



RenewableEng-2023

September 25-27, 2023 | Webinar

International Conference on
**RENEWABLE AND
SUSTAINBLE ENERGY**

Webinar | September 25-27, 2023

Final Program



XPERTS MEETINGS

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For more Info Plz Visit Website:

<https://xpertsmeetings.org/renewableeng23/>

09:00-09:10 Opening Ceremony

Plenary & Keynote Session

- 09:10-09:40 **Renewable Hot and Cold Energy Recovery Processes**
Chua Kian Jon Ernest, National University of Singapore, Singapore
- 09:40-10:10 **Power System Strength and Renewable Energy Grid Integration**
Joe Dong, Nanyang Technological University, Singapore
- 10:10-10:35 **Key Technologies for Battery Storage Systems**
Jun Xu, Xi'an Jiaotong University, China
- 10:35-11:00 **Radiative Cooling in the Tropics**
Ng Bing Feng, Nanyang Technological University, Singapore

Invited Session

- 11:00-11:20 **A Coating-free Superhydrophobic Sensing Material for Full-range Human Motion and Microliter Droplet Impact Detection**
Shanshan Jia, Sichuan Agricultural University, China
- 11:20-11:40 **Zinc as a Promising Anodic Material for All-Solid-State Lithium-Ion Batteries**
SINGH RINI, Hiroshima University, Japan
- 11:40-12:00 **TBA**
Hsin-Fei Meng, National Yang Ming Chiao Tung university, Taiwan
- 12:00-12:20 **Important Role of LiBH_4 On Li Transfer as an Electrolyte for All-Solid-State Li-Ion Batteries**
KHUSHBU SHARMA, Hiroshima University, Japan
- 12:20-12:40 **System Design and Evaluation on Membrane Reactor to Produce Hydrogen via Biogas Dry Reforming**
Akira Nishimura, Mie University, Japan

- 12:40-13:00 **Hydrogen Production by the Electrolysis of Ammonia from Livestock Wastewater**
Fangqin Guo, Hiroshima University, Japan
- 13:00-13:20 **Solar powered single-double effect switching absorption refrigeration system: design and simulation**
Wang Dechang, Qingdao University, China
- 13:20-13:40 **Fabrication of an Aluminium Pouch for Batteries in Electric Vehicles using Gravure Coating Technique**
Dong soo Kim, Hanbat National University, South Korea
- 13:40-14:00 **Novel Fluidized Cathode Electro-Fermentation For Caproate Production**
Jingwei Ma, Hunan University, China
- 14:00-14:20 **Smart control and digitalization of modern energy storage systems**
Pengfeng Lin , shanghai jiaotong university, China
- 14:20-14:40 **Carbon Capture and Thermal Energy Management Enabled by Gas Hydrate Science**
Xiaolin Wang, Australian National University, Australia
- 14:40-15:00 **Developing Lithium-Rich Anti-Perovskite (LiRAP) as an All-Purpose Electrolyte for Solid-State Batteries**
Zhao Yusheng, Institute for Advanced Study of Oriental Science and Technology, China

15:00-15:30

Break Out

Plenary & Keynote Session

- 15:30-15:55 **Intelligent and Sustainable Systems for Smart Cities**
Mohsen Guizani, Mohamed bin Zayed University of Artificial Intelligence, UAE
- 15:55-16:20 **Engineered Biochar for Achieving UN SDGs, ESG, and Sustainability**
Xiangzhou Yuan, Korea University, South Korea

16:20-16:45 **TBA**
Siqi Tang, Peking University, China

Invited Session

16:45-17:05 **Mechanical Biowaste Pre-Treatment: The Critical Step in Biomass to Energy Concepts**

Thomas Senfter, MCI - The Entrepreneurial School, Austria

17:05-17:25 **Fractional-order low-frequency ripple suppression technology**

Liangzong He, Xiamen University, China

17:25-17:45 **TBA**

Liu Zuming, Shanghai Jiao Tong University, China

17:45-18:05 **Unveiling the Truth: Greenwashing in Sustainable Finance**

Juan Dempere, The Higher Colleges of Technology , UAE

18:05-18:25 **3D Structures by 3D Printing for Energy and Environment Applications**

Ding Jun, National University of Singapore, Singapore

18:25-18:45 **Kesterite solar cells: voltage loss and defects**

Hao Xin, Nanjing University of Posts & Telecommunications, China

18:45-19:05 **Optimal utilization of Design Constraints for Industrial facility's EfficientSystem Design**

Abdulrahman Hazazi, Saudi Aramco, Saudi Arabia

19:05-19:25 **A Novel Approach to Develop Industrial Facility's Life-time Energy Efficient Design**

Zeeshan Farooq, Saudi Aramco, Saudi Arabia

End of Day 1

09:00-09:10 Opening Ceremony

Plenary & Keynote Session

- 09:10-09:40 **Net Zero Energy Transition Challenges and Opportunities for Energy Storage**
Yulong Ding, Birmingham university, UK
- 09:40-10:10 **New Design of a Parabolic Trough Collector Using an Innovative Silicone Fluid for CSP Power Plants**
Marina Casanova, ACCIONA, Spain
- 10:10-10:35 **Isothermal Compressed Air Energy Storage**
Yasser Mahmoudi Iarimi, University of Manchester, UK

Invited Session

- 10:35-10:55 **Affordable and Clean Energy Production through Bio-Chemical and Thermochemical Processes According To Circular Economy Principles**
Demichelis Francesca, Polytechnic university of Turin, Italy
- 10:55-11:15 **Forecasting the Market for Domestic Hydrogen: Consumer Acceptance for Hydrogen Heating and Cooking Across the UK Housing Stock**
Joel Gordon, Cranfield University, UK
- 11:15-11:35 **Renewables in the energy transition of the Italian context. A focus on solar photovoltaics**
Marianna Rotilio, University of L'Aquila, Italy
- 11:35-11:55 **Usage of Methyl Formate in the Process of Enzymatic Interesterification of Rapeseed Oil**
Eglė Sendžikienė, Vytautas Magnus University, Lithuania
- 11:55-12:15 **Synergies between Electricity and Other Energy Carriers to Improve the Grid Flexibility**
Anna Pinnarelli, University of Calabria, Italy

- 12:15-12:35 **Sustainable Energy Contribution for Improvement of Inland Water Way Transport under the Example of the Republic of Lithuania**
Elena Plotnikova, Vytautas Magnus University, Lithuania
- 12:35-12:55 **Towards a Sustainable Future: A Review of Heating and Cooling Solutions**
Danica Djuric Ilic, Linköping University, Sweden
- 12:55-13:15 **Towards Sustainable Energy Systems in a Backcasting Perspective**
Louise Ödlund, Linköping University, Sweden
- 13:15-13:35 **Development of Solar Energy in the Light of a Circular Economy**
Marilena De Simone, University of Calabria, Italy
- 13:35-13:55 **Integration of Luminescent Solar Concentrators in the Building Envelope for Less Energy-Hungry Building's Skin**
Giulio Mangherini, University of Ferrara, Italy
- 13:55-14:15 **A Life Cycle Environmental Perspective for Improved Sustainability in LNG Strategies**
Walid Ibrahim, University of Manchester, UK
- 14:15-14:35 **Flexibility in a renewable energy system – the actors' perspectives on demand-side flexibility**
Maria Johansson, Linköping University, Sweden
- 14:35-14:55 **Bioenergy Potential of Ceiba Aesculifolia: Thermogravimetric Study on the Pyrolysis Kinetics**
Jose Juan Alvarado Flores, Michoacan University of San Nicolás de Hidalgo, Mexico
- Delegate **Delegate**
Sergio Morales Ruiz, Eurecat - Technology Centre of Catalonia, Spain

Break

Plenary Session

- 15:15-15:45 **Transition Metal-Based Nanostructured Materials for Electrochemical Energy Applications**
Ram Gupta, Pittsburg State University, USA
- 15:45-16:15 **Sustainable Macroeconomics, Climate Risks and Energy Transition – Dynamic Modeling, Empirics, and Policies**
Willi Semmler, New School for Social Research, USA

16:15-16:45

TBA

Han Zhu, University of Houston, USA

Invited Session

16:45-17:05

First Part of "Thermoeconomic Analysis of Waste Heat Recovery in Greenhouses Using Air-to-Air Heat Exchangers"

Mohsen Ghaderi Zefreh, University of Sherbrooke, Canada

17:05-17:25

Second Part of "Thermoeconomic Analysis of Waste Heat Recovery in Greenhouses Using Air-to-Air Heat Exchangers"

Mikhail Sorin, University of Sherbrooke, Canada

17:25-17:45

Solar-Shade Project; A Case Study of the Designing and Operating an Intelligent and Adaptive Solar Shades in the State of North Carolina

Reza Foroughi, Appalachian State University, USA

17:45-18:05

Clean Energy Grid Challenges & Opportunities

Pannala Sanjeev, Washington State University, USA

18:05-18:25

Study of the Relative Efficiency of Electricity Generation from Renewable and Non-Renewable Energy Sources, Applying Data Envelopment Analysis (DEA)

Gloria Isabel Rodriguez Lozano, National university of Colombia, Colombia

18:25-18:45

Analytical Modeling and Performance Characterization of Trapezoid-Shaped Receivers for Parabolic Trough Solar concentrators

Muhammed A. Hassan, Cairo University, Egypt

End of Day 2

We wish to see you at

RenewableEng-2024

2nd International Conference on
Renewable and Sustainable Energy

26-28 Sep, 2024 | Paris, France



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