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Tentative Program

3rd International Conference on

Power and Energy Engineering

June 18-19, 2018 Rome, Italy

Theme: "Communicating the Energy and Power Revolution, Preparing to Meet the Challenges of the Future and Delivering Energy Services around the World"



powerengineering@annualconferences.org

Conference Secretariat

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Welcome Note by Prof. Dr Nasir El Bassam



Dear Colleagues,

On behalf of the Organizing Committee and the Executive Board of the 3rd International Conference on Power and Energy Engineering (PEE) which will be held in the beautiful Rome, "The Eternal City", Italy, on June 18-19, 2018.

The PEE Conference 2018 is designed to inform, inspire and innovate, to foster participation and exchange, and to actively create a global platform for a future of power and energy generation and supply in regional and global context.

Worldwide demand for energy is predicted to spike by 49% over the next 15 years, and fossil fuel plants are expected to shoulder the bulk of the load. Yet many power plants worldwide face efficiency issues, emissions restrictions, and the risk of system failures. How can owners and managers keep up with increased energy demands, while maintaining safety, reducing environmental impact, and increasing profitability? These aspects are vital to meet the challenges resulted from the projection that 2 billion people expected to move to urban cities by 2050, about 48% growth in world energy demand by 2040 and 78% of world´s energy by fossil is still fuels by 2040. More than 50% of USA´s electricity generating capacity built before 1980 and 83 % less lifespan for coal-fired power plants in DC like, India, compared to developed nations.

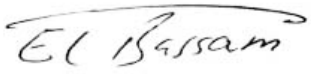
The International Energy Agency (IEA) estimates that to achieve the below 2-degree scenario, energy efficiency (EE) investments need to reach $560 billion/year over the next 15 years, an increase of over four times the current level.

The future sustainable energy systems with their inherent complexity of operation, control and maintenance will be impossible to operate without the technologies of industry 4.0. and energy 4.0. These are invented today in the manufacturing industry acting as pathfinder into a fascinating and rich digital future.

Mission and Objectives of the Conference:

- Promote international exchange, discussion and innovation and technologies about the present and future of sustainable energy and development
- Promote clean energy economies and a green lifestyle
- Develop international partnerships in economics, science, industry and technology
- Promote the exchange of best practices in the area of sustainable development and clean energy
- Accelerate the transition to a green economy and attract investment for innovative projects
- Recent and future technological innovations in renewables, Nano-and fusion technologies, Digitisation, power transmission, efficiency, storage and electronics.

We will be glad to welcome you in the "Eternal City" Rome and to share us with your experience, exchange knowledge and meet in a county which is rich in culture, tradition, and history and enjoy the traditional Italian cuisine!



Prof Dr Nasir El Bassam

Founder and Director of the International Research Centre for Renewable Energy (IFEED) www.ifeed.org; Chairperson, WCRE, World Council for Renewable Energy www.wcre.org

Scientific Advisory Board, Federal Association of Regenerative Mobility, Germany

Tentative Program

3rd International Conference on

Power and Energy Engineering

June 18-19, 2018 Rome, Italy

Program at a Glance

Day 1

Reception/Registration	**08.00-09.00**	
	Time	**General Session**
Least of 3 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
	09.15-09.45	Keynote/Plenary Talk 1
	09.45-10.15	Keynote/Plenary Talk 2
	10.15-10.45	Keynote/Plenary Talk 3
Panel Discussions/Group Photo		
Coffee/Tea Break 10.45-11.00 (Networking)		
11.00-12.40	5 Speakers (20 Mins Each)	
Lunch Break 12.40-13.30		
13.30-15.30	6 Speakers (20 Mins Each)	
Coffee/Tea Break 15.30-15.45 (Networking)		
15.45-17.25	5 Speakers (20 Mins Each)	

Morning Sessions / Evening Sessions

19 Speakers for **Day 1**

Day 2

	Time	**Session 1**	**Session 2**
09.00-10.40		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Coffee/Tea Break 10.40-10.55 (Networking)			
10.55-12.35		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Lunch Break 12.35-13.25			
13.25-15.05		**5 Speakers (20 Mins Each)**	**5 Speakers (20 Mins Each)**
Poster Sessions			
Coffee/Tea Break 15.05-15.20 (Networking)			
15.20-17.00		**5 Speakers (20 Mins Each)**	**5 Speakers (20 Mins Each)**

Morning Sessions / Evening Sessions

40 Speakers on **Day 2**

Awards & Closing Cermony

NOTE: Program Shedule is subject to change with final allotment of the speaker slots

For more Details Visit https://power-energy.conferenceseries.com/

E-mail : powerengineering@annualconferences.org, powerengineering@enggconferences.com

Conference Highlights

- Power Engineering
- Power System
- Power Transmission and Distribution
- Power Electronics
- Power and Energy Market
- Battery Technologies
- Fuel Cell and Combustion Technologies
- Smart Grid Technologies
- Alternative Energy Technologies
- Energy Storage
- Sustainable Energy Technogies
- Solar Power
- Wind Energy
- Energy Economics and Policy
- Bio Energy
- Hydropower Technology
- Green Energy
- Photovoltaic System
- Energy Materials
- Clean Energy
- Nuclear Energy



Glimpses of previous Conferences



































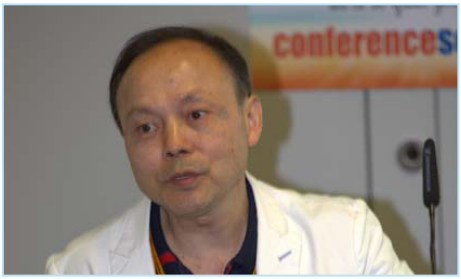



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WELCOME


Welcome


CHANGE
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POWER AND
ENERGY










WELCOME













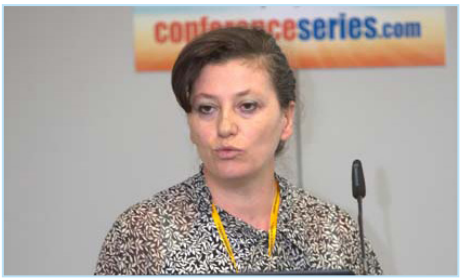

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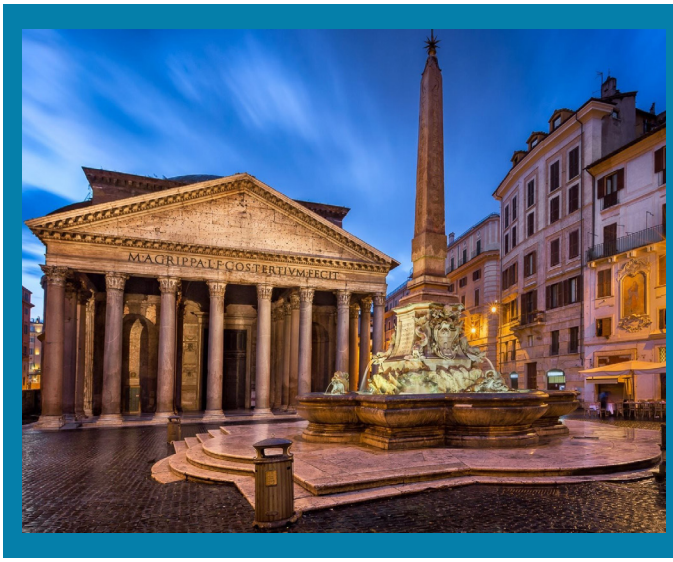
TOURIST DESTINATIONS IN ROME



Basilica of Saint Paul Outside the Walls



Colosseum



Pantheon



Roman Forum



Trevi Fountain



Vatican Museums

Conference Venue

Rome, Italy



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1044th Conference

Scientific Program

2nd International Conference on

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July 17-18, 2017 Munich, Germany



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Day 1 July 17, 2017

Registrations

Forum 13

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Opening Ceremony

Keynote Forum

Introduction

Title: The integrated energy community: A project for sustainable economic development and empowering rural habitats

Nasir El Bassam, IFEED, Germany

Title: Organic Rankine cycle – A negative-carbon approach in power generation from low-temperature waste heat

Tzu-Chen Hung, National Taipei University of Technology, Taiwan

Networking & Refreshment Break

Title: Beyond classical heat transfer

L Q Wang, The University of Hong Kong, Hong Kong

Title: The role of synthetic fuels in sustainable energy systems

Robert Schlögl, Max Planck Institute for Chemical Energy Conversion, Germany

Title: Semiconductor-ionic materials for new generation fuel cells

Bin Zhu, Hubei University, P R China

Lunch Break

Session By: Wanan Sheng, University College Cork, Ireland

Title: Challenges and progress in wave energy technologies

Sessions: Power Engineering | Power Electronics | Power Systems | Power Generation Technologies | Power Transmission and Distribution | Smart Grid Technologies

Session Chair: Nasir El Bassam, IFEED, Germany

Session Co-Chair: Li Kaicheng, Huazhong University of Science and Technology, China

Session Introduction

Title: Improving efficiency of a Kalina cycle by controlling condensation pressure for low-grade energy utilization

Enhua Wang, Beijing Institute of Technology, China

Title: Effect of dimension on characteristics and reliability of high voltage MOS transistors

Jone F Chen, National Cheng Kung University, Taiwan

Title: Power quality disturbances detection based on strong trace filter

Li Kaicheng, Huazhong University of Science and Technology, China

Networking & Refreshments Break

Title: Emergency preparedness for the release of radionuclide from a hypothetical accident of a nuclear power plant in Korea

Soon-Ung Park, Seoul National University, South Korea

Title: System analysis of energy storage for stationary grid application - An economic and ecological perspective

Marcel Weil, Karlsruhe Institute of Technology, Germany

Title: Large signal modeling and control of two and three level DC-DC converters based on Takagi-Sugeno fuzzy approach

Said El Beid, Chouaib Doukkali University, Morocco

Title: Improvement on conversion efficiency of Cu(In,Ga)Se_2 solar cells by physical modeling

Samaneh Sharbati, Semnan University, Iran

Panel Discussion

Day 2 July 18, 2017

Forum 13

Sessions: Renewable and Non Renewable Energy Sources | Energy Storage System and Technologies | Energy Economics and Energy Policy | Sustainability | Battery, Fuel Cells and Combustion Technologies | Advanced Energy Technologies | Solar Energy and Wind Power

Session Chair: Shunsuke Mori, Tokyo University of Science, Japan

Session Co-Chair: Bin Zhu, Hubei University, P R China

Session Introduction

Title: Contribution of new energy technologies and unused energy sources for the Tokyo commercial buildings

Shunsuke Mori, Tokyo University of Science, Japan

Title: Tetravalent metal pyrophosphates and their composites: New electrolytes for intermediate-temperature fuel cells

Bhupendra Singh, Indian Institute of Technology, Varanasi, India

Title: A revolutionary inverter and a revolutionary control

Irfan Alan, Abdullah Gul University, Turkey

Title: Smart strategies for incorporation Si solar cells into textiles

Agnieszka Iwan, Military Institute of Engineer Technology, Poland

Networking & Refreshments Break

Title: Waste to energy conversion using fast pyrolysis

R Anand, National Institute of Technology, Tiruchirappalli, India

Title: Bioenergy in Germany: Technologies, perspectives and challenges

Rafal Strzalka, Stuttgart Technology University of Applied Sciences, Germany

Title: Solar assisted water splitting in a photoelectrochemical cell

Thirumany Sritharan, Nanyang Technological University, Singapore

Title: Fullerene based perovskite solar cells

Sule Erten Ela, Ege University, Turkey

Title: Ternary sensitization of organic solar cells: A multifunctional concept to boost power conversion efficiency

Tayebeh Ameri, University of Erlangen-Nuremberg, Germany

Lunch Break

Title: Techno economic visibility of PV system feeding LEDs lighting

Faeka Khater, Electronics Research Institute, Egypt

Young Researchers Forum

Title: Investigation of Monod and inhibition kinetics during 1-butanol and terpenoids production from CO_2 by S. elongatus

Gokce Guney, Dokuz Eylul University, Turkey

Title: Research on power system harmonic detection based on Hadoop MapReduce framework

Wenjuan Chen, Foshan Power Supply Bureau, China

Title: Nature of interconnectors and the role of the Norwegian storage capacity

Irina Stamo, IKEM, Germany

Title: Hydropower situation in Sub-Saharan Africa and the need for small hydropower plants

Daniel Adu, Jiangsu University, China

Networking & Refreshments Break

Video Presentations

Title: Role of renewable energy over coal based thermal power generation and the environmental impact in India: A review

Avijit Mallick, Reliance Power Ltd, India

Title:Thermal effects on capability of drilling with a high intensity beam

Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Poster Presentations

PE1 **Title: Study of sealing materials for Proton Exchange Membrane Fuel Cell (PEMFC)**

Cheng-Hong Liu, Industrial Technology Research Institute, Taiwan

PE2	**Title: Material and energy balance of fuel cell power unit for BIPV-FC-battery hybrid power system** **Kan-Lin Hsueh,** National United University, Taiwan
PE3	**Title: Performance of a prototype multi-stack fuel cell system in an electrical series configuration** **Reiko Ohara,** Industrial Technology Research Institute, Taiwan

Closing Ceremony



Bookmark your dates

3rd International Conference on

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June 14-16, 2018 Rome, Italy

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Scientific Program

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September 29-30, 2016 London, UK



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Day 1 September 29, 2016

Registrations

Hall-2

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Opening Ceremony

Keynote Forum

Introduction

Title: The energy trilemma and the future for UK energy?

Gavin K Gillmore, Kingston University, UK

Coffee Break

Title: Kingston Energy

Jian Wang, Kingston University, UK

Title: Numerical analysis of combustion instabilities in different engines

Bing Wang, Tsinghua University, China

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

Title: Implementation of appropriate particle dynamics in CFD for wet compression
Jobaidur Rahman Khan, University at Buffalo, USA

Lunch Break

Title: Reliable modular multilevel converters for high-voltage direct transmission
Fujin Deng, Aalborg University, Denmark
Title: Direct numerical simulation of impinging jets atomization
Bing Wang, Tsinghua University, China
Title: Distributed *LINK*-based operational architecture–the foundation of power systems of the new electricity age
Albana Ilo, Vienna University of Technology, Austria
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

Session by Fabio Matteocci

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

Young Researchers Forum

Title: Five W's World Model (FWWM) as a congruent approach in energy policy design
Shu Xian Toh, University of Coimbra, Portugal
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, Yildiz Technical University, Turkey

Panel Discussion

Day 2 September 30, 2016

Hall-2

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

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

Coffee Break

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

Poster Presentations

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

Title: Are renewable energy technologies really sustainable: Is less bad good enough?
Berrin Kursun, Marmara University, Turkey
Title: Polymer nano composites electrolytes for lithium ion batteries: Science and technology
Emad M Masoud, Benha University, Egypt

Special Session on Kingston Energy

Title: Shale Gas: characterisation of US and UK plays and the potential environmental impact of shale gas exploitation

Delano Henry, Kingston University, UK

Title: Smart Energy, demand-side management and user control of heating systems

Matthias Pilz, Kingston University, UK

Coffee Break

Session to be continued

Video presentation

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

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July 20-21, 2017 Berlin, Germany

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