

# *EPE Newsletter October 2008*

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- **1. 2nd EPE Wind Energy Chapter Seminar, The Royal Institute of Technology, Stockholm, Sweden, 23 and 24 April 2009, Call for papers – Deadline 14 November**

## List of topics

### 1. Wind Energy Conversion Technologies

- 1.a. Permanent magnet generators for large turbines (also offshore)
- 1.b. MW-class wind generator-converter technology (also offshore applications)
- 1.c. MW low-speed generator solutions
- 1.d. Small wind turbine systems for standalone and grid-connected applications
- 1.e. Geared and gear-less solutions for wind energy conversion. Gear-box issues.

### 2. Grid Compliance and wind power technology

- 2.a. Interconnection standards for distribution and transmission levels
- 2.b. Interconnections issues for wind turbines
- 2.c. Grid Interface: Grid connection for large wind farms. Reactive power/Voltage control
- 2.d. Ride Through Standards and Technical Solutions for Offshore Wind Farms
- 2.e. Ride-through capability of wind turbines with power electronic systems
- 2.f. Certification of Low Voltage Ride Through LVRT
- 2.g. Laboratory tests of LVRT
- 2.h. Stability analyses: small signal stability, transient stability, stability margin
- 2.i. Frequency control, active power control, runback schemes
- 2.j. Standardisation of simulation models for stability studies
- 2.k. Grid synchronization under grid disturbances
- 2.l. Active and reactive power control issues during grid disturbances

### 3. Energy storage technologies

- 3.a. Short term: flywheel, super capacitors, batteries
- 3.b. Long term: pumped storage, dispatchable generation
- 3.c. Other storage

### 4. Wind System Coordination

- 4.a. Wind Farm Control

- 4.b. Real time information exchange required for harmonious operation of wind farms
- 4.c. Planning and configuration of wind farm power systems
- 4.d. Operation and control of doubly fed induction generator systems for wind turbines
- 4.e. Coordination between power electronic conversion characteristics and standard protection equipment characteristics
- 4.f. Fault monitoring and predictive maintenance of power electronic based wind turbine systems

#### 5. Power electronics for integration and control of wind turbines in power systems

- 5.a. Power electronic interface including control for permanent-magnet and field excited synchronous generators
- 5.b. Topologies of Power Electronics Converters for wind turbines
- 5.c. Modelling and simulation of power electronic systems with wind turbines and wind farms
- 5.d. Protection of power electronic systems for wind turbines
- 5.e. Control of power converters for future dispersed generators with high degree of wind integration
- 5.f. Dedicated HVDC for wind power transmission

#### 6. Future trends of wind energy conversion and power electronic applications

- 6.a. Reinforcement of power system for tapping wind power: FACTS, FACDS
- 6.b. Offshore wind turbines: floating and fixed
- 6.c. Power collection and integration of offshore wind farms

Presentations from companies supplying wind turbines, wind turbine equipment, developers, utilities, etc.. are most welcome.

#### **Presentation of papers**

Contributions to the EPE Wind Energy Chapter must be presented either as a lecture presentation or as a dialogue presentation. As the aim of the seminar is orientated towards exchange of practical experience and discussion of the latest development, there will be no formal proceedings publication. Contributions to the seminar will be made available to the participants on the EPE Website with a password after the seminar.

Lecture presentations will be 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. Contributions for dialogue presentation will be selected on basis of potential for detailed discussion and networking.

Lecture papers will be presented in Power Point or pdf format, Dialogue papers will be presented as posters in pdf format.

#### **Content of synopses**

Authors intending to present a contribution to the EPE Wind Energy Chapter must submit a proposal that will be evaluated by the EPE Wind Energy Chapter Advisory Board.

The proposal should consist of one of the followings:

- A Power Point/pdf presentation to be presented as such during the seminar;
- A poster project to be presented as such during the seminar;
- A one page synopsis presenting the main lines of the proposed contribution that will be either a Power Point/pdf presentation or a poster;

The proposal will include full coordinates of the contact author, the topic number and indication of the preference for dialogue or lecture presentation.

#### **The synopses will be submitted electronically to phamache@vub.ac.be.**

A selection of the best conference papers will be published afterwards in the EPE Journal, which is an ISI registered journal.

Best papers will be selected for presentation at EPE 2009.

Proceedings of the seminar will be available to the participants on the EPE Website with a password after the seminar.

## Deadlines

Intending authors should note the following deadlines:

Receipt of synopses	14 November 2008
Notification of provisional acceptance	February 2009
Receipt of full typescript IEEEExplore ready, ppt or pdf presentation	on-site

### EPE secretariat

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## ➤ 2. EPE 2009: 8-10 September 2009 Barcelona, Spain – Call for papers –

**Deadline for synopses: 3 November 2008**

<http://www.epe2009.com>

## ➤ 3. 8th International Symposium on Advanced Electromechanical Motion Systems - ELECTROMOTION 2009 - EPE Chapter “Electric Drives” Joint Symposium - July 1 – 3, 2009 - Lille, France

**Announcement and Call for Papers**

[www.electromotion2009.fr](http://www.electromotion2009.fr)

### DEADLINES

- Receipt of full papers : **December 15, 2008**
- Acceptance notification : **January 31, 2009**
- Receipt of registration fees and final papers : **March 15, 2009**

**Information:** [www.electromotion2009.fr](http://www.electromotion2009.fr)

## ➤ 4. 3rd European Symposium on Supercapacitors and Applications (ESSCAP'08), 6-7 November 2008, Roma, Italy – Registration open

**Contact:** Prof. Fabio Giulii Capponi, ESSCAP'08 General Chair  
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e-mail: [esscap08@uniroma1.it](mailto:esscap08@uniroma1.it)

web: <http://w3.uniroma1.it/esscap08>

## ➤ 5. Position as Postdoctoral Researcher in Distributed Generation open at Industrial Electrical Engineering and Automation, Lund University, Sweden

Industrial electrical engineering and automation (IEA, [www.iea.lth.se](http://www.iea.lth.se)) is a division at the Faculty of Engineering, LTH at Lund University. IEA is responsible for all research and education in electric power engineering at LTH, but also gives courses in automation. Power engineering research areas are electric power systems and electrical drives. The main aim is a sustainable society with a reliable electricity supply and energy efficient transports. Key topics in power systems research are island operation of distributed generation, distribution networks with large amounts of cable and vulnerability analysis of technical infrastructures. The research on electrical drives is concerned with electro-hybrid vehicle drives and design of electrical machines based on new materials and production methods. The industrial collaboration is extensive.

IEA is participating in the EU demonstration project ADINE ([www.adine.fi](http://www.adine.fi)) on distributed generation. Our part concerns local voltage control of a microturbine interfaced with power electronics. Your principal task is to take an active part in this work including simulations, laboratory tests and the field tests that form the actual demonstrations in the project. Additionally we hope that you can become involved in other research projects as well as teaching as appropriate considering your interests.

You should have a PhD in power electronics with application to power systems. Experimental skills are important and it is an advantage if you are familiar with dSPACE or similar tools. Since you will work in an EU project, experience with European conditions for small-scale or renewable generation is appreciated. Good communication skills in speaking and writing are essential, and the same applies to your ability to work in a group.

Last day to apply is 28 October. For formal announcement and application instructions, see [www.lth.se/english/about\\_lth/vacant\\_positions](http://www.lth.se/english/about_lth/vacant_positions)

For further information please contact Associate Professor Olof Samuelsson, director of power systems research, IEA, +46-46-2227504, [Olof.Samuelsson@iea.lth.se](mailto:Olof.Samuelsson@iea.lth.se)

➤ **6. 3rd international conference APE: AUTOMOTIVE POWER ELECTRONICS  
March 25 & 26, 2009, in Paris**

With more than 200 international automotive experts coming from 12 countries in the last edition, APE conference is becoming a unique event in this field. A “must-be-there” meeting for those people who are responsible for automotive power electronics.

Power electronics is a key technology for the reduction of CO2 emissions by automobiles.. Only a global mobilization involving all levels of the supply chain, including leading research laboratories in this field and industrial suppliers,, will result in significant and lasting progress. This specific approach of APE has been recognized by the community to be efficient and very attractive

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[http://www.sia.fr/evenement\\_detail\\_automotive\\_power\\_electronics\\_welcome\\_969.htm](http://www.sia.fr/evenement_detail_automotive_power_electronics_welcome_969.htm)

➤ **7. Position for a research engineer for 18-months project at Université Catholique de Louvain (UCL)**

The department of Electrical Engineering wants to take an electrical engineer on as a research engineer for an eighteen months project made in cooperation with ALSTOM Belgium, Cherokee International and the University of Brussels (ULB). The project deals with digital control of DC-DC power electronic converters (eventually with an intermediary AC stage). The main goal of the project are the improvement of the transient behaviour and of the efficiency of the converters. Position is accessible to a post doc student.

Candidature must be sent by mail to Professeur J.-D Legat : [jean-didier.legat@uclouvain.be](mailto:jean-didier.legat@uclouvain.be) or to Professor F.

Labrique: [francis.labrique@uclouvain.be](mailto:francis.labrique@uclouvain.be)

➤ **8. EVS-24, Stavanger, 13-16 May 2009, Call for papers – Deadline 1 November 2008**

The 24th International, Battery, Hybrid and Fuel Cell, Electric Vehicle, Symposium and Exhibition

**Call for Papers:**

EVS-24 will be composed of different activities organised around four major axes:

- the symposium, where experts from all around the world will share their scientific, technical or social experience by presenting their papers either at lecture or dialogue sessions
- the exhibition, which is the world’s largest display of products for electric based transportation produced by vehicles manufacturers, component suppliers, infrastructure developers and related service suppliers
- demonstration and Ride & Drive to offer the opportunity to test the vehicles in real conditions

- vehicle race Oslo- Stavanger, coinciding with and in collaboration with the opening of HyNor, the Hydrogen Norway road

## Topics

While the main focus in clearly road transport EVS now open its scope to rail, marine and air transportation. There is indeed, for most of the dedicated topics, a clear parallelism between researches make for all types of electrically propelled vehicles whatever their applicationfield.

- A- Vehicles
- B- Subsystems
- C- Energy supply and infrastructure
- D- Environnement
- E- Market issues
- F- Policy issues
- G – Global approach

## Deadlines

- Receipt of the abstracts: November 1, 2008
- Notification of provisional acceptance: *January 31, 2009*
- Receipt of full paper: *March 30, 2009*
- Notification of final acceptance: *April 15, 2009*
- Deadline for registration of first author: *April 15, 2009*

**Information:** [www.evs24.org](http://www.evs24.org)

## ➤ 9. 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](mailto:bsnevers@vub.ac.be) (pdf file, without any mention of authors, full coordinates in the mail message)

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

## ➤ 10. Technically sponsored conferences

### 3rd European Symposium on Supercapacitors and Applications (ESSCAP'08)

6-7 November 2008, Roma, Italy

#### Contact:

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University of Roma "La Sapienza"  
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web: <http://w3.uniroma1.it/esscap08>

### 3rd International Renewable Energy Storage Conference IRES III

24-25 November 2008, Berlin, Germany

The programme with the oral presentations is finalised and you may have a look at it on the web page

[http://www.eurosolar.de/en/index.php?option=com\\_content&task=view&id=294&Itemid=83](http://www.eurosolar.de/en/index.php?option=com_content&task=view&id=294&Itemid=83)

Submission of poster presentations is still possible. If you are interested in presenting a poster during the conference, please send a single page abstract to [info@eurosolar.org](mailto:info@eurosolar.org) and the scientific committee will answer within short times.

### 3rd international conference APE AUTOMOTIVE POWER ELECTRONICS

25 & 26 March 2009, Paris

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### 2nd EPE Wind Energy Seminar

The Royal Institute of Technology

23-24 April 2009

Stockholm , Sweden

<http://etec.vub.ac.be/EPE/03-EPE-WE-Seminar-2009.htm>

EVS-24, Stavanger, 13-16 May 2009

Information: [www.evs24.org](http://www.evs24.org)

### ELECTROMOTION 2009

Lille, France

1-3July 2009

Information: [www.electromotion2009.fr](http://www.electromotion2009.fr)

**September 8-10, 2009 Barcelona, Spain**  
**EPE 2009**  
**Call for papers**  
**Deadline for receipt of synopses: 3 November 2008**  
<http://www.epe2009.com>

➤ **11. ECPE Calendar of Events 2008**

Full programmes are available from [http://www.ecpe.org/education/seminars\\_e.php](http://www.ecpe.org/education/seminars_e.php)

<b>Date</b>	<b>Location</b>	<b>Event</b>	<b>Topic</b>
20 – 21 November 2008	TBD	ECPE Workshop	<b>Advanced Cooling Techniques</b> (1 <sup>st</sup> day) Techn. Chairman: Prof. E. Wolfgang (ECPE) <b>Power PCBs and Busbars</b> (2 <sup>nd</sup> day) Techn. Chairman: NN
4 - 5 Dec. 2008	Nuremberg (D)	ECPE Tutorial	<b>Power Semiconductor Devices &amp; Technologies</b> Course instructor: Prof. D. Silber (Univ. Bremen)
12 Dec. 2008	Zurich (CH)	ETH Workshop	<b>Megawatt Power Electronics and Smart Grids</b> ETH Zurich, Prof. J.W. Kolar; Dr. J. Biela

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