



IN-PERSON CONFERENCE

PROGRAM- AT-A-GLANCE



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SCIENTIFIC PROGRAM



4th Global Summit on

ADVANCES IN EARTH SCIENCE AND CLIMATE CHANGE

September 29-30, 2025 | Berlin, Germany

<https://advanced-earth-climate-change.peersalleyconferences.com/>

SCIENTIFIC PROGRAM

DAY 01

MONDAY

SEPTEMBER 29, 2025

HALL 01

08:00-08:30

Registrations

08:30-08:40

Inaugural Ceremony

Moderator

Paolo Porto, *University Mediterranea of Reggio Calabria, Italy*

Topics: Earth Science | Climate Change | Ecology | Geology | Environmental Science | Soil Science | Recycling | Renewable Energy | Green Energy | Hydrology | Pollution Control | Biodiversity | Remote Sensing | Atmospheric Chemistry | Natural Hazards | Oceanography | Climate Change Mitigation Strategies | Climate Education and Outreach

Distinguished Speaker Talks

Session Chair

Albert Fässler, *Bern University of Applied Sciences, Switzerland*

Session Chair

A. Miguel Piecho-Santos, *Portuguese Institute for the Sea and the Atmosphere (IPMA), Portugal*

08:40-09:00

Title: Using Cs-137 Resampling Method as a Tool to Assess Soil Erosion

Paolo Porto, *University Mediterranea of Reggio Calabria, Italy*

09:00-09:20

Title: From Canoes to Industrial Fishing: The Fishing Vessels Ocean Observing Network (FVON)

A. Miguel Piecho-Santos, *Portuguese Institute for the Sea and the Atmosphere (IPMA), Portugal*

09:20-09:40

Title: Gasification, a Viable Solution to Decarbonize a Carbon-Loaded Energy System

Qianlin Zhuang, *EcoZenergy & Industrials LLC, USA*

09:40-10:00

Title: Higher Education Institutions' Roles in Climate Change Mitigation

Jouni Kekäle, *University of Eastern Finland, Finland*

10:00-10:20

Title: Mankind Problem Climate Change

Albert Fässler, *Bern University of Applied Sciences, Switzerland*

GROUP PHOTO 10:20-10:30

REFRESHMENT BREAK 10:30-10:50

10:50-11:10

Title: Optimized Renewable Energy Planning in China

Fangfang Li, *China Agricultural University, China*

11:10-11:30

Title: Estuarine Heatwaves under Climate Change

Marisela Des Villanueva, *Universidade de Vigo, Spain*

11:30-11:50

Title: STEM, Masculinity and the Periphery: Adolescent Science Capital in the Face of Global Challenges

Revital Duek, *Bar-Ilan University, Israel*

11:50-12:10

Title: Why Traditional Rural Landscapes are still Important to our Future

Antonio Santoro, *University of Florence, Italy*

12:10-12:30

Title: Possible Alternatives for the Mexican Electrical System to Achieve the Goals of the Transition toward Clean Energy

Francisco Ortiz Arango, *Universidad Panamericana, Mexico*

12:30-12:50

Title: Earthquakes: Lithosphere-Atmosphere Interactions and Biological Implications in the Northern Apennines (Italy)

Valentino Straser, *University of Makeni, Sierra Leone*

GROUP PHOTO 12:50-13:00

LUNCH BREAK 13:00-13:40

13:40-14:00

Title: The Construction Progress of New Energy Bases in China's Desert, Gobi, and Arid Areas

Qia Wang, *Institute of Quantitative and Technological Economics (IQTE), Chinese Academy of Social Sciences (CASS), China*

14:00-14:20

Title: Mooring of Ships in Very Restricted Port areas and Determination of Tugboat Pulling Force during Ship Mooring Operations

Vytautas Paulauskas, *Klaipeda University, Lithuania*

14:20-14:40

Title: A Comprehensive Study of Downscaling using Model Tree for Climate Change

Shreenivas Londhe, *Vishwakarma Institute of Technology, Pune, India*

14:40-15:00	<p>Title: A Matter of Energy Injustice? A Comparative Analysis of Biogas Development in Brazil and Italy</p> <p>Andrè Mateus Bertolino, <i>Federal Institute of Education, Science and Technology of Paraná (IFPR) Pontifical Catholic University of Paraná (PUCPR), Brazil</i></p>
15:00-15:20	<p>Title: Determining Surface Resistance to Overland Flow in Semi-Arid Field Conditions with Low Reynolds Numbers</p> <p>Jose Ramon Barros Cantalice, <i>Rural Federal of Pernambuco University, Brazil</i></p>
15:20-15:40	<p>Title: SIMUTEC: A Multi-Sector Simulation Platform for the Systemic Impact Analysis of Urban Policies to Support Local Authorities in the Ecological Transition of their Territories</p> <p>ZERGUINI Seghir, <i>University of Bordeaux, France</i></p>
15:40-16:00	<p>Title: Adsorption Rate of Uranium and Thorium Isotopes in Soil and Plants Grown in a High Background Radiation Area</p> <p>Othman Abdulrahman Fallatah, <i>King Abdulaziz University, Saudi Arabia</i></p>
REFRESHMENT BREAK 16:00-16:20	
16:20-16:40	<p>Title: Fluorescent Chemosensors in the Detection of Ultra-Trace Quantity of Toxic Hg^{2+}, Pb^{2+}, Al^{3+}, F^-, AsO_4^{3-} & AsO_3^{3-} in Water towards Monitoring Humam Health and Management</p> <p>Samir Kanti Datta, <i>The Bhawanipur Education Society College (Affiliated to the University of Calcutta), India</i></p>
16:40-17:00	<p>Title: The Ancient Water Supply System of Saldae: Digitalization and Characterization (case of romain tunnel El Habel of Bejaia in Algeria)</p> <p>Souad Laoues, <i>Mouloud Mammeri University of Tizi Ouzou, Algeria</i></p>
17:00-17:20	<p>Title: Investigation of Radioactive Inventory and Microstructural Features along the Reactor Pressure Vessel of Greifswald Nuclear Power Plant-Future Insights in Decommissioning Process and Repository Conditions</p> <p>Ghada Yassin, <i>Helmholtz Zentrum Dresden Rossendorf HZDR, Germany</i></p>
17:20-17:40	<p>Title: Determinants of Sustainability-Driven Green Entrepreneurial Intentions among SMEs in the Electric Vehicle Component Industry</p> <p>Zhao Kongling (Sheila), <i>China International Council for the Promotion of Multinational Corporations, China Bufori Motor Car Company (M) SDN. BHD, Malaysia</i></p>

17:40-18:00

Title: Comparative Modelling of the Rainfall Runoff Pattern of the Solöz River using the WEAP Model within the Framework of Climate Change Scenarios

Bihter SEZER GÜNEY, *Bursa Uludağ University, Turkey*

18:00-18:20

Title: Pyrometallurgical Reduction of Copper Slag with Biochar for Metal Recovery

Desmond Attah-Kyei, *Metso Metals Oy, Finland*

NETWORKING

End of Day 1

SCIENTIFIC PROGRAM

DAY 02

TUESDAY

SEPTEMBER 30, 2025

HALL 01

08:30-08:40

Introduction

Moderator

Giovanna Lucia Piangiamore, *Istituto Nazionale di Geofisica e Vulcanologia, Italy*

Topics: Earth Science | Climate Change | Ecology | Geology | Environmental Science | Soil Science | Recycling | Renewable Energy | Green Energy | Hydrology | Pollution Control | Biodiversity | Remote Sensing | Atmospheric Chemistry | Natural Hazards | Oceanography | Climate Change Mitigation Strategies | Climate Education and Outreach

Distinguished Speaker Talks

Session Chair

Halvor Kvande, *Retired from Norsk Hydro, Norway*

Session Chair

Valentino Straser, *University of Makeni, Sierra Leone*

08:40-09:00

Title: Greenhouse Gas Emissions from Aluminium Production – The Way towards Net-Zero Emissions

Halvor Kvande, *Retired from Norsk Hydro, Norway*

09:00-09:20

Title: Natural Risk Reduction Educational Experiment at School: Through *Episodes of Situated Learning (ESL)* as Interactive Education

Giovanna Lucia Piangiamore & Alessandra Maramai, *Istituto Nazionale di Geofisica e Vulcanologia, Italy*

09:20-09:40

Title: Large-scale Atmospheric Circulation Modulates *Prosopis nigra* Growth in Subtropical Woodlands of Southeastern South America

Silvana María José Sione, *Universidad Nacional de Entre Ríos, CICyTTP CONICET, Argentina*

09:40-10:00

Title: Assessing the Impact of Climate Change on Future River Flows using Neural Networks: A Case Study of the Tagus River (Iberian Peninsula)

Diego Fernández Nóvoa, *Universidade de Vigo, Spain*

10:00-10:20

Title: Decoding Climate Complexity through a Knowledge Graph Approach to Empower Evidence-Based Policymaking

Vanni Resta, *Uninettuno International Telematic University, Italy*

GROUP PHOTO 10:20-10:30

REFRESHMENT BREAK 10:30-10:50

10:50-11:10

Title: The History of the Brazilian Sardine (*Sardinella brasiliensis*) between Two Fishery Collapses: An Ecosystem Modeling Approach to Study its Life Cycle

Rafael Schroeder, *Universidade do Vale do Itajaí (UNIVALI), Brazil*

11:10-11:30

Title: Digital Transformation: Patents as a Determinant Proxy for Industry 4.0

Luciana Peixoto Santa Rita, *Universidade Federal de Alagoas (UFAL), Brazil*

11:30-11:50

Title: The Effects of Increasing Ambient Temperature and Sea Surface Temperature due to Global Warming on Combined Cycle Power Plant

Ali Osman Büyükköse, *Enerjisa Enerji Uretim Inc., Turkey*

11:50-12:10

Title: From Kitchen and Farm Waste to Sustainable Textiles: Valorizing Onion Peels and Local Sheep Wool in Eco-Friendly Fabric Production

Diana Tuulik, *TTK University of Applied Sciences, Tallinn University of Technology, Estonia*

12:10-12:30

Title: Competitive Immobilisation of Heavy Metals using *Chrysopogon Zizanioides* from Multi- Metal Contaminated Soil

Sobha Cyrus, *Cochin University of Science and Technology, India*

12:30-12:50

Title: Analysis and Prediction of Land Cover Changes in Sinaloa's Coastal Zone, Gulf of California using Remote Sensing and GIS

Felipe Omar Tapia Silva, *Universidad Autónoma Metropolitana, México*

GROUP PHOTO 12:50-13:00

LUNCH BREAK 13:00-13:40

13:40-13:50
(Poster)

Title: Radial Growth of *Prosopis affinis* and its Relationship with Soil Water Content in Subtropical Woodlands of Argentina

Marcelo Germán Wilson, *Instituto Nacional de Tecnología Agropecuaria EEA Paraná/CONICET, Argentina*

13:50-14:10

Title: Sustainable Concrete with Artificial Aggregates Coming from Waste Pelletization

Valeria Corinaldesi, *Università Politecnica delle Marche, Italy*

14:10-14:30	<p>Title: Enhancing Properties of Coconut Shell Aggregate Concrete using Pre-Treated Coconut Shell Aggregates</p> <p>Deepa Balakrishnan S, <i>Cochin University of Science and Technology, India</i></p>
14:30-14:50	<p>Title: Application of Geophysical Techniques to Identify the Causes of Instability in Roadways Built on Conductive Ground (Fez region, Morocco)</p> <p>Ahmed Benamara, <i>University of Moulay Ismail, Morocco</i></p>
14:50-15:10	<p>Title: Numerical Modeling of Non-Equilibrium Model for Sediment Transport in Vegetated Channels by Roe Scheme</p> <p>Sanae JELTI, <i>ESTN of Mohammed First University, Morocco</i></p>
15:10-15:30	<p>Title: Environmental Sustainability of Fast-Moving Consumer Goods Companies in Nigeria: The Role of Green Logistics Practices</p> <p>Jude Chekwume Nwaulune, <i>Babcock University, Nigeria</i></p>
15:30-15:50	<p>Title: Juggling between Economic Growth and Tourism Sustainability: A Tale of Ladakh's Journey</p> <p>Ishika Jaiswal, <i>Indian Institute of Management Sambalpur, India</i></p>
15:50-16:10	<p>Title: Spontaneous Formation of Evolutionary Game Strategies for Long-Term Carbon Emission Reduction Based on Low-Carbon Trading Mechanism</p> <p>Zhanggen Zhu, <i>Guangzhou University, China</i></p>
REFRESHMENT BREAK 16:10-16:30	
16:30-16:50	<p>Title: A Practical Abdominal Voice Wearable Device Improves Nutritional Status and Reduces Risk Factors for Intradialytic Hypotension</p> <p>Chen Han, <i>National Taipei University of Technology, Taiwan</i></p>
16:50-17:10	<p>Title: Metropolitanization in India and Changing Ecology; Insights of Two Major Metros of India - Delhi & Mumbai</p> <p>Smita Salunke, <i>Akbar Peerbhoy College of Commerce & Economics, India</i></p>
17:10-17:30	<p>Title: Production of Organo-Mineral Fertilizer (OMF) using Organic Waste and Mineral Resources (Pozzolan and Limestone)</p> <p>Kpouyie Bintou, <i>Global Intergrate Sustainable Services, Cameroon</i></p>
17:30-17:50	<p>Title: Climate Change and Biogeochemical Cycles: Speciation of Trace Metal Elements and their Transfer to Alfalfa Plants (<i>Medicago sativa</i> L.)</p> <p>Lina Chebbi, <i>Paris-East Créteil University (UPEC), France</i></p>

Introduction

Distinguished Speaker Talks

Session Chair **Vytautas Paulauskas**, *Klaipeda University, Lithuania*

Session Chair **Francisco Ortiz Arango**, *Universidad Panamericana, Mexico*

10:50-11:10 Title: Modeling and Monitoring System for Circular Bio-Economy Implementation in Ukraine: Integration with EU Strategies, Agricultural Case Study

Orest Koleshchuk, *Lviv Polytechnic National University, Ukraine*

11:10-11:30 Title: Balancing Tourism Expansion and Ecosystem Sustainability: Experiences from Goa's Coastal Destinations (India)

Nandkumar Sawant, *Parvatibai Chowgule College (Autonomous), India*

11:30-11:50 Title: Enhancing the Efficiency of Lithium-Ion Batteries: The Role of Physical Properties in Anode Material Selection

Sikiru Surajudeen Olalekan, *Universiti Teknologi Mara, Malaysia*

11:50-12:10 Title: Human-Machine Partnership and Digital Communication: Practices of Distance Learning

Ryhor Miniankou & Aliaksandr Puptsau, *European Humanities University, Lithuania*

12:10-12:30 Title: Polysaccharide Nanoemulsions for Antifungal and Anthelmintic Applications

Flavia Oliveira Monteiro da Silva Abreu, *State University of Ceará, Brazil*

12:30-12:50 Title: Microplastic Presence and Pollution-Related Patterns in Native European Oyster, *Ostrea Edulis*, in the Solent Region

Giovanna Sidaoui Haddad, *University of Southampton, UK*

GROUP PHOTO 12:50-13:00

LUNCH BREAK 13:00-13:40

13:40-14:00 Title: Effect of Heatwaves on Milk Production

Yunus ÖZTÜRK, *Gebze Technical University, Turkey*

14:00-14:20 Title: The Antecedents of Customers' Green Purchase Intention: Bridging the Eco Gender Gap

Ibrahim Mahmoud Darwish, *Beirut Arab University, Lebanon*

14:20-14:40 Title: Is your Contribution Fair? How Countries Justify Equity in their NDCs

Oliver Herrera González, *University Research Institute for Sustainability Science and Technology, Universitat Politècnica de Catalunya, Spain*

14:40-15:00	<p>Title: Enhancing Growth and Essential Oil Quality of Peppermint (<i>Mentha piperita</i> L.) through Plant Growth-Promoting Rhizobacterial (PGPR) Applications</p> <p>Vagmi Singh, <i>CSIR-Central Institute of Medicinal and Aromatic Plants, India</i></p>
15:00-15:20	<p>Title: Improving Reference Evapotranspiration Predictions with Hybrid Modeling Approach</p> <p>Rimsha Habeeb, <i>Quaid-I-Azam University, Pakistan</i></p>
15:20-15:40	<p>Title: A Quantitative and Qualitative Assessment of Microplastics Collected at Two Public Beaches along the East and South-East Coast of Mauritius</p> <p>Kishore Boodhoo, <i>University of Mauritius, Mauritius</i></p>
15:40-16:00	<p>Title: Investigation of the Growth and Mortality of Bacteria and Synechococcus spp. in Unvegetated and Seagrass Habitats</p> <p>Patrichka Wei-Yi Chen, <i>National Taiwan Ocean University, Taiwan</i></p>
REFRESHMENT BREAK 16:00-16:20	
16:20-16:40	<p>Title: Menstruation in the Shadows of the Sea: The Untold Struggles of Coastal Women in Bangladesh</p> <p>Mohammed Julfikar Ali, <i>Presidency University, Bangladesh</i></p>
16:40-17:00	<p>Title: Leveraging Deep Learning for Early and Non-Invasive Detection of Red Palm Weevils: A Novel Approach to Sustainable Agriculture</p> <p>Amal Hussein Abbas, <i>Al-Mustansiriyah University, Iraq</i></p>
17:00-17:20	<p>Title: Influential Plant in Medicinal Science and Clove: Tiny Buds with Global Fame</p> <p>Royanama Rahimi, <i>Mashhad University of Medical Sciences, Iran</i> Arzoo Asadi, <i>Alice Salomon Hochschule, Germany</i></p>
17:20-17:40	<p>Title: Environmental, Social and Governance (ESG) Practice: Does ESG Disclosure Matter for Firms Performance in Nigeria?</p> <p>Mustapha Ibrahim, <i>University of Maiduguri, Nigeria</i></p>
17:40-18:00	<p>Title: Optimizing Food Supply Chains in the Portuguese Air Force: Reducing Waste and Enhancing Sustainability through Lean Principles</p> <p>Ana Filipa Ferreira Ventura Caseiro, <i>Portuguese Air Force Academy Research Centre, Portugal</i></p>
18:00-18:20	<p>Title: Women Fisher-Folk Barbados- A Gendered Lens</p> <p>Debra Joseph, <i>The University of the West Indies, Barbados</i></p>
NETWORKING	

End of Day 2




VIRTUAL CONFERENCE

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Sep 29-30-Oct 01, 2025

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SCIENTIFIC PROGRAM

DAY 01

MONDAY

SEPTEMBER 29, 2025

BST - BRITISH SUMMER TIME (UK TIME)

06:15-06:30

Welcome Note

Topics: Earth Science | Climate Change | Ecology | Geology | Environmental Science | Soil Science | Recycling | Renewable Energy | Green Energy | Hydrology | Pollution Control | Biodiversity | Remote Sensing | Atmospheric Chemistry | Natural Hazards | Oceanography | Climate Change Mitigation Strategies | Climate Education and Outreach

Distinguished Speaker Talks

06:30-06:50

Title: Scenario-Based Assessment of Carrying Capacity and Stocking Density to Inform Smart Grazing Strategies in Mongolia

Qinxue Wang, Regional Environment Conservation Division, National Institute for Environmental Studies, Japan

06:50-07:10

Title: Developing a Disaster Resilience and Adaptation Assessment Framework for Vulnerable Island Communities: An Importance-Performance Approach

Bih-Chuan Lin, Da-Yeh University, Taiwan

07:10-07:30

Title: Investigating the Transformation and Development of Traditional Markets Through Community Cohesion: A Case Study of the Nanhmen Traditional Market in Changhua

Ling-Jia Luo, Da-Yeh University, Taiwan

07:30-07:50

Title: Empowering People, Driving Micro-Innovation: Corporate Transformation for Resilient Energy Performance in Indonesia's State Electricity Company

Laila Refiana Said, Lambung Mangkurat University, Indonesia

07:50-08:10

Title: Analyzing Methane Emissions for Mumbai City using TROPOMI Data from Sentinel-5P Satellite and Sustainable Strategies for Control of Methane Gas Emissions

Vikas B. Varekar, Veermata Jijabai Technological Institute (VJTI), India

08:10-08:30

Title: Impact on Human Error, Environmental Factors and Equipment Failure on Mine Accidents: A Case Study in India

Bijay Mihir Kunar, National Institute of Technology Karnataka Surathkal, India

08:30-08:50	<p>Title: Global Trade and Food Security: Navigating Economic Imperatives in a Changing Climate</p> <p>Sukanya R., <i>CHRIST (Deemed to be University), India</i></p>
08:50-09:10	<p>Title: Addressing Water and Wastewater Issues in India: From Resource Assessment to Innovative Management</p> <p>Shilpa Saha, <i>Jadavpur University, India</i></p>
09:10-09:30	<p>Title: Emerging Threat of Bluetongue Disease in Ruminants of Eastern and North-Eastern Indian States <i>vis-à-vis</i> Changing Climate Scenario</p> <p>Siddhartha N. Joardar, <i>West Bengal University of Animal & Fishery Sciences, India</i></p>
09:30-09:50	<p>Title: Assessing Ecological Status and Management Practices of Renuka Wetland a Ramsar Site in India</p> <p>Deevena Elias, <i>Forest Research Institute, India</i></p>
REFRESHMENT BREAK 09:50-10:00	
10:00-10:20	<p>Title: Water Hyacinth and Wellbeing of Rural Women in Kerala: A Study of Gender and Nature from a Regenerative Ecosystem Perspective</p> <p>Ganga. P. Sreenivasan, <i>The Gandhigram Rural Institute- Deemed to be University, India</i></p>
10:20-10:40	<p>Title: Legally Induced Erosion of Traditional Practices of the Forest Dwellers in Assam, India and its Impact on Sustainable Forestry</p> <p>Jayanta Boruah, <i>Central University of Karnataka, India</i></p>
10:40-11:00	<p>Title: Synthesis of Biogenic Nanoparticles and its Application in Water-Based Drilling Fluids</p> <p>Borkha Mech, <i>Dibrugarh University, India</i></p>
11:00-11:20	<p>Title: The Formation of Scientific Forestry in Colonial India: The People, Land and the Forests</p> <p>Sandip Munshi, <i>BITS Law School, India</i></p>
11:20-11:40	<p>Title: Optimal Temperature Regime for Wheat Growth in the Ukrainian Steppe</p> <p>Petro Hrytsiuk, <i>The National University of Water and Environmental Engineering, Ukraine</i> Maryna Nehrey, <i>Collegium Helveticum, Switzerland</i></p>
11:40-12:00	<p>Title: Intelligent Systems and the Metaverse Renewable Energy Trading: An Open Innovation Modelling Approach</p> <p>Eleni G. Makri, <i>Unicaf, Cyprus</i></p>

12:00-12:20	<p>Title: Modification of Grinding Aids: Assessment of Energy Efficiency, Environmental Impacts, and Early-Age Mechanical Performance</p> <p>Veysel Kobya, <i>Uludağ University, Turkey</i></p>
12:20-12:40	<p>Title: Simple ODE Models for Interactions of Nature and Society</p> <p>Marino Badiale, <i>Università di Torino, Italy</i></p>
12:40-13:00	<p>Title: Novel Concept and Technologies of Sustainable Building Design</p> <p>Juergen Reichardt, <i>MSA Muenster School of Architecture, Germany</i></p>
LUNCH BREAK 13:00-13:30	
13:30-13:50	<p>Title: Plant Breeding Objectives that Address Climate Change Challenges</p> <p>Patrick Olweny Ayiecho, <i>Maseno University, Kenya</i></p>
13:50-14:10	<p>Title: Towards the Realisation of Green Infrastructure Projects in Ghana: A Fuzzy Evaluation and Gini Indexation of Key Drivers for Sustainable Resource and Waste Management</p> <p>Joseph Ignatius Teyey Buerthey, <i>Pentecost University, Ghana</i></p>
14:10-14:30	<p>Title: Design Education: Learning in the Context of Societal Challenges</p> <p>Carla Cadete, <i>Lusófona University, Portugal</i></p>
14:30-14:50	<p>Title: Fading Ground: Assessing Soil Degradation and Its Drivers in the Mediterranean Basin</p> <p>Carla Sofia Santos Ferreira, <i>Research Center for Natural Resources, Environment and Society (CERNAS), Polytechnic University of Coimbra, Portugal</i></p>
14:50-15:10	<p>Title: Combination of the First and Second Law of Thermodynamics to Assess Environmental Buildings Aiming at Achieving a more Inclusive Environment</p> <p>Carlos Eduardo Keutenedjian Mady, <i>Institute of Energy and Environment of the University of São Paulo, Brazil</i></p>
15:10-15:30	<p>Title: Estimation of Raindrop Characteristics for Damage Prevention in Offshore Wind Projects</p> <p>Karine dos Santos Rodrigues, <i>Foundation for Technological Development in Engineering (FDTE), Brazil</i></p>
15:30-15:50	<p>Title: Fashion, Textiles and Design for Sustainability: Relationships Mediated by UN Intergovernmental Guidelines and Reviewed in the Context of COP30 in Brazil</p> <p>Márcia Bergmann, <i>Pontifical Catholic University of Rio de Janeiro, Brazil</i></p>

15:50-16:10	<p>Title: Modeling a Century of Climate Change: Random Walk with Drift in Earth's Temperature Trends</p> <p>John Wang, <i>Montclair State University, USA</i></p>
REFRESHMENT BREAK 16:10-16:20	
16:20-16:40	<p>Title: Climate Change, Truth, and Nonhuman Animals</p> <p>Michael Allen, <i>East Tennessee State University, USA</i></p>
16:40-17:00	<p>Title: Generation of Monthly Flows in the Ica River Basin up to the La Achirana Hydrometric Station using the GR2M Precipitation-Runoff Model</p> <p>Angel Gabriel Ochante Sanchez & Diego Fermin Jonislla Rojas, <i>Universidad Privada del Norte, Peru</i></p>
17:00-17:20	<p>Title: Energy Optimal Speed Profiles for a Differential Drive Mobile Robot with Payload</p> <p>Mauricio Fernando Jaramillo Morales, <i>Universidad Autónoma de Manizales, Colombia</i></p>
17:20-17:30 (E-Poster)	<p>Title: Study of Plastic Waste on the Surface and Soil of a Stream Bank in Argentina</p> <p>Grigera Paladino Agustina, <i>Universidad Nacional del Centro de la Provincia de Buenos Aires (UNCPBA), Argentina</i></p>
NETWORKING	
End of Day 1	

SCIENTIFIC PROGRAM

DAY 02

TUESDAY

SEPTEMBER 30, 2025

BST - BRITISH SUMMER TIME (UK TIME)

06:15-06:30

Introduction

Topics: Earth Science | Climate Change | Ecology | Geology | Environmental Science | Soil Science | Recycling | Renewable Energy | Green Energy | Hydrology | Pollution Control | Biodiversity | Remote Sensing | Atmospheric Chemistry | Natural Hazards | Oceanography | Climate Change Mitigation Strategies | Climate Education and Outreach

Distinguished Speaker Talks

06:30-06:50

Title: Post-Conflict Economic Recovery and Land Policy in South Korea between 1948 and the Early 1960s

Jungho Park, *Cheongju University, South Korea*

06:50-07:10

Title: Exploring the Immeasurable Perceptual Dimensions in Louis Kahn's Geometric Spatial Compositions

Pin-Yin Liu, *Da-Yeh University, Taiwan*

07:10-07:30

Title: Recent Developments of 3R Activities in Indonesia

Endiarjati Dewandaru Sadono, *Asian Institute of Technology, Thailand*

07:30-07:50

Title: Rights and Resilience: Building a Framework for Indigenous Empowerment

Sarthak Goel, *School of Planning and Architecture, India*

07:50-08:10

Title: Challenges and Solutions for Water Security and Availability in South America

Navjot Hothi, *UPES, India*

08:10-08:30

Title: Tracking Plastic Pollution from Land to River along the Ganga Basin

Ekta Sharma, *Ganga Aqualife Conservation Monitoring Centre, Wildlife Institute of India (GACMC, WII), India*

08:30-08:50

Title: Harnessing the Potential of Millet-Based Microbes: A Sustainable Path for Health and Wellness

Kiran Kumar Mudnakudu-Nagaraju, *JSS Academy of Higher Education & Research, India*

08:50-09:10	<p>Title: Climate-Resilient Infrastructure and Land use Planning: Synergies for Sustainable Urban Transformation</p> <p>Aditya Singh, <i>Amrita Vishwa Vidyapeetham, India</i></p>
09:10-09:30	<p>Title: Material Testing Parameters as a Catalyst for Achieving Sustainable Development Goals</p> <p>Sunil Kumar Hemanth M, <i>Noorul Islam Centre for Higher Education, India</i></p>
09:30-09:50	<p>Title: Characterization of Driving Dynamics and Real-World Emissions in Heavy-Duty Vehicles Considering Load-Dependent Variability</p> <p>Saket Ranjan, <i>Indian Institute of Technology Madras, India</i></p>
REFRESHMENT BREAK 09:50-10:00	
10:00-10:20	<p>Title: Water Scarcity – Judicial Responses to the Disaster in Making</p> <p>Priya A Sondhi, <i>Sushant University, India</i> Anoop Kumar, <i>Central Bureau of Investigation, India</i></p>
10:20-10:40	<p>Title: How to Benefit From Halophyte Plants Under Global Climate Change? The Road to Using Potential of Salt Tolerant Barley Species to Increase Salinity Tolerance of Rice</p> <p>Vadim Volkov, <i>K.A. Timiriazev Institute of Plant Physiology, Russian Academy of Sciences, Russian Federation</i></p>
10:40-11:00	<p>Title: European Baykal and Landscape Society</p> <p>Nataliya Pozhidaeva, <i>The National landscape salvation fund (NLSF) & the International Informatization Academy of the General and Consultative Status of the ECOSOS UN, Russia</i></p>
11:00-11:20	<p>Title: (Re-)Circulation of Timber from an Architectural Perspective: A Review of Design Strategies, Opportunities and Challenges</p> <p>Rafael Novais Passarelli, <i>Hasselt University, Belgium</i></p>
11:20-11:40	<p>Title: The Challenge of Reducing the Extreme Dependency of Some CRM on Some Suppliers in Spain after the 2024 European Critical Raw Materials Act</p> <p>Macarena Larrea Bastera & Stephanía Mosquera López, <i>University of Deusto, Spain</i></p>
11:40-12:00	<p>Title: Integrating Circular Economy Principles in Business Strategies: A Policy-Driven Approach</p> <p>Williams Chibueze Munonye, <i>Linköping University, Sweden</i></p>
12:00-12:20	<p>Title: Higher Order Circularity Strategies in Wastewater Treatment: A Case Study from Vernacular Settlements of Sri Lanka</p> <p>Kappina Kasturige Kamani Sylva, <i>University of Peradeniya, Sri Lanka</i></p>

12:20-12:40	<p>Title: The Role and Status of Natural Resources (Mineral, Energy, and Water Resources) in Iran</p> <p>Mansour Ghorbani, <i>Shahid Beheshti University, Iran</i> Mohammad Aria Amini, <i>Golestan University, Iran</i></p>
12:40-13:00	<p>Title: Assessment of Amine-Based Grinding Aids in Terms of Grinding Efficiency, CO₂ Emissions and Environmental Impact</p> <p>Veysel Kobya, <i>Uludağ University, Turkey</i></p>
LUNCH BREAK 13:00-13:30	
13:30-13:50	<p>Title: Advancing Sustainability in Fashion Accessories: A Circular Economy Approach</p> <p>Josephine Aboagyewaa-Ntiri, <i>Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development, Ghana</i></p>
13:50-14:10	<p>Title: Exploring the Potential of CRMs for Green Transition in Ancient Mine Sites: An Example from Graphite Mines and Granite Quarries of Italian Alpine District</p> <p>Licia Santoro, <i>Università degli Studi di Torino, Italy</i></p>
14:10-14:30	<p>Title: <i>Faber 4.0</i>: Innovation, Digitalization and Circularity in the Wood-Furniture Sector</p> <p>Marina Block, <i>University of Naples Federico II, Italy</i></p>
14:30-14:50	<p>Title: Study of the Relationship between Annual and Extreme Daily Rainfalls in Algeria</p> <p>Abdelhadi Ammari, <i>LGEE. Ecole Nationale Supérieure de l'Hydraulique (ENSH), Algeria</i></p>
14:50-15:10	<p>Title: IoT Tank Level Measurement Device for Improving Water Distribution System Operation</p> <p>Maressa Brandão Ribeiro, <i>UFCEG, Brazil</i></p>
15:10-15:30	<p>Title: Development of Phytoproducts from Agave sisalana Waste Extract</p> <p>Lucinéia dos Santos, <i>São Paulo State University-UNESP, Brazil</i></p>
15:30-15:50	<p>Title: Automating Post-Disaster Image Classification for Enhanced Damage Assessment</p> <p>Sun Ho Ro, <i>AEOM, USA</i></p>

Title: Adoption of Reusable Transit Packaging in US Industries: A Framework for Enhanced Sustainability

15:50-16:10

Ivan Kudrenko, *Charleston, USA*
Lindsey Hall, *Topsham, UK*

NETWORKING

End of Day 2

SCIENTIFIC PROGRAM

DAY 03

WEDNESDAY

OCTOBER 01, 2025

BST - BRITISH SUMMER TIME (UK TIME)

06:00-06:10

Introduction

Topics: Earth Science | Climate Change | Ecology | Geology | Environmental Science | Soil Science | Recycling | Renewable Energy | Green Energy | Hydrology | Pollution Control | Biodiversity | Remote Sensing | Atmospheric Chemistry | Natural Hazards | Oceanography | Climate Change Mitigation Strategies | Climate Education and Outreach

Distinguished Speaker Talks

06:10-06:30

Title: Indicators to get you Home

Francis Hubbard, *Independent Researcher, New Zealand*

06:30-06:50

Title: The Food Crisis in the New Cold War Era and Korea's Response focusing on Food Recycling and Waste Management

Cherl-Ho Lee, *Korea Food Security Research Institute, Korea University, Republic of Korea*

06:50-07:10

Title: Analyzing Prefabricated Architecture in the Planning of Old Urban Spaces

Kai-Hong Lin, *DaYeh University, Taiwan*

07:10-07:30

Title: Innovative Timber Architecture: Spatial and Structural Exploration of Shigeru Ban's Works

Yi-Chun Liu, *Da-Yeh University, Taiwan*

07:30-07:50

Title: Textile Circularity and Planetary Boundaries: Aligning Industry with Europe's Green Transition

Purvi Zaveri, *Biocare Research (I) Pvt. Ltd., India*

07:50-08:10

Title: Sugarcane Bagasse Valorization for Pesticide Removal from Aqueous Environments

Ashish Kapoor, *Harcourt Butler Technical University, India*

08:10-08:30

Title: Understanding Consumer Sentiments towards Two-Wheeler Electric Vehicles: Implications for Organizational Sustainability and Corporate Social Responsibility

Sachin Balwantrao Deshmukh, *MIT World Peace University, India*

08:30-08:50

Title: Patliputra to Patna: Evolution of a Historic City into a Smart City

Rashmi Sharma & Tanvi Ranjana, *Banasthali Vidyapith, India*

08:50-09:10

Title: Pteridophytes in Phytoremediation and Environmental Sustainability

Nishika Jaishee, *The University of Burdwan, India*

09:10-09:30	<p>Title: Red King Crab as a Source of Unique Enzymes: Prospects for Waste Processing</p> <p>Evgeny Sogorin, <i>Institute of Biological Instrumentation of Pushchino Scientific Center for Biological Research RAS, Russia</i></p>
09:30-09:50	<p>Title: Investigation of Geodynamic Factors Impacted on Radon Emission using a Radiometric System with AI</p> <p>Azad Bayramov, <i>Republican Seismic Survey Center of the Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
REFRESHMENT BREAK 09:50-10:00	
10:00-10:20	<p>Title: Investigations of Paraffin Deposition Processes and Development of the Methods to Improve Rheological Parameters of Highly Waxy Oils</p> <p>Boranbayeva Laura Yergaliyevna, <i>Institute of Metallurgy and Ore Beneficiation, Kazakhstan</i></p>
10:20-10:30 (E-Poster)	<p>Title: Sustainable Strategies in Traditional Riyadh Housing</p> <p>Nouf Alaqeel, <i>Prince Sultan University, Saudi Arabia</i></p>
10:30-10:50	<p>Title: Hydrological Regimes under Future Land use and Climate Change: A Study for Three Watersheds in Iran</p> <p>Mostafa Naderi, <i>Institute for Advanced Studies in Basic Sciences (IASBS), Iran</i></p>
10:50-11:10	<p>Title: Impact of Climate Change on the Herpetofauna of Europe: Assessment and Forecasting Using GIS Modelling and Artificial Intelligence</p> <p>Oksana Nekrasova, <i>I.I. Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine, Ukraine</i></p>
11:10-11:30	<p>Title: Impact of Water Temperature on Chemicals Migration from Bottom Sediments under Experimental Conditions</p> <p>Zhezherya Tetiana, <i>Ukrainian Hydrometeorological Institute of the State Emergency Service of Ukraine National Academy of Sciences of Ukraine, Ukraine</i></p>
11:30-11:50	<p>Title: Proposed Study Design for Map-Based Approach to Flood Risk Assessment in Bwaise III in Kampala City, Uganda: An Indicator Approach</p> <p>Yawe Samuel, <i>Rakai District Local Government, Uganda</i></p>
11:50-12:10	<p>Title: Zimbabwe's Economy: Four Decades in Perspective (1980-2020)</p> <p>Kenneth Mahuni, <i>University of Mauritius, Mauritius</i></p>
12:10-12:30	<p>Title: Developing Relationships for Hydrological Drought Characteristics by Copula Functions</p> <p>Ibrahim Halil DEGER, <i>Hasan Kalyoncu University, Turkey</i></p>
12:30-12:50	<p>Title: Integration of Earthen Materials in the Lebanese Construction Industry</p> <p>Yathreb Sabsaby, <i>Beirut Arab University, Lebanon</i></p>
LUNCH BREAK 12:50-13:20	

13:20-13:40	<p>Title: Trade-offs between Lean, Green and Agile Practices and their Impact on Environmental and Operational Performance</p> <p>Akram EL KORCHI, <i>IBN ZOHR University, Morocco</i></p>
13:40-14:00	<p>Title: Phosphate Glass Electrolytes for Solid-State Lithium-Ion Batteries: A bibliometric Analysis</p> <p>Hicham Es-soufi, <i>National Higher School of Chemistry (NHSC), Ibn Tofail University, Morocco</i></p>
14:00-14:20	<p>Title: Assessing Landslide Risks and Vulnerabilities in Ghana: A Geospatial Modeling Approach</p> <p>Julia Quaicoe, <i>University of Cape Coast, Ghana</i></p>
14:20-14:40	<p>Title: Lifecycle Engineering of Laser Beam Manufacturing Systems for EV Fuel Cells: Driving Cost Savings and Operational Efficiency in Production</p> <p>Joseph Teye Ignatius Buerthey, <i>Pentecost University, Ghana</i></p>
14:40-15:00	<p>Title: Population Changes and Primary Healthcare Delivery in Ebonyi State, Nigeria</p> <p>Agatha Arochukwu, <i>National Population Commission, Nigeria</i></p>
15:00-15:20	<p>Title: Artificial Floating Islands Planted with <i>Polypogon monspeliensis</i> for Phytoremediating Rooftop Rainwater in the SemiArid Urban Area of Tunis (Tunisia)</p> <p>Soulwene KOUKI, <i>Water Researches and Technologies Center (CERTE), Laboratory of Treatment and Valorization of Wastewater, Tunisia</i></p>
15:20-15:40	<p>Title: Features of use of the Seismic Isolation Systems in the Conditions of Permafrost Melting</p> <p>Alexander A. Bubis, <i>V.A.Kucherenko of JSC RCC, Russian Federation</i></p>
15:40-16:00	<p>Title: Innovative Design Solutions for Sustainable Development of Urban Agriculture by Ecofeminism Perspective</p> <p>Jing Ruan, <i>University of Florence, Italy</i></p>
<p>NETWORKING</p> <p>End of Day 3</p>	

BOOKMARK YOUR DATES

5th Global Summit on

ADVANCES IN EARTH SCIENCE AND CLIMATE CHANGE

SEPTEMBER 2026 | LONDON, UK