

EPE Newsletter February 2011

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11-12 April 2011, Delft University of Technology, The Netherlands
Deadline for submissions: 15 March 2011**

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1. EPE Joint Wind Energy and T&D Chapters Seminar, The Norwegian University of Science and Technology, NTNU, Trondheim, Norway, 9, 10 and 11 May 2011

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List of topics

1. Wind Energy Conversion Technologies
2. Control of wind power plants and their transmission solutions
3. Protection in wind power plants and transmission solutions
4. Grid connection and compliance of wind power
5. Reliability of the Electrical Parts of Wind Energy Systems
6. T&D power electronics (non-wind power related)
7. Energy storage for wind power integration
8. Future Trends of Wind Energy Conversion and Power Electronic Applications

More information:

<http://www.epe-association.org> - (under “conferences” check “Wind and T&D ‘11”)

**2. Building Integrated PV Systems International workshop
11-12 April 2011, Delft University of Technology, The Netherlands**

Deadline for submissions: 15 March 2011

Scope

New solar cell materials, power electronic technologies and system architectures create challenges and opportunities related to distributed PV integration. Among the most promising is the development of building integrated PV systems. Not only does distributed PV integration present a new market with tremendous growth opportunities, but it also requires new system solutions.

The theme of the workshop is the system integration of PV components in order to come to innovative, cost effective and highly efficient systems. The goal is that experts, researchers and students in the fields of PV modules, power electronic converters and system architectures learn from each other's fields and interactively discuss possibilities of achieving breakthroughs in system integration. To this end the program will have four parts:

- Tutorials to introduce the multidisciplinary issues affecting building integrated PV systems,
- Exchanging scientific results by means of poster sessions,
- A vision of future developments by invited experts,
- A panel discussion.

Call for Poster Abstracts

Poster contributions are invited. The topics include, but are not limited to:

- System architectures
- PV modules
- Power electronic topologies
- Maximum power point trackers

An abstract that reflects the content must be submitted online to epp@tudelft.nl **no later than 15 March 2011**

More information:

<http://www.epe-association.org> - (under “conferences” check “Photovoltaics ‘11”)
or <http://ewi.tudelft.nl/bipy>

3. ECPE Image film “Power Electronics – The key to Energy Efficiency”

It took longer than expected, but now, the power electronics image film is available. Thanks to its members and sponsors, ECPE has produced an image film covering four modules:

1. The role of Power Electronics
2. Technology drivers in Power Electronics
3. Power Electronics for Energy Efficiency
4. Power Electronics for Renewable Energies

The modules can be played separately or in series. The idea is to promote the importance of power electronics as a key and enabling technology to a broader public. To create awareness for our field, it is important to present power electronics as modern discipline with a bright perspective in future development. The main target group are students to promote engineering studies.

The film can be seen at:

http://www.ecpe.org/news/imagefilm_e.php

DVD's are available upon request to

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4. PhD/Industrial courses related to power electronics in renewable energy systems at Aalborg University

Aalborg University is organizing for spring 2011 the following PhD/Industrial courses related to power electronics in renewable energy systems:

Industrial/Ph.D. Course in "[Power Electronics for Renewable Energy Systems - in theory and practice](#)" that will be held at Aalborg University, May 3-5 by Remus Teodorescu, Aalborg University, Marco Liserre Polytechnic of Bari and Pedro Rodriguez. This successful course is the foundation for any applications of grid connected converters with in depth analysis of topologies, current control, harmonics compensation, active damping, synchronization and control under unbalanced grid. The course is published in the book “Grid Converters for Photovoltaic and Wind Power Systems”, ISBN-10: 0-470-05751-3, Wiley 2011 which will be included in the course materials

Industrial/Ph.D. Course in "[Photovoltaics Power Systems - in theory and practice](#)" that will be held at Aalborg University, May 23-26 by Remus Teodorescu, Aalborg University, Vitezslav Benda, Technical University in Prague, Pedro Rodriguez, Technical University of Catalonia, Dezso Sera and Tamas Kerekes Aalborg University.

This course is covering 2 main topics that can be taken separate or together: Solar Cells and PV Plants (part 1) and PV Inverters and Grid Integration (part 2, also included in book “Grid Converters for Photovoltaic and Wind Power Systems”, ISBN-10: 0-470-05751-3, Wiley 2011 included in the course materials).

Industrial/Ph.D. Course in "**MicroGrids - in theory and practice**" that will be held at Aalborg University, May 17-19 by Remus Teodorescu and Tamas Kerekes, Aalborg University, Josep Guerrero and Juan C. Vasquez Technical University of Catalonia. This course is analysis control of converters for both dc and ac microgrids. Power system stability and hierarchical control are also covered.

For more information and registration for all courses please visit <http://www.et.aau.dk/events/>. All three courses will provide hands-on experience in the Green Power Laboratory with 10 experimental setups controlled by dSpace where around half of the course time will be spent on practical control design and experimentation of converters.

5. Technically sponsored conferences

Building Integrated PV Systems International workshop
11-12 April 2011, Delft University of Technology, The Netherlands

Deadline for submissions: 15 March 2011
<http://www.epe-association.org> - (under “conferences” check “Photovoltaics ‘11”)
 or <http://ewi.tudelft.nl/bipv>

EPE Joint Wind Energy and T&D Chapters Seminar, 9, 10 and 11 May 2011, , Trondheim, Norway

<http://www.epe-association.org> - (under “conferences” check “Wind and T&D ‘11”

ICPE’2011-ECCE Asia, IEEE 8th International Conference on Power Electronics, 30 May to 3 June 2011, Jeju, Korea

<http://www.icpe2011.org>

Electrimacs 2011, 6-8 June 2011, Paris, France
10th International Conference on Modeling and Simulation of Electric Machines Converters and Systems

<http://www.u-cergy.fr/electrimacs2011>

LDIA 2011, The 8th International Symposium on Linear Drives for Industry Applications, 3-6 July 2011, Eindhoven, The Netherlands

<http://www.ldia2011.com>

EPE 2011: Birmingham, 30 August to 2 September 2011

<http://www.epe2011.com>

ECCE-USA IEEE Energy Conversion Congress and Exposition

18-22 September 2011, Phoenix, USA

<http://www.ecce2011.org/>

6. ECPE Calendar of Events 2011

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

Date	Location	Event	Topic
21 - 22 March 2011	Valencia, Spain	ECPE Workshop	Power Electronics for Charging Electric Vehicles Technical Chairman: Prof. E. Dede (Univ. of Valencia)
6 - 7 April 2011	Paris, France	Conference	APE 2011 4th International Conference and Exhibition Automotive Power Electronics
3-4 May 2011	Hannover, Germany	ECPE Workshop	eDrives: Interaction of Electrical Motors and the related Power Electronics Techn. Chairmen: Prof. A. Mertens, Prof. B. Ponick (Univ. of Hannover)
17 - 19 May	Nuremberg,	Conference and	PCIM Europe 2011 with ECPE Round Table (Conference),

2011	Germany	Exhibition	and ECPE Joint Stand (Exhibition)
31 May – 1 June 2011	Lyon, France	ECPE Tutorial	Power Electronics Packaging Course Instruct.: Prof. B. Allard (INSA Lyon), Dr. U. Scheuermann (Semikron), Dr. J. Popovic (TU Delft)
9-10 June 2011	Aalborg, Denmark	ECPE Tutorial	Reliability of Power Electronic Systems Course Instructor: Prof. E. Wolfgang (ECPE), P. Rimmen (Danfoss)
29-30 June 2011	Munich Germany	ECPE Workshop	Gate Drivers, Sensors & Control
June/July 2011	Cambridge, UK	ECPE Tutorial	Power Semiconductor Devices & Technologies Course Instructors: Prof. F. Udrea (Univ. of Cambridge), Prof. P. Mawby (Univ. of Warwick); Prof. D. Silber (Univ. of Bremen)
July 2011	Erlangen, Germany	ECPE Tutorial	Thermal Engineering of Power Electronic Systems – Part I (thermal design and verification) Course instructor: Dr. M. Maerz (Fraunhofer IISB)
30 Aug. - 1 Sept. 2011	Birmingham, UK	Conference	EPE 2011 14th European Conf. on Power Electronics and Applications
1 - 2 Sept. 2011	Birmingham, UK	ECPE Workshop	ECPE SiC and GaN User Forum
Oct. 2011	Dusseldorf (D)	ECPE Tutorial	EMC in Power Electronics Course Instructors: Dr. E. Hoene (Fraunhofer IZM) Prof. J.-L. Schanen (G2ELab)
9 - 13 Oct. 2011	Amsterdam, The Netherlands	Conference	INTELEC 2011 33rd Int. Telecommunications Energy Conf. with ECPE Session ‘Power density vs. energy efficiency in power supplies’
Oct. 2011	Nuremberg, Germany	ECPE Tutorial	Thermal Engineering of Power Electronic Systems - Part II (thermal management and reliability) Course Instructor: Prof. E. Wolfgang (ECPE)
Nov. 2011	TBD	ECPE Workshop	Robustness Validation in Power Electronics Techn. Chairman: Prof. E. Wolfgang (ECPE)