

3RD GLOBAL SUMMIT ON RENEWABLE AND SUSTAINABLE ENERGY

SEPTEMBER 10-11, 2025
BARCELONA, SPAIN



GSRSE-2025

September 10-11, 2025 | Spain

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Venue:
Hotel SB BCN Events,
Barcelona, Spain



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Day -1
Wednesday

International Conference

September 10-11, 2025 | Barcelona, Spain

Registrations & Opening Cermony (09:00-10:00)

Technical Session-I (10:00-11:00)

(Keynote)
10:00-10:30

Advancing Microalgae Biotechnology: Integrating Food Waste for Sustainable Bioenergy Production

Abdelfatah Abomohra, University of Hamburg, Germany

10:30-11:00

Transforming small holder irrigation systems from dysfunctional to functional climate smart agricultural systems and integration into circular food systems

Henning Bjornlund, Australian National University, Australia

Refreshment Break & Group Photo (11:00 - 11:30)

Poster Presentation (11:30-12:30)

Poster-I

Studying the affinity of pharmaceutical substances to accumulate in the Danube River sediments

Valentina Andreea Calmuc, Dunarea de Jos University Galati, Romania

Poster-II

Evidence of microplastic contamination in Alosa immaculata fish from the Lower Danube River

Madalina Calmuc, Dunarea de Jos University Galati, Romania

Poster-III

Individual and Combined Behaviors of Persistent and Emerging Pollutants in Sediments

Stefania-Adelina Milea, Dunarea de Jos University of Galati, Romania

Poster-IV

Comparative Study of Acid Mixtures for Sediment Digestion in TXRF: Focus on Heavy Metal Recovery and Accuracy

Nina-Nicoleta Lazar, Dunarea de Jos University of Galati, Romania

Poster-V

Removal of Phenol Red Dye from Polluted Water Using Sustainable Low-Cost Sewage Sludge Activated Carbon: Adsorption and Reusability Studies

Eid Hamed Alosaimi, University of Bisha, Saudi Arabia

**Day -1
Wednesday**

International Conference

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Lunch @ Restaurant (12:30 -13:30)

Technical Session-II (13:30-18:20)

Sustainable Finance: Shaping a Better World

13:30-14:00

Diana George, University of Surrey, UK

Responses of tropical forest soil organic matter pools to shifts in precipitation patterns

14:00-14:30

Feng Sun, South China Normal University, China

Predicting changes in wetland vegetation by 2100 in the context of climate change: the case of the brière marshes (France, Loire-Atlantique)

14:30-15:00

Thomas LAFITTE, University of Nantes, France

Soil biotic diversity response to precipitation changes with implications for soil function recovery

15:00-15:30

Rentao Liu, Ningxia University, China

Refreshment Break (15:30-15:50)

Preliminary Study on PCC-Chitosan's Ability to Enhance Microplastic Excretion in Human Stools from Healthy Volunteers

15:50-16:20

Claudio Casella, University of Oviedo, Spain

Therapeutic potential of siRNA PMP22-SQ nanoparticles for Charcot-Marie-Tooth 1A neuropathy in rodents and non-human primates

16:20-16:50

Liliane Massade, Université Paris-Saclay, France

The EU's Green Deal and Challenges in Croatia: A Study of Air Quality Deterioration and the Role of Renewable Energy in Driving Sustainable Development

16:50-17:20

Mirsada Cehic, University of Applied Sciences in Security and Safety, Croatia

The challenge of predicting energy demand in the Charging Stations Control Center (CSCC)

17:20-17:50

Victor Fernandez, Department of Applied Economics, Universitat de Valencia, Spain

SCIENTIFIC PROGRAM | September 10-11, 2025

Day -1
Wednesday

International Conference

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Towards Sustainable Management of Small Tuna Fisheries: Atlantic Bonito in Senegalese Waters

17:50-18:20

Ousmane Sarr, Shanghai Ocean University, China

Pannel Discussions

Day-1 Concludes

Virtual Scientific Program

Central European
Time



Join Zoom Meeting

Meeting ID: 854 2132 7198

Passcode: Urf@2025

**Day -2
Thursday**

International Conference

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09:00-09:30

Harnessing AI for ESG Integration in strategic Decision-Making

Ibrahim Abddalah, Torrens University, Australia

09:30-10:00

Simulation Study on Reservoir Stimulation of Multi-horizontal Wells for Gas Hydrate Production in Low-permeability Reservoirs

Li Xiaoyang, Chinese Academy of Geological Sciences, China

10:00-10:30

Turning Plastic Waste into Standard Automobile Fuel: A Techno-Economic Assessment

Md Jahirul Islam, Central Queensland University, Australia

Refreshment Break (10:30-10:50)

10:50-11:20

Insights into the relationship between nitrogen assimilation and lipid accumulation in algae

Huiying Zhang, Fujian Agriculture and Forestry University, China

11:20-11:50

Study on the Thermal-Seepage-Chemical Coupling Mechanism during the Oxidation and Spontaneous Combustion of Gas-Containing Coal

Tan Zhang, China Jiliang University, China

11:50-12:20

Chemical-Soil-Biological Engineering and Biogeosystem Technique Methodology in Ecosphere Sustainability

Valery P. Kalinichenko, Institute of Fertility of Soils of South Russia, Russia

12:20-12:50

Understanding desiccation tolerance as a tool for climate smart agriculture

Jill M. Farrant, University of Cape Town, South Africa

Lunch @ Restaurant (12:50-13:30)

13:30-14:00

A Techno-Economic Study of Biomass Gasification in Microgrids for Small Islands Energy Supply using HOMER

Lina Montuori, Universitat Politècnica de València, Spain

Day -2
Thursday

International Conference

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14:00-14:30

Alternative method to achieve full density in a short time for hard stainless-steel powdered materials

Mohammed Qasim Kareem, Miskolc University, Hungary

(Keynote)

14:30-15:00

AI-Powered Renewable Energy Forecasting and Optimising PV Systems for the Next Generation: Unparalleled Precision

Manoharan Madhidasan, Aarhus University, Denmark

15:00-15:30

Modelling mercury risks in the Amazon with new evidence for policy action

Vitor Sousa Domingues, Brazilian Institute of Environment and Renewable Natural Resources, Brazil

Refreshment Break (15:30-15:50)

15:50-16:20

Monitoring threats to wildlife using predictive analyses and visualizations from remote sensing data

Kristen Bellisario, Purdue University, USA

16:20-16:50

Sustainable Energy Generation from Plastic Waste: A Pyrolysis Approach for Industry

Dimitrios-Aristotelis Koumpakis, Aristotle University of Thessaloniki, Greece

16:50-17:20

Towards AI-Driven Discovery of Renewable Energy Materials: Thermoelectrics, Semiconductors, Catalysts, and More

Ankit Agrawal, Northwestern University, USA

17:20-17:50

Simulation of Residual Agroforestry Biomass Supply Chains: A Digital Dynamic Mapping

Bernardine Chigozie Chidozie, University of Aveiro, Portugal

17:50-18:20

Sustainable Energy Generation from Plastic Waste: A Pyrolysis Approach for Industry

Dimitrios-Aristotelis Koumpakis, Aristotle University of Thessaloniki, Greece

Closing Remarks

Day-02 Concludes