

### 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----

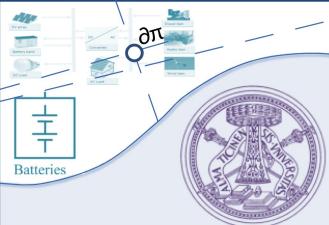
11:15-13:00 *P. Zanchetta*, Grid connected converters (part 2)

----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 challengies 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

Pavia, July 11 to 15, 2016
Palazzo Vistarino

Funded by





University of Pavia

Supported by IEEE Student Branch Pavia, Cooperative sponsorship of



**IEEE Italy Section and CMAEL** 

