



Batteries

MONDAY 2016-07-11

13:00-14:00 Registration
 14:00-14:15 **WELCOME to ISS2016**

14:15-16:00 **TBD**
 -----16:00-16:30 Coffee Break-----
 16:30-18:15 **F. Zanellini, Smart grid and microgrids: the Italian technical and regulatory framework and real cases**
 18:45 Palazzo Mezzabarba : Welcome from the Mayor of Pavia and tour of the city with the volunteers of Touring Club

TUESDAY 2016-07-12

8:30-9:00 Registration

9:00-10:45 **P. Zanchetta, Grid connected converters**
 -----10:45-11:15 Coffee Break-----
 11:15-13:00 **P. Zanchetta, Grid connected converters (part 2)**
 -----13:00-14:15 Lunch Break-----
 14:15-16:00 **M. I. Valla, The role of converters in new electrical grids**
 -----16:00-16:30 Coffee Break-----
 16:30-18:30 Working groups

WEDNESDAY 2016-07-13

8:30-9:00 Registration

9:00-10:45 **M. Liserre, Integration of renewable energy sources for hybrid microgrids**
 -----10:45-11:15 Coffee Break-----
 11:15-13:00 **G. Spagnuolo, Control and diagnosis of photovoltaic systems**
 -----13:00-14:15 Lunch Break-----
 14:15-16:00 **TBD**
 -----16:00-16:30 Coffee Break-----
 16:30-18:30 Working groups
 20:30 Banquet in the city center

Registration deadline: 15 June 2016
Regular fee: € 210
IEEE student member fee: € 200
 Free accommodation for 13 selected PhD students.

THURSDAY 2016-07-14

8:30-9:00 Registration

9:00-10:45 **J. Guerrero, New technologies and future challenges on microgrid research**
 -----10:45-11:15 Coffee Break-----
 11:15-13:00 **A. Monti, Hybrid AC/DC microgrids: A bridge to future energy distribution systems**
 -----13:00-14:15 Lunch Break-----
 14:15-16:00 **F. Granelli, Integration of renewable sources within the smart grid**
 -----16:00-16:30 Coffee Break-----
 16:30-18:30 Working groups

FRIDAY 2016-07-15

8:00 Departure from Pavia to Savona by bus
 10:30 Arrival to Savona's campus microgrid infrastructure, courtesy of University of Savona (**F. Delfino**) and Siemens (**F. Zanellini**)
 -----13:00-14:00 Lunch Break-----
 14:15 Departure from Savona to Pavia (by bus arrival by 17:00)

Registration available on the website.
www.labenunipv.wordpress.com/3ecs-seminars



RATIONALE

The topics of the course focus on Hybrid Microgrids, energy systems for powering small to medium power consumers in electric islands or connected to the grid. Such systems are important not only for developing countries looking for higher level of electrification, but also for the industrialized countries as engaged in the definition of future smart energy systems, powered by distributed sources.

The course is addressed not only to doctoral students, but also to all researchers interested of components, systems and controls for microgrids.

Presentations by renowned experts will be complemented by works in groups and a visit to the Campus Microgrid Infrastructure in Savona.

For 13 selected PhD students, accommodation at the guesthouse of palazzo Vistarino will be granted for free.

Scientific committee:

- Norma Anglani
- Paolo Di Barba
- Lorenzo Favalli
- Giancarlo Ferrari Trecate
- Pericle Zanchetta

Contacts:

Norma Anglani, Project Leader
Email: norma.anglani@unipv.it
Skype: anglanin

Secretariat:

DIII, via Ferrata 5, 27100 Pavia
Tel: +39 0382 985201
Email: mariangela.rizzi@unipv.it

International Summer School on Hybrid Microgrids (2016)

www.labenunipv.wordpress.com/3ecs-seminars

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Palazzo Vistarino

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