

5th Global Congress on Climate Change (GCCC-2025)
September 29-30, 2025 - Berlin, Germany

Day 1- September 29, 2025

Meeting Hall - Conference 2

08:30-09:00	Welcome & Registrations
--------------------	------------------------------------

Moderator: Francesca Demichelis, Politecnico di Torino Facoltà di Ingegneria: Politecnico di Torino, Italy

09:00-09:20	Opening Remarks
--------------------	------------------------

KEYNOTE FORUM

09:20-09:50	Taking innovation into routine business – a national stormwater management case study
--------------------	--

Brian James D'Arcy, Houseplot SUDS Limited, UK

09:50-10:20	Climate-Driven Cascading Risks: A Dynamic Framework for Assessing Infrastructure Vulnerability to Compound Hazards
--------------------	---

M. Reza Najafi, Western University, Canada

10:20-10:50	Pollution, Climate Change, and Policy Implications
--------------------	---

Ravi Arulanantham, Geosyntec Consultants, USA

10:50-11:10	Group Photo & Refreshment Break
--------------------	--

Technical session- I

Session Chair: Mohammad Reza Najafi, Western University, Canada

11:10-11:30	A Participatory Action Research strategy to elicit stakeholders' requirements in the development of a decision support system for natural disasters
--------------------	--

Mariantonietta Morga, Anglia Ruskin University, United kingdom

11:30-11:50	Innovative decontamination of bromated plastics from Waste Electrical and Electronic Equipment (WEEE)
--------------------	--

Chiraz Belouezzane, Institut Supérieur de Plasturgie Appliquée (ISPA), France

11:50-12:10	Per- and polyfluoroalkyl substances (PFAS) in homegrown crops: Accumulation and human risk assessment
--------------------	--

Robin Lasters, Natuurpunt, Belgium

12:10-12:30	Exploring the feasibility and sustainability of converting wheat straw into bioenergy and bio-added products for soil application
--------------------	--

Francesca Demichelis, Politecnico di Torino Facoltà di Ingegneria: Politecnico di Torino, Italy

12:30-12:50	A decision-making support framework for transitioning to a resilient zero-carbon Healthcare Real Estate by 2050
--------------------	--

Federica Pascale, Anglia Ruskin University, United Kingdom

12:50-13:10	Global-Scale Long-Term Trends in Atmospheric Water Capturability
--------------------	---

Jun Qiu, Beijing Normal University, China

13:10-14:00	Lunch Break
--------------------	--------------------

Technical session- II	
Session Chairs: Federica Pascale, Anglia Ruskin University, United Kingdom Mariantonietta Morga, Anglia Ruskin University, United Kingdom	
14:00-14:20	Perspectives on the climate-water balance in climate change scenarios – The Trimpancho watershed case study, Spain <i>Teresa Albuquerque, Polytechnic Institute of Castelo Branco, Portugal</i>
14:20-14:40	Accounting and Analysis of Gross Forest Carbon Sink Production in China <i>Zhang Ying, Beijing Forestry University, China</i>
14:40-15:00	Biochemical Adaptation of Wheat to Heat Stress: Focus on eEF1A Accumulation <i>Stefan Markovic, University of Kragujevac, Serbia</i>
15:00-15:20	Assessing Cascading Impacts for Resilient Infrastructure: A Machine Learning Approach for Enhanced Disaster Risk Management in Europe <i>Florencia Victoria De Maio, RINA Consulting S.p.A, Italy</i>
15:20-15:40	Validating small-scale sugarcane farmers' climate perceptions through scientific climate data to enhance awareness of climate change: The Case of Swayimana area in KZN Midlands, South Africa <i>Zoleka Ncoyini-Manciya, University of KwaZulu-Natal, South Africa</i>
15:40-16:00	Refreshment Break
16:00-16:20	Use of Information Communication Technology in Model Farmer Communication for Climate Change Adaptation by Grassroot Farmers <i>Emily Chelangat, Makerere University, Uganda</i>
16:20-16:40	Nature-Based Low-Density Urban Development for Climate Resilience in Arid Coastal Patagonia <i>Daniel Perez Paris, Ramp energy, Argentina</i>
16:40-17:00	Building resilient Agrifood Systems through Inclusive Technology Bundles in Zambia <i>Munyaradzi Junia Mutenje, International Water Management Institute (IWMI), Zambia</i>
Pannel Discussions & End of The Day	
Conference Hotel NYX Hotel Berlin Köpenick by Leonardo Hotels Address: Grünauer Str. 1, 12557 Berlin, Germany	

Day 2- September 30, 2025	
Meeting Hall- Conference 2	
Moderator: Francesca Demichelis, Politecnico di Torino Facoltà di Ingegneria: Politecnico di Torino, Italy	
Technical session- III	
Session Chair: Marcin Piotr Walkowiak, Uniwersytet Medyczny w Poznaniu, Poland	
10:00-10:20	An adaptive strategy for current afforestation in the forest-steppe ecotone, north China, inferred from the Holocene geo-ecology dynamics <i>Hongjuan Jia, Hebei GEO University, China</i>
10:20-10:40	Climatic Drivers of Mortality Seasonality: A Refined Statistical Approach <i>Marcin Piotr Walkowiak, Uniwersytet Medyczny w Poznaniu, Poland</i>
10:40-11:00	Advancing Wetland Assessment in SADC with EO Data: The Role of WeMAST and SASSCAL in Climate Change Adaptation <i>Nelago Indongo, SASSCAL, Namibia</i>
11:00-11:20	Refreshment Break
11:20-11:40	Novel sediment source fingerprinting quantifying erosion-induced total nitrogen and total phosphorus outputs: A case study of an agricultural catchment in North China <i>Hanqing Yu, Institute of Environment and Sustainable Development in Agriculture Chinese Academy of Agricultural Sciences, China</i>
11:40-12:00	Shaping Sustainable Futures: The Role of Energy Policy in Combating Climate Change <i>NABILA AMIN, Shenzhen University, china</i>
12:00-12:20	Carbon-Free Fuel (H₂) Production Strategy Based on Herbaceous Biomass <i>Tae-Jin Kang, Institute for Advanced Engineering, South Korea</i>
12:20-12:40	Guiding Sustainable Fertiliser Selection Using Life Cycle Assessment <i>Vincent Desaulniers Brousseau, Bioeconomy Science Institute, New Zealand</i>
12:40-13:00	RethinkAction – A Climate Action Platform for Sustainable Land Use and Climate-Resilient Futures <i>Elisa Crocco, RINA Consulting S.p.A., Italy</i>
13:00-14:00	Lunch Break
14:00-14:40	Poster Viewing
Poster Presentations	
P-1	Exploring links between physical activity and pro-environmental behaviors in children <i>Yannis Theodorakis, University of Thessaly, Greece</i>
P-2	Recreational boating environmental footprint and climate change: Green strategies and practices in the manufacturing and service sector <i>Eli Marusic & Merica SLISKOVIC, University of Split, Croatia</i>

P-3	Bioclimatic diversity of a medium-sized city on hot days in the context of climate change
	<i>Monika Okoniewska, Kazimierz Wielki University, Poland</i>
P-4	Complex responses of vegetation diversity to Holocene climate change in the eastern Tibetan Plateau
	<i>Liang Chen, Hebei GEO University, China</i>
P-5	Modelling Reference Evapotranspiration in Northern Pakistan Using Support Vector Regression
	<i>Sajid Gul, Guangzhou University, China</i>
P-6	Development of NCC Carbon Reduction Technology Using Carbon-Free Fuels (H ₂ & NH ₃)
	<i>Tae-Jin Kang, Institute for Advanced Engineering, South Korea</i>
P-7	The interaction between cardiorespiratory diseases and meteo-pollutant data: interpretability analysis of a machine learning approach
	<i>Vito Telesca, University of Basilicata, Italy</i>
Pannel Discussions & End of The Day	
Conference Hotel NYX Hotel Berlin Köpenick by Leonardo Hotels Address: Grünauer Str. 1, 12557 Berlin, Germany	

VIRTUAL PROGRAM	
Day-2 September 30, 2025	
Time Zone: CET (Berlin Time)	
09:00-09:20	Promoting Māori values in the creation of built environments to address climate injustice
	<i>Fleur Palmer, AUT, New Zealand</i>
09:20-09:40	Groundwater Assessment under Climate Change Scenarios: The Myalup Case Study
	<i>Panagiotis Giannouloupoulos, Department of Water and Environmental Regulation - Western Australia</i>
09:40-10:00	Application of bio-stimulant Nano-Selenium in improving the quality and efficiency of fruits and vegetables
	<i>Lu Kang, China agricultural university, China</i>
10:00-10:20	Stochastic models based on Cox process to model rainfall time series
	<i>Nadarajah Ramesh, University of Greenwich, UK</i>
10:20-10:40	Recruiting high-efficiency denitrifying consortia using <i>Pseudomonas aeruginosa</i>
	<i>Zhong Yu, Sun Yat-sen University, China</i>

10:40-11:00	Reclamation of coastal marshes to croplands shifts the pool and chemical composition of soil organic matter
	<i>Yidong Wang, Tianjin Normal University, China</i>
11:00-11:20	Future Global River Ice in CMIP6 Models under Climate Change
	<i>Yu Lin, Hohai University, China</i>
11:20-11:40	Vehicular CO ₂ Emission Capture Technology (VCECT)
	<i>Mahil Chandrakant Parmar, One World International School, India</i>
11:40-12:00	In Looking Into India's Transition From Fossil Fuels To New Renewables-Based Energy Sources
	<i>Sovik Mukherjee, St. Xavier's University, India</i>
12:00-12:20	The correct scientific and geological explanation for Earth's climate change
	<i>Adel Saleh Mohammed Ali Al-Abyad, Yemen</i>
12:20-12:40	Use of microbial resources to counteract the effects of climate change in wine production
	<i>Lucilla Iacumin, University of Udine, Italy</i>
12:40-13:00	Green solutions to decrease chemical additives (nitrates and nitrites) in fermented meat productions to enhance human health
	<i>Michela Pellegrini, University of Udine, Italy</i>
13:00-13:20	Evaluating environmental impact of Organic egg production versus Conventional one
	<i>Luisa Paolotti, University of Perugia, Italy</i>
13:20-13:40	Warming and polymetallic stress reflecting global changes induce adaptive response in the neurotoxic marine dinoflagellate <i>Alexandrium pacificum</i>
	<i>Natacha JEAN, Université de Toulon, France</i>
13:40-14:00	An analysis of the effectiveness of extension teaching methods used for technology and skills transfer to farmers in the Pfumvudza climate smart agricultural extension project in Mutare District
	<i>Bertha Kundai Mashayamombe, University of Fort Hare, South Africa</i>
14:00-14:20	Tracking greenhouse gas (GHG) emissions from biomethane production from pig manure and comparison with conventional fuels
	<i>María Del Pilar Martínez Hernando, Universidad Politécnica de Madrid, Spain</i>
14:20-14:40	Sustainable Management of Organizations: From Industry 4.0 to Industry 7.0
	<i>Vojko POTOČAN, University of Maribor, Slovenia</i>
14:40-15:00	Comparative Sustainability Assessment of batteries production in Europe, China, and the United States
	<i>María Del Pilar Martínez Hernando, Universidad Politécnica de Madrid, Spain</i>

15:00-15:20	Fine fuel does not accumulate over time in unburned areas of Guinean savanna
	<i>Aya Brigitte N'DRI, Nangui Abrogoua University, Ivory Coast</i>
15:20-15:40	Comprehensive risk assessment of high-temperature disasters affecting rice production in Shanghai
	<i>Gu Gaoyue, Shanghai Meteorological Bureau, China</i>
15:40-16:00	Natural sequestration of carbon dioxide is in decline: climate change will accelerate
	<i>James Curran, United Kingdom</i>
16:00-16:20	The Great Green Wall: its regional impacts and its effects on Atlantic Tropical cyclone activity
	<i>Francesco Pausata, UQAM, Canada</i>
16:20-16:40	Intergenerational transmission and volcanic risk perception construction in Mexico
	<i>Esperanza López-Vázquez, Universidad Autónoma del Estado de Morelos, Mexico</i>
16:40-17:00	The human exposome and climate change
	<i>Amado Enrique Navarro Frómeta, Technological University of Izúcar de Matamoros, Mexico</i>
17:00-17:20	Simultaneous Aeration and Neutralization of Mine Water – an Apparently Forgotten Discovery
	<i>Terry Ackman, MT Water Management, Inc, USA</i>
17:20-17:40	Socially Responsible Investors and Corporate Resistance to Climate Disruptions: Agents of Change or Passive Participants?
	<i>Alejandro J. Useche, Universidad del Rosario, Colombia</i>
Pannel Discussions & End of The Day	