



RENEWABLEMEET2022

MARCH 21-23, 2022 | DUBAI, UAE

Location: Crowne Plaza Dubai Jumeirah,
Al Mina St - Al Hudaiba - Dubai - United
Arab Emirates

Final Program



ALBEDO MEETINGS

Floor# 3, Advant Building, 99B, Kakatiya
Hills, Kavuri Hills, Madhapur Hyderabad,
TS 500033

Email: contact@albedomeetings.com

DAY 01 | MARCH 21, 2022

Meeting Room: Jumeriah

08:30-09:00		Registrations
09:00-09:30		Introduction
Session-01		Environmental Impacts and Sustainability & Technology and System Aspects Session Chair: Edgar Harzfeld, Germany Session Co-Chair: Manuela Sechilariu, France
09:30-10:00	K	Title: Fundamental Understanding of 2D Composites for Energy Storage Martin Kalbac , <i>J. Heyrovsky Institute of Physical Chemistry of the CAS, Czech Republic</i>
10:00-10:30	K	Title: Low-Dimensional Hetero Structures and Energy-Harvesting Device Applications Suk-Ho Choi , <i>Kyung Hee University, Korea</i>
10:30-11:00	K	Title: New Solutions for Storing and Using Surplus Electricity in Methanol Edgar Harzfeld , <i>Stralsund University, Germany</i>
11:00-11:15		Refreshments Break
11:15-11:45	K	Title: Recycling of Phosphorus from Agricultural Wastes and Fabrication Into Novel Nanofertilizer Jaisi Deb , <i>University of Delaware, USA</i>
11:45-12:15	K	Title: Energy Efficient Design for PV-Powered Electric Vehicle Charging Stations to Increase PV Benefits Manuela Sechilariu , <i>Alliance Sorbonne University, France</i>
12:15-12:45	K	Title: Greening Employees: Concept and Trends Virginie Francoeur , <i>Polytechnique Montreal, Canada</i>
12:45-13:15	K	Title: Design and Development of the GHC-1 Low-Carbon Renewable Heating, Cooling and Refrigeration System for Commercial and Storage Buildings Arnold Gad-Briggs , <i>Cranfield University, UK</i>
13:15-13:20		Group Photo
13:20-14:00		Lunch Break
14:00-14:30	K	Title: The of Versatility of Ni-Ti Alloys : From Biomedical Applications to Solid State Refrigeration Assunta Borzacchiello , <i>National Research Council (CNR-IPCB), Italy</i>
		Invited Session
14:30-14:55	I	Title: Making Environmental Awareness Accessible to the Community Hen Friman , <i>H.I.T - Holon Institute of Technology, Israel</i>
14:55-15:20	I	Title: The Service Life of the PV Systems and its Impact on Electricity Costs Vítezslav Benda , <i>Czech Technical University, Czech Republic</i>
15:20-15:45	I	Title: Renewable Energy Consumption and CO ₂ Emissions in the Case of the European Union Stefan Sauer , <i>FAU Nuremberg University, Germany</i>

15:45-16:10	I	Title: The Evolution of Brazilian Energy Matrix: Challenges and Opportunities for Renewable Energy Roberto Teixeira Siniscalchi, Furnas Centrais Eletricas, Brazil
16:10-16:25		Refreshments Break
16:25-16:50	I	Title: Encoderless Control of AC Drives – Concepts and Realistic Expectations Kennel Ralph, Stellenbosch University, Germany
16:50-17:15	I	Title: nZEB Convesion of an Office Building Fabrizio Cumo, University of Rome, Italy
17:15-17:40	I	Title: State of the Art of Organic Photovoltaic : Performances and Importance of the Different Layers Constituting an Organic Photovoltaic Module Sadok Ben Dkhil, Dracula Technologies, France

End of Day - 01

DAY 02 | MARCH 22, 2022

Session-02		Environmental Impacts and Sustainability & Photovoltaic Technology Session Chair: Kay Pfaffenberger, Germany Session Co-Chair: Gianfranco Rizzo, Italy
		Invited Session
09:30-09:55	I	Title: Green Energy: An Exemplary Approach to Sustainable Development in Africa and Germany as a Model for other Countries? Kay Pfaffenberger, Flensburg University of Applied Sciences, Germany
09:55-10:20	I	Title: Converting Cars Into Solar Hybrid: A Short-Term Sustainable Option toward Green Mobility Gianfranco Rizzo, University of Salerno, Italy
10:20-10:45	I	Title: Space Heating and Cooling Account for Major Portions of the Energy Consumption in Various Types of Buildings Masih Alavy, University of Toronto, USA
10:45-11:10	I	Title: Photoconversion of Carbon Dioxide at Copper(I) Oxide Modified with Titanosilicate Microporous Material (ETS-10) Ewelina Szaniawska, Charles University, Czech Republic
11:10-11:25		Refreshment Break
11:25-11:50	I	Title: Contribution of Hybrid Power Plants (RES and Batteries) in Electricity Markets Emmanuel Karapidakis, Hellenic Mediterranean University, Greece
11:50-12:15	I	Title: Electric Vehicle (EV) and Hybrid EV (HEV) Performances Malek Ghanes, Head of the Chair Renault-CN on EV / HEV, France
12:15-12:40	I	Title: Inkjet Printed Flexible and Free Design OPV Modules for Indoor Application Sadok Ben Dkhil, Dracula Technologies, France
12:40-13:05	I	Title: Techno-Economic Analysis of the Project of a Photovoltaic Power Plant for Self-Supply of Electricity in Family Houses According to the Esco Model Zeljko Tomsic, University of Zagreb, Croatia

13:05-13:45		Lunch Break
Session-03		Climate Change & Renewable Energy Sources Session Chair: Eugen Rusu, University of Galati, Romania Session Co-chair: Dan D. Micu, Romania
13:45-14:10	I	Title: Energy Efficiency Horizon 2020 Projects. Energy Transition Research Center Perspectives Dan D. Micu, Technical University of Cluj-Napoca, Romania
14:10-14:35	I	Title: Marine Renewable Energy, an Important Resource towards a Low Carbon Future Eugen Rusu, University of Galati, Romania
14:35-15:00	I	Title: Wave Energy Extraction in the Context of the Climate Change Liliana Rusu, University of Galati, Romania
15:00-15:25	I	Title: Smart Monitoring of Civil Infrastructures Laura Inzerillo, University of Palermo, Italy
15:25-15:50	I	Title: Innovative Ecological Solutions in the Management of International Cargo Transport Piotr Masloch, War Studies University Warsaw, Poland
15:50-16:05		Refreshments Break
16:05-16:30	I	Title: Innovative Ecological Solutions in the Management of International Cargo Transport Tomasz Jalowiec, War Studies University Warsaw, Poland
16:30-16:55	I	Title: Combustion and NOx Emission for Low Calorific Value Fuels Jobaidur Khan, University at Buffalo, USA
16:55-17:20	I	Title: Cost Effective Transition to Sustainable Decarbonised Energy Systems Hossein Ameli, Imperial College London, UK
17:20-17:45	I	Title: Experimental Investigation of a Liquid Desiccant System for Solar Cooling and Air Conditioning Gershon Grossman, Israel Institute of Technology, Israel
End of Day - 02		

DAY 03 | MARCH 23, 2022

		Invited Session
Session-04		Environmental Impact Assessment & Photovoltaic Technology Session Chair: João Murta Pina, Portugal Session Co-Chair: Nabil Abdel Jabbar, UAE
09:30-09:55	I	Title: Emerging Inorganic Thin Film Photovoltaic Technologies: What's Next? Edgardo Ademar Saucedo Silva, Polytechnic University of Catalonia, Spain
09:55-10:20	I	Title: Solution Phase Synthesis of Inorganic Nanoparticle, Films and Solar Cells Agrawal Rakesh, Purdue University, Indiana

10:20-10:45	I	Title: An Ecosystem for Optimising the Design of Photovoltaic Plants for Prosumers Joao Murta Pina , <i>NOVA University of Lisbon, Portugal</i>
10:45-11:10	I	Title: Data Driven Failure Prediction of Wind Turbine Components James Carroll , <i>University of Strathclyde, UK</i>
11:10-11:25		Refreshments Break
11:25-11:50	I	Title: Hydrogen Production Via Formic Acid Photocatalytic Decomposition Over Copper-Iron-Based Materials Under Visible Light Issa-Hamoud Houeida-Chloe , <i>Normandie Universit, France</i>
11:50-12:15	I	Title: New Hybrid Zeolite-Polymer Materials for Membranes' Applications Rita Zakhia Douaihy , <i>Laboratoire Catalyse et Spectrochimie, France</i>
12:15-12:40	I	Title: Analysis of Heat Transfer Performance and Thermal Characteristics of Hybrid Nanofluids via Application of Fractional Model Talha Anwar , <i>King Mongkut's University of Technology Thonburi, Thailand</i>
12:40-13:05	I	Title: Large Scale Energy Harvesting from Rainfalls: The Introduction to the Idea Rain Panel Ali Ghaffarinejad , <i>Instituto de Ciencia de Materiales de Sevilla, Spain</i>
13:05-13:45		Lunch Break
13:45-14:10	I	Title: Environmental Impact Assessment- An Oil and Gas Industry Perspective Nabil Abdel Jabbar , <i>American University of Sharjah, UAE</i>
14:10-14:35	I	Title: Will be updated soon. Aleksandar Rudnik Milanovic , <i>Rudnik Urbanism Design Architecture, Serbia</i>
14:35-15:00	I	Title: Harmonic Mitigation and Stability Analysis for VSC Grid -Integrated System Tamara Egamnazarova , <i>North China Electric Power University, China</i>

March 24, 2022 | Virtual Presentations

Starts @ Beijing Time Zone (GMT + 8)

09:00-09:10		Introduction
09:10-09:50	P	Title: Next Generation Solar Cells: Which One Will Win the Race? Hongxia Wang , <i>Queensland University of Technology, Australia</i>
09:50-10:30	P	Title: Harnessing Thermal Waste Heat – Towards a Sustainable Future Chua Kian Jon Ernest , <i>National University of Singapore, Singapore</i>
10:30-11:10	P	Title: Self-gating in Semiconductor Electrocatalysis Zheng Liu , <i>Nanyang Technological University, Singapore</i>
11:10-11:40	K	Title: Feasibility Study on Energy Supply Chain Combining Renewable Energy and Hydrogen Akira Nishimura , <i>Mie University, Japan</i>
11:40-12:10	K	Title: Fundamentals of Supercritical CO ₂ Fluid Based Energy and Storage Systems Lin Chen , <i>Institute of Engineering Thermophysics, Chinese Academy of Sciences & UCAS, China</i>

12:10-12:40	K	Title: Fiber-based Wearable Energy Storage Devices Zheng Zijian, Hong Kong Baptist University, China
12:40-13:10	K	Title: Dynamic Performances of Wind Turbine Supporting Structures Under Multi-Hazard Loading and Disaster Mitigation Study Kaoshan Dai, Sichuan University, China
13:10-13:35	I	Title: Development of Floating-Type Overhead Power Transmission System for Offshore Renewable Energy: Design and Numerical Modeling of Mechanical System Hongzhong Zhu, Kyushu University, Japan
13:35-14:00	I	Title: The Possibilities and Limitation of our Research for Body Composition with Bioelectrical Impedance Analysis Nagato Katsura, Kobe university, Japan
14:00-14:25	I	Title: Designing Sustainable Cities : Integration of Renewable Energy Sources and Cooperative Use of Distributed Energy Resource Ishii Hideo, Waseda University, Japan
14:25-14:50	I	Title: Thermochemical Hydrogen Production via Sodium Redox Cycle Takayuki Ichikawa, Hiroshima University, Japan
14:50-15:15	I	Title: Importance in Physical Separation for Creating Environment Friendly Recycling Process Shuji Owada, Waseda University, Japan
15:15-15:40	I	Title: Private Financing into Green Energy projects and Ghg Tax Naoyuki Yoshino, Keio University, Japan
15:40-16:05	I	Title: Modelling the Effect of the Co-Development of Natural Gas Distributed Energy and Renewable Energy Jiehui Yuan, Yichun University, China

March 25, 2022 | Virtual Presentations

Starts @ London, UK Time Zone (GMT)

09:15-09:25		Introduction
09:25-09:55	K	Title: Ternary Blend; An Efficient Approach to Boost Performance and Stability of Organic Solar Cells Tayebeh Ameri, University of Edinburgh, UK
09:55-10:20	I	Title: Energy Harvesting Using Magnetic Domain Transition in Thin-Film Strips Tomoo Nakai, Miyagi Prefectural Government, Japan
10:20-10:45	I	Title: Facile Room-Temperature Fabrication of Three-Dimensional Silver-Platinum Nanocoral Catalyst For Green Energy-Generation Technology Tai Thien Huynh, Ho Chi Minh City University of Natural Resources and Environment, Vietnam
10:45-11:15	K	Title: Elastocaloric-Based Systems for Cooling and Heat Pumping of Tomorrow: Sustain-EI and Check Temperature Claudia Masselli, University of Naples Federico II, Italy

11:15-11:40	I	<p>Title: Renewable Energy for Climate Friendly Lifestyles - Example Mobility Services with Battery Electric Vehicles</p> <p>Gerfried Jungmeier, <i>Joanneum Research, Life - Institute for Climate, Energy, and Society, Austria</i></p>
11:40-12:05	I	<p>Title: Energy and Waste Valorization from Construction and Building Materials</p> <p>Florian Huchet, <i>Gustave Eiffel University, France</i></p>
12:05-12:30	I	<p>Title: Overview on the Pumps-As-Turbine (Pat) Technology: Novel Performance Prediction Models and the Study of the Internal Fluid Flow Behaviour Through Computational Fluid Dynamics (Cfd)</p> <p>Mosè Rossi, <i>Marche Polytechnic University, Italy</i></p>
12:30-12:55	I	<p>Title: Reliability Monitoring of Silicon Carbide (Sic)-Based Power Electronic Converters</p> <p>Kamyar Mehran, <i>Cranfield University, UK</i></p>
12:55-13:20	I	<p>Title: Design of Sustainable Multimodal Electric Vehicle Charging Station: The benefits and drawbacks of Coordinate Charge</p> <p>Stefano Rinaldi, <i>University of Brescia, Italy</i></p>
13:20-14:00	P	<p>Title: Driving Sustainable Development through Energy Sustainability</p> <p>Marc Rosen, <i>University of Ontario Institute of Technology, Canada</i></p>
14:00-14:30	K	<p>Title: Current status of Electricity Generation in the World and Future Trends</p> <p>Igor Piore, <i>University of Ontario Institute of Technology, Canada</i></p>
14:30-14:55	I	<p>Title: Key Technological Aspects of Electromagnetic Energy Harvesting with CMOS-based Energy Converters for Battery-less Devices Used in Smart Wireless Networks</p> <p>Constantin Nicolas, <i>University of Quebec, Canada</i></p>
14:55-15:20	I	<p>Title: Multi-mode Adaptive Power Electronic Converters for Enabling Smarter Energy Conversion</p> <p>John Lam, <i>York University, Canada</i></p>
End of The Conference		



RENEWABLEMEET2023

MARCH 13-15, 2023 | ROME, ITALY

2ND INTERNATIONAL MEET ON RENEWABLE AND
SUSTAINABLE ENERGY