



A New Experiment with PEPQA 2013

One of the new ideas suggested by IEEE Industry Applications Society (IAS) President Blake Lloyd was to organize an Executive Board (EB) Meeting outside North America in conjunction with a conference or an important student event appreciating IAS Chapter development and young member activity. Although several EB meetings had already been held outside the United States, e.g., in Mexico City, Mexico (1982); Monselice, Italy (1995); Rome, Italy (1997, 2000); Hong Kong (2005); and Edmonton, Alberta, Canada (2008); most of them were in conjunction with a conference in the United States. This EB meeting was thought of as the first outside the United States as most of the Student Chapters were fewer than five years old and the current Chapters and Membership Department (CMD) has been serving for fewer than five years. Thus, the CMD and especially the Student Chapters strongly supported the idea and, in the end, 12 Chapters outside of North America had a competition to host the board meeting in conjunction with an event. **The winner of this competition was the Colombia Section, Universidad de los Andes Student Branch (SB) IAS Chapter, the main organizer of the 2013 Workshop on Power Electronics and Power Quality Applications (PEPQA).** The CMD was very pleased with this result because we consider

The IAS Chapters and Membership Development Department (CMD) has launched a new electronic newsletter. Visit <http://sites.ieee.org/ias-cmd/> and subscribe to keep up with the latest CMD developments.

South America, especially Colombia, the cradle of the SB IAS Chapters.

—Peter Magyar
CMD Chair

PEPQA 2013—A Successful Student Event

More than 200 participants, mostly from countries of the Andean

region, attended the 2013 Workshop on PEPQA in Bogotá, Colombia, held 6–7 July 2013. The event was sponsored by seven international and local organizations and technically cosponsored by the IAS. During the two-day workshop, 35 papers were presented in seven technical sessions. In addition, there were two tutorials and two hands-on



From left, IAS President Blake Lloyd, General Chair Mauricio Aredes (University of Rio de Janeiro), and General Cochair Gustavo Ramos (Universidad de los Andes) speak during the meeting.



A group of attendees at a plenary session.



Gustavo Ramos speaks at the opening ceremony.



Members of the Universidad de los Andes SB IAS Chapter and PEPQA's organizing committee gather on stage.



A certificate of appreciation is presented by IAS President Blake Lloyd to PEPQA's organizing committee.

sessions in power electronics by experts in the field.

PEPQA was organized by the Universidad de los Andes SB Chapter and was held in conjunction with the first IAS EB Meeting in South America. Bogotá was chosen by the IAS EB after the Universidad de los

Andes' IAS Student Chapter applied to host the meeting in Colombia.

The workshop provided a forum for students, academics, and industry professionals to collaborate on meeting the ever-increasing power electronics and power quality challenges in the country.

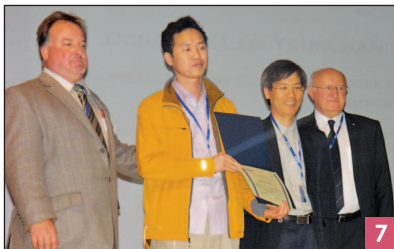
Participants had the opportunity to hear six keynote speeches from the IAS (Mark Halpin and Peter Sutherland), Eaton (David Durocher), National Instruments (Roberto Piacentini), the University of Rio de Janeiro (Mauricio Aredes), and the University of Toronto (George Anders). The keynotes covered



IAS President Blake Lloyd (left) and CMD Chair Peter Magyar (right) with Eduardo Cano (center), representative of the first author team of the two Best Student Paper Awards.



IAS EB members with Alexandra Moreno, Jorge Mario Garzon, and Miguel Hernandez, members of PEPQA's Organizing Committee.



IAS President Blake Lloyd (left) and CMD Chair Peter Magyar (right) with Jin Woo Ahn (second from right) and Dong-Hee Lee (second from left), representatives of the second author team of the two Best Paper Awards.



Attendees attentively listen to a presentation.

a range of topics, including 1) technologies for the future smart grids and distributed generation, 2) facility design considerations for improved power quality, 3) virtual instrumentation approaches for embedded electronic devices, 4) electrical arc-flash hazards, 5) effects of harmonics on protective relay operation, and 6) reducing energy intensity in the mining industry.

PEPQA also offered an exhibit hall where sponsors could share their services with participants during coffee breaks and lunch. With tutorials and hands-on demonstrations, attendees could learn about trend-setting technical equipment and strategies in industrial applications of power quality and power electronics. Participants also had the opportunity to discuss the current needs of the industry and application opportunities for existing developments with representatives from industry and academia.

A social and cultural event was held on the last day to end the workshop in a memorable way. A dancing group representing the Colombian culture



A cultural event was held at the end of the workshop.



Attendees of the IAS Chapters Workshop in the framework of PEPQA 2013.

performed, while participants shared experiences with members of the IAS EB. One of the highlights of PEPQA 2013 was the awards ceremony. The IAS presented a certificate of appreciation to the Organizing Committee of the workshop. In addition, the IAS CMD awarded two best paper awards and provided travel aid funds of US\$1,000 each for two student authors to attend the 2013 IAS Annual Meeting. The winning papers were:

- “A Modified Current Control Scheme of Permanent Magnet Synchronous Motor” by Dong-Hee Lee, Yunchang Kwak, and Jin-Woo Ahn (Kyungsoong University, Busan, Korea)
- “Harmonics Detection in Transformers by Entropy of Electromagnetic Signals Radiated” by Sebastian Valencia Ramírez, J.H. Estrada C.L. Cortes, and E.A.



IAS CMD Chair Peter Magyar gives a technical presentation at the IAS Chapters Workshop in the framework of PEPQA 2013.

Cano-Plata (Universidad Nacional de Colombia, Manizales, Colombia).

After PEPQA 2013, there was an IAS Chapters Workshop organized by the Universidad de los Andes SB IAS Chapter and IAS CMD. IAS Student Members from Bogotá’s universities attended this event, as well as IEEE Members interested in forming IAS Student Chapters at their universities.

Bruno Lequesne, IAS president 2011–2012, and CMD Chair Peter Magyar spoke about the benefits of IAS student membership and the student support programs of IAS CMD. Three members of the host Chapter, Alexandra Moreno Garzon, Maria Puentes Castilla, and Miguel Hernandez, reported about their experience as beneficiaries of these programs.

—Alexandra Moreno Garzon

—Jorge Mario Garzon

—Miguel Hernandez
IAS Student Branch
Chapter Chair

—Gustavo Ramos
IAS Student Branch Chapter
Advisor Organizing Committee
PEPQA 2013
IAS

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