2nd World Congress on Climate Change

Scientific Program

**Moderator:** Kartikey Gupta, Vatsalya, India

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<th>TIME</th>
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<td>08:00 - 09:00</td>
<td>Registrations</td>
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<td>09:00 - 09:20</td>
<td>Opening Ceremony &amp; Welcome Speech</td>
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<td>09:20 - 09:50</td>
<td>Keynote Forum: How expensive is an energy transition? A lesson from the German Energiewende</td>
<td>Thomas Unnerstall, Germany</td>
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<td>09:50 - 10:20</td>
<td>Addressing Global challenges: BioEconomy can contribute significantly to climate change mitigation</td>
<td>Lene Lange, LLa-BioEconomy Research &amp; Advisory, Denmark</td>
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<td>10:20 - 10:50</td>
<td>Case studies to build rangeland resilience to climate change</td>
<td>J. Shannon Neibergs, Washington State University, USA</td>
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<td>Coffee &amp; Refreshment Break 10:50-11:05 @ Foyer</td>
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<tr>
<td>11:05-11:30</td>
<td>Aerosols' impacts and feedback on mesoscale meteorology during severe haze episodes in East China</td>
<td>Hong Wang, Chinese Academy of Meteorological Sciences, China</td>
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<td>11:30-11:50</td>
<td>Detecting Environmental and Climatic Changes in Western Mediterranean during the Late Quaternary Using Small Mammal Assemblages</td>
<td>Juan Manuel López-García, IPHES, Spain</td>
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<td>11:50-12:10</td>
<td>Agroecology - A climate resilient approach for food and nutrition security: Lessons learned from Action Against Hunger project in Bangladesh</td>
<td>Bader Mahaman Dioula, Action Against Hunger, Paris, France</td>
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<td>12:10-12:30</td>
<td>Water challenges in the face of climate change in Mexico City</td>
<td>Sampan Tongnunui, Mahidol University, Thailand</td>
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Why CMIP5 models cannot simulate the change trend of Pacific Walker Circulation over the last three decades?

Indigenous Knowledge and Climate Change
Adaptive Management - A case study on Orchid Island, Taiwan

Y. Guan, South China Sea Institute of Oceanology, CAS, China
Huei-Min Tsai, National Taiwan Normal University, Taiwan

Group Photo
Lunch & Networking 13:10-14:00 @ Restaurant

Session Chairs
Lene Lange, LLa-BioEconomy Research & Advisory, Denmark
Hong Wang, Chinese Academy of Meteorological Sciences, China

Agricultural cropping system change under climate warming in the Loess Plateau of China
Effects of Porous Materials and Tetrahydrofuran on the Enhancement of Biogas Storage with Hydrate Formation
Climate Change Through the Eyes of the Young: Innovation is a Key Strategy

Yansui Liu, Chinese Academy of Sciences, China
Pramoch Rangsunvigit, Chulalongkorn University, Thailand
Ray Ann Havasy, Center for Science Teaching and Learning, USA

Could Cohesion Policy push EU climate efforts?
Responses and compound risks of the coastal China areas to Global Change

Michal Nekvasil, People in Need, Czech Republic
Rongshuo Cai, Third Institute of Oceanography, Ministry of Natural Resources of China, China

Coffee & Refreshment Break 15:40-15:50 @ Foyer

Historical Tree Height Growth associated with Climate Change at The Species Geographic Range in Western North America
Variability of the Caspian Sea at decadal to millennial scales: the theory
Projections of climate change on microclimatic conditions of an urban area: CFD simulations and adaptation measures

Yassine Messaoud, Lakehead University, Canada
Alexander Kislov, Lomonosov Moscow State University, Russia
Nestoras Antoniou, University of Cyprus, Cyprus

Extended Q & A
Moderator: Julia Tschersich, Carl von Ossietzky University Oldenburg, Germany

Keynote Forum

09:30-10:00  Historical Responsibility for Climate Change: The Problem of Excusable Knowledge  
Makoto Usami, Kyoto University, Japan

10:00-10:30  Insect damage influences expression of heat and drought stress resistance genes in maize  
Patrick Dowd, USDA, Agricultural Research Service, USA

10:30-11:00  IPCC relationship with IPBES  
Alan Feest, University of Bristol/Ecosulis, United Kingdom

Coffee & Refreshment Break 11:00-11:20 @ Foyer

Sessions

Rules & Policies of Climate Change
Climate Change Impacts on Human Health
Hydrometeorology & Hydrology
Impacts and adaptations in agriculture and water management

Session Chairs
J. Shannon Neibergs, Washington State University, USA  
Juan Manuel López-García, IPHES, Spain

11:20-11:40  The Cold Effect of Ambient Temperature on Ischemic and Hemorrhagic Stroke Hospital Admissions: A Large Database Study in Beijing, China between Years 2013 and 2014—Utilizing a Distributed Lag Non-linear Analysis  
Xiuhua Guo, Capital Medical University, China

11:40-12:00  Flower phenology and Pollen limitation as main drivers of fruiting dynamics in temperate oak species  
Marie-Claude Bel-Venner, University of Lyon, France

12:00-12:20  Development as adaptation: Framing and measuring urban resilience in Beijing  
Yan ZHENG, Chinese Academy of Social Sciences, China

12:20-12:40  Groundwater Scenario of Hydrological and Hydro-geological Critical Terrains of India  
Pankaj Kumar Roy, Jadavpur University, India

12:40-13:00  Satellite-based prediction of daily SO2 exposure across China using a high-quality random forest-spatiotemporal Kriging (RF-STK) model for health risk assessment  
Rui Li, Fudan University, China

Lunch & Networking 13:00-13:50 @ Restaurant
Poster Presentations (13:50 -15:10)

**Poster Judges**

**Alan Feest,** *University of Bristol/Ecosulis, United Kingdom*

**Patrick Dowd,** *USDA, Agricultural Research Service, USA*

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**WCCC-1**

Thermal Tolerance of Non-indigenous Fish from Tropical River Habitat in Thailand

Patitta Kritjirakorn, *Mahidol University, Thailand*

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**WCCC-2**

Temperature Tolerance of Thai Freshwater Fishes Exposed to Dynamic Change in the Temperate rivers: Global Warming Implication

Thanasit Punkumsing, *Mahidol University, Thailand*

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**WCCC-3**

Methodology for climate characterization of protected areas in Southern Brazil

Cássio Arthur Wollmann, *Federal University of Santa Maria, Brazil*

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**WCCC-4**

Management strategies of cold air for establishing urban ventilation corridor plans: A case study of the Cheongju, Jeonju, Jinju in South Korea

Jeong-Min son, *Kyungpook National University, Korea*

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**WCCC-5**

Wind driven airlift pump for artificial upwelling or forced downwelling powered by air at atmospheric pressure

Bruno Cossu, *Private Lawyer, Italy*

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**WCCC-6**

Normalized difference vegetation index (NDVI) an indicator of climate change. Particular case of grapevine in Extremadura (Spain)

Fulgencio Honorio Guisado, *University of Extremadura, Spain*

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**WCCC-7**

The current status and implications of laws and institutions concerning spatial planning to improve urban thermal environment in South Korea

Kwon Kim, *Kyungpook National University, Korea*

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**WCCC-8**

Impacts of Climate Change on Flood Disaster Risk in the Mekong River Basin

Sophal Try, *Kyoto University, Japan*

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**WCCC-9**

Aerodynamic Roughness Length Application for the Sustainable Urban Land Use Management Policy Development

Seung Man An, *Korea Research Institute for Human Settlement, South Korea*

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**WCCC-10**

Aridity change in southwest of Iberian Peninsula

Abelardo García Martín, *University of Extremadura, Spain*

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**WCCC-11**

Influence of climate change on active days trends for grapevine in the Guadiana river basin

Luis L Paniagua Simón, *University of Extremadura, Spain*

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**WCCC-12**

The effect of climate change on aridity in Extremadura, southwestern Spain

Francisco Jesús Moral García, *University of Extremadura, Spain*
Winter chilling trends for cherry trees in the north of Extremadura
Separating the contributions of climate change and human activities to land cover change over semi-arid and semi-humid regions of China
Management strategies of cold air for establishing urban ventilation corridor plans: A case study of the Cheongju, Jeonju, Jinju in South Korea
Modeling of Atmospheric Pollution in Urban and Rural Sites Using a Probabilistic and Objective Approach
The current status and implications of laws and institutions concerning spatial planning to improve urban thermal environment in South Korea
Modeling of Atmospheric Pollution in Urban and Rural Sites Using a Probabilistic and Objective Approach

Session Chairs

Huei-Min Tsai, National Taiwan Normal University, Taiwan

15:10-15:30 How Are The Relationships Between Preterm Birth And Ambient Air Pollution Vary Over Space and How Will they be Affected by Climate Change: A Case Study in Georgia, USA

Jun Tu, Kennesaw State University, USA

15:30-15:50 Assessment of hydro meteorological condition of flood in monsoon dominated Ganga-Brahmaputra-Meghna (GBM) floodplain system

Malabika Biswas Roy, Women's College, Calcutta under University of Calcutta, India

15:50-16:10 Genetic Variation of Circadian Clock Genes in a Cavernicolous Anopheles dirus in western Thailand

Uraiwan Arunyawat, Kasetsart University, Thailand

16:10-16:30 Overcoming the process-structure divide in conceptualizations of Social-Ecological Transformations

Julia Tschersich, Carl von Ossietzky University Oldenburg, Germany

16:30-16:50 Application Potential of CO2 Enhanced Water Recovery Technology in Four Major Energy and Industry Sectors in China

Ning Wei, Chinese Academy of Sciences, China

Extended Q & A

Coffee & Refreshment Break 16:50-17:10 @ Foyer
2nd World Congress on Climate Change

Scientific Program

Sessions
Climate change - Agriculture & Other Industries
Atmospheric Sciences & Meteorology
Land, Water & Fisheries

Sessions Chair
Alan Feest, University of Bristol/Ecosulis, United Kingdom
Pankaj Kumar Roy, Jadavpur University, India

10:00-10:20
On the climate change from the geosciences point of view
Modesto Eusebio Portilla Gamboa, National University of Colombia, Colombia

10:20-10:40
Evaluating the performance of two surface layer schemes for the momentum and heat exchange processes during severe haze pollution in Jing-Jin-Ji in eastern China
Yue Peng, Chinese Academy of Meteorological Sciences, China

10:40-11:00
Analysis of Extreme Urban Heat Island: Correlation with Climate Change
Kartikey Gupta, Vatsalya, India

Coffee & Refreshment Break 11:00-11:20 @ Foyer

11:20-11:40
Effects of NPK and Plant Tea Manure (Tithonia diversifolia) on Growth Rate of Amaranth (Amaranthus cruentusl.) in Soilless Growing Media
Roseline Chemutai, Bukalasa Agricultural College, Uganda

11:40-12:00
Due to serve drought, erosion caused by high rate of irrigation water in the harran plain, southeastern turkey
Yakup DARAMA, Atılım University, Turkey

12:00-12:20
The influence of Maritime transport on the air quality around Spanish coasts and Sea Ports
Juan Moreno-Gutiérrez, University of Cádiz, Spain

12:20-12:40
Assessment of Rainfall Variability as Evidence of Climate Change and Its Impact on Maize Production in Southeast Nigeria
Fidelis Chinazor Okorie, Imo State University, Nigeria

12:40-13:00
Modeling CO₂ storage in geological formations – overview and challenges
Avinoam Rabinovich, Tel Aviv University, Israel

Thanks giving & Closing Ceremony
Lunch & Networking @ Restaurant