

A globe of the Earth is shown with green foliage growing on it. Two butterflies are flying around the globe: one orange and black on the left, and one purple and white on the right.

# 7<sup>th</sup> World Congress on Environmental Toxicology and Chemistry

March 20-21, 2025 London, UK

*Theme: Environmental and Human Toxicology: From Molecules to Organisms, From Omics to in Vivo*



# DAY-1

March 20, 2025

Meeting Hall: **Bleroit 2**

08:00-08:30 Registrations

## Opening Ceremony . . . . . 08:30-08:50

### KEYNOTE FORUM

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08:50-09:00 Introduction

09:00-09:30 **Title: Towards a sustainable chemical future**  
Edwin J Routledge, Brunel University London, UK

09:30-10:00 **Title: Functional neuron-specific endpoints for *in vitro* neurotoxicity testing**  
Manuela Marcoli, University of Genova, Italy

10:00-10:30 **Title: Antarctic marine biodiversity and climate change**  
Simon A Morley, British Antarctic Survey, UK

10:30-11:00 **Title: Too slow and too difficult? participatory governance as a lever for climate change adaptation**  
Carolyn (Tally) Palmer, Rhodes University, South Africa

**Networking and Refreshment Break 11:00-11:20 @ Foyer**

### GROUP PHOTO @ 11:20 - 11:30

**Sessions: Effective Adaptation | CO<sub>2</sub> Capture and Sequestration | Renewable Energy to Mitigate Climate Change | Sustainability & Climate Change**

**Chair:** Paul Alexander Comet, Houston, USA

**Co-Chair:** Zhenghui Xie, Chinese Academy of Sciences, China

### INTRODUCTION

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11:30-11:50 **Title: Hydrologic and climatic responses to global anthropogenic groundwater extraction**  
Zhenghui Xie, Chinese Academy of Sciences, China

11:50-12:10 **Title: Potential glacial lake outburst flood (GLOF) in Santa Lucia village, Lake Region, Chile**  
Francisco Ferrando A, University of Chile, Chile

12:10-12:30 **Title: Urban and architectural approaches for an effective climate change adaptation in Latin America**  
Irene Perez Lopez, Pan-American Observatory of Landscape, Territory and Architecture, Spain



12:30-12:50 **Title: The role of spatial analysis in avoiding climate change maladaptation—a systematic review**  
Chia-Fa Chi, National Sun Yat-sen University, Taiwan



12:50-13:10 **Title: Exploring perceptions of local stakeholders on climate change adaptation in Central and Western Terai, Nepal**  
Shree Kumar Maharjan, Hiroshima University, Japan

**Lunch Break 13:10-14:10 @ Hotel Restaurants**

14:10-14:30 **Title: A framework for achieving carbon-free society**  
Dai-Yeun Jeong, Asia Climate Change Education Center, South Korea

14:30-14:50 **Title: Impacts of climate change on large-scale weather driven energy system design decisions for the 21<sup>st</sup> century**  
Kozarcenin Smail, Aarhus University, Denmark

**Sessions: Environmental Science | Toxicology | Toxicity testing**

**Chair:** Manuela Marcoli, University of Genova, Italy

**Co-Chair:** Edwin J Routledge, Brunel University London, UK

14:50-15:10 **Title: Directed evolution, biotechnology and in silico analysis of reaction centre proteins for microorganisms and biomimetic-based biosensors in environmental toxicity monitoring**  
Maria Teresa Giardi, Biosensor Srl, Italy

15:10-15:30 **Title: Effects of aluminium salts and cyclic volatile methylsiloxanes on DNA damage and DNA repair in immortalised non-transformed human breast epithelial cells**  
Abdullah Mohammed O Farasani, Jazan University, Saudi Arabia

15:30-15:50 **Title: Development of dispersive liquid-liquid microextraction procedure for trace determination of pesticide malathion in urine samples**  
Seyed Jamaledin Shahtaheri, Tehran University of Medical Sciences, Iran

**Networking and Refreshment Break 15:50-16:10 @ Foyer**

16:10-16:30 **Title: Unravelling the chemistry behind the toxic effects of refining wastewater: Characterization and remediation**  
Angela Pinzon-Espinosa, Brunel University London, UK

16:30-16:50 **Title: Prediction of compounds' toxicities and its applications**  
Jianhua YAO, Chinese Academy of Sciences, China

16:50-17:10 **Title: Differences in PM<sub>2.5</sub> from various combusted materials**  
Fawei Yan, Renmin University of China, China

17:10-17:30 **Title: Synthesis of heterogeneous catalyst for biodiesel production from cooking oil**  
Sadia Nasreen, University of Engineering and Technology Taxila, Pakistan

## Panel Discussion





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# DAY-2

March 21, 2025

Meeting Hall: **Bleroit 2**

## KEYNOTE FORUM

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### Introduction

09:00-09:30

**Title: Modelling mutational signatures of environmental carcinogens in cultured human cells**

Volker M. Arlt, King's College London, UK

09:30-10:00

**Title: Arctic sea ice decline over the past 40 years**

Jean-Claude Gascard, French National Center for Scientific Research, France

10:00-10:30

**Title: Agricultural pesticide induced bone marrow aplastic anaemia and the hedgehog signaling scenario**

Sujata Law, Calcutta School of Tropical Medicine, India

**Networking and Refreshment Break 10:30-10:50 @ Foyer**

**Sessions: Risks of Climate Change | Evidence of Climate Change | Oceans & Climate Change | Climate Change Challenges | Solutions for Climate Change | Environmental Toxicology**

**Chair:** Sara E Alexander, Baylor University, USA

**Co-Chair:** Zhenghui Xie, Chinese Academy of Sciences, China

## INTRODUCTION

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10:50-11:10

**Title: Impacts of climate change on the incidence of morbidity**

Rachida El Morabet, University Hassan II Casablanca, Morocco

11:10-11:30

**Title: Climate warming shifts Indian monsoon season: Evidence from observation**

Elena Surovyatkina, Potsdam Institute for Climate Impact Research, Germany

11:30-11:50

**Title: Dioxins and furans emissions: Characteristics and strength**

Anahit V Aleksandryan, Ministry of Nature Protection of Republic of Armenia, Armenia

11:50-12:10


**Title: On aerosol-chemistry-cloud-climate interactions and entanglements**

Rong-Ming Hu, National University of Ireland Galway, Ireland

12:10-12:30


**Title: Recent shifts in continental shelf/slope oceanographic processes in the Northeastern United States**

Glen Gawarkiewicz, Woods Hole Oceanographic Institution, USA



12:30-12:50 **Title: International cooperation for DPRK's environmental restoration**  
Hyun-Ah CHOI, Hanns Seidel Foundation Korea, Republic of Korea

**Lunch Break 12:50-13:50 @ Hotel Restaurants**



13:50-14:10 **Title: The political ecology of 'climate change' in Texas: A steep learning curve for West Texas wheat farmers**  
Sara E Alexander, Baylor University, USA

14:10-14:30 **Title: Managing agricultural water use with alternate wetting and drying (AWD): towards achieving Sustainable Development Goal 6**  
Mohammad Alauddin, The University of Queensland, Australia

14:30-14:50 **Title: Waste, sustainability and money in controlling the carbon cycle and avoiding climate change**  
Paul Alexander Comet, Houston, USA

14:50-15:10 **Title: Forest fires and social perception of the landscape: A study with Spanish population**  
Jaime Senabre, University of Alicante, Spain

15:10-15:30 **Title: Development of sustainable aquaculture on the base of Sato-Umi to anticipate the environment and climate change in the coastal area of Indonesia**  
Suhendar I Sachoemar, Agency for the Assessment and Application of Technology, Indonesia

**Networking and Refreshment Break 15:30-15:50 @ Foyer**

15:50-16:10 **Title: The energy-water-health nexus under climate change in the United Arab Emirates—impacts and implications**  
William W Dougherty, Climate Change Research Group, USA

16:10-16:30 **Title: Steady shrinking of the Dead Sea as a result of climate change in the Eastern Mediterranean**  
Pavel Kishcha, Tel Aviv University, Israel

## POsTER PREsENTATIONS @ 16:30 -17:30

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**Poster Judge:** William W Dougherty, Climate Change Research Group, USA


WCCC-01 **Title: Effect of steam injection into incinerator on thermal destruction of waste refrigerant (HFC-134a)**  
Tae-in Ohm, Hanbat National University, South Korea

WCCC-02 **Title: A climate change vulnerability and capacity assessment (VCA) model for Caribbean Small Island Developing States (SIDS)**  
Marium Alleyne, The University of the West Indies, Barbados

WCCC-03 **Title: Assessing climate-sensitive energy use under the current climate trajectory**  
Andreas Andreou, University of Leeds, UK

WCCC-04 **Title: Landslide susceptibility models in Tumbes Peninsula, South-Central Chile coast (36°S)**  
Pablo Lopez Filun, University of Bristol, UK

WCCC-05 **Title: Coastal erosion and storm: the new natural hazards in Chile**  
Carolina Martinez, Pontifical Catholic University of Chile, Chile

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- ETBS-06** **Title: Testing for anti-androgenic activity; pitfalls and possible misinterpretations**  
Nicola Anne Beresford, Brunel University London, UK
- ETBS-07** **Title: Health risk assessment of chemical pollutants in an automobile manufacturing, Iran**  
Seyed Jamaledin Shahtaheri, Tehran University of Medical Sciences, Iran
- WCCC-08** **Title: Effects of composted sludge application on greenhouse gases emissions from paddy soil and heavy metals accumulation in soil and plant**  
Jing Ma, Chinese Academy of Sciences, China

For more info: <https://environmental toxicology.toxicologyconferences.com/>

Disclaimer: This is not the final program for the 7th World Congress on Environmental Toxicology and Chemistry, scheduled for March 20-21, 2025, in London, UK. Changes may be made at the discretion of the organizing committee.