

# TENTATIVE AGENDA

## 2nd World Conference On Climate Change & Sustainability

OCTOBER 16-18, 2023 | ROME, ITALY

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# Tentative Program

Day 1

16-Oct-23

Courtyard by Marriott Rome Central Park

08:00-08:30 Registrations

Room 6

08:30-08:55 **Opening Ceremony**

Keynote Forum

08:55 -09:00 Guest Talk

09:00-09:25 **Title: Climate is the driving force in global phosphorus biogeochemical cycles**

**Zhang Jia-Zhong**, NOAA, USA

09:30-09:55 **Title: Transparency: how reporting and review underpin global climate action and support**

**Tibor Lindovsky**, UNCCC, Slovak Republic

10:00-10:25 **Title: The critical role of placed-based community knowledge in planning climate change adaptations**

**Steve Kroll-Smith**, Emeritus, University of North Carolina, USA

Group Photo & Coffee Break 10:30-10:50 @ Foyer

2 Keynote Presentation slots available

Session: **Climate Science & Climatology | Solutions for Climate Change**

**Session Introduction**

10:50-11:10 **Title: An 18-year climatology of hot and dry compound events in Europe**

**Elody Tania Fluck**, ESA ESRIN, Italy

11:15-11:35 **Title: Climate change and the occurrence of heavy rainfall and flooding in northern Poland. A case of**

**Gdańsk**

**Jacek Barańczuk**, University of Gdansk, Poland

11:40-12:00 **Title: Model to address climate change through public-private partnerships**

**Abhijit Banerjees**, University of Connecticut, USA

12:05-12:25 **Title: Impact analysis of climate change on rail infrastructure for adaptation planning: A Swedish railway infrastructure use-case**

**Adithya Thaduri**, Luleå University of Technology, Sweden

12:30-12:50 **Title: Net Zero - Heritage for Climate Action**

**Aparna Tandon**, ICCROM, Italy

12:55-13:15 **Title: Extreme weather events and gender: actions by women educators in Brazil**

**Amasa Ferreira Carvalho**, University of Campinas, Brazil

Panel Discussion

Lunch Break 13:20-14:00 @ Restaurant

14:00-14:20 **Title: Assessment of aerosols over five cities of Angola based on MERRA-2 reanalysis data**

**Pascoal Campos**, National Centre for Scientific Research, Angola

Session: **Sustainability & Climate Change | Global Warming Effects & Causes**

**Session Introduction**

14:25-14:45 **Title: Agroecosystem sustainability Index at the farm level: A targeted approach for sustainable agroecosystem measurement in the American Corn Belt**

**Donia Mühlematter**, Syngenta Crop Protection, Switzerland

14:50-15:10 **Title: SIDS & the climate, tourism, green energy nexus: A 'Biotrash' to cash sustainable approach**

**Kirk Douglas**, University of the West Indies, Barbados

15:15-15:35	<b>Title: Effects of climate changes on the fractional order thermoelastic properties of smart piezoelectric materials</b> <b>E. Bassiouny</b> , Fayoum University, Egypt
15:40-16:00	<b>Title: (Un)sustainable consumption: Mapping emerging trends in the wake of financial crises</b> <b>John Magnus Roos</b> , University of Gothenburg, Sweden
<b>Panel Discussion</b>	
<b>Coffee Break 16:00-16:20 @ Foyer</b>	

**Continued**

16:20-16:40	<b>Title: The technology-affluence nexus and its effect on GHG emissions in three regions</b> <b>Alessandro De Matteis</b> , University of East Anglia, UK
16:45-17:05	<b>Title: Climate change impacts on the distribution of Rhipicephalus sanguineus sensu lato in America</b> <b>Marcos Javier Sánchez Pérez</b> , UNAM, Mexico
17:10-17:30	<b>Title: Assessing the Energy Landscape in Cameroon: An Analysis of Alternative Pathways towards a Sustainable Energy System</b> <b>Yvan Ayuketah</b> , University of Buea, Cameroon
17:35-17:55	<b>Title: Multi-modeling scenarios from stakeholder dialogues to explore sustainable food and land use pathways for Argentina</b> <b>Federico Carlos Frank</b> , Universidad Nacional de La Pampa, Argentina
18:00-18:20	<b>Title: Characterization of CO2 concentrations in residence in Campinas-Brazil</b> <b>Andrea Patricia Lobato Cordero</b> , UNICAMP, Brazil
<b>3 Speaker Opportunities Available</b>	
<b>End of Day</b>	

**Day 2**

**17-Oct-23**

08:30-09:00	<b>Registrations</b>
<b>Room 6</b>	
<b>Keynote Forum</b>	
09:00-09:25	<b>Title: Integrating action for cleaner air and climate protection with focus on ultrafine particles (UFP)</b> <b>Andrzej Jagusiewicz</b> , EFCA, Poland
09:30-09:55	<b>Title: Sufficiency, the missing lever of climate and energy strategies and policies? Lessons from Europe and France</b> <b>Stephane Bourgeois</b> , Association négaWatt, France
10:00-10:25	<b>Title: Will be Updated Soon...</b> <b>Mark Campanale</b> , Carbon Tracker Initiative, UK
<b>Coffee Break 10:30-10:50 @ Foyer</b>	

**Session: Evidence of Climate Changes | AI & ML in Climate Change | Oceans & Climate Change**

**Session Introduction**

10:50-11:10	<b>Title: Long-Term Density Trend in the Mesosphere and Lower Thermosphere from Occultations of the Crab Nebula with X-Ray Astronomy Satellites</b> <b>Satoru Katsuda</b> , Saitama University, Japan
11:15-11:35	<b>Title: Virtual Reality for sustainability: Can technology enhance more sustainable lifestyles and processes?</b> <b>Generoso Branca</b> , University of Sannio, Italy

11:40-12:00	<b>Title: Local deities and customary laws reduce human-led pressures on mangroves and promote the resilience of their ecosystem services: Insights from the coastal zone of Benin, West-Africa</b> <b>Gnansounou Constant</b> , University of Namur, Belgium
12:05-12:25	<b>Title: Potential impact of sea level rise on the geomorphology of Kuwait state coastline</b> <b>Ahmed Hassan</b> , Matrouh University, Egypt
12:30-12:50	<b>Title: Envisioning corals: Developing a virtual reality application to communicate coral bleaching</b> <b>Paolo Boffi</b> , University of Milano-Bicocca, Italy
12:55-13:15	<b>Title: Trends of above- and below-ground litter decomposition rates and soil organic carbon stocks in forested wetland environment. A case study from Karacabey Floodplain Forest in Bursa, Türkiye</b> <b>Temel Sariyildiz</b> , Bursa Technical University, Turkey
<b>Panel Discussion</b>	

**Lunch Break 13:20-14:00 @ Restaurant**

14:00-14:20	<b>Title: Water quality modeling in atlantic region: Review and model implementation</b> <b>Hanane Rhomad</b> , Cadi Ayyad University, Morocco
Session:	<b>Climate Change Law &amp; Policy   Effective Adaptation   Together for Our Planet   Technology: Road to Net-Zero   Alternative Energy   Accelerating Action</b>

**Session Introduction**

14:25-14:45	<b>Title: States' duty to mitigate climate change and its quantification before courts</b> <b>Hana Müllerová</b> , Czech Academy of Sciences, Czech Republic
14:50-15:10	<b>Title: Identifying physiological and genetic determinants of faba bean transpiration response to evaporative demand</b> <b>Hend Mandour</b> , National Research Centre, Egypt
15:15-15:35	<b>Title: Urban Heat Island (UHI) effects on human health in Birmingham and its mitigation</b> <b>Nigar Parvin</b> , University of Birmingham, UK
15:40-16:00	<b>Title: The North-South economic inequality: Capitalism and the effects of climate change</b> <b>George Atisa</b> , University of Texas Rio Grande Valley, USA
<b>Panel Discussion</b>	

**Coffee Break 16:00-16:20 @ Foyer**

**Continued**

16:20-16:40	<b>Title: Photochemistry of light-blown bubbles in photochemically reactive liquid volatile organic compounds</b> <b>Dianwen Zhang</b> , University of Illinois, USA
16:45-17:05	<b>Title: Hydro geochemistry, isotopic and mineralogical evidence of new geothermal prospect in Central Mexico: Case of study of Rancho Nuevo, Guanajuato</b> <b>Jorge Federico Arturo Landa Arreguín</b> , National Autonomous University of Mexico, Mexico
17:10-17:30	<b>Title: Central banks and climate change: Mission impossible?</b> <b>Jay Cullen</b> , Edge Hill University, UK
17:35-17:55	<b>Title: Economic growth and environmental quality: analysis of government expenditure and the causal effect</b> <b>Mary Donkor</b> , Jiangsu University, China
18:00-18:20	<b>Title: Innovation laboratories for climate actions as the agents of change in terms of green transition</b> <b>Ana Aleknavičienė</b> , Vilnius College of Technologies and Design, Lithuania
<b>Breakout Room 2</b>	

Session: **Climate Modelling | Climate Science & Climatology | Sustainability & Climate Change | Evidence of Climate Changes**

**Session Introduction**

10:50-11:10 **Title: A climate justice based model for attribution and allocation of carbon budgets: Implications for climate policy and carbon markets**

**Malcolm Fabiyi**, OptimaBiome, USA

11:15-11:35 **Title: Precipitation anomalies associated with large fires in the Western Cape, South Africa**

**Daniel Sarel Boshoff**, North-West University, South Africa

11:40-12:00 **Title: The benefit of the photoneutralization technique for the future fusion reactors**

**Donatella Fiorucci**, RFX Consortium, Italy

12:05-12:25 **Title: Study of rainfall and hydrological droughts in Morocco: Characterization by indices on the Middle Atlas**

**Abdelghani Qadem**, Sultan Moulay Slimane University, Morocco

12:30-12:50 **Title: Climate change signal in global wine regions using koppen-geiger classification**

**Joao Carlos Andrade Santos**, UTAD, Portugal

12:55-13:15 **Title: Evaluation of the interconnectedness between microplastics and climate change: Potential threats to marine life and human health**

**Tosin Afeniforo**, Università degli Studi di Messina, Italy

**Panel Discussion**

**Lunch Break 13:20-14:00 @ Restaurant**

14:00-14:20 **Title: The Arctic sustainable future: Towards perfecting legal framework of governance**

**Alexander Vylegzhanin**, MGIMO University, Russia

14:25-14:45 **Title: Mining, climate change and indigenous peoples in Ontario, Canada: Impact assessments and the role of corporate social responsibility in supporting sustainable development**

**Nicolas Brunet**, University of Guelph, Canada

14:50-15:10 **Title: Microbial electrohydrogenesis cell and dark fermentation integrated system enhances biohydrogen production from lignocellulosic agricultural wastes: Substrate pretreatment towards optimization**

**Ndayisenga Fabrice**, University of Chinese Academy of Sciences, China

15:15-15:35 **Title: Bioplanning as a Discipline: The Future of cities using design for ecological harmony**

**Dror Benshetrit**, Supernature Labs, USA

15:40-16:00 **Title: A new approach for the mandatory application of the thermal regulation of construction (RTCM) in the future Moroccan buildings**

**Basma M'lahfi**, University Sidi Mohamed Ben Abdelah, Morocco

**Panel Discussion**

**Coffee Break 16:00-16:20 @ Foyer**

Continued

**4 Speaker Opportunities Available**

**End of Day**

**Day 3**

**18-Oct-23**

08:30-09:00 **Registrations**

**Room 6**

**Keynote Forum**

09:00-09:25 **Title: The biotic pump, hydrology and why we need rainforests to cool the planet**

**Peter Bunyard**, Independent, Cornwall, UK

09:25-09:50 **Title: A desirable approach to the establishment of climate change policies**

**Dai-Yeun Jeong**, Asia Climate Change Education Center, South Korea

09:50-10:15 **Title: Public procurement and the environment: How the EU regulates sustainable public purchasing**

**Sarah Schoenmaekers**, Maastricht University, Netherlands

Coffee Break 10:15-10:35 @ Foyer

Session: **Risks of Climate Change | Oceans & Climate Change | Economics of Climate Change | CO2 Capture and Sequestration | Renewable Energy to Mitigate Climate Change**

Session Introduction

10:50-11:10 **Title: Byzantine empire economic growth: Did Past climate change play a Role?**

**Thomas E. Lambert**, University of Louisville, USA

11:15-11:35 **Title: Best soil and water management practice for bioenergy sorghum production in Texas**

**Fugen Dou**, Texas A&M University System, USA

11:40-12:00 **Title: Climate obstruction and Facebook advertising: How a sample of climate obstruction organizations use social media to disseminate discourses of delay**

**Faye Holder**, InfluenceMap, UK

12:05-12:25 **Title: Advancing action: Exploring IoT-5G decision support systems prospects**

**Raul Fretes**, Universidade de Lisboa, Portugal

12:30-12:50 **Title: CO2 from a problem to an opportunity**

**Maurizio Acciarri**, UNIMIB, Italy

12:55-13:15 **Title: An international market for carbon removals**

**Elena Bonfiglio**, European Roundtable on Climate Change and Sustainable Transition, Belgium

Panel Discussion

Lunch Break 13:20-14:00 @ Restaurant

14:00-14:20 **Title: Innovation to achieve tropical sustainable agriculture: Environment conservation, profitable farms and net zero**

**Ana Paula C. Packer**, Embrapa Environment, Brazil

14:25-14:45 **Title: Eisenhower's cold war in Greenland and climate change**

**David Watry**, University of Malta, Malta

14:50-15:10 **Title: Possible consequences of climate change on the near-surface climatology in one of the most important estuaries of South America**

**Guillermo Berri**, Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina

15:15-15:35 **Title: Urban Mining: Scoping material resources for circular construction**

**Areti Markopoulou**, Institute for Advanced Architecture of Catalonia, Spain

15:40-16:00 **Title: Financial instruments to protect against climate change**

**Silvana Stefani**, Catholic University of Sacred Heart, Italy

Panel Discussion

Coffee Break 16:00-16:20 @ Foyer

16:25-16:45 **Title: Urban Geo-climate Footprint: a new approach to classifying and clustering cities and increase citizens' awareness on urban geological and climate issues**

**Francesco La Vigna**, Geological Survey of Italy (ISPRA), Italy

16:50-17:10 **Title: A Time-fractional model of pressure buildup due to CO2 storage in saline aquifer: A risk assessment study of Geo-sequestration and groundwater resources protection in the age of climate change mitigation**

**Mbah Hans Tah**, Institute for Groundwater Studies, South Africa

4 Speaker Opportunities Available

End of Day