

Registration (Fax Reply)

To: ECPE e.V.
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Register before **27 August 2007**

Participation fee:

- .. **€120,-*** for members of the ECPE Network
- .. free for invited guests and speakers

The fee includes dinner, lunch, coffee/soft drinks.

With the confirmation of 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.

Sender:

title, given name, name

company, department

full address

phone, fax

e-mail

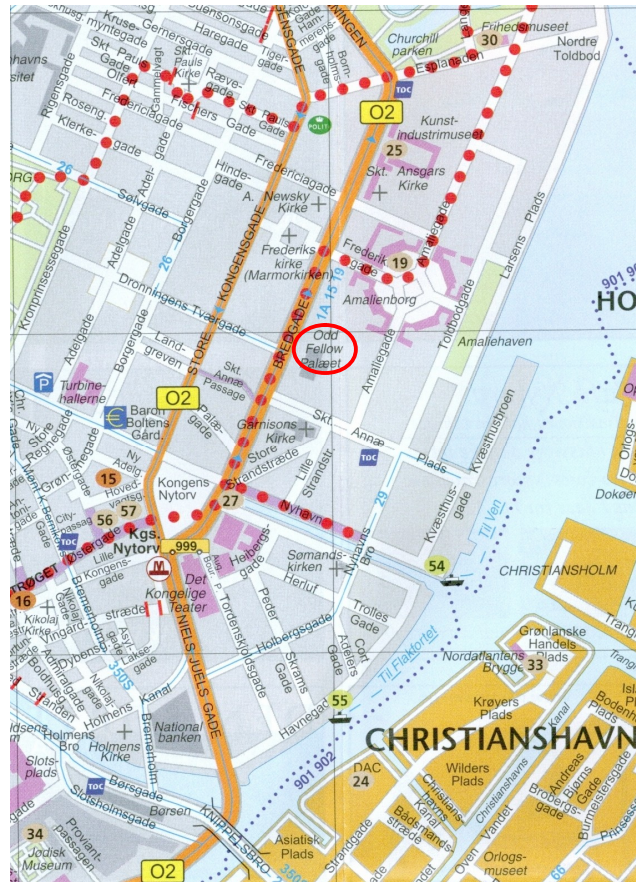
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Organisational information

Organiser: ECPE e.V.
90443 Nürnberg, Germany
www.ecpe.org

Contact: Ingrid Bollens, ECPE e.V.
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Venue: Odd Fellow Palais
28, Bredgade
1260 Copenhagen K, Denmark



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

Draft Programme



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

ECPE Workshop Power Electronics Research & Technology Roadmaps

**8 September 2007
“Odd Fellow Palais”
Copenhagen, Denmark**

in cooperation with

CPES
Center for Power
Electronics Systems
(USA)

AIST PERC
Power Electronics
Research Center
(Japan)

Introduction

International Workshop Power Electronics Research & Technology Roadmaps

in cooperation with

CPES (USA) and AIST PERC (Japan)

ECPE has started a European initiative of academia and industry to jointly develop power electronics research and technology roadmaps. The vision is that these medium to long term research roadmaps (up to 2020) will become a guideline for power electronic research in universities and research centres, provide an orientation for public research programmes and help industry to prepare for upcoming technology steps.

The approach and methodology of roadmap development in the ECPE Network is focussing on power electronics applications in different key systems. Working groups with experts from industry and university have been formed:

1. Power grid infrastructure, power generation and distribution
2. Large drives (large industry and traction drives)
3. High performance motor drives
4. Small drives for home appliances
5. High frequency power conversion > 1 kW
6. High frequency power supplies < 1 kW
7. Automotive power electronics
8. Future (renewable) energy sources

In this International Roadmap Workshop, representatives from the Centre for Power Electronics Systems (CPES, USA) and the Power Electronics Research Center of the National Institute of Advanced Industrial Science and Technology (AIST PERC, Japan) are invited to exchange information and discuss about results of the power electronics research & technology roadmap development.

The Roadmap Workshop is scheduled to take place in the week of the EPE Conference 2007 right after the ECPE SiC User Forum in the Danish capital Copenhagen. All presentations and discussions will be in English.

Programme

Friday, 7 September 2007

- 17.30 Guided City Tour
Meeting Point: Odd Fellow Palais
- 19.30 **Opening Dinner**
At Restaurant: Odd Fellow Palais
28, Bredgade, 1260 Copenhagen K,
Key note speech (dinner talk)
European Action Plan for Energy Efficiency
P. Bertoldi, European Commission DG JRC

Saturday, 8 September 2007

- 8.15 **Start of Registration**
- 8.30 **Opening** (L. Lorenz)
- 8.45 **Presentations on Roadmap Development:**
- ECPE (Europe)
- CPES (USA)
- AIST PERC (Japan)

Invited talks: baseline for roadmap development

- 9.45 **Calculated power density limits in power electronic converters**
J.W. Kolar, ETH Zurich
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- 10.10 Coffee Break
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- 10.30 **Forum: Technology drivers and challenges in power electronics:**
- power semiconductors,
- advanced materials,
- advanced cooling techniques, inter-connection & packaging

Programme

Exemplary Results from ECPE Roadmap Teams:

- 11.45 **High Performance Motor Drives**

Feedback and discussion

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- 12.30 Lunch
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- 13.30 **Automotive Power Electronics**

Feedback and discussion

Power Generation & Distribution and Renewables

Feedback and discussion

- 14.45 **Wrap-up and closing remarks**

- 15.15 End