorihuela

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### Summer School organized

In the frame of ELECTRA, GREEN-CC and HETMOC

### Chairs – Scientific Committee

Prof. Jose M. Serra, CSIC-UPV  
Dr. Wilhelm A. Meulenber, FZ-Jülich  
Prof. Truls Norby Oslo University  
Prof. Peter Vang Hendriksen, DTU

### Session

A: Fundamentals of ionic conducting materials  
B: Oxygen transport membranes  
C: Protonic conducting materials  
D: Membrane manufacturing techniques  
E: Scaling up manufacturing  
F: Theoretical modelling and simulation  
G: Electrochemistry fundamentals  
H: Characterisation  
I: Catalytic membrane reactors  
J: Industrial applications

### Registration

Early-Bird Deadline: 31/07/15  
Fees students: 250 € Non Students: 300 €  
Regular Deadline: 10/09/15  
Fees students: 300 € Non Students: 375 €  
Abstract submission  
Deadline 28/08/15

The European Membrane Society will offer some travel grants for students.

Time	Sept. 23rd	Sept. 24th	Sept. 25th
9:00-11:00	Session (2)	Session (3)	Session (3)
11:00-11:40	Coffee break	Coffee break	Coffee break
11:40-13:40	Session (3)	Session (3)	Session (3)
13:40 – 15:20	Lunch	Lunch	Lunch
15:20 – 16:40	Session (2)	Session (2)	Session (2)
16:40 – 17:10	Student Poster Session	Coffee break	Coffee break
17:10 – 18:20		Session (2)	Students on the beach
18:20 – 19:00			
20:30		Banquet	Dinner

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