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705th Conference

Scientific Program

International Conference on

Power and Energy Engineering

September 29-30, 2016 London, UK



Hosting Organizations: Conference Series LLC

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Day 1 September 29, 2016

08:30-09:30 Registrations

Hall-2

conferenceseries.com 09:30-09:55 **Opening Ceremony**

Keynote Forum

09:55-10:05 **Introduction**

10:05-10:40 **Title: The energy trilemma and the future for UK energy?**
Gavin K Gillmore, Kingston University, UK

Coffee Break 10:40-11:00

11:00-11:35 **Title: Kingston Energy**
Jian Wang, Kingston University, UK

11:35-12:10 **Title: Numerical analysis of combustion instabilities in different engines**
Bing Wang, Tsinghua University, China

12:10-12:45 **Title: Digital grid - New grid architecture for renewable energy era**
Rikiya Abe, The University of Tokyo, Japan

Sessions:
Power Engineering | Power System | Power Electronics | Electric Power Transmission & Distribution | Power-system Protection

Session Chair: Bing Wang, Tsinghua University, China
Session Co-Chair: Albana Ilo, Vienna University of Technology, Austria

Session Introduction

12:45-13:10 **Title: Implementation of appropriate particle dynamics in CFD for wet compression**
Jobaidur Rahman Khan, University at Buffalo, USA

Lunch Break 13:10-14:10

14:10-14:35 **Title: Reliable modular multilevel converters for high-voltage direct transmission**
Fujin Deng, Aalborg University, Denmark

14:35-15:00 **Title: Direct numerical simulation of impinging jets atomization**
Bing Wang, Tsinghua University, China

15:00-15:25 **Title: Distributed *LINK*-based operational architecture–the foundation of power systems of the new electricity age**
Albana Ilo, Vienna University of Technology, Austria

15:25-15:50 **Title: GPS synchronized digital grid: Full of renewable energy in the future new grid architecture for renewable energy era**
Rikiya Abe, The University of Tokyo, Japan

Coffee Break 15:50-16:10

Session by Fabio Matteocci

16:10-16:40 **Title: Organometal-halide perovskite solar cell: High efficiency, up-scaling process and stability**
Fabio Matteocci, University of Rome "Tor Vergata", Italy

Young Researchers Forum

16:40-16:55 **Title: Five W's World Model (FWWM) as a congruent approach in energy policy design**
Shu Xian Toh, University of Coimbra, Portugal

16:55-17:10 **Title: Properties of thermal batteries containing the ceramic felt separators infiltrated using LiCl-KCl and LiF-LiCl-LiBr electrolytes**
Sang Hyeok Chae, Yeungnam University, Republic of Korea

17:10-17:25	**Title: A harmonic reduction scheme for 12-pulse thyristor rectifiers** **Özgün Girgin,** Yildiz Technical University, Turkey

Panel Discussion

Day 2 September 30, 2016

Hall-2

09:20-09:30	**Introduction**

Sessions:
Smart Grid Technologies | Renewable and Non Renewable Energy Sources | Energy Policy | Energy Economics | Energy and Economic Growth | Applications of Energy Engineering

Session Chair: Rikiya Abe, The University of Tokyo, Japan
Session Co-Chair: Florin Iov, Aalborg University, Denmark

Session Introduction

09:30-09:55	**Title: Smart grid operation and control – Challenges for Danish distribution systems operators** **Florin Iov,** Aalborg University, Denmark
09:55-10:20	**Title: Industry-scale harvesting and re-use of low grade heat enabled by microtechnology** **Sebastian Gerke,** IBM Research - Zurich, Switzerland
10:20-10:45	**Title: Electrochemical energy technologies for grid energy storage** **Qiong Cai,** University of Surrey, UK

Coffee Break 10:45-11:05

11:05-11:30	**Title: Techno-economic analysis of biomass/coal co-firing in the UK** **Xiaolei Zhang,** Queen's University Belfast, UK
11:30-11:55	**Title: An assesment on energy profile and strategy of Turkey under European Union perspective** **Ayse Ergun Amac,** Kocaeli University, Turkey

Poster Presentations 11:55-13:00

PE 01	**Title: Performance analysis of single phase induction motor due to non-linear loading in domestic power network** **Ajad Hossain Howladar,** Qatar University, Qatar
PE 02	**Title: Design-implementation procedure of impulse voltage generators** **Mohamad Harastani,** Eastern Mediterranean University, Turkey
PE 03	**Title: Study on the arrangement optimization method of renewable energy facilities using the smoothing effect of a wide-area interconnection** **Masaki Okada,** Kitami Institute of Technology, Japan
PE 04	**Title: Operation analysis of microgrids using an orthogonal table-GA hybrid method** **Seizi Watanabe,** National Institute of Technology, Japan
PE 05	**Title: Study on the output control method of CO_2 hydrate engine generator** **Masahito Kawai,** National Institute of Technology, Japan
PE 06	**Title: Use of babassu oil fatty acids to produce a biokerosene by heterogeneous esterification** **Albuquerque M C G,** Universidade Federal do Ceara, Brazil
PE 07	**Title: Study of power quality by the introduction of renewable energy to the island** **Katsuaki Sato,** Kitami Institute of Technology, Japan
PE 08	**Title: A study on the renewable energy facilities planning with a large area connection of Hokkaido power grid** **Yuji Ito,** Kitami Institute of Technology, Japan
PE 09	**Title: Development of a small temperature difference generator by the dissociation and expansion characteristics of CO_2 gas-hydrate** **Masamitsu Takabatake,** Kitami Institute of Technology, Japan

	Lunch Break 13:00-14:00
14:00-14:25	**Title: Are renewable energy technologies really sustainable: Is less bad good enough?** **Berrin Kursun,** Marmara University, Turkey
14:25-14:50	**Title: Polymer nano composites electrolytes for lithium ion batteries: Science and technology** **Emad M Masoud,** Benha University, Egypt
14:50-17:00	**Special Session on Kingston Energy**
14:50-15:15	**Title: Shale Gas: characterisation of US and UK plays and the potential environmental impact of shale gas exploitation** **Delano Henry,** Kingston University, UK
15:15-15:40	**Title: Smart Energy, demand-side management and user control of heating systems** **Matthias Pilz,** Kingston University, UK
	Coffee Break 15:40-16:00
	Session to be continued
	Video presentation
17:00-17:20	**Title: Absorption of solar energy through the troposhpere to ground** **Wei Peng Sheng,** National Sun Yat-Sen University, Taiwan
	Awards & Closing Ceremony



Bookmark your dates

2nd International Conference on

Power and Energy Engineering

July 20-21, 2017 Berlin, Germany

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