Registration (Fax Reply)

To: European Center for Power Electronics e.V.
Att.: Ingrid Bollens

Fax: +49 (0)911 / 81 02 88 – 28

Register before **April 22, 2005**

Participation fee: € 480,-- * plus 25% Danish VAT
€ 380,-- for university members
The fee includes dinner, lunch and coffee/soft drinks, seminar handouts. With the confirmation of seminar registration you will receive the invoice.

* 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

Organisational information

Organiser: ECPE e.V.
D-90443 Nuremberg
www.ecpe.org

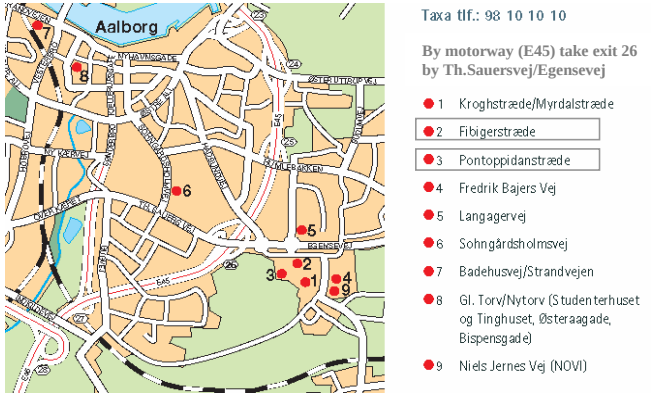
Chair of seminar: Frede Blaabjerg, Aalborg University
Thomas Harder, ECPE

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

Place of seminar: Aalborg University
Fibigerstraede 16,1.108
9220 Aalborg East, Denmark

Aalborg University: Birthe Johansen
+45 9635 9254, bj@iet.aau.dk

How to reach Aalborg University, Denmark
Airport is Aalborg. Connecting flights from Copenhagen and Billund. It takes about 15 minutes from Aalborg airport to the city center and about 20 minutes to Aalborg University by taxi.
By car: see map below.



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

European Center for Power Electronics e.V.

Advanced Power Conversion-Concepts for Motor Drives

April 27-28, 2005
at Aalborg University
Denmark

ECPE Seminar
in cooperation with
Aalborg University

Introduction

ECPE
Advanced Power Conversion-Concepts for Motor Drives

Seminar

April 27-28, 2005
Aalborg University, Denmark

The power electronics technology is necessary for adjustable speed drives (ASD) and in the last 30 years the development has been significant. The key drivers are energy saving, automation and transport systems. New applications are becoming attractive too like automotive systems, renewable energy systems and last but not least the appliance systems. The main types of adjustable speed drives have been industrial drives where the competition between many players has been strong and pushed the technology to have a high power density with high performance with still a lower price. Also regulations for EMC have strengthened the drive system in a still harsher environment. This ECPE seminar will focus on power conversion technology for different key applications of adjustable speed drives and discuss it in a component and system context.

We are presenting some of these trends including emerging technologies and new applications. The goal of the seminar is to offer high level education and information. The presentations include tutorials, where some new issues are discussed in detail, and shorter technical papers that convey state-of-the-art technical information.

Prof. Frede Blaabjerg (Aalborg University, DK) will chair the seminar together with Mr. Thomas Harder (ECPE). All presentations and discussion will be in English.

Program

Wednesday, April 27, 2005

11:00 Venue and Registration
12:00 Lunch
12:45 Opening
T. Harder (ECPE)
Welcome address by host organisation
J.K. Pedersen (Aalborg University)
Introduction to the seminar
F. Blaabjerg (Aalborg University)

Large Power Drives – New performance and application

13:15 Comparison of Medium Voltage Drives for Industry Applications
S. Bernet (TU Berlin, Germany)
13:50 Power Electronics in Railway Applications
M. Steiner
(Bombardier Transportation, Germany)
14:25 Softswitching better for medium-voltage multi-level converters?
R. De Doncker, (RWTH Aachen, Germany)
15:00 Coffee break
15:30 HVDC transmission and off-shore variable-speed drives just merged
P. C. Kjaer
(PCK Consultancy ApS, Denmark)
16:05 Series connecting and paralleling of power electronic building blocks
D. Schreiber (Semikron Elektronik GmbH & Co. KG, Germany)
16.40 Recent Developments of High Power Converters and Applications
P. Barbosa (ABB Switzerland Ltd.)
17.15 End

18.30 Visit "Aalborg Tower"
19:30 Dinner at "Skydepavillonen" next to Tower

Program

Thursday, April 28, 2005

Industrial drives – towards lower price with better performance

08:30 Adjustable speed drives – overview and trends
F. Blaabjerg (Aalborg University, Denmark)
09:05 New emerging power converter solutions for ASD
J. W. Kolar (ETH Zurich, Switzerland)
09:40 Modularization and integration of advanced ASD
P. Thoegersen,
(Danfoss Drives A/S, Denmark)

10:15 Coffee break

10:45 Flexible AC Drives as Key Components in System Solutions
G. Heinemann (Siemens AG, Germany)
11:20 Harmonic Mitigation Technique – A need for system understanding to reduce cost
S. Hansen
(Danfoss Drives A/S, Denmark)

12:00 Lunch

Appliance applications – A break through for low power drives

13:00 Integrated design for low-cost low-power drives
J. Jacobsen,
(Grundfos Management A/S, Denmark)
13:35 New technologies for integrating ASD in appliance
M. J. Youn, (KAIST, Korea)

14:10 Coffee break

14:30 Lab visit at Aalborg University
16:00 End