

Registration (Fax Reply)

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

Fax: +49 (0)911 / 81 02 88 – 28

Register before **9 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)
plus VAT in Poland

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:

title, given name, name

company, department

full address

phone, fax

e-mail

date, signature

Organisational information

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

Chair of seminar: Prof. Włodzimierz Koczara
Warsaw University of Technology
Michel Arpilliere
Schneider Toshiba Inverter Europe
Thomas Harder, ECPE e.V.

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

Place of seminar: Warsaw University of Technology
Main Building (No1), 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 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)
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12:30 Lunch

Drives & Generators I (Large Power)

- 13:45 Innovative High Power Drive Systems for Energy Efficient Solutions
K. Kahlen, Siemens A&D (D)
14:15 New Permanent Magnet Generator for Wind Turbines
J. Mantere, ABB Finland
14:45 Power Electronic Systems for Renewable Sea Waves Energy Converter
M.P. Kazmierkowski, M. Jasinski, Warsaw Univ. of Technology (PL)
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15:15 Coffee Break

- 15:45 High Efficient Variable Speed Generators
W. Koczara, Warsaw Univ. of Technology (PL)
16:15 ECPE Power Electronics Roadmaps
Team: Large Drives for Industry & Traction
16:45 Wrap-up 1st day
17:00 End of 1st day's programme
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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)
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10:30 Coffee Break

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

Emerging Technologies

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