

EPE Conference Goes Strongly Renewable



ECPE 2nd SiC User Forum

EPE, Aalborg, Denmark Congress & Culture Centre from 2 to 6 September 2007

ECPE, Copenhagen, Denmark 6 to 7 September 2007

Six tutorials, the EPE Wind day, six parallel lecture sessions covering all areas related to Power Electronics, three dialogue sessions allowing face-to-face discussion with the authors, six specialized workshops and panel discussions on state-of-the-art topics, including a match-making workshop in preparation of the coming calls of FP7, industrial exhibition and technical tours.

The European Power Electronics and Adjustable Speed Drives community will exchange views on research progresses and technological developments. The EPE 2007 conference is sponsored by the EPE Association and will be held in the Aalborg. It is hosted by Aalborg University's Institute of Energy Technology.

The conference has received more than 950 synopsis and about 650 papers are selected and received for publication in the field of power electronics and its application. The organizers expect more than 900 participants from all over the world enjoying Aalborg and the spirit of EPE'2007 as one of the leading power electronics conferences in the world.

Denmark is one of the frontiers in renewable energy supplies and distributed generation. Today about 20 % of all electrical energy is produced by wind turbines and further 30 %

is covered by small combined heat and power plants, which is a record in this scale. Further due to strong national energy savings programs the use of electricity has almost been 25 years even though production and population have increased. Europe has set up new targets for renewable energy and Denmark has the goal to remain one of the leading countries in the world. These issues will of course be addressed at the EPE 2007 conference.

Content and Program

The conference is organized with 6 tutorials on Sunday with the following topics:

1. Modeling and Control of Permanent Magnet Synchronous Motors
2. Propulsion systems for hybrid and fuel cell electric vehicles
3. Superjunction devices & technologies - Benefits and Limitations of a revolutionary step in power electronics
4. Power Electronics and Control for Renewable Energy Systems
5. Grid Requirements, Monitoring, Synchronization and Control of Wind Turbines under Grid Faults
6. Wind-farm integration and testing with the use of a real-time simulator

During the three days of main conference 160 papers will be presented in lecture sessions – done in the morning through six parallel tracks. In the afternoons posters will be presented.

One of the highlights will be on Monday September 3 where many high level technical papers will be presented in wind turbine and wind power system technology with contributions from several leading manufacturers. The 100 papers received in this field highlight the present technological importance. Also other fields like adjustable speed drives, switched mode power supplies, automotive, custom power systems, new power devices will be thoroughly represented through highly interesting papers.

Two key-note presentations in multi-level converters for utility applications and Silicon Carbide Components, respectively, are held Tuesday and Wednesday mornings. Each day, the late afternoons hold several workshops in power electronics, power systems, education etc.

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In the same week Thursday and Friday the European Center of Power Electronics will organize the 2nd ECPE SiC User Forum in Copenhagen, Denmark 6 to 7 September 2007

Potential of SiC in Power Electronic Applications

After the first Silicon Carbide (SiC) User Forum organised by ECPE in 2006, technology has developed further - in particular new power electronic systems with SiC components and new SiC devices have been reported. Time has thus come to continue the exchange between experts involved in converter and device development: The second SiC User Forum will focus on typical power electronic systems the use of SiC is highly promising for - i. e., electric drives, converters in transportation and power supplies; additionally an insight in recent material and device technology — which is the base for future system development — will be given. Renowned experts from all

over the world have been invited to give an overview in keynotes, to in depth explain their research and development work in technical presentations and to share their knowledge in discussion forums as an indispensable part of the event.

The SiC User Forum is this way intended as a platform to share experience and ideas, to discuss and find out which power electronic systems are predestinated for usage of SiC and how to appropriately design-in those novel, almost ideal but also challenging components. It aims at finding and pointing out approaches to exploit the high potential of SiC and to support its beneficial introduction in power electronic systems.

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