

INTERNATIONAL WORKSHOP

RAPID PROTOTYPING FOR SMARTGRIDS

Venue: IMDEA Energy Institute
Parque Tecnológico de Móstoles
Avda. Ramón de la Sagra 3
28935 Móstoles, Madrid, Spain

Date: April 26th, 2016

Description: Rapid prototyping technology is used in power systems to facilitate development of control algorithms and create Power-Hardware-In-the-Loop (PHIL) test environment. The Workshop will join experts from research centers, universities and companies and address the state of the art in the rapid prototyping technologies. PHIL installation at IMDEA Energy Institute will be used for experimental demonstration of principal concepts. The event will be of interest for companies as well as universities and research centers developing and testing renewable and storage integration, DFIGs and motor control and programmable supplies, loads and sources.

Language: English

Registration:

Fill in the on-line registration form at
<https://tripphase.com/company/events/imdea-2016/>

Registration fee: €70

Early-bird registration: €50; Student discount: €20, deadline: 8th April

PROGRAMME

08:45 – 09:00 h. Registration

Welcome Address

09:00 – 09:10 h. Prof. David Serrano, **Director, IMDEA Energy Institute**
Dr. Ir. Jeroen Van den Keybus, **CTO Triphase**

Keynote Speaker

09:10 – 10:10 h. **Opportunities to rethink the grid**
Prof. Malcolm McCulloch, University of Oxford, UK

Workshop, demo and visit

10:10 – 10:40 h. **Virtual circuit design method for half-bridge converters with higher order output filters**
Bruno Hendrickx, Triphase, Belgium

10:40 – 11:10 h. **Microgrid and grid-support applications. What's happening in the field?**
Pieter Coppens, Triphase, Belgium

11:10 – 11:30 h. Coffee Break

11:30 – 11:50h **OPAL-RT real-time simulators in combination with Triphase**
Yoann Mougnot, OPAL-RT, Spain

11:50 – 12:20 h. **Rapid prototyping experience at IMDEA Energy Institute**
Dr. Milan Prodanovic, IMDEA Energy Institute, Spain

12:20 – 13:00 h. **Demonstration and laboratory visit**
Dr. Milan Prodanovic and
Dr. Jorn Klaas Gruber IMDEA Energy Institute, Spain
(2 groups)

Closing Session and Lunch

13:00 – 13:30 h. **Close of Workshop**

13:30 – 15:00 h. **Networking event and buffet lunch**