

Registration (Fax Reply)

To: ECPE e.V.
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Register before **7 April 2010**

Participation fee:

- €530,- *
 - €395,- * for university members
- The fee includes dinner, lunch, coffee/soft drinks and a CD with the seminar presentations. A printed version of the seminar handouts is available on request (€42,- *).
- €120,- * for students (shortened seminar package)

With the confirmation of seminar registration you will receive the invoice. (* plus 19 % VAT)
In case of cancellation after 7 April 2010 or non-attendance 50 % of the participation fee are payable.

Three participants from each ECPE member company free of charge. Allocation in sequence of registration.

Sender:

title, given name, name

company, department

full address

phone, fax

e-mail

date, signature

Organizational information

Organizer: ECPE e.V.
90443 Nuremberg, Germany
www.ecpe.org

Chairs of seminar: Prof. Dr. ir. Rik De Doncker
RWTH Aachen University
Dr. Peter Lürkens
Philips Research

Organization: Ingrid Bollens, ECPE e.V.
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ingrid.bollens@ecpe.org

Place of seminar: Super C RWTH Aachen
Templergraben 57
52062 Aachen, Germany



Further information (hotel list and maps) will be provided after registration.

Announcement



**ECPE European Center for
Power Electronics e.V.**

ECPE Workshop

Power Electronics for Energy Efficient Buildings, Lighting and Home Appliances

**15 – 16 April 2010
Super C RWTH Aachen
Aachen, Germany**

in cooperation with

**RWTH AACHEN
UNIVERSITY**


E.ON Energy Research Center

PHILIPS
sense and simplicity


**EUROPEAN
POWER
ELECTRONICS
AND
DRIVES**

Introduction

ECPE Workshop Power Electronics for Energy Efficient Buildings, Lighting and Home Appliances

15 – 16 April 2010
Aachen, Germany

Following the ECPE Workshop 'MegaWatt Power Electronics and Smart Grids' in March 2009, which was focused on the centralised power generation and transmission side of the smart grid, this workshop will focus on the efficient energy use in buildings, smart homes, lighting and home appliances. Key topics are smart metering for demand side management, as well as the integration of distributed (local) power generation using Building Integrated Photovoltaics (BIPV) and Combined Heat and Power (CHP). Intelligent energy management for buildings and homes will be necessary to control and monitor the heating, ventilating, air conditioning (HVAC) and lighting systems. New concepts (e.g. DC grids) for an efficient infrastructure in cities and buildings/homes will be presented and discussed.

After presenting the system-level view including the part of Information and Communication Technologies (ICT) the role of Power Electronics in the different areas will be highlighted.

Renowned experts from industry and academia are invited to give an overview of latest research results and technologies in the field discussing research initiatives and visions of future efficient and sustainable energy supply using smart grids.

The workshop is organized by Prof. Dr. R. De Doncker (RWTH Aachen, E.ON ERC) and Dr. P. Luerkens (Philips), supported by J. Koszescha (ECPE). All presentations and discussions will be in English.

List of Topics

Thursday, 15 April 2010

9:00 **Start of Registration**
9:30 **Opening, Welcome Address**

Introduction

- The Role of Power Electronics in Future Distribution Networks

Intelligent Building

- Energy Management
- Lighting
- Monitoring
- Efficient Building Infrastructure

Intelligent Homes

- Smart Appliances
- Home Energy Management and Monitoring

Panel Discussion

18:00 End of 1st Day
19:30 Joint Dinner

List of Topics

Friday, 16 April 2010

9:00 **Start of 2nd Day**

Distributed Energy Generation and Storage

- Building Integrated Photovoltaics (BIPV)
- Combined Heat and Power (CHP)
- Local Storage, Vehicle to Grid (V2G)

Distribution Network Level

- Smart Metering
- Power Electronic Components in the Distribution Grid

15:15 **Wrap up, Final discussion**

16:00 Optional lab tour (1 hour) at
RWTH Aachen,
E.ON Energy Research Center