

2nd World Congress on
Climate Change

Scientific Program

Thursday
Sept 26, 2019

Moderator: Kartikey Gupta, Vatsalya, India

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

09:00 - 09:20 **Opening Ceremony & Welcome Speech**

TIME	TOPIC	SPEAKERS
Keynote Forum		
09:20-09:50	How expensive is an energy transition? A lesson from the German Energiewende	Thomas Unnerstall, <i>Germany</i>
09:50-10:20	Addressing Global challenges: BioEconomy can contribute significantly to climate change mitigation	Lene Lange, <i>LLa-BioEconomy Research & Advisory, Denmark</i>
10:20-10:50	Case studies to build rangeland resilience to climate change	J. Shannon Neibergs, <i>Washington State University, USA</i>
Coffee & Refreshment Break 10:50-11:05 @ Foyer		
Plenary Talk		
11:05-11:30	Aerosols' impacts and feedback on meso scale meteorology during severe haze episodes in East China	Hong Wang, <i>Chinese Academy of Meteorological Sciences, China</i>
Sessions		
Climate Change & Climatology		
Adaptation & Mitigation of Climate Change		
Climate Change & Natural Environment		
Biofuels & Bioenergy Applications		
Session Chairs		
Makoto Usami, Kyoto University, Japan		
Rongshuo Cai, Third Institute of Oceanography, Ministry of Natural Resources of China, China		
11:30-11:50	Detecting Environmental and Climatic Changes in Western Mediterranean during the Late Quaternary Using Small Mammal Assemblages	Juan Manuel López-García, <i>IPHES, Spain</i>
11:50-12:10	Agroecology - A climate resilient approach for food and nutrition security: Lessons learned from Action Against Hunger project in Bangladesh	Bader Mahaman Dioula, <i>Action Against Hunger, Paris, France</i>
12:10-12:30	Water challenges in the face of climate change in Mexico City	Sampan Tongnunui, <i>Mahidol University, Thailand</i>

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- 12:30-12:50** Why CMIP5 models cannot simulate the change trend of Pacific Walker Circulation over the last three decades?
Y. Guan,
South China Sea Institute of Oceanology, CAS, China
- 12:50-13:10** Indigenous Knowledge and Climate Change Adaptive Management - A case study on Orchid Island, Taiwan
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*
- 14:00-14:20** Agricultural cropping system change under climate warming in the Loess Plateau of China
Yansui Liu,
Chinese Academy of Sciences, China
- 14:20-14:40** Effects of Porous Materials and Tetrahydrofuran on the Enhancement of Biogas Storage with Hydrate Formation
Pramoch Rangsunvigit,
Chulalongkorn University, Thailand
- 14:40-15:00** Climate Change Through the Eyes of the Young: Innovation is a Key Strategy
Ray Ann Havasy,
Center for Science Teaching and Learning, USA
- 15:00-15:20** Could Cohesion Policy push EU climate efforts?
Michal Nekvasil,
People in Need, Czech Republic
- 15:20-15:40** Responses and compound risks of the coastal China areas to Global Change
Rongshuo Cai,
Third Institute of Oceanography, Ministry of Natural Resources of China, China
- Coffee & Refreshment Break 15:40-15:50 @ Foyer**
- 15:50-16:10** Historical Tree Height Growth associated with Climate Change at The Species Geographic Range in Western North America
Yassine Messaoud,
Lakehead University, Canada
- 16:10-16:30** Variability of the Caspian Sea at decadal to millennial scales: the theory
Alexander Kislov,
Lomonosov Moscow State University, Russia
- 16:30-16:50** Projections of climate change on microclimatic conditions of an urban area: CFD simulations and adaptation measures
Nestoras Antoniou,
University of Cyprus, Cyprus

Extended Q & A

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Moderator: **Julia Tschersich**, *Carl von Ossietzky University Oldenburg, Germany*

Keynote Forum

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| 09:30-10:00 | Historical Responsibility for Climate Change: The Problem of Excusable Knowledge | Makoto Usami ,
<i>Kyoto University, Japan</i> |
| 10:00-10:30 | Insect damage influences expression of heat and drought stress resistance genes in maize | Patrick Dowd ,
<i>USDA, Agricultural Research Service, USA</i> |
| 10:30-11:00 | IPCC relationship with IPBES | Alan Feest ,
<i>University of Bristol/Ecosulis, United Kingdom</i> |

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*

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| 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 ,
<i>Capital Medical University, China</i> |
| 11:40-12:00 | Flower phenology and Pollen limitation as main drivers of fruiting dynamics in temperate oak species | Marie-Claude Bel-Venner ,
<i>University of Lyon, France</i> |
| 12:00-12:20 | Development as adaptation: Framing and measuring urban resilience in Beijing | Yan ZHENG ,
<i>Chinese Academy of Social Sciences, China</i> |
| 12:20-12:40 | Groundwater Scenario of Hydrological and Hydrogeological Critical Terrains of India | Pankaj Kumar Roy ,
<i>Jadavpur University, India</i> |
| 12:40-13:00 | Satellite-based prediction of daily SO ₂ exposure across China using a high-quality random forest-spatiotemporal Kriging (RF-STK) model for health risk assessment | Rui Li ,
<i>Fudan University, China</i> |

Lunch & Networking 13:00-13:50 @ Restaurant

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Poster Presentations (13:50 -15:10)

Poster Judges

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

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

WCCC-1	Thermal Tolerance of Non-indigenous Fish from Tropical River Habitat in Thailand	Patitta Kritjirakorn , <i>Mahidol University, Thailand</i>
WCCC-2	Temperature Tolerance of Thai Freshwater Fishes Exposed to Dynamic Change in the Temperate rivers: Global Warming Implication	Thanasit Punkumsing , <i>Mahidol University, Thailand</i>
WCCC-3	Methodology for climate characterization of protected areas in Southern Brazil	Cássio Arthur Wollmann , <i>Federal University of Santa Maria, Brazil</i>
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 , <i>Kyungpook National University, Korea</i>
WCCC-5	Wind driven airlift pump for artificial upwelling or forced downwelling powered by air at atmospheric pressure	Bruno Cossu , <i>Private Lawyer, Italy</i>
WCCC-6	Normalized difference vegetation index (NDVI) an indicator of climate change. Particular case of grapevine in Extremadura (Spain)	Fulgencio Honorio Guisado , <i>University of Extremadura, Spain</i>
WCCC-7	The current status and implications of laws and institutions concerning spatial planning to improve urban thermal environment in South Korea	Kwon Kim , <i>Kyungpook National University, Korea</i>
WCCC-8	Impacts of Climate Change on Flood Disaster Risk in the Mekong River Basin	Sophal Try , <i>Kyoto University, Japan</i>
WCCC-9	Aerodynamic Roughness Length Application for the Sustainable Urban Land Use Management Policy Development	Seung Man An , <i>Korea Research Institute for Human Settlement, South Korea</i>
WCCC-10	Aridity change in southwest of Iberian Peninsula	Abelardo García Martín , <i>University of Extremadura, Spain</i>
WCCC-11	Influence of climate change on active days trends for grapevine in the Guadiana river basin	Luis L Paniagua Simón , <i>University of Extremadura, Spain</i>
WCCC-12	The effect of climate change on aridity in Extremadura, southwestern Spain	Francisco Jesús Moral García , <i>University of Extremadura, Spain</i>

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| WCCC-13 | Winter chilling trends for cherry trees in the north of Extremadura | Francisco Javier Rebollo Castillo,
<i>University of Extremadura, Spain</i> |
| WCCC-14 | Separating the contributions of climate change and human activities to land cover change over semi-arid and semi-humid regions of China | Zhengjia Liu,
<i>Chinese Academy of Sciences, China</i> |
| WCCC-15 | Management strategies of cold air for establishing urban ventilation corridor plans: A case study of the Cheongju, Jeonju, Jinju in South Korea | Jeong-Hee Eum,
<i>Kyungpook National University, Korea</i> |
| WCCC-16 | Modeling of Atmospheric Pollution in Urban and Rural Sites Using a Probabilistic and Objective Approach | Fernando López-Rodríguez,
<i>University of Extremadura, Spain</i> |
| WCCC-17 | The current status and implications of laws and institutions concerning spatial planning to improve urban thermal environment in South Korea | Jun-Beom Baek,
<i>Kyungpook National University, Korea</i> |
| WCCC-18 | Modeling of Atmospheric Pollution in Urban and Rural Sites Using a Probabilistic and Objective Approach | Pablo Valiente Gonzalez,
<i>University of Extremadura, Spain</i> |

Session Chairs

Huei-Min Tsai, *National Taiwan Normal University, Taiwan*

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| 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,
<i>Kennesaw State University, USA</i> |
| 15:30-15:50 | Assessment of hydro meteorological condition of flood in monsoon dominated Ganga-Brahmaputra-Meghna (GBM) floodplain system | Malabika Biswas Roy,
<i>Women's College, Calcutta under University of Calcutta, India</i> |
| 15:50-16:10 | Genetic Variation of Circadian Clock Genes in a Cavernicolous <i>Anopheles dirus</i> in western Thailand | Uraivan Arunyawat,
<i>Kasetsart University, Thailand</i> |
| 16:10-16:30 | Overcoming the process-structure divide in conceptualizations of Social-Ecological Transformations | Julia Tschersich,
<i>Carl von Ossietzky University Oldenburg, Germany</i> |
| 16:30-16:50 | Application Potential of CO ₂ Enhanced Water Recovery Technology in Four Major Energy and Industry Sectors in China | Ning Wei,
<i>Chinese Academy of Sciences, China</i> |

Extended Q & A

Coffee & Refreshment Break 16:50-17:10 @ Foyer

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Saturday
Sept 28, 2019

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*

Modesto Eusebio Portilla Gamboa,
National University of Colombia, Colombia

10:00-10:20 On the climate change from the geosciences point of view

Yue Peng,
Chinese Academy of Meteorological Sciences, China

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

Kartikey Gupta,
Vatsalya, India

10:40-11:00 Analysis of Extreme Urban Heat Island: Correlation with Climate Change

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

Roseline Chemutai,
Bukalasa Agricultural College, Uganda

11:20-11:40 Effects of NPK and Plant Tea Manure (*Tithonia diversifolia*) on Growth Rate of Amaranth (*Amaranthus cruentus* L.) in Soilless Growing Media

Yakup DARAMA,
Atilim University, Turkey

11:40-12:00 Due to severe drought, erosion caused by high rate of irrigation water in the harran plain, southeastern turkey

Juan Moreno-Gutiérrez,
University of Cádiz, Spain

12:00-12:20 The influence of Maritime transport on the air quality around Spanish coasts and Sea Ports

Fidelis Chinazor Okorie,
Imo State University, Nigeria

12:20-12:40 Assessment of Rainfall Variability as Evidence of Climate Change and Its Impact on Maize Production in Southeast Nigeria

Avinoam Rabinovich,
Tel Aviv University, Israel

12:40-13:00 Modeling CO₂ storage in geological formations – overview and challenges

Thanks giving & Closing Ceremony

Lunch & Networking @ Restaurant