

## Registration (Fax Reply)

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

Fax: +49 (0)911 / 81 02 88 – 28

Register before **4 April 2008**

### Participation fee:

- .. **€530,-**
- .. **€395,-** for university members  
The fee includes dinner, lunch, coffee/soft drinks  
and seminar handouts.
- .. **€120,-**  
for students (shortened seminar package)

With the confirmation of the registration you will  
receive the invoice.  
In case of cancellation after 4 April 2008 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:

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title, given name, name

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company, department

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full address

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phone, fax

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e-mail

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date, signature

## Organisational information

Organiser: ECPE e.V.  
90443 Nürnberg, Germany  
[www.ecpe.org](http://www.ecpe.org)

Chair of seminar: Prof. Włodzimierz . Koczara  
Warsaw University of Technology  
Thomas Harder, ECPE e.V.

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

Place of seminar: Warsaw University of Technology  
Main Building, Senate Hall  
pl. Politechniki 1,  
00-662 Warszawa, Poland

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



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

## Seminar

**Towards Energy Gain and  
Savings – Emerging Drives  
and Generator Systems**

**15 - 16 April 2008**

**Warsaw, Poland**

**in cooperation with**



## Introduction

### ECPE Seminar

#### Towards Energy Gain and Savings - Emerging Drives & Generator Systems

15 - 16 April 2008  
Warsaw, Poland

Energy saving and improved energy efficiency is a major issue for drives and generator systems development. Power electronics technology is the key for energy efficient variable speed drives. Applications range from the low power area e.g. in home appliance over medium power in industrial and automotive up to the large MW power in the field of generation. There is still progress in electrical machines motors and generators that are going to be more efficient, lighter and more robust.

The main types of variable 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 at still a lower costs. New variable/adjustable speed generation technologies are key issue for improvement of electricity generation industry. An emerging SiC technology, applied to power electronic devices, brings another revolutionary change in system performance and efficiency.

The ECPE Seminar is presenting research and technology trends including emerging technologies and new applications. The goal of the seminar is to offer high level education and information exchange.

Prof. W. Koczara (Warsaw University of Technology) will chair the seminar together with Michel Arpilliere (Schneider Toshiba Inverter Europe) and Thomas Harder (ECPE). All presentations and discussions will be in English.

## Programme

Tuesday, 15 April 2008

- 10:00 Start of Registration  
10:30 Opening, Welcome Address

### Introduction, Overview, Energy Efficiency

- 11:00 Electric Motor Standards, Ecodesign and Global Market Transformation  
A.T. de Almeida, Univ. of Coimbra (PT)  
11:30 Concepts and Ways of Elaborating Energy Effective Induction Motors  
O. Muravleva, Tomsk Polytechn. Univ.(RUS)  
12:00 Improving Performance and Energy Consumption of Industrial Processes by using Variable Speed Drives  
J. Reinert, Emotron (SE)

12:30 Lunch

### Drives & Generators I (Large Power)

- 13:30 New Permanent Magnet Generator for Wind Turbines  
ABB  
14:00 Large Drives in Industrial Applications

15:00 Coffee Break

- 16:00 Power Electronic Systems for Renewable Sea Waves Energy Converter  
M.P. Kazmierkowski, M. Jasinski, Warsaw Univ. of Technology (PL)  
16:30 High Efficient Variable Speed Generators  
W. Koczara, Warsaw Univ. of Technology (PL)  
17:00 End of 1<sup>st</sup> day's programme  
19:30 Dinner

## Programme

Wednesday, 16 April 2008

### Energy Efficiency

- 09:00 Energy Savings with Modern Drives – Potential and Technical Options  
F. Blaabjerg, Aalborg University (DK)

### Drives & Generators II (Medium Power)

- 09:30 Energy Gain and Savings of Industrial Drives  
M. Arpilliere, Schneider Toshiba Inverter Europe (F)  
10:00 Advances in Electric Drives for Traction and Automotive Applications  
A. Vezzini, Bern Univ. of Appl. Sciences (CH)

10:30 Coffee Break

- 11:00 Medium Voltage or Low Voltage Variable Frequency Drive - what to Choose for Large Horsepower Motors?  
A. Niedziałkowski, Rockwell Automation (PL)  
11:30 Drives and Generators in Automotive Hybrid Traction  
A. Schletz, Fraunhofer IISB (D)  
12:00 High Performance Generators for Distributed Generation, MicroTurbine for Cogeneration

12:30 Lunch

### Emerging Technologies

- 13:30 Energy Efficiency Gain using New SiC Components  
B. Allard, ISP3D-CNRS (F)  
14:00 High Power Density System Integration for Industrial Drives  
J. Popovic, ECPE / TU Delft (NL)  
14:30 Wrap-up  
14:45 Lab visit Warsaw University of Technology, Institute of Control & Industrial Electronics  
16:15 End