Registration (Fax Reply)

To: ECPE e.V. Att.: Ingrid Bollens

Fax: +49 (0)911 / 81 02 88 - 28

Register before 27 August 2007

Participation fee:

^{..} €480,-*

... €380,-* for university members The fee includes dinner, lunch, coffee/soft drinks and seminar handouts.

... €120,-* for students (shortened seminar package)

With the confirmation of seminar registration you will receive the invoice. (* plus 25 % VAT) In case of cancellation after 27 August 2007 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

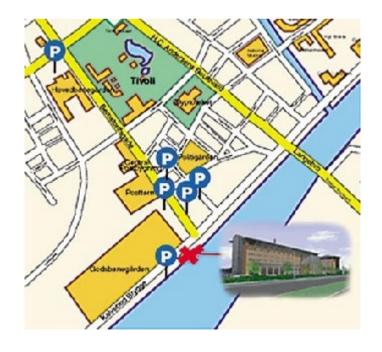
full address

phone, fax

e-mail

Organisational information

Organiser:ECPE e.V.
90443 Nürnberg, Germany
www.ecpe.orgChair of seminar:Prof. A. Lindemann, Otto-von-
Guericke-Universität Magdeburg
Thomas Harder, ECPE e.V.Organisation:Ingrid Bollens, ECPE e.V.
+49 (0)911 / 81 02 88 – 10
ingrid.bollens@ecpe.orgPlace of seminar:IDA Conference Centre
Ingeniørhuset,
Kalvebod Brygge 31-33
1780 Copenhagen V, Denmark



Further information (hotel list and maps) will be provided in due time.



ECPE European Center for Power Electronics e.V.

2nd SiC User Forum –

Potential of SiC in Power Electronic Applications

> 6 – 7 September 2007 IDA Conference Centre Copenhagen, Denmark

in cooperation with





Introduction

2nd ECPE SiC User Forum -Potential of SiC in Power Electronic Applications

6 – 7 September 2007 Copenhagen, Denmark

After the first Silicon Carbide (SiC) User Forum organised by ECPE in 2006, technology has developed further - in particular new power electronic systems with SiC components and new SiC devices have been reported. Time has thus come to continue the exchange between experts involved in converter and device development: The second SiC User Forum will focus on typical power electronic systems the use of SiC is highly promising for i. e., electric drives, converters in transportation and power supplies; additionally an insight in recent material and device technology — which is the base for future system development - will be given. Renowned experts from all over the world have been invited to give an overview in keynotes, to in depth explain their research and development work in technical presentations and to share their knowledge in discussion forums as an indispensable part of the event.

The SiC User Forum is this way intended as a platform to share experience and ideas, to discuss and find out which power electronic systems are predestinated for usage of SiC and how to appropriately design-in those novel, almost ideal but also challenging components. It aims at finding and pointing out approaches to exploit the high potential of SiC and to support its beneficial introduction in power electronic systems.

SiC User Forum 2007 is scheduled to take place right after EPE conference 2007 in the Danish capital Copenhagen. Prof. Andreas Lindemann (Otto-von-Guericke-Universität Magdeburg, Germany) will chair the event together with Prof. Dr. Hiromichi Ohashi (National Institute of Advanced Industrial Science and Technology, Japan) and Mr. Thomas Harder (ECPE).

All presentations and discussions will be in English.

Programme

Programme

Thursday, 6 September 2007

- 12:00 Start of Registration and Light Lunch
- 12:30 **Opening, Welcome Address** L. Lorenz, T. Harder, ECPE
- 12:45 **SiC User Forum II: Motivation and Overview** A. Lindemann, Otto-von-Guericke-Universität Magdeburg (D), H. Ohashi, Tokyo Institute of Technology (JP)

SiC Power Electronic Systems

13:00 Keynote: Future Automotive Technologies and Potential of SiC for Sustainable Mobility K. Hamada, Toyota (JP)

14:00 Coffee Break

Drives and Transportation

- 14:30 A 690V AC drive with SiC Schottky Freewheeling Diodes and Integrated Sine Wave Output Filter B. Weis, Siemens (D)
- 15:00 Needs for Power Electronics in Aircraft Applications R. Meuret, Hispano Suiza (F)
- 15:30 SiC Power Converters J. Hornberger, APEI Inc. (US)

16:00 Coffee Break

Power Supply

- 16:15 Switched Mode Power Supplies with SiC Devices P. Wallmeier, Delta (D)
- 16:45 **Photovoltaic Inverters with SiC MOSFETs** B. Burger, Fraunhofer Institute ISE (D)
- 17:15 **50kHz 6kV Cascaded SiC J-FET Isolated Power Conversion for Future Intelligent Power Distribution Systems** J. W. Kolar, ETH Zurich (CH)
- 17:45 End of 1st Day's Programme
- 19:30 Dinner

Friday, 7 September 2007

Power Supply (cont.)

- 8:30 SiC Converters in the Electric Power Network Y. Sugawara, Kansai Electric (JP)
- 9:15 **Forum:**
 - Moderator: A. Lindemann, H. Ohashi
 - Introduction
 - System Review
 - Statements

10:30 Coffee Break

SiC Device Technology

11:00 Keynote: Progress, Trends and Reliability of High-Voltage SiC and GaN Power Devices P. Chow. Peneselaer Polytechnic Institute/CP

P. Chow, Rensselaer Polytechnic Institute/CPES (US)

12:00 Material Situation and Outlook G. Mills, Cree Inc. (US)

12:30 Lunch

- 13:45 State of the Art and Trends in SiC Device Technology P. Friedrichs, SiCED/R. Rupp, Infineon (D)
- 14:15 **Forum:** Moderator: **A. Lindemann, H. Ohashi** - Introduction - Device Review
 - Statements
 - Wrap up

15:30 End