

EPE Newsletter May 2009

Newsletter contents

1. **EPE 2009, Barcelona 8-10 September 2009, Registration opens! Early bird fees till 21 June.**
 2. **The proceedings of EPE-PEMC 2008 are available on the database for download, for EPE members only. Willing to become EPE member to access the database and have a discount of the EPE 2009 registration fee? E-mail the secretariat: nlangsbe@vub.ac.be**
 3. **Electromotion, Lille, France, 1-3 July 2009, Registration open: <http://www.electromotion2009.fr>**
 4. **Call for papers for EPE journal, included in ISI and Compendex: impact factor is 0,2**
 5. **Technically sponsored conferences**
 6. **ECPE Calendar of Events 2009**
-

- **1. EPE 2009, Barcelona 8-10 September 2009, Registration opens! (Early bird registration fee till 21 June 2009)**

WELCOME TO EPE 2009 IN BARCELONA



It is an honour for us to invite the whole power electronics community to join the EPE'2009 conference, Barcelona, from September 8 to September 10, 2009. We have received about 1100 synopsis and, owing to the high quality of the contributions, more than 750 papers were selected for presentation at the conference.

Spain has very good standards in renewable energies production, power industrial applications of power electronics and advanced research groups in these fields. The Global Energy Council ranked Spain third in terms of overall installed wind power capacity at about 20.000 megawatts, just behind USA and Germany. According to the National Commission of Energy (CNE), our country installed more than 3.000 megawatts of photovoltaic power last year.



Renewable energies and a big number of other issues at the cutting-edge of power electronics will be addressed at the EPE'2009. The Conference will be held at the Palau de Congressos/Fira de Barcelona, a perfect place for large conferences which is located in one of the most visited places of the town due to the proximity of the Montjuïc Mountain gardens and important museums. Approximately **9** tutorials will be organised on Monday. During the three days of the main conference, we will have about **150** papers for lecture sessions developed during the morning in six parallel tracks. In the afternoon dialogue sessions will take place. Fields like drives, automotive, custom power systems and new devices will be on the focus of the lecture and dialogue sessions. In the late afternoon different workshops will be held in power electronics in power systems, education. The web-site of the conference www.epe2009.com explains in detail the topics and sub-topics addressed.

EPE 2009, will offer, co-organised with ECPE, several industrial sessions, running in parallel with the regular conference sessions. Every day one "actual topic" will be covered with keynotes, coming mainly from top experts from the academia, invited lecture sessions with speakers mainly from the industry, and a workshop/ roundtable discussion planned by the end of the day. Keynotes and lectures will highlight the topic that will be presented during the day.

Active and Passive Components will be discussed on the first day of the conference. A morning keynote will present the state-of the art of Wide Gap Devices. Invited industrial presentations will follow with lectures on High Frequency and High Power Semiconductors. Digital Drivers, Magnetic Components and Component Reliability will be lectured in a session dedicated to Passives. A keynote on Losses and Cooling Techniques will be also presented in this first day of the Conference.

Mass Transportation is the subject of the second day industrial sessions. Two keynotes will be presented during the morning related to More Electric Aircraft Technologies and More Electrical Heavy Vehicles while the industrial invited presentations will cover More Electrical Aircraft Systems, Advanced Rail Systems and More Electrical Ship Technologies. Reliability of Power Electronic Systems, a very important topic in this area, is covered with an afternoon keynote presentation.

On the third day of the conference, presentations on Solar Energy Systems as well as integration to the grid are planned. After a first keynote on Research Challenges and Visions on PV Systems, High Power Density Converters and its Integration to Grid will

be covered from top experts from the industry mainly. The session will end with a second keynote on Future Grids and the corresponding round table.

Several cultural events, social activities, gala dinner and tours for accompanying persons will be carefully arranged during the conference days. A beautiful environment invites to all kinds of excursions and visits. Friday is allocated for industrial tours. The modern airport of Barcelona offers the possibility of many direct scheduled flights to a wide range of European and worldwide destinations. The town is also the hub of a vast national and international rail network and maritime connections, providing many convenient options for passenger services.

While enjoying our meeting through the unique international event of EPE 2009 in a pleasant atmosphere, we hope you can spend some extra time in Barcelona and surroundings. The city is beautiful and lively, steeped in history and rich in great experiences, located in the heart of Catalonia, by sea side and near the charming province capitals of Girona, Lleida and Tarragona.

We are looking forward to welcoming you all in Barcelona!

Joan Peracaula
Honorary Chairman

Enrique J. Dede
Conference Chairman

➤ **2. The proceedings of EPE-PEMC 2008 are available on the database for download, for EPE members only.**

EPE Members may now browse through the EPE-PEMC 2008 papers using their ID and password.

Not member yet? Willing to have access to the database and have a discount on your EPE 2009 registration fee? E-mail the EPE secretariat: Nlangsbe@vub.ac.be!

➤ **3. Electromotion, Lille, France, 1-3 July 2009, Registration open: <http://www.electromotion2009.fr>**

ELECTROMOTION 2009 - EPE Chapter "Electric Drives" - Joint Symposium

It is our great pleasure to invite you to the **8th International Symposium on Advanced Electromechanical Motion Systems, ELECTROMOTION 2009**, and the **EPE Chapter "Electric Drives"**, which will take place on 1- 3 July 2009 in Lille, France, on the HEI Graduate School in the centre of the City. It is organized jointly by L2EP, Laboratory of Electrotechnics and Power Electronics, involving researchers from following establishments: HEI (Hautes Etudes d'Ingénieur), ECLille (Ecole Centrale de Lille), ENSAM (Ecole Nationale des Arts et Métiers) and USTL (Université des Sciences et Technologies de Lille).

The Conference is technically co-sponsored by the IEEE Industry Application Society and the SEE (Electrician French Society), and financially sponsored by EDF, Opal-RT Viveris, Maia Eolis, RTE, the Regional Council Nord-Pas de Calais, and the Catholic University of Lille.

The purpose of the Symposium is to provide an exchange of information and creative ideas concerning recent developments and future trends in analysis, design and applications of Electromechanical energy converters, Advanced electric motors, Electric vehicles and traction drives, Electromechanical actuators, Electromechatronic components and systems, Renewable sources of energy and cogeneration, and Electric power systems

During three days, the symposium offers 4 plenary sessions, 4 special sessions, 8 regular oral sessions and 2 poster sessions. The programme timetable of the Symposium is available on the website: www.electromotion2009.fr

Plenary Sessions

Decoupled Generation Providing Quality Power

Włodzimierz KOCZARA, Warsaw University of Technology

Why FPGA-based controllers can be of interest for power electronics and drive applications?

Eric MONMASSON, University of Cergy Pontoise

A 3-Level Neutral-Clamped Inverter Model including Natural Switching Modes for the Real-Time Simulation of Variable Speed Drives

Christian DUFOUR (OPAL RT), Cédric BORDAS (CONVERTEAM).

Special Sessions

Renewable Energies for Electricity Production (2 sessions)
Gilles NOTTON, University of Corsica

Energy management and power control of hybrid power systems
Bruno FRANCOIS, Ecole Centrale of Lille (L2EP)

Fuel cell systems: modelling, control and design
Daniel HISSEL, FEMTO-ST, Belfort

<http://www.electromotion2009.fr>

➤ **4. Call for papers for EPE journal, included in ISI and Compendex: impact factor is 0,2**

EPE Journal is included in the Science Citation Index as well as in the Compendex. Send your best technical papers for publication to bsnevers@vub.ac.be (pdf file, without any mention of authors, full coordinates in the mail message)

<http://www.epe-association.org>

➤ **5. Technically sponsored conferences**

ELECTROMOTION 2009
Lille, France
1-3 July 2009
Information: www.electromotion2009.fr

September 8-10, 2009 Barcelona, Spain
EPE 2009
<http://www.epe2009.com>

November 10-12, 2009, American University of Sharjah, UAE
International Conference on Electric Power and Energy Conversion Systems
Contact : epeccs09@aus.edu
Tel: +(971) 6 515 2927
Fax: +(971) 6 515 2979
<http://www.epeccs-conf.org/cop.html>

➤ **7. ECPE Calendar of Events 2009**

Full programmes are available from http://www.ecpe.org/education/seminars_e.php



Date	Location	Event	Topic
23 June 2009	Brussels, Belgium	ECPE Workshop	EC Workshop on Intelligent Power Electronics for Energy Efficiency - the Role of ECPE Research Roadmaps Techn. Chairman: Prof. L. Lorenz (Infineon)
24 (evening) – 25 June 2009	Munich, Germany	ECPE Workshop	Power Semiconductor Robustness – What Kills Power Devices? Techn. Chairman: Prof. D. Silber (Univ. Bremen)
8 - 9 July 2009	Itzehoe, Germany	ECPE Tutorial and Training	Soldering Processes in PE Manufacturing Course Instructor: Dr. T. Ahrens (Fraunhofer ISIT)
22 - 23 July 2009	Prague, Czech Rep.	ECPE Tutorial	Reliability of Power Electronic Systems Course Instructor: Prof. E. Wolfgang (ECPE)
28 - 29 July 2009	Erlangen, Germany	ECPE Tutorial	Thermal Engineer I (thermal design and verification) Course instructor: Prof. E. Wolfgang (ECPE)
8 - 10 Sept. 2009	Barcelona, Spain	Conference	<i>EPE Conference with ECPE Session 'Reliability of Power Electronic Systems'</i>
10 - 11 Sept. 2009	Barcelona, Spain	ECPE User Forum	3 rd SiC User Forum - Potential of SiC and other WBG Semiconductors in Power Electronic Applications Techn. Chairman: Prof. A. Lindemann (Uni. Magdeburg) Prof. J. Millan (CNM Barcelona)

5 – 9 Oct. 2009	Arcachon, France	Symposium	ESREF Symposium with ECPE Session ‘Reliability in harsh Environment: Application in Transportation and Industrial Environment’
13 – 14 Oct. 2009	Erlangen/ Nuremberg, Germany	ECPE Tutorial	Thermal Engineer II (thermal management and reliability)
October 2009	TBD	ECPE Double Workshop	Advanced Power Electronics Packaging and Mechatronic System Integration 1 st day: Advanced PE Packaging (low power): moulding, chip embedding, power stacking, wafer level bumping/balling 2 nd day: Power Mechatronics: design & simulation, integration technologies, applications, reliability
October 2009	Berlin, Germany	ECPE Tutorial	EMC in Power Electronics Course Instructor: Dr. E. Hoene (Fraunhofer IZM)
November 2009	TBD	ECPE Workshop	Electronics Enabling Efficient Energy Usage (E4U - Workshop) Techn. Chairmen: Prof. J.A. Cobos (U Madrid) T. Harder (ECPE)

Further Power Electronics Events of the Bavarian Cluster: www.cluster-bayern-leistungselektronik.de (in German language).