

5th International Conference on Environmental Sustainability and Climate Change

Day 1 - November 07, 2022

8.00 - 8.40 Registrations

8.40 - 9.00 Introduction

Keynote Presentations

09.00 - 10.00 Title: Survival of mankind requires Water Applied Testing and Environmental Research (WATER) Centers in each country
Zigmond A Kozicki and Stephanie Baiyasi-Kozicki, University of Detroit Mercy and Saginaw Valley State University, USA

10.00 - 10.40 Title: Gaseous Emissions from Waste Disposal Landfill over Residential Environment
Abdirashid Elmi, Kuwait University, Kuwait

Group Photo (10.40 - 10.50)

Networking & Refreshments (10.50 - 11.15)

Oral Presentations

Session Chair: **Viktoria Mannheim**, University of Miskolc, Hungary

Session Co-Chair: **Abdirashid Elmi**, Kuwait University, Kuwait

Sessions:

Earth and Environmental Science | Environmental Sustainability and Development | Environmental Pollution and Control | Climate Change Risk, Policy and Law | Hydrology, Hydrogeology and Hydrologic Engineering | Natural Hazards and Disaster Management | Solid Waste Management | Renewable Energy and Resources | Recycling and Waste Treatment Technologies | Waste to Energy | Global Warming | CO₂ Capture and Sequestration | Sustainable Energy and Material Flow Management | Water Security and Water Sustainability | Bioremediation and Biodegradation | Biodiversity, Ecology and Ecosystems | Climate Change and Health | Recycling – Reduce, Reuse and Recovery | Industrial and Chemical Waste Recycling | Electronic Waste Recycling | Rubber and Plastic Recycling | Agriculture and Food Waste Recycling

11.15 - 11.45 Title: Disaster, Community Vulnerability and Climate Change Adaptation in Urban Areas in Global South
Dillip Kumar Das, University of KwaZulu-Natal, South Africa

11.45 - 12.15 Title: A Review of Energy and Waste Production During Surgical Care in The Operating Room and Practical Guideline for Greening the Delivery of Surgical Care
Ursula Galway, Cleveland Clinic, USA

12.15 - 12.45 Title: Multi-criterion Linear Programming Model to Manage Sustainable Development Goals for The Plastic Industry Sector in Jordan
Alia Zeidan, Isra University Amman, Jordan

12.45 - 13.15 Title: Whole Life Cycle Assessment of Plastic Products based on The Waste Recycling and The Looping Method
Viktoria Mannheim, University of Miskolc, Hungary

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Lunch (13.15 - 14.00)

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| 14.00 - 14.30 | Title: Climate Adaptation and Resilience in Cities: Anticipatory Governance, Planning and Dialogue Pascaline Gaborit , Pilot4Dev, Belgium |
| 14.30 - 15.00 | Title: Direct Geological Damping of Sodium Carbonate Gel for CO ₂ Sequestration in Shallow Aquifer Kyuro Sasaki , Institute for Future Engineering, Kyushu University, Japan |
| 15.00 - 15.30 | Title: Simulation in the Hydrogen Economy: Promises and Challenges Aalia Rakhshi and Naseem Ansari , Southern Illinois University, USA and Ansys Inc., USA |
| 15.30 - 16.00 | Title: Valorization of Seashell So-products in The Draining Concrete Poured on Site Leo Hamze KARAKY , COMUE Normandie Université, Laboratoire de recherche (LRC) de l'ESITC Caen, France |

Refreshments (16.00 - 16.30)

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| 16.30 - 17.00 | Title: Mapping and Characterization of Textile Effluent Sludge in Bangladesh Md Mursalin Rahman Khandaker , Bangladesh University of Engineering and Technology, Bangladesh |
| 17.00 - 17.30 | Title: Bacterial and Plant Community Succession in Glacial Forefields of The Western Himalayas Adam Ruka , Czech Academy of Sciences – Institute of Botany, University of South Bohemia, Czech Republic |
| 17.30 - 18.00 | Title: Recycling Agri Food and Industrial Wastes into Adsorbents for Recovering Precious Metals Silvia Cristina Santos , University of Porto, Portugal |

Day 1 Concludes

5th International Conference on **Environmental Sustainability and Climate Change**

Day 2 - November 08, 2022

Oral Presentations

Session Chair: **Zigmond A Kozicki**, University of Detroit Mercy, USA

Session Co-Chair: **Elsayed Mousa**, Swerim AB, Sweden

Sessions

Earth and Environmental Science | Environmental Sustainability and Development | Environmental Pollution and Control | Climate Change Risk, Policy and Law | Hydrology, Hydrogeology and Hydrologic Engineering | Natural Hazards and Disaster Management | Solid Waste Management | Renewable Energy and Resources | Recycling and Waste Treatment Technologies | Waste to Energy | Global Warming | CO₂ Capture and Sequestration | Sustainable Energy and Material Flow Management | Water Security and Water Sustainability | Bioremediation and Biodegradation | Biodiversity, Ecology and Ecosystems | Climate Change and Health | Recycling – Reduce, Reuse and Recovery | Industrial and Chemical Waste Recycling | Electronic Waste Recycling | Rubber and Plastic Recycling | Agriculture and Food Waste Recycling

10.00 - 10.30

Title: Translating Indigenous Knowledge into Actionable Climate - Change Adaption Strategies: A Case Study of Maluti - A - Phofung Local Municipality, Free State Province, South Africa

Shadreck Muchaku, University of Free State, South Africa

10.30 - 11.00

Title: Towards Sustainable Electrification: Maximizing Metals Recovery from End-of-Life Li-ion Batteries

Elsayed Mousa, Swerim AB, Sweden

Networking & Refreshments (11.00 - 11.30)

12.00 - 12.30

Title: Towards Environmental Sustainability: Waste Management Practices in European Countries

Jelena J Stankovic, University of Nis, Serbia

Poster Presentations

ER-001

Title: The Impact of Wind Stress in Modeling of Oil Pollution Diffusion in The Persian Gulf

Omid Hajrasouliha, University of Hormozgan, Iran

ER-002

Title: Valuation and Use of Plastic Bag Waste in Management Plans Under the Principle of Shared Responsibility

Sofia Jazmin Ortiz Soto, Intituto de Ingeniería, UNAM, Mexico

Lunch (13.00 - 14.00)

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| ER-003 | Title: Characterization of Shredded Fractions from End-of-life Photovoltaic Panels to Optimize Glass and Metal Recovery David Albano , Sapienza University, Italy |
| ER-004 | Title: Repurposing Mass-produced Mollusk Shells: An Abundant Underrated Resource for Bactericidal and Bioactive Biomolecules Camille Lutet-Toti , Alma Mater Studiorum Università di Bologna, Italy |
| ER-005 | Title: Yttrium Speciation in Bauxite Residues: Influence of Bauxite Origin and Storage Conditions Julien Couturier , CEREGE, France |
| ER-006 | Title: Canine Faeces: The Microbiology of An Environmental Salah Jaber , University of Derna, Libya |
| ER-007 | Title: Municipal Solid Waste Management in Maputo City, Mozambique Amad Hassam Abdul Gani , Universidade Pedagógica de Maputo, Mozambique |
| ER-008 | Title: Study of The Properties of Poly Propylene/ recycled and Regenerated Low Density Polyethylene based Biocomposites Reinforced with Diss Fibers Naima Belhaneche-Bensemra , National Polytechnic School of Algiers, Algeria |
| Refreshments (15.30 - 16.00) | |
| e-Poster Presentation | |
| 16.00 - 16.15 | Title: Geopolymers from Spent Diatomaceous Earth for The Winery Wastewater Treatment Ysabel Huaccallo Aguilar , Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal |
| Day 2 Concludes | |
| Panel Discussion - Awards & Closing Ceremony followed by Vote of Thanks | |

Environmental Sustainability and Climate Change

Virtual Presentations

November 08, 2022 BST

10.00 - 10.15 Opening Ceremony and Introduction

Keynote Presentations

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| 10.15 - 10.45 | Title: Recycling Waste Slag for improving of Soil Acidity Daniela Laura Buruiana , "Dunarea de Jos" University of Galati, Romania |
| 10.45 - 11.15 | Title: "Acetaminophen" – A contaminant of High Concern: Existence in Environment and Adverse Effects Neha Agarwal , Navyug Kanya Mahavidyalaya, University of Lucknow, India |
| 11.15 - 11.45 | Title: Climate Change and The Future of Plant Genomics and Biotechnology Innovations to Steer Towards Food Security and Sustainability Khaled Masmoudi , United Arab Emirates University, UAE |

Oral Presentations

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| Session Chair: Maohong Fan , University of Wyoming, USA | |
| 11.45 - 12.05 | Title: Feasibility of Biogas Production from Cowpea Hull Anaerobic Digestion: Effect of CO ₂ - digestion with Waste - Activated Sludge or Rice Straw and Mixing Ratio Ogbonna Christian Toochukwu , University of Tsukuba, Japan |
| 12.05 - 12.25 | Title: An Analysis of Socio - Psychological Factors of Household Willingness - to - pay for Enhanced Solid Waste Management Services in Douala, Cameroon Shella Nchia Ndum , University of Tsukuba, Japan |
| 12.25 - 12.45 | Title: Technology for Engaging Citizens for Recycling: Lessons Learned from The RECICLOS Project in Spain Denisa Gibovic , University of Girona, Spain |
| 12.45 - 13.05 | Title: Development of A New Direct Air Capture Technology Maohong Fan , University of Wyoming, USA |
| 13.05 - 13.25 | Title: Long - term Climate Impact on Titicaca Lake 's Storage and Risk Ramiro Pillco Zola , Universidad Mayor de San Andres, Bolivia |
| 13.25 - 13.45 | Title: Thermal Modelling of Lithium - ion Batteries Sayed Saeed Madani , Karlsruhe Institute of Technology, Germany |
| 13.45 - 14.05 | Title: Deforestation and Forest Degradation Greatly Accelerate Climate Change Process Tamaz Patarkalashvili , Technical University of Georgia, Georgia |
| 14.05 - 14.25 | Title: An Effective Multi-Stakeholder Regime for Environmental Sustainability in Oil and Gas Producing Areas Joy Debski , Robert Gordon University, UK |
| 14.25 - 14.45 | Title: Stakeholders' Awareness of Climate Change and Related Attitudes toward Adoption of Nature-Based Solutions and Policy Priorities Vera Ferreira , University of Algarve, Portugal |
| 14:45 - 15:05 | Title: Catalyst Design for Waste Plastic Pyrolysis Optimisation Osman Yusifu Yansaneh , University of Hull, UK |

Poster Presentation

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| 15:05 - 15:20 | Title: Architecture Design Study for The Health Risk and Toxicity Database in China Yuyue Wen , South China Institute of Environmental Science, Ministry of Ecology and Environment, China |
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