Registration (Fax Reply)

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

Register before 16 February 2011

Participation fee:

○ € 530,- * for industry
 ○ € 395,- * for universities/institutes
 ○ € 120,- * for students (shortened workshop package)

The fee includes dinner, lunch, coffee/soft drinks and a CD with the workshop presentations. A printed version of the workshop handout is available on request ($\in 42,-^*$).

With the confirmation of registration you will receive the invoice (*plus VAT). In case of cancellation after 16 February 2011 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	_
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Phone, fax	-
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E-mail	

Organ	isational	l information	
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Organiser	ECPE e.V. 90443 Nuremberg, Germany www.ecpe.org
Chairman	Dr. Eckart Hoene Fraunhofer IZM DiplPhys. Thomas Harder ECPE e.V.
Organisation	Ingrid Bollens, ECPE e.V. +49 (0)911 / 81 02 88 – 10 ingrid.bollens@ecpe.org
Workshop venue	Sorat Hotel Ambassador Bayreuther Str. 42-43, 10787 Berlin, Germany

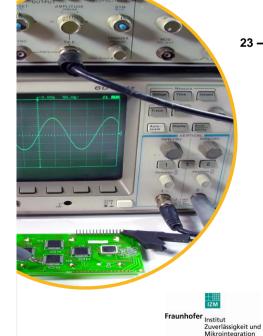


Further information (hotel list and maps) will be provided after registration.



ECPE Workshop

Parasitic Effects in Power Electronics



23 – 24 February 2011 Sorat Hotel Ambassador Berlin, Germany

in cooperation with



Date, signature

ECPE Workshop

Parasitic Effects in Power Electronics

23 – 24 February 2011 Berlin, Germany

Parasitic effects are often the reason of unexpected behaviour of power electronic circuits, for example for higher losses, ringing effects and EMC problems. Handling them is cumbersome, as the location of parasitic capacities or inductances is not obvious. This seminar gives an overview about second and third order phenomena, mostly not documented in data sheets and seldom mentioned in textbooks. Solutions and prediction methods are discussed. Besides of the speakers the audience is invited to contribute own experience to complete the scope.

The workshop is chaired by Dr. E. Hoene (Fraunhofer IZM) and T. Harder (ECPE). All presentations and discussions will be in English.

Programme

Wednesday, 23 February 2011

- 10:00 Start of Registration
- 10:40 Welcome, Opening E. Hoene, Fraunhofer IZM T. Harder, ECPE e.V.
- 11:00 Introduction: Overview on Parasitic Effects E. Hoene, Fraunhofer IZM

12:00 Lunch

- 13:00 Power Circuit Design for Clean Switching and its Potential for Power Semiconductors R. Bayerer, Infineon Technologies
- 14:00 Module Design and Paralleling Chips A. Wintrich, Semikron

14:45 Coffee Break

- 15:15 Power Module with Reduced Radiated Emissions A. Domurat-Linde, Fraunhofer IZM
- **16:00** Using Stray Elements to Reduce EMI J.-L. Schanen, Grenoble Inst. of Techn. (G2ELab)
- 16:45 PEEC-Based Modelling of EMI Filters including Parasitics and Geometrical Arrangement of Filter Elements
 - I. Kovacevic, T. Friedli, J.W. Kolar; ETH Zurich
- 17:15 End of 1st day

19:30 Dinner

Programme

Thursday, 24 February 2011

9:00 Open questions from 1st day
9:15 Overview of Parasitic Inductivities P. Mourick
10:00 Overview of Parasitic Oscillations P. Mourick

10:45 Coffee Break

- 11:15 Parasitic Oscillations in a Flyback Converter S. Zeltner, Fraunhofer IISB
- 11:45 Magnetic Saturation of High Power Medium Frequency Transformers due to Semiconductor On-State Voltage Drop and Switching Time Tolerances <u>G. Ortiz</u>, J. Muehlethaler, J.W. Kolar, ETH Zurich

12:15 Lunch

- 13:30 Parasitic Capacities of Inductors S. Weber, Fuss-EMV
- 14:00 Optimization of DC-link Capacitors W. Grimm, Epcos AG
- 14:30 Discussion Suggestion: Do we need Evaluation Boards for Switching Cells?
- 15:30 End of Workshop