

## **EPE 2009**

### **MORE INDUSTRIAL THAN EVER**

#### **BARCELONA 8-10 SEPTEMBER 2009**

EPE 2009, the European Power Electronics and Applications Conference in Barcelona, sponsored by the EPE Association and the National Organizing Committee, goes strongly renewable and industrial. Do not miss an outstanding opportunity! Make sure you are there: [www.epe2009.com](http://www.epe2009.com)!

The venue of the conference will be the Palau de Congressos / Fira de Barcelona, a perfect place for large events, located in one of the most visited parts of the town due to the proximity of the Montjuïc Mountain gardens and important museums. The town has a very modern airport and is also the hub of a vast national and international rail network and maritime connections. 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 have received about 1100 synopsis from 57 countries and, owing to the high quality of the contributions, more than 750 papers were selected for publication in the field of power electronics and its application. Seven big areas of power electronics and twenty two topics will be covered. The web-site of the conference [www.epe2009.com](http://www.epe2009.com) explains in detail the topics and sub-topics addressed. We expect many participants from all over the world due to the high level of the Conference and the possibility of enjoying Barcelona as an advanced and, simultaneously, historical old town.

The conference includes six parallel lecture sessions where about 150 papers will be presented covering all areas related to Power Electronics, three dialogue sessions allowing face-to-face discussion with the authors, different workshops in power electronics, power systems and education and panel discussions on state-of-the-art topics. Fields like new devices, automotive, custom power systems and adjustable speed drives will be on the focus of the conference. Advances in Energy Conversion and Conditioning Technologies (ECCT), exploiting new power electronic systems, energy conversion devices and system control regimes, are all crucial to the development of the clean, efficient and sustainable technology of the future. EPE 2009 will offer a wide discussion forum on all topics related to these aspects. Furthermore, about 7 tutorials have been proposed for Monday 7 September and we hope to see many attendants.

EPE 2009 will offer, co-organised with ECPE, state-of-the-art keynotes and several industrial sessions, running in parallel with the regular conference sessions, with invited presentations from industry world leaders as well as from relevant academic institutions and round table meetings to discuss in depth and focus on future developments in new or emerging topics as well as advanced industrial applications, of special interest to the power electronics community.

**Active and Passive Components** will be discussed on the first day of the Conference. The day will begin with a keynote presentation, coming from the University of Bremen on the state-of-the-art and future of wide gap devices. After the keynote, industrial sessions will highlight *high frequency semiconductors for industrial power*, with contributions from Infineon, Cree and Mitsubishi, *high power semiconductors for industrial power*, with speakers from Siemens, ABB and Infineon Tech, and *bipolar, passives and related topics* with contributions from In-Power Systems, Epcos and Semikron. The first Conference day will end with an invited lecture, coming from the Technical University of Chemnitz, on: *design for reliability with IGBT-modules* and a round Table on the topic of the day.

**Mass Transportation Technologies** presentations will happen on the second Conference day. Two keynotes speeches are planned, the first one coming from the University of Nottingham and devoted to the more electrical aircraft, and its future technologies and the second one from the Technical University of Munich related to hybrid electrical vehicle, heavy duty, fuel economy and hybridization factor. The following industrial presentations will cover the *more electrical aircraft systems* with speeches from Rolls-Royce, Liebherr and GE Aviation, *advanced railway systems*, with presentations coming from Siemens, Alstom Transport and Shinkansen R&D, and the *more electrical ship technologies* with contributions from Converteam, Ingeteam and Wartsila. The invited presentation of the afternoon, conducted by ECPE, will discuss *reliability of power electronics systems* and end the second Conference day industrial sessions with the corresponding Round Table discussion.

**Technologies for Solar Power** are the subject on the third Conference day. After a keynote, coming from the ISE Fraunhofer Institute, covering the topic of *extreme efficiency PV-power converters, high power density PV-converters*, with contributions from Altran, SMA and the Fraunhofer Institute for Solar Energy Systems ISE, will be presented followed by presentations related to *the grid of the future* coming from the University of Nottingham, the University of Kassel and Saft Baterias S.L. The third day industrial sessions will end with an invited presentation on *The Future of High Power Electronics in Transmission and Distribution Systems* conducted by Areva -TD and the corresponding round table on the topic of the day.

During the conference, a commercial exhibition will be organized. This is a unique opportunity for you to see products and to have prolonged discussions with fellow specialists in the field of Power Electronics and Drives. The aim of the exhibition is to promote technical exchanges and business contacts.

**We are looking forward to see you all in Barcelona in the second week of September.**

**Welcome to Barcelona!.**



Joan Peracaula  
Honorary Chairman



Enrique J. Dede  
Conference Chairman