European Association for the Development of Renewable Energies, Environment and Power Quality

# ICREPQ'16 SPECIAL SESSION

Dear Colleague,

The Steering Committee, the Local Organizing Committee and the Responsible People (Chairmen) of the Special Sessions are glad to invite you to the next "***International Conference on Renewable Energies and Power Quality (ICREPQ'16)***", which will be held in the Universidad Pontificia de Comillas (ICAI-ICADE). Madrid (Spain) from 4 to 6 of May, 2016.

DEADLINE. Submissions due: October 30, 2015.
WEB SITE: http://www.icrepq.com

We strongly encourage you to submit papers(*) for the special session of the ICREPQ'16:

## 17.- Renewable energies for developing countries

Effective and sustainable energy-planning policies are needed in developing countries in order to stimulate investment in power-plant modernization and in rationale energy usage. In many of these countries, importing fuels is a major drain on foreign exchange reserves. Besides environmental issues further increase the complexity of energy decision making. These factors make defining effective and sustainable energy planning policies for developing countries very complex.
Developing nations can count on a variety of potential renewable electrical energy sources, including solar, hydroelectric, people-powered, geothermal, and wind. To maintain availability of electricity, backup batteries are often used. Cost remains a major factor in obtaining affordable power sources. But frequently power sources are undersized, battery and charging system are often misused and fail, and there is a lack of standard and convenient interfaces for switching among various power sources based on capacity and demand.

Topics of interest for this special session include, but are not limited to:

- Reliable and cost effective low power (0.1 to 1 kW) stand-alone power-generation systems
- Low/medium power generation (1-5 kW) with multiple generation and storage capabilities
- New technologies for cogeneration and micro-power generation
- Solar kiosks for battery charging
- Technological solutions for load interfaces and system management
- New solutions aimed at improving energy efficiency
- Local training programs to support and promote initiatives in reliable electricity
- Energy storage technologies and devices
- New energy materials and apparatus
- Interfacing Problems of Renewable Energy

Responsible people and Chairman: **Prof. Dr. Vít BRŠLICA and Prof. Dr. Alfredo Vaccaro**

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The ICREPQ is an International Conference where specialists of industrial and academic world can discuss together in a pleasant location about recent developments and actual trends in the field of Renewable Energies and Power Quality. Within these areas, ICREPQ'16 has the aim to identify the most relevant applications evidencing main problems and strategies.

The list of all the Special Sessions selected for ICREPQ'16 and the chairmen are included in the following table:

| ICREPQ'16 SPECIAL SESSIONS | | |
|---|---|---|
| **No.** | **TITLE** | **CHAIRMEN** |
| 1 | Control and integration of wind energy systems | Mario J. Duran Martínez and Mohamed A. H. El-Sayed |
| 2 | Microgrids and Smart grids | Gevork B. Gharehpetian and Alfredo Vaccaro |
| 3 | Electric vehicles | Pere Andrada |
| 4 | Solar Technologies | Silvano Vergura and Gianpaolo Vitale |
| 5 | Applications of Multi-Level Converters and Inverters in Power Quality Improvement | P. N. Tekwani |
| 6 | Sustainable Energy Mix | Mohamed A.H. El-Sayed |
| 7 | Wind Turbines of the Future: Economics, Design & Operation | Hashem Oraee |
| 8 | Harmonics and Power Quality | András Dán and Dávid Raisz |
| 9 | Ecodesign, regulation standards and efficiency improvement of electric motors | Ramón Bargalló |
| 10 | Ocean Energy (Wave, tidal and offshore wind) | Ahmed Zobaa |
| 11 | Power Electronics for Renewable Energy Systems | Silvano Vergura and Gianpaolo Vitale |
| 12 | Net Zero Energy Building | Antonio Gagliano and Francesco Nocera |
| 13 | Economic, Financial and Social aspects of Renewable Energy Penetration | Mihail Predescu |
| 14 | Nanotechnology for Renewable Energy | Basma El Zein and Elhadj Dogheche |
| 15 | Low & High Temperature Fuel Cells | Etim Ubong |
| 16 | Power Quality and Renewable Energy | André Martinez and Shahrokh Saadate |
| 17 | Renewable energies for developing countries | Vít BRŠLICA and Alfredo Vaccaro |
| 18 | Strategic Energy Planning | Roberto Cesar Betini and Emilio Torrente Lujan |
| 19 | Model Predictive Control for Power Electronics Converters Dedicated to Renewable Energies systems | Kouzou Abdellah |
| 20 | Impacts of renewable energy for industrial development and sustainable economics | Amine Boudghene Stambouli and Samir Flazi |
| 21 | FACTS (SVC,STATCOM, UPFC, HVDC,...) | Manuel Pérez Donsión |

(*) The interested authors can send proposals of papers (digest of a minimum of two double columns pages), or preferable provisional full papers (from 4 to 6 double columns pages), for ICREPQ'16. The authors must fill up one sheet, that is on the web site, with their preferences about the presentation of the paper. If they prefer an oral presentation they must select the special session that they consider the most adequate for their paper presentation. The proposals of papers can be sent to: donsion@uvigo.es