

EPE 2005 DRESDEN

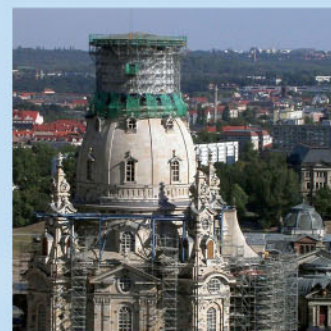
SIEMENS



11th European Conference on
Power Electronics and Applications
11 - 14 September 2005 - Dresden, Germany

<http://www.epe2005.com>

Call for Papers



TECHNISCHE
UNIVERSITÄT
DRESDEN



Organization and Venue

The European Power Electronics and Adjustable Speed Drives community will gather in Dresden, Germany, in September 2005 to exchange views on research progresses and technological developments in the various topics described hereunder. The EPE 2005 conference is sponsored by the EPE Association and will be held in the five years old Main Lecture Building (pictured on the cover) at the campus of the Dresden University of Technology, from 11 to 14 September 2005. It is hosted by Dresden University of Technology and organised by Intercom-GmbH.

Aims of Conference

EPE is the place for specialists in power electronics, systems and components, to present papers and attend sessions on state-of-the-art technology in this challenging and evolutionary sector. The conference aims to be a meeting forum for researchers, developers and specialists from the industry. Papers are encouraged on all topics described hereunder for interdisciplinary discussions of new ideas, research, development, applications and the latest advances in the field of power electronics and adjustable speed drives.

Topics

Power Electronics has become the enabling technology for the majority of power processing engineering and for the future management of electrical energy. No future development of sustainable energy systems will be possible without the use of advanced and optimised Power Electronics and Adjustable Speed Drives. It is used in all areas where electrical power conversion and control is needed. Special attention will be devoted this time to sustainable energy systems, clean surface transport, to the emergence of hydrogen as energy vector as well as to the most recent development in components technologies and converters' topologies. The list of topics hereunder holds only the headlines. A detailed list of subtopics is available at:

<http://www.epe2005.com>

A. DEVICES, PACKAGING AND SYSTEM INTEGRATION

Topic 1: Active devices

Topic 2: Passive components, system integration & packaging

B. POWER CONVERTERS TOPOLOGIES AND DESIGN

Topic 3: Soft switching converters and control

Topic 4: Hard switching converters and control

C. MEASUREMENT AND CONTROL

Topic 5: Modulation strategies and specific control methods for static converters

Topic 6: Application of control methods to electrical systems

Topic 7: Measurements and sensors (except speed and position sensors)

D. ELECTRICAL MACHINES AND DRIVE SYSTEMS

Topic 8: Motion control and robotics, communication in drive systems

Topic 9: Electrical Machines

Topic 10: Adjustable speed drives

Topic 11: High performance drives

E. APPLICATIONS OF POWER ELECTRONICS

Topic 12: Power supplies

Topic 13: Power electronics and drives in aerospace, space and surface transport

Topic 14: Power electronics in electrical energy generating systems

Topic 15: Power electronics in transmission and distribution of electrical energy

Topic 16: Operating quality of systems

Topic 17: Energy efficient power electronics systems and drives in the industry and physics research

F. EDUCATION

Topic 18: Education

Presentation of Papers

Contributions to EPE 2005 must be presented either as a lecture presentation or as a dialogue presentation. A manuscript must be submitted in English in both cases for inclusion in the Conference Proceedings (CD-ROM). Papers for lecture sessions will be strictly limited and selected on the basis of wide audience appeal, ease of understanding and potential stimulation of broad ranging discussion. Dialogue presentation will take place in the afternoon. No lecture session will be organized during the dialogue sessions.

Tutorials - Call for Proposals

Several tutorials will be held prior to the conference. Authors willing to propose a tutorial at EPE 2005 are invited to send a proposal to the scientific secretariat (EPE Association, c/o VUB-TW-ETEC, Pleinlaan 2, B-1050 Brussels, Belgium, e-mail: epe-association@vub.ac.be). The proposal will consist of a three-page summary including tutorial title, name and affiliation of the lecturer(s), tutorial objectives and audience, topical outline and provisional schedule of the tutorial. Tutorials will be organized at Dresden University of Technology on Sunday September 11, 2005. Tutorial proposals are particularly welcome in the following topics, although other topics may be proposed as well:

- New Devices for Sustainable Energy Applications
- Understanding the Electrical Grid Behaviour and Management
- Building and Connecting Wind Energy Sources
- Building and Connecting PV Energy Sources
- Connecting Fuel Cells to the Electrical Applications
- Power Electronics and Adjustable Speed Drives for Clean Road Transport
- New Topologies for Sustainable Energy Applications
- Storage of Electrical Energy in the Electrical Grid
- Storage of Electrical Energy for Transport Applications
- Education issues
- More...

Content of Synopses

The synopses should consist of:

- a 2 to 3 pages **summary**, including an **abstract** with no more than 50 words; topic number and indication of the preference for dialogue or lecture presentation must be clearly mentioned;
- key diagrams;
- a references list.

The synopses will be submitted using the host of the conference on internet. A link to the site is available from <http://www.epe2005.com> a link from <http://www.epe-association.org> is available as well. Detailed information and guidelines can be downloaded from the site to help you preparing the needed material for submitting a synopsis. The site will be open for upload from 1 September 2004 onwards. One paper copy indicating the paper identification code, to be received with the confirmation of upload, will be sent to the scientific secretariat for control.

EPE Association, c/o VUB-TW-ETEC, Pleinlaan 2, B-1050 Brussels, Belgium

Authors of papers provisionally selected for presentation will receive a notification and can download the instructions for preparing the dialogue papers and/or the lecture papers from the internet site. Final selection will be based on the full paper. The paper will only be included in the Conference Proceedings after receipt of one full registration fee per paper in due terms. Student registration fee is only valid for student participants, not for authors. One single author may not present more than two (2) papers. In that case, the fee to present the two papers will be 150% of the registration fee.

A selection of outstanding conference papers will be published afterwards in the EPE Journal.

Deadlines

Intending authors should note the following deadlines:

Receipt of synopses	1 November 2004
Notification of provisional acceptance	20 February 2005
Receipt of full typescript for final review	1 May 2005

Working Language

The working language of the conference is English, which will be used for all printed material, presentations and discussion.

Programme and Registration

A provisional programme and registration form will be published a few months before the conference, and sent to all who submitted a synopsis – all authors & co-authors who completed their data sheet – and to all who requested a copy at the EPE secretariat by sending an e-mail with their coordinates to: epe-association@vub.ac.be. Additional information: <http://www.epe2005.com>

Exhibition

There will be an exhibition integrated in the conference. If you would like to know more details please refer to <http://www.epe2005.com> or contact us via e-mail: dmeissner@intercom-dresden.de or epe-association@vub.ac.be

Venue

The name of Dresden is synonymous with art and culture. The Saxon capital offers cultural and art treasures of European rank, world-famous art collections, but also a lively theatre and music scene. Architectural jewels blend into a charming natural landscape.

The fine and applied arts look back over long traditions of extraordinary quality. The rich variety of cultural activities characterises the proud and creative atmosphere in Dresden and is an essential component of the high quality of life in the city.

The 800 years old baroque town at the river Elbe and its surrounding is offering a wide variety of different sights e.g. the splendid Zwinger, the majestic Palace, the Dresden Cathedral, the Semper opera House, the castles of Moritzburg, Meißen and Pillnitz or the Porcelain Manufactory in Meißen.

Secretariat

EPE secretariat

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Most recent and additional information:

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

The conference : <http://www.epe2005.com>

Also Hotel reservation and a survey of tourism possibilities are offered using the EPE 2005 homepage: <http://www.epe2005.com>

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