

# INTERNATIONAL CONFERENCE ON RENEWABLE ENERGIES AND POWER QUALITY (ICREPQ'12)

## CALL FOR PAPERS

28, 29, 30 of March, 2012

Santiago de Compostela (Spain)

Galicia's Conference and Exhibition Centre



### ORGANISED BY:

- European Association for the Development of Renewable Energies, Environment and Power Quality (EA4EPQ)
- University of Vigo
- University of Santiago de Compostela



### CONFERENCE LANGUAGE

The Conference language is English. All papers and presentations should be made in English.

### OBJETIVES AND TOPICS

The intention of the organizers is to give an opportunity to academics, scientists, engineers, manufacturers and users from all over the world to come together in a pleasant location to discuss recent development in the areas of Renewable Energies and Power Quality.

#### 1. RENEWABLE ENERGY:

##### Topics include, but are not limited to:

- Wind Energy, Small Hydro Energy, Solar Energy, Photovoltaic Energy, Ocean Energy, Geothermal, Biomass, Cogeneration,...
- Classical and special electrical generators: Theory, design, analysis, losses, efficiency, heating and cooling, vibration and noise, modelling and simulation, control strategies, protection systems, maintenance, mechanical behaviour, new methods of testing, parallel operation, transmission system, stability,...
- Power plants. Distributed generation. Fuel cells. Co-generation. Hybrid Systems. Microgrids. Smart grids. Original solutions,...
- Energy conversion, conservation and energy efficiency.
- Energy saving policy. Energy storage. Batteries,...
- Energy and the environment. Ecological balance. Ecosystem,...
- Application of the renewable energy. Best practice projects.
- Legislation in the area of renewable energies.
- Biomass combustion techniques. The energy use of agricultural and forest residues. Production and the energy exploitation of biogas. Environment. Social importance...
- Interconnection and transport problems.
- Planning and control of the power system take into account the renewable energy. Stability. Protection...
- Economic analysis of the power system take into account the renewable energy.
- Electricity Market Structures. Regulation/des-regulation of the power market. Influence of the renewable energy.
- Models and simulation of the power systems. Models and estimation of loads. Software tools.
- Application of the telecommunications, internet, artificial intelligence for the renewable energy.
- Security assessment and risk analysis in renewable energy.
- Electric vehicles.
- Electrical Machines & Drives. Power electronics. Control strategies.
- Monitoring and Diagnostics of electrical machines & drives. Tools for Diagnostics. Test for Predictive Maintenance...
- Sensors and actuators.
- Renewable Energies Teaching.

#### 2. POWER QUALITY: Topics include, but are not limited to:

- Electromagnetic compatibility (EMC).
- Power Quality in Transport and Distribution.
- Economic Studies of the Power Quality.
- Low-frequency conducted disturbances: Voltage deviations, voltage fluctuations/flicker, voltage dips and short interruptions, harmonics and inter-harmonics, transient over-voltages, voltage unbalance (imbalance), temporary power-frequency variations.
- Sources, effects and mitigation methods of the disturbances.
- Measurements of the power quality in networks, industrial installations and Laboratories. Equipment, procedures and measurement methods. Standards.
- Modelling and simulation of the power quality. Software tools.
- Transmission of the disturbances.
- Filtering techniques.
- Power factor compensation. Capacitor switching techniques.
- Optimization techniques.
- Telecommunication, internet and artificial intelligence.
- Permanent monitoring techniques and online diagnosis.
- Intelligent energy delivery systems. Uninterrupted power supplies.
- Expert systems applications.
- Devices, equipment and power systems. Control centres.
- Specific problems and studies cases.
- Power quality influence in deregulated markets.
- High frequency disturbances (radiated).
- Data security and electromagnetic pulses.
- Protection against natural and intentional EMI.

#### IMPORTANT DEADLINES:

- **Submissions due: October 30, 2011 (\*)**
  - **Notification of acceptance: November 30, 2011**
  - **Registration, full payment and final paper due: January 20, 2012**
- (\*) Submit your extended summary of a minimum of two A4 double columns pages and a maximum of four, or one provisional full paper of 5 or 6 pages, in Adobe Acrobat (.pdf), with the title of the paper, authors, your complete contact information and electronic address, five key words, interest of the work, objectives, main contributions and the four most important references at: [donsion@uvigo.es](mailto:donsion@uvigo.es). Every paper will be evaluated (peer review) by the International Scientific Committee members. Every presented paper will be included in the Renewable Energy & Power Quality Journal (RE&PQJ) with International Standard Serial Number.

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## STRUCTURE. The ICREPQ'12 will be structured in:

- **Plenary Sessions:** in one room for all the participants.
- **Oral Sessions:** Renewable Energy and Power Quality topics
- **Posters Sessions:** In 45-minute periods.

## SOCIAL EVENTS

- **Civic Reception:** 28<sup>th</sup> of March
- **Conference Dinner:** 29<sup>th</sup> of March

**VENUE.** The International Conference on Renewable Energies and Power Quality (ICREPQ'12) will be held at the Galicia's Conference and Exhibition Centre. [www.palaciosantiago.com](http://www.palaciosantiago.com)

## REGISTRATION

The conference registration fee for all the participants covers full attendance at the conference, the presentation of one paper, documentation of the conference, the lunches during the three days, the coffee breaks, the Civic Reception and the Cultural Visit. The registration for guests accompanying conference participants includes the same that for the other participants but not cover the documentation of the conference.

CONCEPT	Before January, 20, 2012 (*)	After January, 20, 2012 (*)
Authors/Participants	€ 450	€ 510
PhD Students (**)	€ 390	€ 440
Second paper	€ 140	€ 180
Third paper	€ 100	€ 120
Accompanying Conf. Participants	€ 380	€ 430
Conference Dinner (Optional)	€ 65	€ 75

**Registration fee** =(\*)Euros, the date is just the moment when the appropriate credit card information, or a bank transfer, is received. We consider to all the participants like a Temporary Members of the EA4EPQ Association, Agreement of EA4EPQ General Meeting of March 12<sup>th</sup>, 2009, and then in accordance with the Law 37/1992 and the Royal Decree 1624/1992, Ministry of Finance letter of 7 May 2003 for EA4EPQ members, they do not pay taxes

(\*\*)For students it is necessary provide, at the ICREPQ'12 Secretariat a Faculty or Department document that justify the student condition.

**IMPORTANT:** Please send to the International Secretariat the Registration Form with the correct information for make the invoice: name, company, address, VAT number (or passport number) and if you make a bank transfer, please fill up the sheet putting always your name and the reference(s) of your paper(s). For payment by credit card, you can use also the Agreement of Payment Form that appear in the web: [www.icrepq.com/registration.htm](http://www.icrepq.com/registration.htm)

Please put the reference of your paper(s) in all the correspondence.

**Payment:** By credit card or transferring the registration fees to the bank account of the EA4EPQ Association. Reference: AEDERMACP, Account Number: 2080 0142 9000 4000 3298; IBAN ES32 2080 0142 9000 4000 3298. SWIFT CODE: CAVIES2V. Name of the bank: NOVACAIXAGALICIA, C/Sanxenxo, s/n, 36209 VIGO (Spain).

**Cancellation.** Cancellation refunds, minus handling and administration costs of 10%, will be made by bank transfer for written cancellations received by the International Secretariat prior to February, 5, 2012. No refunds will be made for cancellations after this date, but the documentation of the conference will be mailed.

**Name badge.** An admission badge will be provided to each participant. This badge entitles access to the technical sessions and should be worn through the conference.

For economic questions use the address: [icrepq@icrepq.com](mailto:icrepq@icrepq.com)

## INTERNATIONAL SECRETARIAT

The International Secretariat of ICREPQ'12, for send the digests, full papers, and for all concerning with authors and their works, is:

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## LOCAL SECRETARIAT

The Local Secretariat of ICREPQ'12 is:  
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