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, University of 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

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

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

13:30-14:00	**Sustainable Finance: Shaping a Better World** **Diana George,** University of Surrey, UK
14:00-14:30	**Responses of tropical forest soil organic matter pools to shifts in precipitation patterns** **Feng Sun**, South China Normal University, China
14:30-15:00	**Predicting changes in wetland vegetation by 2100 in the context of climate change: the case of the brière marshes (France, Loire-Atlantique)** **Thomas LAFITTE,** University of Nantes, France
15:00-15:30	**Soil biotic diversity response to precipitation changes with implications for soil function recovery** **Rentao Liu,** Ningxia University, China

Refreshment Break (15:30-15:50)

15:50-16:20	**Preliminary Study on PCC-Chitosan's Ability to Enhance Microplastic Excretion in Human Stools from Healthy Volunteers** **Claudio Casella,** University of Oviedo, Spain
16:20-16:50	**Simulation of Residual Agroforestry Biomass Supply Chains: A Digital Dynamic Mapping** **Bernardine Chigozie Chidozie,** University of Aveiro, Portugal
16:50-17:20	**Railway Tourism and Sustainability: The Case of the Vouga Historic Train in Águeda** **Eunice Duarte,** Polytechnic Institute of Lusophony, Portugal
17:20-17:50	**Towards Sustainable Management of Small Tuna Fisheries: Atlantic Bonito in Senegalese Waters** **Ousmane Sarr,** Shanghai Ocean University, China

Railway Tourism and Sustainability: The Case of the Vouga Historic Train in Águeda

17:50-18:20

Eunice Duarte, Polytechnic Institute of Lusophony, Portugal

Pannel Discussions

Day-1 Concludes

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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, Universitiy 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

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 Madhiarasn, 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

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

Ankit Agrawal, Northwestern University, USA

16:50-17:20

Cybersecurity as a Driver of Sustainable Digital and IoT Infrastructures

Emmanouil Serrels, Metropolitan College, Greece

Closing Remarks

Day-02 Concludes

WE WISH TO SEE YOU AGAIN AT

4th Global Summit on Renewable and Sustainable Energy
July 23-24, 2026
Vienna, Austria

&

5th International Congress on Earth and Geological Sciences
July 23-24, 2026
Vienna, Austria

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