



Organized by

UNITED

A non-profit organization

Scientific
Group



GEST 2024

November 04-06, 2024 | London

Global Conference on

Environmental Science and Technology



November 04-06, 2024 | London, UK



Renaissance London Heathrow Hotel

Program



✉ gest@uniscigroup.org

🌐 <https://gest.unitedscientificgroup.org/>

Join Zoom Live Stream

<https://us06web.zoom.us/j/82117271204?pwd=as62clZDxb4QAukeQV8aidqC0QK6Cw.1>

Meeting ID: 821 1727 1204

Passcode: 819739

09:00-09:20 Registrations & Badge Pickup

09:20-09:30 Opening Ceremony

Keynote Presentations

@Windsor

Moderator: **Monica Rivas Casado**, Cranfield University, United Kingdom



09:30-10:00
Paul Ekins, University College London, United Kingdom
Mitigating Climate Change: A Reality Check



10:00-10:30
Jason Hall-Spencer, University of Plymouth, United Kingdom
The Ecosystem Effects of Ocean Acidification

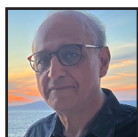


10:30-11:00
Mira Petrovic, Catalan Institute for Water Research (ICRA), Spain
Urban Runoffs: Investigating Chemical Changes During Extreme Weather Events

11:00-11:30 Coffee Break Near Windsor Suite



11:30-12:00
Luiza Cintra Campos, University College London, United Kingdom
Sustainable Microplastics Remediation: Addressing Challenges and Exploring Effective Solutions



12:00-12:30
Hamid R. Habibi, University of Calgary, Canada
Assessment and Adverse Health Impact of Environmental Contaminants in Southern Alberta, Canada

12:30-12:40 Group Photo

12:40-13:30 Lunch Break @Market Garden Restaurant

Session I

@Windsor

Chair: **Luiza Cintra Campos**, University College London, United Kingdom

Environmental Pollution: Causes and Control

13:30-13:50 **Patricio Perez**, University of Santiago, Chile
The Effect of a Copper Foundry on SO₂ Levels in Small Coastal City in Chile

13:50-14:10 **Lei Tong**, China University of Geosciences, China **(Online)**
Environmental Pollution and Transport of Antibiotics in Riparian Zone

14:10-14:30 **Bruna Gumiero**, University of Siena, Italy
Citizen Science Activities in Monitoring River Ecosystems Means Many Benefits

Environmental Technology

14:30-14:50 **Eri Yoshida**, Toyohashi University of Technology, Japan **(Online)**
Reversible Capture and Release of Carbon Dioxide Using Polyamine

14:50-15:10 **Albert Bosch**, University of Barcelona, Spain
Enterovirus Surveillance in Spanish Wastewater in the Present Situation of Polio Eradication

15:10-15:30 **Rosa Pinto**, University of Barcelona, Spain
Learning SARS-CoV-2 Variant Dynamics Through Wastewater Surveillance

15:30-15:50 **Aree Choodum**, Prince of Songkla University, Thailand
Eco-friendly Adsorbent for Dye Removal

15:50-16:10 **Worawit Wongniramaikul**, Prince of Songkla University, Thailand
Integrated Biodegradable Material for Augmented Nitrate Removal in Water

16:10-16:30 **Coffee Break** Near Windsor Suite

16:30-16:50 **Monica Rivas Casado**, Cranfield University, United Kingdom
Emerging Technologies and Flood Management

17:00-18:00 Poster Presentations

P-01 **Dohee Kwon**, Hanyang University, Republic of Korea
Strategic Conversion of Plastic Containers with Food Waste into Energy Through Thermo-Chemical Processes

P-02 **Jung-Hun Kim**, Hanyang University, Republic of Korea
Conversion of Toxic Chemicals into Syngas Through CO₂-assisted Catalytic Pyrolysis of Insulation Material Waste

P-03 **Tarawee Taweekarn**, Prince of Songkla University, Thailand
Impact of Calcium Silicate Hydrate Content in Porous Concrete Composites on Continuous Flow Phosphate Removal from Water

P-04 **Brian Blankespoor**, The World Bank, USA
Toward Better Conservation: A Spatial Analysis of Species Occurrence Data from the Global Biodiversity Information Facility

P-05 **Sitara Anjum**, University of the Punjab, Pakistan
Harmful Impacts of Synthetic Chemical on Endocrine System by Using Cosmetic

P-06 **Montri Choowong**, Chulalongkorn University, Thailand
Historical and Modern Records of Coastal Disasters from the Andaman Sea and Gulf of Thailand; Progress in Geological Research and Mitigation

P-07 **Ankit Kumar**, Concordia University, Canada
Flood Risk Mapping for Improved Risk Assessment and Mitigation: The Case Study of the Montreal Region, Canada

Join Zoom Live Stream

<https://us06web.zoom.us/j/82117271204?pwd=as62clZDxb4QAukeQV8aidqC0QK6Cw.1>

Meeting ID: 821 1727 1204

Passcode: 819739

Session II

@Windsor

Chair: Hamid R. Habibi, University of Calgary, Canada

Environmental Impact Assessment

- 09:00-09:20 **Matthew Bellgard**, University of East London, United Kingdom
Impact Assessment (IA) 5.0: Open Source Frameworks to Enable the Transition from Project-Level IA to Addressing 21st Century Global Drivers
- 09:20-09:40 **Susanne Heise**, Hamburg University of Applied Sciences, Germany
Effects of the Rare Earth Elements on Freshwater Organisms
- 09:40-10:00 **Lieven Bervoets**, University of Antwerp, Belgium
Per- and Polyfluorinated Substances (PFAS) in the Environment near a Hot-spot in Antwerp (Belgium): 25 Years of Research on Distribution, Accumulation and Effects
- 10:00-10:20 **Beata Paliwoda**, Poznan University of Economics and Business, Poland
Environmental Performance Indicators in EMAS-registered and Non-EMAS-Registered Organizations

Environmental Modelling

- 10:20-10:40 **Michele Mossa**, Polytechnic University of Bari, Italy
Jet-like Flows in a Vegetated Sea and River Current

10:40-11:00 **Coffee Break**

Near Windsor Suite

Session III

@Windsor

Chair: Mira Petrovic, Catalan Institute for Water Research (ICRA), Spain

Climate Change: Challenges and Mitigation

- 11:00-11:20 **Susmita Dasgupta**, The World Bank, USA
Identifying and Monitoring Priority Areas for Methane Emissions Reduction

Ecosystem Services and Biodiversity Conservation

- 11:20-11:40 **Brian Blankespoor**, The World Bank, USA
Estimating Extinction Risks with Species Occurrence Data from the Global Biodiversity Information Facility

Hydrology and Water Resource Management

11:40-12:00 **Joe Magner**, University of Minnesota, USA
Climate Change, Agricultural Drainage and Water Storage in the Upper Midwestern USA

Circular Economy

12:00-12:20 **Madeleine Larsson**, Linköping University, Sweden
Towards a More Circular Biobased Economy and Nutrient Use - The Role of Biogas Systems

12:20-12:40 **Hans Andersson**, Linköping University, Sweden
Biofertilisers from Biogas Plants - A case for more Efficient Nutrient Recycling

12:40-13:40 **Lunch Break** @Market Garden Restaurant

Session IV

@Windsor

Chair: Mira Petrovic, Catalan Institute for Water Research (ICRA), Spain

Remote Sensing and Geoinformatics

13:40-14:00 **Michael P. Peterson**, University of Nebraska at Omaha, United States
Visualizing Climate Change: Depicting Change in a Changing World

Sustainable Energy Transitions

14:00-14:20 **Reto Spielhofer**, Norwegian Institute for Nature Research, Norway
Spatial Optimization for Wind Energy Planning

Soil Health Management

14:20-14:40 **Jordan Vink**, University of New South Wales, Australia
Developing the First Toxicity Test for Antarctica Using an Endemic Fungal Species

Agroecosystems and Environment

14:40-15:00 **Yasuo Mitsui Nakamaru**, Tokyo University of Agriculture, Japan
Does Increased Use of Organic Fertilizer Threaten Aquatic Ecosystem?

Join Zoom Live Stream

<https://us06web.zoom.us/j/82117271204?pwd=as62clZDxb4QAukeQV8aidqC0QK6Cw.1>

Meeting ID: 821 1727 1204

Passcode: 819739

08:20-08:30 **Opening Remarks and Introduction**

Chair: Vilim Filipovic, The University of Queensland, Australia

Keynote Presentations



08:30-09:00

Ivet Ferrer, Polytechnic University of Catalonia, Spain

Bio-based Products and Bioenergy Recovery from Waste Streams in the Framework of a Circular Bioeconomy

Session I

09:00-09:20

Myung Geol Pang, Chung-Ang University, Republic of Korea

Multigenerational and Transgenerational Impacts of Endocrine Disrupting Chemicals on Male Reproduction

09:20-09:40

Andrzej R. Reindl, Medical University of Gdansk, Poland

Rare Earth Element Dynamics- Implications for Environmental Toxicology and Human Health

09:40-10:00

Trine Eggen, Norwegian Institute of Bioeconomy Research (NIBIO), Norway

Sustainable Management of Organic Materials with High Pesticide Content from Flower and Greenhouse Industry

10:00-10:20

Elsai Mati Asefa, Haramaya University, Ethiopia

Assessing the Impacts of Pesticide Use on Freshwater Ecosystems in Sub-Saharan Africa: Insights from Agroecosystems in Ethiopia

10:20-10:40

Sarit Agami, Hebrew University of Jerusalem, Israel

Atmospheric Conditions Leading to Buildup of Benzene Concentrations in Urban Areas in Israel

10:40-11:00

Coffee Break

Chair: Milena Zivkovic, University of Kragujevac, Serbia

Session II

11:00-11:20

Milena Zivkovic, University of Kragujevac, Serbia

Assessment of Soil Composition and Radioactivity in Central Serbia: Mechanical, Chemical, and Elemental Analysis

11:20-11:40

Laura Megido, University of Oviedo, Spain

Should Settleable Particulate Matter be Incorporated into Pollution Control Strategies?

11:40-12:00

Alba Ardura, University of Oviedo, Spain

Rivers: Source of Energy and Preservation of Biodiversity, is this Possible?

- 12:00-12:20 **Maria Del Pilar Fernandez Poyatos**, University of Jaen, Spain
Degradation of Organic Pollutants from Water Using a Cobalt Ferrite Catalyst
- 12:20-12:40 **Inmaculada Velo Gala**, University of Granada, Spain
Visible-light Photocatalytic activation of Chlorine by Graphite Carbon Nitride for Water Treatment
- 12:40-13:00 **Silvio Coda**, University of Naples Federico II, Italy
Assessment of Groundwater Flooding Susceptibility and Hazard Through Machine Learning Techniques and Probability Modelling
- 13:00-13:10 **Stavroula Panagiotidou (Poster)**, Technical University of Crete, Greece
Syngas Production Rich in H₂ from Steam Gasification of Agro-industrial Wastes, Integrated with CO₂ Capture by Concrete Wastes and Use of Potassium and Red Mud Catalysts

13:10-13:50 **Lunch Break**

Chair: Joao P. M. Torres, Federal University of Rio de Janeiro, Brazil

Session III

- 13:50-14:10 **Joao P. M. Torres**, Federal University of Rio de Janeiro, Brazil
Environmental Pollution in Brazil: X-Ray Fluorescence and Mass Spectrometry to go Beyond Heavy Metals, POPs in Fish and Bird Feathers and the Amazon Gold Rush
- 14:10-14:30 **Elena Orlo**, University of Campania Luigi Vanvitelli, Italy
Eco-genotoxicity and Oxidative Stress of Polystyrene, Acyclovir and Imidacloprid in Ceriodaphnia Dubia
- 14:30-14:50 **Chiara Russo**, University of Campania Luigi Vanvitelli, Italy
Combination of Polystyrene Microplastic Particles with Pesticides and Antiviral Drugs: Eco-genotoxicity in Ceriodaphnia Dubia
- 14:50-15:10 **Pilar Sandin Espana**, Spanish National Research Council, Spain
Considering the Stereoisomerism of Chiral Herbicides in the Environment. Profoxy Dim Case Study
- 15:10-15:30 **Natasha Picone**, National University of the Center of the Buenos Aires Province, Argentina
Urban Climate: How it Can Boost the Development of Sustainable Cities?
- 15:30-15:50 **Coffee Break**
- 15:50-16:10 **Jean Philippe Bellenger**, University of Sherbrooke, Canada
Large-scale Biomonitoring of Multiple Contaminants in Atmospheric Deposition in Eastern Canada
- 16:10-16:30 **Maria Elena Mendez Lopez**, Center for Research in Geospatial Information Sciences, Mexico
Territorial Studies of the Mayan Milpa
- 16:30-16:50 **Harris R. Eisenhardt**, Johns Hopkins university, USA
Review of Framework Development: Vulnerability of Unhoused Populations to Climate Change in the United States
- 16:50-17:10 **Saima Farooq**, University of Nizwa, Oman
Heterogenous Semiconductor Photocatalysis for Wastewater Treatment
- 17:10-17:20 **Belkys Polo-Cambronell (Poster)**, Industrial University of Santander, Colombia
Development of Nanofertilizers Based on Natural Zeolite for the Reduction in the Use of Conventional Fertilizers

We Wish to See You at

GEST-2025

Rome, Italy

Organized by



8105, Rasor Blvd - Suite #112, Plano, TX 75024

Tel: +1-469-854-2280/81; Fax: +1-469-854-2278;

Email: gest@uniscigroup.org

Web: <https://gest.unitedscientificgroup.org/>