



Peers Alley Media

1126 59 Ave East, V5X 1Y9, Vancouver BC, Canada

WhatsApp No: +1 (506) 909-0537

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	<p>Title: Decoding Climate Complexity through a Knowledge Graph Approach to Empower Evidence-Based Policymaking</p> <p>Vanni Resta, <i>Uninettuno International Telematic University, Italy</i></p>
GROUP PHOTO 10:20-10:30	
REFRESHMENT BREAK 10:30-10:50	
10:50-11:10	<p>Title: The History of the Brazilian Sardine (<i>Sardinella brasiliensis</i>) between Two Fishery Collapses: An Ecosystem Modeling Approach to Study its Life Cycle</p> <p>Rafael Schroeder, <i>Universidade do Vale do Itajaí (UNIVALI), Brazil</i></p>
11:10-11:30	<p>Title: Digital Transformation: Patents as a Determinant Proxy for Industry 4.0</p> <p>Luciana Peixoto Santa Rita, <i>Universidade Federal de Alagoas (UFAL), Brazil</i></p>
11:30-11:50	<p>Title: The Effects of Increasing Ambient Temperature and Sea Surface Temperature due to Global Warming on Combined Cycle Power Plant</p> <p>Ali Osman Büyükköse, <i>Enerjisa Enerji Uretim Inc., Turkey</i></p>
11:50-12:10	<p>Title: From Kitchen and Farm Waste to Sustainable Textiles: Valorizing Onion Peels and Local Sheep Wool in Eco-Friendly Fabric Production</p> <p>Diana Tuulik, <i>TTK University of Applied Sciences, Tallinn University of Technology, Estonia</i></p>
12:10-12:30	<p>Title: Competitive Immobilisation of Heavy Metals using <i>Chrysopogon Zizanioides</i> from Multi- Metal Contaminated Soil</p> <p>Sobha Cyrus, <i>Cochin University of Science and Technology, India</i></p>
12:30-12:50	<p>Title: Analysis and Prediction of Land Cover Changes in Sinaloa's Coastal Zone, Gulf of California using Remote Sensing and GIS</p> <p>Felipe Omar Tapia Silva, <i>Universidad Autónoma Metropolitana, México</i></p>
GROUP PHOTO 12:50-13:00	
LUNCH BREAK 13:00-13:40	
13:40-13:50 (Poster)	<p>Title: Radial Growth of <i>Prosopis affinis</i> and its Relationship with Soil Water Content in Subtropical Woodlands of Argentina</p> <p>Marcelo Germán Wilson, <i>Instituto Nacional de Tecnología Agropecuaria EEA Paraná/CONICET, Argentina</i></p>

13:50-14:10	<p>Title: Sustainable Concrete with Artificial Aggregates Coming from Waste Pelletization</p> <p>Valeria Corinaldesi, <i>Università Politecnica delle Marche, Italy</i></p>
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>

HALL 02

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	<p>Title: The Antecedents of Customers' Green Purchase Intention: Bridging the Eco Gender Gap</p> <p>Ibrahim Mahmoud Darwish, <i>Beirut Arab University, Lebanon</i></p>
14:20-14:40	<p>Title: Is your Contribution Fair? How Countries Justify Equity in their NDCs</p> <p>Oliver Herrera González, <i>University Research Institute for Sustainability Science and Technology, Universitat Politècnica de Catalunya, Spain</i></p>
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>
NETWORKING	

End of Day 2

BOOKMARK YOUR DATES

5th Global Summit on

**ADVANCES IN EARTH SCIENCE
AND CLIMATE CHANGE**

SEPTEMBER 2026 | LONDON, UK