

# INTERNATIONAL CONFERENCE ON RENEWABLE ENERGIES AND POWER QUALITY (ICREPQ'10)

## CALL FOR PAPERS

23, 24, 25 of March, 2010

University of Granada  
Granada - Spain



### ORGANISED BY:

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



### 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. 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.
- Power electronics. Control strategies.
- 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.
- Data security and electromagnetic pulses.
- Protection against natural and intentional EMI.

#### IMPORTANT DEADLINES:

- **Submissions due: October 30, 2009 (\*)**
  - **Notification of acceptance: November 30, 2009**
  - **Registration, full payment and final paper due: January 20, 2010**
- (\*) Submit your digests of a minimum of two A4 double columns pages, in Adobe Acrobat (.pdf) or MS Word (.doc), 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: [icrepq@icrepq.com](mailto:icrepq@icrepq.com), or [icrepq@uvigo.es](mailto:icrepq@uvigo.es) (please use only one electronic address for send us your messages). All the papers will be evaluated by the International Program Committee.

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Debora Coll-Mayor  
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Mariano Sanz-Badía

## STRUCTURE

The ICREPQ'10 will be structured in:

- **Plenary Sessions:** in one room for all the participants.
- **Oral Sessions:** Renewable Energy and Power Quality topics, simultaneously in two rooms
- **Posters Sessions:** In 45-minute periods during the coffee breaks.

## SOCIAL EVENTS

- **Civic Reception:** 23<sup>th</sup> of March
- **Conference Dinner:** 24<sup>th</sup> of March

**VENUE.** The International Conference on Renewable Energies and Power Quality (ICREPQ'10) will be held at the University of Granada (ETSI Caminos, Canales y Puertos), Spain.

## 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 visit to Alhambra.

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, 2010 (*)	After January, 20, 2010 (*)
Authors/Participants	€440	€500
PhD Students (**)	€380	€430
Second paper	€130	€170
Third paper	€90	€110
Accompanying Conf. Participants	€360	€410
Conference Dinner (Optional)	€65	€75

**Registration fee** = (\*) Euros. We consider to all the participants like 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, you do not pay taxes.

(\*\*) For students it is necessary provide, at the ICREPQ'10 Secretariat in Granada, a Faculty or Department Certificate.

**Important:** Please send to the International Secretariat the correct information for to prepare the invoice: name, company, address, VAT number (or passport number) and fill up the sheet of your bank transfer with your name and the reference of your paper(s). Please write the reference of the paper(s) in all the correspondence. This is very important for us.

Note: We'll not carry out modifications on the invoices after the conference.

**Payment:** by transferring the registration fees to the bank account of the EA4EPQ Association. Reference: AEDERMACP, COUNT NUMBER: 2080 0142 9000 4000 3298; IBAN ES32 2080 0142 9000 4000 3298. SWIFT CODE: CAVIES2V. Name of the bank: CAIXANOVA, C/Sanxenxo, s/n, 36209 VIGO (Spain), Phone N°. +34986213681.

**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, 2010. 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.

## INTERNATIONAL SECRETARIAT

The International Secretariat of the ICREPQ'10, for send the digests, full papers, registration, invoices and for all concerning with authors and their works, etc. will be:

ICREPQ  
Electrical Engineering Department  
Vigo University  
ETS de Ingenieros Industriales  
Campus of Lagoas-Marcosende  
36310 VIGO (Spain)  
Phone number /Fax . +34 986812685  
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## LOCAL SECRETARIAT

The Local Secretariat of the ICREPQ'10, will be:  
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