

Registration (Fax Reply)

To: ECPE e.V.
Att.: Ingrid Bollens, Ingrid.bollens@ecpe.org
Please **e-mail** a scanned copy of the completed form or
send a fax to: +49 (0)911 / 81 02 88 – 28

Register before **28 September 2011**

Participation fee:

- € 480,- * for industry
- € 380,- * for universities/institutes
- € 150,- * for students/Ph.D.

The fee includes dinner, lunch, coffee/soft drinks and hand-outs.

With the confirmation of registration you will receive the invoice (*plus VAT). 50 % discount for ECPE Member Companies.

In case of cancellation after 28 September 2011 or non-attendance 50 % of the participation fee are payable.

The number of participants is limited to 35 attendees.

Sender:

Title, given name, name

Company, department

Full address

Phone, fax

E-mail

Date, signature

Organisational information

Organiser ECPE e.V.
90443 Nuremberg, Germany
www.ecpe.org

Chairmen: Dr. Eckart Hoene,
Fraunhofer IZM (D)
Prof. Dr. Jean-Luc Schanen,
INPG-LEG-ENSIEG - G2ELab (F)

Organisation Ingrid Bollens, ECPE e.V.
+49 (0)911 / 81 02 88 – 10
ingrid.bollens@ecpe.org

Venue Hotel MutterHaus
Geschwister-Aufricht-Strasse 1
40489 Dusseldorf, Germany



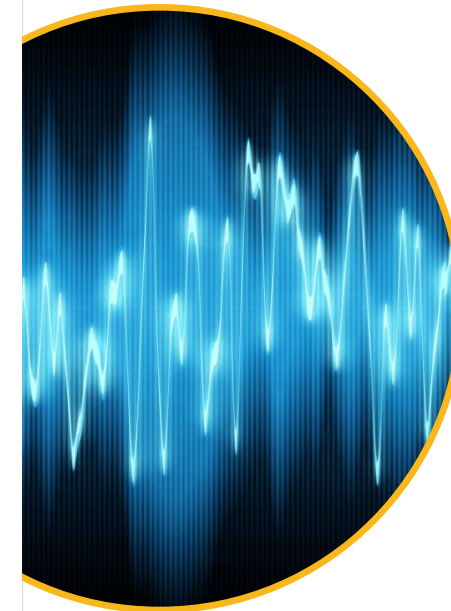
Further information (hotel list and maps) will be provided after registration.



ECPE Tutorial

EMC in Power Electronics

5 – 6 October 2011
Hotel MutterHaus
Dusseldorf, Germany



ECPE Tutorial

EMC in Power Electronics

5 – 6 October 2011
Dusseldorf, Germany

Advantages in semiconductor technology drive power electronics to higher efficiencies and compact systems designs. This progress comes along with increasing effort to comply with EMC requirements. Integration as a response to the market demands intensifies the challenges. With dense placement electromagnetic coupling between components raises influence on system behavior. The design becomes more complex and leads to significantly higher development costs.

The EMC in Power Electronics tutorial is a response to the increasing importance of EMC. It provides an overview on EMC phenomena and introduces methodologies to handle EMC questions. The tutorial is a supplement to the EMC seminar and intended for the training of young engineers and engineers from neighboring disciplines.

Course instructors of the EMC tutorial are

- Dr. Eckart Hoene, Fraunhofer IZM, Germany
- Prof. Dr. Jean-Luc Schanen, Grenoble Institute of Technology (F)
- Fabian Beck, Schaffner EMV AG, Switzerland
- Lex de Rijck, Philips Research, Netherlands

All presentations and discussions will be in English

Programme

Wednesday, 5 October 2011

- 9:30 Start of Registration**
- 10:00 Welcome, Introduction**
T. Harder, ECPE e.V.
- 10:15 Introduction**
Warming up with examples
E. Hoene
- 10:45 Power Electronics as High Frequency Technology**
L. de Rijck
- 11:15 EMC Fundamentals**
J.-L. Schanen
- 11:45 Interference Sources and Mechanisms**
J.-L. Schanen

12:15 Lunch

- 13:15 Handling Interference: Filtering or Shielding**
E. Hoene
- 14:00 Interference Simulation**
J.-L. Schanen

14:45 Coffee Break

- 15:15 Filter Components and their Properties**
J.-L. Schanen
- 16:00 Practical EMI Solutions**
F. Beck
- 16:45 Summary of 1st day**
- 17:00 End of 1st Day**

19:30 Dinner

Programme

Thursday, 6 October 2011

- 09:00 Open questions from 1st day**
- 09:15 Filtering of Common Mode Interference**
E. Hoene
- 10:00 EMC-Design for Drive Systems**
E. Hoene

10:30 Coffee Break

- 11:00 Return Currents**
L. de Rijck
- 11:30 Design Rules for PCBs**
E. Hoene
- 12:00 Electric/Hybrid Cars**
E. Hoene

12:30 Lunch

- 13:30 Using Stray Elements for Reducing EMC Issues**
J.-L. Schanen
- 14:15 Design Methods for Passive Filters**
E. Hoene
- 14:45 Wrap up, Final discussion**
- 15:00 End of Workshop**