

CONFERENCE ON

## **Power Electronics and Energy Systems -2012**

Oct 26 - 27, 2012

### **ADVANCE INFORMATION**

#### **INTRODUCTION**

Power Electronics has a significant role in different industries when power processing is required such as in computers, telecommunications, variable drives, cars and alternative energy systems. It is foreseen that, during the next few years, all of electrical energy will be processed through power electronics from generation to end-use. In power electronic systems, the flow of electric energy is controlled based upon load demand, to deliver power with maximum efficiency. Power Electronic systems development is driven by the application of new components, materials, thermal management and reliability. The energy system requires certain specific power electronics capabilities to convert the power generated which is directly interconnected with the utility grid for further supply to consumer applications. The development of scalable, modular, low cost, highly reliable power electronic interfaces will improve the overall cost and efficiency of energy systems. Thus, progressing from power electronics to systems, more attention need to be paid to performance, control issues and system integration. Further, renewable energy systems will be hooked into power electronic systems for maximized energy yield and power support to the grid.

Power Electronics and Energy Systems focus on all aspects of electrical energy including innovations in the field of applications of power systems, power electronic systems, renewable energy systems, distributed power generation, storage devices and efficient control of grid and utility systems and also includes inter disciplinary fields such as microcontroller systems, chemical plants, fuzzy systems, shield systems in computers & control system and applications.

The Department of Electrical Engineering at Chitkara University, Punjab is organizing a conference on “Power Electronics and Energy Systems - PEES 2012” on October 26-27, 2012.

#### **OBJECTIVE OF CONFERENCE**

The conference on “**PEES 2012**” aims to bring together leading academicians, scientists, researchers, engineers and designers in the domain of interest from India and abroad. We invite researchers and professionals to contribute papers as well as review papers reporting the continuing development efforts in power electronics and energy systems. Topics of interest for submission include, but are not limited to:

<b>Power Electronics Systems</b>	<b>Power and Energy Systems</b>
➤ Power Semiconductor Devices	➤ Power Electronics in Power Generation, Transmission and Distribution
➤ New Converter Topology	➤ Renewable Energy Systems
➤ Resonant Converters	➤ Distributed Energy Generation
➤ Industrial Electronics and Drives	➤ HVDC
➤ Modeling and Simulation in Power Electronics	➤ Flexible AC Transmission Systems
➤ Power Electronics In Traction and Automotive	➤ Network Harmonics
➤ Applications of Power Electronics	➤ Power Quality and Conditioning
➤ Power Integrated Circuits (PIC)	➤ Energy Storage
➤ Power Electronic Emerging Technologies	➤ Energy Management Systems
➤ Assembly Concepts and System Integration	
➤ Switch-Mode Power Supplies and UPS	<b>Other Related Areas</b>
➤ Special Power Electronic Systems and Applications	➤ Mechatronics
➤ Telecommunications Power Supplies	➤ Electric Vehicles
➤ Device and System Packaging, Assembly Concepts and System Integration	➤ Heating and Lighting Systems
➤ EMI/EMC	➤ Applications of AI & Learning Control in Power Electronics

**The Two Days Event will Comprise:**

- Plenary Talks
- Presentation of refereed papers

An Exhibition where companies and service providers can showcase their technologies, products and services is also being planned. Industries are invited to exhibit their product related to the conference. They may contact the Convener of the Conference for the details.

### **IMPORTANT DATES**

Conference	: Oct 26 <sup>th</sup> & 27 <sup>th</sup> 2012
Paper Submission Date	: March 31 <sup>st</sup> , 2012
Authors Notification	: May15 <sup>th</sup> , 2012
Submission of Camera Ready Paper & Registration	: August 15 <sup>th</sup> 2012

### **REGISTRATION FEE**

Participants from India	: ₹ 2500/-
Participants from Abroad	: \$ 150/-

**Note:** In order for the paper to be included in the proceedings, at least one of the authors must register for the conference to present the paper.

### **SUBMISSION OF PAPERS**

Papers, in IEEE format must be submitted electronically to [pees2012@chitkara.edu.in](mailto:pees2012@chitkara.edu.in) as .doc files.  
([https://www.ieee.org/portal/cms\\_docs/pubs/confpubcenter/pdfs/samplems.pdf](https://www.ieee.org/portal/cms_docs/pubs/confpubcenter/pdfs/samplems.pdf))

### **ADDRESS FOR CORRESPONDENCE**

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Convener

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***Detailed brochure will follow soon.***