

World Congress on

# Earth Science and Climate Change

March 24-25, 2025 | Barcelona, Spain



Hosted By:

**SCHOLARS CONFERENCES LIMITED**

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# SCIENTIFIC PROGRAM

Day 01 | March 24, 2025 | Barcelona, Spain

08:30-09:30 Registrations

09:30-09:40 Opening Ceremony

## Keynote Forum

- 09:40-10:15 **Title: Landscapes of sandy areas along a rainfall gradient of 90-450 mm average rainfall**  
Aaron Yair, Hebrew University, Israel
- 10:15-10:50 **Title: Global warming's "Six Americas" in agriculture: Exploring farmers' attitudes towards climate change and adaptive and mitigative responses**  
J Gordon Arbuckle, Iowa State University Department of Sociology, USA

Refreshments Break @ 10:50-11:10

## Speaker Session:

Session Chair: J Gordon Arbuckle, Iowa State University Department of Sociology, USA

- 11:10 - 11:35 **Title: Vulnerability, robustness and sustainability of the operation of the wastewater treatment plant and its importance for the circular economy in the light of climate change**  
Vesna Mislej, Jp Vodovod Kanalizacija Snaga, Slovenia
- 11:35 - 12:00 **Title: Analysis of forest loss in the amazon region from 1990 to 2020 using remote sensing data**  
Tiago Goulart, Earthworm Foundation, Brazil
- 12:00 - 12:25 **Title: DRAIN Project: An integrated urban drainage model in QGIS with IBER-SWMM**  
Namrata Karki, BGEO, Spain
- 12:25 -12:50 **Title: Enhancing trommel screen efficiency in waste management using discrete element method (DEM)**  
Raul Soriano, Instituto Tecnologico de Aragon, Spain

Lunch and Networking Break @ 12:50-13:40

## Speaker Session:

Session Chair: Johannes Leis, Sächsisches Textilforschungsinstitut eV Chemnitz (STFI), Germany

- 13:40-14:05 **Title: Topics, trends and perspectives in the research and development on textile circularity**  
Johannes Leis, Sächsisches Textilforschungsinstitut eV Chemnitz (STFI), Germany
- 14:05-14:30 **Title: Sustainable reuse of lead-acid battery waste for perovskite optoelectronics and solar cells**  
Mariana Berruet, National University of Mar del Plata, Argentina
- 14:30-14:55 **Title: Increasing recycled content in circular knitted fabrics with corizon technology**  
Henrike Schmitz, Technische Universität Chemnitz, Germany
- 14:55-15:20 **Title: Footwear recycling pilot plant as sustainable solution and clean technology for the industry**  
Borja Mateu Romero, INESCOP, Spain
- 15:20-15:45 **Title: Problems and solutions for mechanical recycling of mixed fiber waste from knitted used textiles**  
Magdalena Kohler, Technical University Chemnitz, Germany

**Refreshments Break @ 15:45-16:05**

- 16:05-16:40** **Title: Recovery of rare earth elements for environmental catalytic applications**  
Maria Teresa de Jesus Simoes Campos Tavares, University of Minho, Portugal  
Antonio Jose Guerreiro de Brito, University of Lisbon, Portugal
- 16:40-17:05** **Title: Carboneus and magnetic nanomaterials for oil/hydrocarbons removal from water**  
Thamer Adnan Abdullah, University of Technology, Iraq

**Panel Discussions & B2B Meeting****Day 01 End | Closing Ceremony****Day 02 | March 25, 2025 | Barcelona, Spain****08:30-09:30 : Registrations****09:30-09:45 : Opening Ceremony****Speaker Session****Session Chair: J Gordon Arbuckle, Iowa State University Department of Sociology, USA**

- 09:30-09:55** **Title: Project agro2circular and how delamination recycling enables a closed loop recycling of packaging**  
Julien Davin, Saperatec GmbH, Germany
- 09:55-10:20** **Title: Beyond Data: The Power of Storytelling to Drive Ocean and Climate Action**  
Neus Figueras, ICM-CSIC, Spain
- 10:20-10:45** **Title: Impact of drip emitter configuration on irrigation efficiency and soil water isotope ratios in a hazelnut orchard**  
Firas Al Oqaili, University of Technology, Iraq

**Refreshments Break @ 10:45-11:05**

- 11:05-11:30** **Title: Oxidative liquefaction as a sustainable recycling approach for polymeric waste: Process optimization and valorization of wind turbine blades, personal protective equipment, solar panels, and municipal solid waste**  
Hamza Mumtaz, Silesian University of Technology, Poland
- 11:30-11:55** **Title: End-of-life reverse osmosis membranes: Waste minimization and recycling**  
Hiren D Raval, Central Salt and Marine Chemicals Research Institute, India
- 11:55-12:20** **Title: Importance of mapping in the analysis of climate change risk impacts and the pathways to resilience**  
Marta Henrich Grino, Anthesis, Spain
- 12:20-12:45** **Title: Recent climate change forcings on coastal upwellings and artisanal fishery of Sardinella aurita in Venezuela**  
Alexis Bellorin, National Fisheries and Aquaculture Research Center (CENIPA), Venezuela
- 12:45-13:10** **Title: From Science to Action: Youth Advocacy and Research for Effective Climate Change Policies**  
Andrea Bigorra, University of Barcelona, Spain

**Panel Discussions & B2B Meeting****Day 02 End | Closing Ceremony****Lunch and Networking Break @ 13:10-13:50**

Keynote Forum

- 14:00-14:25 **Title: A framework of recycling and waste management for establishing a resource circulation society**  
Dai-Yeun Jeong, Director of Asia Climate Change Education Center, South Korea
- 14:25-14:50 **Title: Objectives and methods of battery recycling: A comprehensive overview**  
Roger Achkar, Global Waste Cleaning Network (GWCN), UK

Speaker Session:

Session Chair: Roger Achkar, Global Waste Cleaning Network (GWCN), UK

- 14:50-15:15 **Title: Management of waste from post-consumer wind power farms in the brazilian scenario**  
Erika Alves Tavares Marques, Universidade Federal de Pernambuco, Brazil
- 15:15-15:40 **Title: Wind farm decommissioning stage in Argentina**  
Maria Pia Di Nanno, National Technological University, Argentina
- 15:40-16:05 **Title: Unpacking paper's potential**  
Clara Navarro Veiga, DS Smith, United Kingdom
- 16:05-16:30 **Title: Measuring circular economy in cities**  
Portia M Sinnott, MS+ and Springloop Coöperatie UA, USA
- 16:30-16:55 **Title: Adopting nature-based solutions to avoid the tipping point in the Amazon**  
Carlos A Nobre, University of Sao Paulo, Brazil

E-Poster Presentation

- 16:55-17:20 **Title: Extreme Value Distribution of Sea Level and Statistical Estimation Theory: An Application to the Alboran Sea**  
Jose Juan Alonso del Rosario, University of Cadiz, Spain
- 17:20-17:45 **Title: Effects of maize stalk and farmyard manure compost application on rice productivity and soil properties**  
Sabeela Yaqoob, University of Agriculture, Pakistan
- 17:45-18:05 **Title: Analysis of the flooding of coastal areas caused by climate change. Practical case on beaches in the provinces of Cadiz and Malaga**  
Antonio Contreras de Villar, University of Cadiz, Spain
- 18:05-18:30 **Title: Modifications in the phytochemical composition of broccoli in response to different growing temperatures**  
Ivana Sola, University of Zagreb, Croatia
- 18:30-18:55 **Title: Phytochemical resilience and bioactivity of broccoli in response to temperature stress: Susceptible**  
Ivana Sola, University of Zagreb, Croatia
- 18:55-19:20 **Title: Sustainable energy production from brewery solid wastes**  
Vasileiadou Agapi, University of Thessaly, Greece

Panel Discussions & B2B Meeting

Day 02 In-person End | Closing Ceremony

## Bookmark Your Dates

### **2<sup>nd</sup> Global Summit on Recycling and Waste Management**

March 25-26, 2026 | London, UK  
[recycling@scholarconferences.org](mailto:recycling@scholarconferences.org)  
<https://scholarconferences.com/recycling/>

### **3<sup>rd</sup> World Congress on Earth Science and Climate Change**

March 25-26, 2026 | London, UK  
[earthscience@frontiersevents.com](mailto:earthscience@frontiersevents.com)  
<https://earthscience-climatechange.scholarconferences.com/>

