

The IEEE International Conference on Harmonics and Quality of Power (ICHQP) is one of the premier international conferences in the field of power quality with 27 years of history. The conference strives to exchange research works of academic and industrial excellence and welcomes paper submission from researchers, practitioners and students worldwide.

[www.ichqp2012.org](http://www.ichqp2012.org)

**The Conference will feature special sessions and tutorials by world-leading experts. Its topics of interest cover all subjects in power quality, including but not limited to the following:**

#### **Power quality modeling and assessment**

Modeling of disturbance sources and propagations  
Computational and analytical techniques for PQ assessment  
Methods to study the impacts of EVs, CFLs, and other new loads  
Probabilistic aspects of power disturbance analysis

#### **Power disturbance measurement and monitoring**

Power quality troubleshooting techniques  
New techniques for disturbance sensing and diagnosis  
Hardware and algorithms for disturbance processing  
Improvements on power quality monitoring standards

#### **Technologies for power quality improvement**

Novel passive/active filters and disturbance compensators  
System-wide solutions for PQ disturbance mitigation  
Planning and operating strategies for PQ management  
Customer side disturbance mitigation initiatives

#### **Power quality economics and standards**

Financial impact of PQ disturbances on customers and utilities  
PQ cost assessment methodologies and results  
Developments in equipment immunity and emission standards  
Application of PQ standards and new industry practices

#### **Emerging topics in power quality research**

AMI and smart meter based power quality monitoring  
PQ challenges in renewable energy, DG and microgrid schemes  
Information extraction and transmission using disturbances  
Smart grid technologies for power quality management

#### **Organizing Committee:**

Conference Co-Chairs: **C.Y. Chung**  
**Wilsun Xu**  
Conference Vice Chairs: **Francis Fung**  
**P.K. Chan**  
Technical Program Chair: **Dario Zaninelli**  
Hon. Secretary: **William Chan**  
Hon. Treasurer: **Kevin Chan**  
Publicity Chair: **Edward Cheung**  
Sponsorship Chair: **William Yu**  
Webmaster: **Norbert Cheung**

#### **International Steering Committee:**

Yahia Baghzouz (Co-Chair), USA  
Dario Zaninelli (Co-Chair), Italy  
Reuben R. Burch, USA  
Maria Teresa Correia de Barros, Portugal  
Gary Chang, Taiwan  
Alexander Domijan, USA  
Alexander E. Emanuel, USA  
Thomas J. Gentile, USA  
W. Mack Grady, USA  
Erich Gunther, USA  
Mark Halpin, USA  
Sakis Meliopoulos, USA  
Bill Moncrief, USA  
Thomas Ortmeyer, USA  
Sarath Perera, Australia  
Josè Policarpo G. Abreu, Brazil  
Paulo Ribeiro, USA  
Alfredo Testa, Italy  
Rao Thallam, USA  
Wilsun Xu, Canada

**Hosted by:** IEEE HK Joint Chapter of PES/IAS/PELS/IES

**Technical co-sponsor:** IEEE Power & Energy Society

**Supported by:** Dept of EE, Hong Kong Polytechnic U.

The HKIE – Electrical Division

The Institution of Eng. and Tech. HK

#### **Important Dates**

Jan. 15, 2012: Submission of full papers for review

Mar. 31, 2012: Notification of acceptance of papers

May 15, 2012: Deadline for early bird registration

**The papers will be published in IEEE Xplore and EI indexed**