Scientific Program

International Conference on

Power and Energy Engineering

September 29-30, 2016   London, UK
Day 1  September 29, 2016

08:30-09:30  Registrations

Hall-2

conference series.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

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
### Title: A harmonic reduction scheme for 12-pulse thyristor rectifiers
Özgün Girgin, Yıldız Technical University, Turkey

### Panel Discussion

### Day 2  September 30, 2016

**Hall-2**

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<tr>
<th>Time</th>
<th>Session Introduction</th>
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| 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

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<tr>
<th>Time</th>
<th>Poster Presentations 11:55-13:00</th>
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| 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 assessment on energy profile and strategy of Turkey under European Union perspective  
Ayse Ergun Amac, Kocaeli University, Turkey |

**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 CO₂ 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 CO₂ gas-hydrate  
Masamitsu Takabatake, Kitami Institute of Technology, Japan
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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>14:00-14:25</td>
<td>Are renewable energy technologies really sustainable: Is less bad good enough?</td>
<td>Berrin Kursun</td>
<td>Marmara University, Turkey</td>
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<tr>
<td>14:25-14:50</td>
<td>Polymer nano composites electrolytes for lithium ion batteries: Science and technology</td>
<td>Emad M Masoud</td>
<td>Benha University, Egypt</td>
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<td>14:50-17:00</td>
<td>Special Session on Kingston Energy</td>
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<td>14:50-15:15</td>
<td>Shale Gas: characterisation of US and UK plays and the potential environmental impact of shale gas exploitation</td>
<td>Delano Henry</td>
<td>Kingston University, UK</td>
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<tr>
<td>15:15-15:40</td>
<td>Smart Energy, demand-side management and user control of heating systems</td>
<td>Matthias Pilz</td>
<td>Kingston University, UK</td>
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<td>17:00-17:20</td>
<td>Absorption of solar energy through the troposphere to ground</td>
<td>Wei Peng Sheng</td>
<td>National Sun Yat-Sen University, Taiwan</td>
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<td>Coffee Break 15:40-16:00</td>
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<td>Video presentation</td>
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<td>Session to be continued</td>
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<td>Awards &amp; Closing Ceremony</td>
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**Bookmark your dates**

2nd International Conference on

**Power and Energy Engineering**

July 20-21, 2017   Berlin, Germany

e-mail: powerengineering@conferenceseries.net