

conference reports

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PAC conferences around the world

Protection, Automation and Control conferences around the world provide forums for discussions and exchanges of ideas that help the participants in resolving the challenges that our industry faces today.

CIGRE Study Committee B5 Annual Meeting and Colloquium 2009

The CIGRE Study Committee
B5 Annual Meeting and
Colloquium 2009 was held in
Jeju, South Korea,
19th to 24th October, 2009.



The CIGRE Study Committee B5 Annual Meeting and Colloquium 2009 was held in Jeju, Korea from Monday 19 October to Saturday 24 October 2009. Ten CIGRE SC B5 working groups held meetings on 18 and 19 October. Advisory groups met on 20 October and the Study Committee B5 meeting was held on 23 October.

The mission of the Study Committee B5 is to facilitate and promote the progress of engineering and the international exchange of information and knowledge in the field of protection and automation. The 2009 meeting and colloquium in Jeju provided a platform for the experts, scholars and engineers to exchange experience and share knowledge in three preferential subjects:

- Strategies for the lifetime maintenance of SAS systems
- Protection and control of FACTS devices and impact on protection systems
- Wide area monitoring, control and protection technologies

A tutorial on “*Experience in the protection of multi-circuit and multi-terminal lines and power transformers.*” was held on 21 October. The International Conference on Advanced Power System Automation and Protection (APAP2009) was jointly held with the SC B5 Colloquium 2009, which doubled the meaning of the gathering of experts.

The CIGRE Dinner was hosted by the Korea National Committee of CIGRE. A special small extra-event, Talented CIGRE

CIGRE Study
Committee
B5 Meeting.

(*musical entertainment*) was held during the meeting in Korea. Several participants volunteered and participated in this event with singing, playing musical instruments and dancing. On 24 October the technical visit to HVDC station of KEPCO was combined with a tour to scenic nearby attractions.

Jeju Island of Korea is world famous for its unique culture and well maintained natural features. This provided an excellent environment that made the CIGRE B5 meeting and colloquium a successful and enjoyable event that gave the participants from all over the world a good opportunity to work, share their experience in the presented papers and build close cooperation channels for solving future challenges. ■

Mark
Adamiak
performs at
the CIGRE
dinner



The event was jointly hosted by the KIEE and the KOEMA, and sponsored by the IEEE PES and its Seoul Chapter.



The Conference was held in Seoul, S.

Pictures by Christoph Brunner, Switzerland

Korea, on October 26 - 30, 2009.

IEEE T&D Asia Conference & Exposition 2009

THE IEEE T&D ASIA CONFERENCE AND EXPOSITION 2009 Seoul was held 26-30 October, 2009 in the COEX (Convention & Exhibition Center), located at KangNam downtown, Seoul, Korea. It was jointly hosted by the KIEE and the KOEMA, and sponsored by the IEEE PES and its Seoul Chapter.

The Conference/Exposition is the third in a continuing series of IEEE PES sponsored meetings dedicated to the presentation of new developments in the practical application of methods and technologies and the exhibition of advanced equipment for modern electrical power transmission and distribution systems.

The changes in the electric power industry caused by the increased interest in renewable energy resources and the challenges of their integration were some of the driving forces bringing together specialist from many countries to the T&D conference and exhibition. It provided a good opportunity to exchange the most advanced theories and technologies and to observe and discuss the state of art through the exhibition of most advanced power apparatus and facilities in electrical power transmission and distribution.

The exhibition hall.



The Conference/Exposition

is the third in a continuing series of IEEE PES sponsored meetings dedicated to new developments.

Over two hundred and fifty papers were presented in oral and paper sessions, while over two hundred companies participated in the exposition in a huge area of twelve thousand square meters. The conference program also included

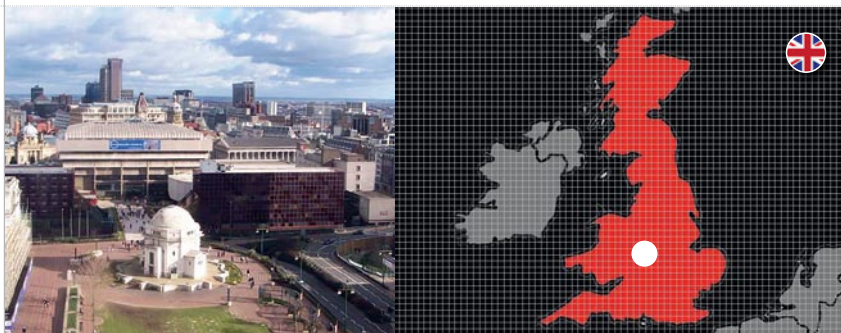
a Plenary Session and three special sessions on:

- Advanced data mining techniques for power system operation and planning
- Micro grid and power quality enhancement
- Power IT

The conference brought together academic and industrial experts allowing them to discuss the issues of common interest from their different points of view.

Social events and tours provided opportunities to the participants to experience the mix of rich history and advanced modern lifestyle of Seoul. ■

The conference venue.



Substation Technology 2009 Conference , Birmingham, UK

The Conference was held on November 3 - 4, 2009.

THE SUBSTATION TECHNOLOGY 2009 Conference was held in the Event Suite and Lecture Theatre at the Thinktank, Millennium Point, Birmingham, UK.

This was a two day event packed with informative sessions and interactive discussions, delivering an examination of power systems equipment and the techniques employed to increase intelligence, as well as reviewing the cost effective design options for substations and the IEC 61850 standards.

The conference provided the participants with a unique opportunity to discuss the technology employed in substation automation projects, as well as the design, management and construction of the modern sub-

station. It became a forum that allowed the manufacturers to get closer to the people that use their products. It helped the attendees learn from the examination of the latest developments in substations and the discussions of strategic issues of substation and power system automation programs and how to integrate different devices and equipment in order to improve the efficiency of the electric power system.

Some of the areas covered were: building and demonstrating the financial case for investment of new technologies; understanding substation automation projects; substation automation projects within a smart grid; impact of changing network functions; benefits from the integration of new technology; how technologies can ensure energy delivery; pro's and cons of IEC61850; European case studies from utility companies. ■

Paper session at the conference.

APSCOM 2009
focused on
distributed
generation and
its impact on
the industry.

The Conference was held in Hong Kong - November 8 - 11, 2009.

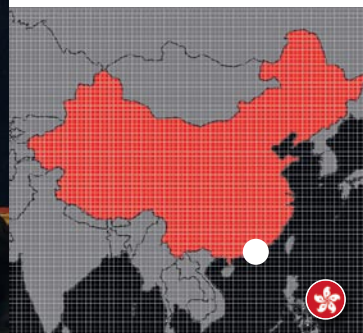
THE 8TH IET INTERNATIONAL Conference on Advances in Power System Control, Operation and Management (APSCOM) was organized by the Institute of Engineering and Technology, Hong Kong, Power & Energy Section and held 8-11 November 2009 in the Kowloon Shangri La Hotel, Hong Kong. The rich conference program was based on different forms of presentation and discussions of various subjects of interest to the electric power industry under the theme "Challenges and Solutions in

Birmingham, Milenium Point - the conference venue.



Poster session at APSCOM 2009

Hong Kong, China



APSCOM 2009 - 8th IET International Conference, Hong Kong

Electricity Supply Industry for Tomorrow."

The conference committee built the program around over one hundred and thirty quality papers finally accepted for oral or poster presentation from the submitted more than four hundred abstracts. The opening session started with a Welcome Address by Prof. Wong, Chairman of APSCOM 2009, followed by the opening speeches from Ms. Anissa Wong, Permanent Secretary for the Environment and Director of Environmental Protection, HKSAR Government and through video from Professor CM Snowden, President of the IET. The conference program included plenary, special, oral paper and poster sessions. The three plenary sessions covered topics related to distributed generation and its integration in the power grid, as well as different issues related to smart grids and dynamic security assessment.

The two special sessions focused on:

- The roles of distributed energy

The event provided a forum for sharing ideas and promoting innovations.

generation in the future smart grid

- Techniques, methods, practice and policy in distributed generation

Most of the submitted papers were presented in sixteen oral sessions covering a wide range of topics grouped in three main areas:

- Power System Management and Planning

- Power System Operation and Control

- Electric Power Market

Paper and special sessions were most of the time in parallel which allowed the presentation of more papers at the conference, but at the same time limited the possibility for conference attendees to get a better understanding of all ongoing activities in the electric power system. APSCOM 2009 provided a forum for professionals and specialists to share ideas, innovations and experiences to promote the reliable, efficient and sustainable development of the electricity supply industry. ■

*Kowloon
Shangri La
Hotel, the conference venue*

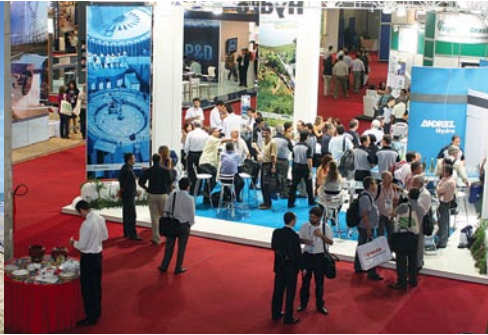


Hong Kong is one of the most densely populated cities in the world.



by Hyder DoCarmo, OMICRON electronics Corp. USA

XX SNPTEE - National Seminar on Generation & Transmission of Electric Power



The XX SNPTEE was held in Recife, Brazil 22 - 25 November, 2009.

THE XX SNPTEE, OR "SEMINÁRIO Nacional de Produção e Transmissão de Energia Elétrica" was held 22-25 November in Brazil, at Recife's Pernambuco Convention Center. Recife, one of the oldest cities in Brazil founded by the Portuguese in 1537, is located in the Northeastern region of the country and is also known as the Venice of Brazil. The city

and its people are vibrant and host some of the most famous carnivals in Brazil every year.

Sponsored by CIGRE-Brasil since 1971, the SNPTEE is a biannual event. The tenth edition brought together more than 1800 electric power industry professionals representing Brazilian utilities, equipment manufacturers, engineering companies, academia, and consultants. The event's focus is to promote information exchange and experiences among various study groups covering electricity generation and transmission, with the intent to improve quality of services, productivity and competition in the Brazilian electric utility industry. In its tenth edition in 2009, the SNPTEE was hosted by CHESF, or "Companhia Hidro Elétrica do São Francisco", one of the largest utilities in the country, and consisting of approximately 620 MW of generating capacity,

The exposition hall.

14 hydroelectric power plants, and in excess of 18,000 km of transmission lines at 69kV, 138kV, 230kV, and 500kV. Among the sessions covering all relevant topics of the power industry today, some hot topics were:

- PMU applications for monitoring the integrated national transmission system
- IEC 61850-based protection and automation systems applied to hydroelectric plants
- Harmonizing environmental concerns with the continued growth of the Brazilian electrical sector
- Large rotating machine online monitoring

The event also included a large exposition hall featuring booths and displays from the major Brazilian utilities, the national system operator ONS, equipment manufacturers, and other institutions supporting the electric industry. ■

Hyder DoCarmo has B.S. and M.S. in electrical engineering from Louisiana State University and Texas A&M University. He worked for Transocean Offshore Drilling, CenterPoint Energy, and for GE Multilin supporting utility and industrial protection applications. In 2008, Hyder joined OMICRON electronics as an Application Engineer. He is a Main Committee Member of the IEEE PSR Committee and is a registered Professional Engineer in the State of Texas.

The conference venue



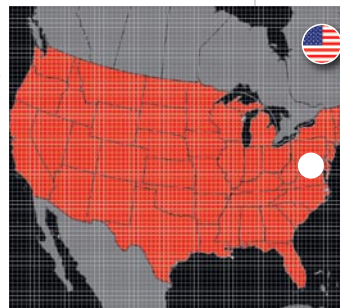
The conference banquet included performances with traditional Brazilian music and dance.

Sponsored by CIGRE - Brasil since 1971, the XX SNPTEE is the largest event dedicated to the electric industry in Brazil.

The event was held at NIST's facility in Gaithersburg, Maryland, 19 - 21 January, 2010.



The conference venue in Gaithersburg, Maryland, USA



The first Conference on Innovative Smart Grid Technologies was sponsored by the IEEE Power & Energy Society (PES) and hosted by the National Institute of Standards and Technology (NIST). The conference was technically co-sponsored by the IEEE Communications Society, the IEEE Computer Society, the IEEE Power Electronic Society, the IEEE Signal Processing Society and IEEE-USA.

The Conference included special sessions and tutorials by international experts on smart grid applications. The discussions of smart grid issues, technologies and applications were triggered by papers and presentations at panel and paper sessions that covered the following general topics with respect to smart grid applications:

- Power and Energy System Applications (*generation, transmission, distribution, markets, operations, and planning*)
- Cyber and Physical Security Systems (*intelligent monitoring and outage management*)
- Wide Area Protection, Com-

munication, and Control in Energy Systems

- Smart Sensors and Advanced Metering Infrastructure
- Energy Management Systems (*with applications to building and home automation*)
- Smart Grid Standards

Two tutorials were also organized to help participants to get a better understanding of the fundamental concepts of a smart grid.

The first was Smart Grid Boot Camp which introduced the basics

It was a forum for discussing the state-of-the-art innovations in smart grid technologies and offered practical applications and near-term solutions.

of Smart Grid, based on the NIST Smart Grid Framework. The tutorial covered all aspects of smart grid - from why implement smart grid now, to the key technologies.

The second was Lessons Learned in Smart Metering and targeted companies that are getting ready to roll out smart meters. It was based on the experience of more than thirty utilities from around the world that have installed more than 40 million new meters since 2000.

The more than seven hundred attendees, wide range of topics being presented and the lively discussions demonstrated the interest of the industry in smart grid technologies and their applications. ■

The Opening Session was moderated by Wanda Reder, IEEE.



The conference gave an opportunity to the attendees to discuss Smart Grid issues.

