



## 33<sup>rd</sup> International Telecommunications Energy Conference 9 - 13 October 2011



### INTELEC2011 — NEWSLETTER — JAN 2011

#### INTRODUCTION

Over the years, INTELEC has flourished, continually evolving to create and take advantage of numerous advancements in electronic power technology. INTELEC2011 will bring together international engineers and managers from academia, industry and telecom operators to discuss current challenges in research and practice in the use of power electronics to solve telecom as well as industrial energy problems. The conference activities will include:

- Internationally recognised keynote and invited speakers,
- Presentations of papers and posters on cutting edge research results,
- Tutorials and panel discussions from key leaders in the field,
- Exhibition space with demonstrations of the latest solutions and tools,
- Networking opportunities.

Tutorials and a technical exhibition of products and equipment will complete the event.

INTELEC serves the broad community of researchers exploring new applications for the design of power systems in a broad field of telecom applications and its environment. INTELEC examines and analyzes the latest developments in telecommunications energy systems and related power-processing devices and circuits. In 2011, INTELEC continues to focus on its three pillars:

- Power electronics,
- Energy storage,
- Energy management,

while exploring opportunities for engineers and technology to impact quality of life and address to the energy needs of the world of telecommunication.

Technical papers present research and new developments in power electronics and telecommunications power systems, including DC power plants, powering architectures, AC systems, AC and DC converters, batteries, energy storage systems, control, prime power systems, grounding, physical and thermal design, alternative power (engines, fuel cells, etc.) and building and equipment cooling systems. On the cutting edge we included special topics like smart grid, wireless energy transfer, power harvesting, .....

The increased demand for sustainable energy asks for new and improved energy management systems to better balance energy demand and supply. More and more the traditional power grids are being transformed into smart grids by adding digital intelligence to enable two-way communication, monitoring and control of energy use and hence improve the overall energy efficiency. At the same time there is a worldwide shift taking place from energy from fossil fuels to energy from renewable sources such as solar and wind.

Typically, energy generation from renewable sources is decentralized and spread over many large and small locations, making it even more important to manage demand and supply efficiently. Another important consideration is the reliability of the power grid as the overall energy consumption continues to increase and new regions are being electrified.

Energy storage is of crucial importance in this new environment, not only because the renewable energy sources by their nature do not always produce energy at the moment of demand, but also because a proper energy management system will need some form of (temporary) storage to buffer energy use locally or regionally, or even as back-up for power failure.

The question remains which energy storage systems are best suited for storage in the smart grid context. Material research has brought safer materials for Li-ion batteries with improved energy densities and charge characteristics, but the batteries still remain very expensive for both for their main application in EV's as for application in smart grid energy storage. Interesting investigations are going on as to whether a second life for EV Li-Ion batteries is feasible in smart grid and/or UPS applications. This would lower the costs of EV's leading to sales volume increase and as result more storage capacity for the 2nd life applications. However, it might take considerable time before sufficient 2nd life EV storage capacity becomes available, so affordable alternatives will still be needed for the short term. Fuel cells, redox-flow batteries, Zinc-air and even lead acid all have their own merits and limitations, making it worthwhile to continue research in these areas. At the INTELEC2011 conference we strive for a platform where recent developments in the different storage technologies are presented and discussed in relation to the different storage applications.

The world is moving faster than ever Global Warming, Sustainability, Green Energy combined with a seemed like non ending economical crisis will definitely change the world of tomorrow. More than ever, the energy related business is aware of the fact that fossil fuel reserves are limited and we have to search for alternative resources. There is a future for suppliers of sustainable, efficient and cost effective products and services. Optimization is not good enough; we need large innovative steps which will create the base for the long term and for a healthy future. To fulfil these requirements is the real challenge for this sector.

Therefore we choose the theme of the INTELEC2011 to be



Dr. ir. Ben Klaassens  
Program Chairman

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**Preliminary Program Information**

Details for the upcoming event include:

- **Opening Address:** Prof. Dr. Wubbo Ockels (*Delft University of Technology*)
- **Keynote Speakers:**  
 Prof. Dr. ir. Alex Van den Bossche (*Ghent University*)  
 Prof. Dr. Peter H.L. Notten (*Eindhoven University of Technology*)  
 Prof. Dr. J.G. (Han) Slootweg (*Eindhoven University of Technology*)  
 Prof. Dr. Johann W. Kolar (*ETH Zürich*)
- **Invited Speakers:**  
 Dr. ir. Henk Jan Bergveld (*Central R&D NXP Semiconductors*)  
 Prof. Dr. Fokko Mulder (*Delft University of Technology*)  
 Dr. ir. Guojun Zhu (*Cofely Maintenance Solution*)  
 Dr. Ashraf Lotfi (*Enpirion Inc, USA*)  
 Prof. Dr. Shashank Priya (*Virginia Tech, USA*)  
 Prof. Dr. W.C. Sinke (*ECN Solar Energy*)  
 Dr. E. Waffenschmidt (*Philips Aken*)

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**TUTORIALS**

The INTELEC tutorials are the most comprehensive to be found in any energy systems conference. The tutorial team is comprised of specialists who have worked many years in the field of power electronics for telecom and related areas in industry and universities. This tutorial program provides training on a wide array of subjects.

- **Fuel Cells:** Dr. Kathryn Bullock
- **Batteries:**  
 Rechargeable batteries: Key component between Smart Grid and Electrical Transportation: Prof. Dr. P.H.L. (Peter) Notten  
 Modelling of rechargeable batteries leading to advanced Battery Management Systems: Dr. D. (Dmitry) Danilov
- **Energy That Surrounds Us:**  
 Energy Harvesting: Dr. Loreto Mateu  
 Contactless (Wireless) Transfer of Energy: Prof. Dr. Stan Valtchev
- **Smart Grids:** Prof. Dr. Rik De Doncker, et al.
- **Advanced Battery Technologies For Telecom Applications:** Dr. Subhas Chalasani

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**CALL FOR PAPER**

The Organizing and Scientific Committee of the 33<sup>rd</sup> INTELEC invites authors to submit abstracts for consideration and inclusion in the Conference program. Visit our website [www.intelec2011.org](http://www.intelec2011.org) for more detailed information about submission and deadlines or the pdf-version of the [Call for Papers](#).

**SPONSORING & EXHIBITION OPPORTUNITIES**

If your company intends to be present at this Conference, why not increase your visibility? Companies and organizations will be able to compile a tailor-made sponsoring package about which the Congress Secretariat can inform you extensively. The Exhibition & Sponsoring Brochure is available in pdf-format. [Click here to download](#)

**Deadlines**

- Exhibition early booking [discount 10%] **March 1, 2011**
- Abstracts **May 1, 2011**
- Acceptance Notification **June 5, 2011**
- Manuscript and Author Registration July **31, 2011**
- Early Registration Fee **July 31, 2011**
- Early Hotel Registration **July 31, 2011**

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