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ICONIC MEETINGS
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Eco-Energy Summit-2024
September 23-25, 2024 | Tokyo, Japan

International Experts Summit on

Evolving Sustainable and Renewable Energy Solutions

September 23-25, 2024 | Tokyo, Japan

Contact Us:

Tim Anderson

Conference Organizing Manager

Phone: +33156036606, +16626671669, +918074111592

Email: ecoenergysummit2024@iconic-meetings.com

Website: <https://www.sustainableenergy.theiconicmeetings.com/>

The Iconic Meetings Group, Hyderabad, India

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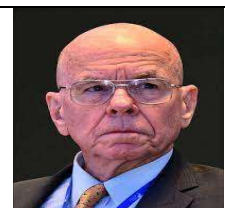
Scientific Sessions

Solar Energy
Wind Power Energy
Hydro Power
Geothermal Energy
Hydrogen and Fuel Cells
Biomass (Biofuel, Biogas and Biomass)
Photovoltaic cells
Material sciences
perovskite and piezoelectric cell
Nuclear Energy





Desalination
Sustainable and Clean Energy
Power Energy Management
Smart Grids and Simulations
Global Challenges in Energy
Energy storage and Conversion
Fuel Cells and Applications
Renewable Energy and Grid Integration
Environment & pollution issues
Nano energy
Wave Energy

Pleanary Presentations | 45 Minutes

Moderator: **To be Announced**



Isolated sleep paralysis: Clinical features, perception of a etiology, prevention and disruption strategies in a large international sample
Barry Sharpless, Stanford University, USA

	Nuclear accumulation of host transcripts during Zika Virus Infection Carolyn R. Bertozzi , Stanford University, USA
	Multi-Vector Energy Storage for Carbon Neutrality Yulong Ding , Birmingham University, UK
	To be Announced CHUA Kian Jon , National University of Singapore, Singapore
	To be Announced Zhangxing Chen , University of Calgary, Canada

Keynote Presentations | 35 Minutes

Chair: **To be Announced**

Energy in industrial circularity Thomas Parker , Linköping University, Sweden
Producing a Novel Biodiesel from Waste Doner Kebab Fat and Assessing its Fuel Properties Under Different Production Conditions Batuhan Erden , Middle East Technical University, Turkey
Production of Ethyl Esters using Jatropha Curcas Oil using of Lipase Eversa Transform 2.0 as Biocatalyst Andreia Fatima Zanette , São Paulo State University (UNESP), Brazil
Comparative Analysis of Various Nuclear Desalination Computation Salah Ud-Din Khan , King Saud University, Saudi Arabia
Visualization inside Fuel Cell and Lithium-Ion Battery Under Operation Modes Shuichiro Hirai , Tokyo Institute of Technology, Japan
A Direct Hybrid with Power Management for Aviation Applications Caroline Willich , Ulm University, Germany
Evaluating power generation and direct use with green energy resources Shah Kabir , University of Houston, Houston, TX, USA
Photoelectrocatalytic Study of N-Doped SrTiO ₃ Krateeka Madan , Indian Institute of Technology Madras, India
Nanostructured Mixed Oxides with an Ordered Morphology for Energy and Environmental Applications Elisa Moretti , Ca' Foscari University of Venice, Italy
Cold Nuclear Fusion Reactions in Constantan - Successful Experiments Dimiter Alexandrov , Lakehead University, Canada
Study and Design of Power Supply Based on Peltier to Charge the EV Battery Abdal Rahman , Marmara University, Turkey

Enhanced Voltage and Frequency Regulation via an Intelligent Droop-based Control Strategy in an Islanded Microgrid

Shu Godwill Ndeh, University of Buea, Cameroon

Harnessing Solar Energy for Sorption-based Water Harvesting in Arid Areas

Ahmed Mohamed Hamed Kandil, Mansoura University, Egypt

Condition Monitoring and Control of Wind Power Systems with Machine Learning

Xiandong Ma, Lancaster University, UK

The Impact of Leading-Edge Deflection Angle on the Performance of Horizontal Axis Wind Turbine Model

Aktham Mansi, Istanbul Technical University, Turkey

Smart Solutions to Enhance the Renewable Wind Energy Production Possibilities at Residential Areas

Fanel Scheaua, Dunarea de Jos University of Galati, Romania

Reliability of Offshore Wind Turbine Support Structures

Srinivas Sriramula, University of Aberdeen, UK

Thermal Management of Photovoltaic Panel using a Passive and Active Cooling Approach

Pravin D Sawarkar, Visvesvaraya National Institute of Technology, India

Applications of Nanofluids in Solar Energy

Awatef Abidi, King Khalid University, Saudi Arabia

Study Design of Photovoltaic Pumping System for the Water Supply of an Agricultural Diversity

Abdelbaki Yassaad, Department of Electronic Engineering/CAO laboratory, Algeria

Development of an Innovative Daylighting Louver System Based on a Parametric Control Technique

Ahamd Eltaweel, Edinburgh Napier University, UK

Enhanced Performance and Stability of Organic Solar Cells by Interface and Photo-Active Layer Engineering

Yuanbao Lin, University of Oxford, UK

Accelerating Decarbonization Initiatives for Fertilizer Industry in Indonesia: Case Study of Pupuk Indonesia (State-Owned Enterprise)

Syawaluddin Akbar, Pupuk Indonesia, Indonesia

Plasma-Assisted Premixed Ammonia Flames: A Numerical Study

Mehdi Jangi, University of Birmingham, UK

Copernicus and Europe's Energy Independence: A Review of the Potential Contribution of Earth Observation Data to the REPowerEU Plan

Ginevra Vittoria, European Space Agency, Italy

Design and Simulation for Net Zero Energy House

Omar, Abu Dhabi University College of Engineering, Saudi Arabia

Molecular Investigation on the Mechanisms of Nitrogen Transformation in Ammonia Utilization

Xi Jiang, Queen Mary University of London, UK

Investigation of a New Model Combining Solar Tower and Spherical Solar Still Techniques in Solar Desalination

Saad Eddine Lachhab, Ibn Tofail University Kenitra Faculty of Sciences Kenitra, Morocco

Alternative Clean Energy: Lignite-Waste Biomass Mixture
AYDAN, Malatya Turgut Özal University, Turkey

Power Estimation for Thermoelectric Harvesters in Low and Ultra-Low
Temperature Gradients through Dimensional Analysis
Simon Lineykin, Ariel University, Israel

Energy and Water Management Systems for Agro-Development of Rural
Communities
Doris Sáez, University of Chile, Chile

Coordinated High-Speed Voltage Control in Real-Time Unobservable Active
Distribution systems
Anamitra Pal, Arizona State University, Tempe, AZ

The Road to Renewable: 100% Renewable Electricity in New Zealand with Wind, Solar and
Seasonal Energy Storage
Stephen Poletti, University of Auckland, New Zealand

Renewable Energy Proliferation Trough Energy Community: Analysis of a Case Study from
Italy
Barbara Marchetti, The eCampus University, Italy

Optimal Sizing and Techno-Economic Feasibility Assessment of a Microgrid Consisting of
PV/Wind/Compressed Air Energy Storage System
Elaheh Bazdar, Concordia University, Canada

Towards 26% Efficient Solar Cells in Mass Production with Doped Poly-Silicon Passivating
Contacts
Daniel Macdonald, The Australian National University, Australia

Optimization of Laser Doping Selective Emitter for Silicon Solar Cells
Samir Meziani, Research Center on Semiconductors Technology for Energetics
(CRTSE), Algeria

Unusual Aspects of Thermoelectric Transport
Yuri G. Gurevich, CINVESTAV Department of Physics, Mexico

Rational design of advanced heterostructures for solar energy conversion
Anita Trenczek-Zajac, AGH University of Science and Technology, Poland

Perovskite materials: Alternative source of energy
Vipul Srivastava, Lovely Professional University, Phagwara, India

Enhancing Mechanical Properties through Jute Fabric Reinforcement in Poly Lactic Acid
Composites
Bharani Murugesan, K. S. Rangasamy College of Technology, India

Smart Conductive Hydrogel-Based Gluten/Guar Gum for Eco-Friendly Strain Sensor and
Self-Powered Device
Pornnapa Kasemsiri, Khon Kaen University, Thailand

A Study on the Kinetic Characteristics of Nanoscale Ceramic Powder Synthesis by
Microwave-Assisted Heat Treatment
Nam-Hee Cho, Inha University, South Korea

Atomic and Electronic Structures of Energy Materials Studied by in Situ Synchrotron X-Ray
Spectroscopy
Chung-Li Dong, Tamkang University, Taiwan

Que Vadis Domine - on Future Retrofitting Residential Buildings

Mark Bomberg, Clarkson University, Potsdam, NY, USA

Study on Form-Stable Composite Metallic Phase Change Materials

Geng Qiao, Global Energy Interconnection Research Institute Europe GmbH, Germany

Challenges of REs in the Early 21st Century

Reza Hafezi, National Research Institute for Science Policy (NRISP), Iran

Developments in Cybersecurity for Critical and Renewable Energy Infrastructure

Josef Schindler, Framatome GmbH, Germany

Renewable Energy Use by a Solar Powered Airship

Christoph Pflaum, University of Erlangen-Nuremberg, Germany

Renewable Energy and Global Challenges Associated with the Pursuit of Well-Being

Van Le, University of Economics Ho Chi Minh City (UEH), Vietnam

Worldwide Climate and Justice Education Week 2024

David E Blockstein, Annandale-on-Hudson, New York

Why Humans are Not Responsible for Global Warming

Digby Macdonald, University of California at Berkeley, Berkeley, CA

Product Redesign in the Circular Economy: Enhancing Material Conservation and Energy Generation for Sustainability

Ali Zahedi, Tecnologico de Monterrey, Mexico

Nutrient Content of Liquid Organic Fertilizer

Elisa Azura Azman, University Putra Malaysia, Malaysia

Charging Batteries for Renewable Energy using Light-Mediated

Christopher S. Johnson, Argonne National Laboratory, USA

Two-Dimensional Nanocomposite Functional Materials for Sustainable Energy Storage Applications

Ramasamy Jayavel, Anna University, India

High-Temperature Thermochemical Heat Storage by Complex Transition Metal Hydrides

Shahrouz Nayebossadri, University of Birmingham, UK

Mn₃O₄-NiFe Layered Double Hydroxides (LDH)/Carbon Composite Cathode for Rechargeable Zinc-Air Battery

Nivedha, Indian Institute of Technology Madras, India

Design of Layered Cathode and Electrolyte for Improved Sodium-ion Batteries

CHANG WOO LEE, Kyung Hee University, South Korea

A High-Performance Phenazine Based Cathode for Aqueous Organic Zinc-ion Battery

PRIYA. V., Indian Institute of Technology Madras, India

Combination of Nitro Isomers of Naphthoquinone on Delivering Improved Capacity and Cyclability to Zn-ion Batteries

Richa Gupta, Indian Institute of Technology Madras, India

Energy Conversion and Storage: Challenges from Materials' Science Perspectives

Riadh Neffati, University Tunis El Manar and King Khalid University, Saudi Arabia

An Empirical Study of the Impact of Greenwashing in Developed Versus Developing Countries

Shahrin Saaid Shaharuddin, University of Malaya, Malaysia

Techno-Economic Calculator for Hydrogen Transport and Storage: An Assessment Tool to Support Early-Stage Commercialization

Md Rizwan, DNV AS, Norway

Featured Presentations

In-Situ Integration of Co-Active Sites in MnO@C Composite for Zinc-Air Battery Driven Water Splitting

Gnanaprakasam Janani, Korea Institute of Energy Technology (KENTECH), South Korea

Nitrogen-Rich Functionalized Carbon Wrapped on Cop/Ag: A Dynamic Multifunctional Electrocatalyst for Zinc-Air Battery Driven Water Splitting System

Subramani Surendran, Korea Institute of Energy Technology (KENTECH), South Korea

Green Storage for Green Hydrogen: The Gas Hydrate Platform

Sahar Jafari Daghalian Sofla, McGill University, Canada

Low-cost Functionalized Graphene Nano Fiber/Nafion Composite Cation Exchange Membrane for Vanadium Redox Flow Battery application

Harun Khan, Indian Institute of Technology Madras, India

High Performance Non-Aqueous Organic Redox Flow Battery in Ambient Condition

Sandeep Kumar Mohapatra, Indian Institute of Technology Madras, India

Machine Learning Aided Capacitance Prediction for Hybrid Zinc-Ion Capacitors and Employing Organic Redox Additives for Enhancing the Energy Density

Sravani Potham, Indian Institute of Technology Madras, India

The Real Cost of Electric Vehicles: A Comparative Analysis of Community Participation and Foreign Investment in the Lithium Triangle

Thomas Martynowicz, University of Southern California, USA

Photoelectrocatalytic Study of N-Doped SrTiO₃

Krateeka Madan, Indian Institute of Technology Madras, India

Study In Transient Regime of The Electrical Parameters of a Silicon Solar Cell with Multi Vertical Junctions Connected in Parallel and Placed in Short-Circuit: Influence of Temperature and Magnetic Field

Pape Diop, Cheikh Anta Diop University of Dakar, Senegal

A Study on the Optimal Control Strategies of Hydrogen City in South Korea

MinSu Kim, Korea Electric Power Engineering & Construction (KEPCO E&C), South Korea

"Exploring the Significance of Hydrothermal Liquefaction Process in Biomass Conversion and the Prospects of Utilizing Waste Process Water in Diverse Sectors: An Investigative Study"

Sectors: An Investigative Study " Halil Durak, Yuzuncu Yil University, Turkey

Mounting Horizon of Green Energy Materials for Green Energy Storage Devices

R B Choudhary, Indian Institute of Technology, India

Titles to be Announced

Anastasia Vyalikh, Technical University of Dresden, Germany

Dalia Patino-Echeverri, Duke University, Durham, NC, USA

MUHAMMAD NAZRI REJAB, Universiti Tun Hussein Onn Malaysia, Malaysia

Su Ha, Washington State University, USA

Francesca VALETTI, University of Torino, Italy

DE PERSIS, ICARE CNRS Univ ORLEANS, France

OLALEKAN ADELEKE SHOGBESAN, SHOLEP ENERGY LIMITED, Nigeria

Yubiao Sun, Beijing Institute of Technology, China

Christine Backman, Cal Poly Humboldt, USA

Presentation Slots Available.....

Sponsorship & Exhibition Opportunity available