

Joint Event

6th International Conference on
**ENVIRONMENTAL SUSTAINABILITY
AND CLIMATE CHANGE**
&
**RECYCLING AND WASTE
MANAGEMENT**

August 21-22, 2023 | Philadelphia, USA



Scientific Program

6th International Conference on **Environmental Sustainability and Climate Change & Recycling and Waste Management**

Day 1 - August 21, 2023

Meeting Hall: Salon I, II & III

08:00 - 08:45 Registrations

08:45 - 09:00 Opening Ceremony and Introduction

Keynote Presentations

09:00 - 09:40 Title: Role of Standards as an Enabler in a Digital Remanufacturing Industry
Ramesh Subramoniam, The University of Texas, USA

09:40 - 10:20 Title: SIDS and the Climate | Tourism | Green Energy Nexus: A 'Biotrash' to Cash Sustainable Approach
Kirk Douglas, The University of the West Indies, Barbados

10:20 - 11:00 Title: Forecasts of Global Renewable Energy Generation and Analysis of Key Factors Affecting the Growth of Renewable Energy Markets
Abhishek Asthana, Sheffield Hallam University, UK

Group Photo: 11.00 - 11.10

Networking & Refreshments (11.10 - 11.30) @ Salon IV

Oral Presentations

Session Chair: **M Anowarul Islam**, University of Wyoming, USA

Session Chair: **Christopher Galarza**, Forward Dining Solutions, USA

Sessions:

Environmental Sustainability and Development | Climate Change Risk, Policy and Law | Biodiversity, Ecology and Ecosystems | Geochemistry and Geoscience | Carbon Cycle and Carbon Footprint | Recycling – Reduce, Reuse and Recovery | Waste to Energy | Green Energy and Economy | Rubber and Plastic Recycling | Hazardous Waste Management | E-Wastes Recycling and Management | Medical Waste Management | Solid Waste Management

11.30 - 12.00 Title: A Multi-Level Characteristic Analysis of Urban Agglomeration Energy-Related Carbon Emission: A Case Study of the Pearl River Delta
Linyu Xu and Yuqi Dai, Beijing Normal University, China

12.00 - 12.30 Title: Chasing Carbon Zero: Electrifying Commercial Kitchens
Christopher Galarza, Forward Dining Solutions, USA

12.30 - 13.00 Title: The Current Impact of Asbestos and Asbestos-Containing Waste on the Environment and Human Health
Enedir Ghisi, Federal University of Santa Catarina, Brazil

Lunch (13.00 - 13.45) @ Salon IV

13.45 - 14.15 Title: Does the Current Local Green Economy of Ghana have Sustainable Job Creation Potential? The Case of the Agricultural Sector
Osei-Agyemang Yeboah, North Carolina A&T State University, USA

14:15 - 14:45 Title: Early-Stage Recovery of Lithium from Lithium-Ion Batteries Black Mass in Pilot Scale
Bastian Hansel, Institute of Chemical Technology, Technische Universität Bergakademie Freiberg, Germany

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14:45 - 15:15	Title: How the Waste Tire Recycling and Management Policy Influenced The Use of Asphalt Rubber in Brazil Liseane Padilha Thives , Federal University of Santa Catarina, Brazil
15:15 - 15:45	Title: Diverse Cropping System can Reduce Greenhouse Gas Emission and Improve Soil Health M Anowarul Islam , University of Wyoming, USA
15:45 - 16:15	Title: Sand Fixation and Dust Prevention by Biostimulation Method in Kashi Area China Qu Jili , Kashi University, China
16:15 - 16:45	Title: Restoring Riparian Ecosystems in East Mediterranean Agricultural Watersheds to Provide Multiple Ecosystem Benefits Felicia Orah Rein-Moshe , Soil Erosion Research Station, Ministry of Agriculture, Israel
Networking & Refreshments (16:45 - 17:05) @ Salon IV	
17:05 - 17:35	Title: Delta2Hn-alkane and Delta18O sugar Biomarker Proxies from Leaves and Topsoil of the Bale Mountains, Ethiopia, and Implications for Paleoclimate Reconstructions Bruk Lemma , Martin Luther University Halle-Wittenberg, Germany
17:35 - 18:05	Title: Research on Carbon Emission Calculation Method of Steel Pipelines Based on the Coupling of Life Cycle Model and Corrosion Model An Yan , Southwest Petroleum University, China
18:05 - 18:35	Title: Methane and Carbon Dioxide Emissions from the Hulene Dump and its Environmental Impact on Neighboring Communities Amad Hassam Abdul Gani , Universidade Pedagógica de Maputo, Mozambique
18:35 - 19:05	Title: What are the Conditions for Successful Implementation of Climate International Covenants? Erez Z Shoshani , Ruppin Academic Center, Israel
19:05 - 19:35	Title: Management of Covid-19 Vaccination Waste in Ghana Senam Tengey , Medical Waste Services Limited and Kwame Nkrumah University of Science and Technology, Kumasi-Ghana
19:35 - 20:05	Title: A Comprehensive Approach to Municipal Solid Waste Management in Kohima City, India Nzanthung Ngullie , National Institute of Technology Nagaland, India
20:05 - 20:35	Title: Recycling Used Cooking Oil Waste by Producing Biodiesel in Port Moresby, Papua New Guinea Linta Aquillah Qalopui , Pacific Adventist University, Papua New Guinea

Day 1 Concludes followed by Certificate Felicitation

6th International Conference on **Environmental Sustainability and Climate Change & Recycling and Waste Management**

Day 2 - August 22, 2023

Meeting Hall: Salon I, II & III

Keynote Presentations

09:00 - 09:40	Title: Case Study of National Climate Adaptation Policy: The Case of South Korea Kihan Lee , Dankook University, South Korea
09:40 - 10:20	Title: Passive Sampling as a Watershed Investigation tool to Identify and Quantify First-Flush Polar Pesticides in an Eastern Mediterranean Agricultural Basin Felicia Orah Rein-Moshe , Soil Erosion Research Station, Ministry of Agriculture, Israel

Oral Presentations

Session Chair: **Georgi Atanasov**, Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences, Bulgaria

Sessions:

Climate Change Risk, Policy and Law | Biodiversity, Ecology and Ecosystems | Recycling – Reduce, Reuse and Recovery | Metal Recycling | Industrial and Chemical Waste Recycling | Waste to Energy | Environmental Sustainability and Development | Oceanography, Fisheries and Aquaculture | Biomass Valorization | Biofuels | Environmental Impact Assessment | Space Monitoring of Climate Variable

10:20 - 10:50	Title: Leaching of Cu/Ag/Au Group Ores by DES to Recover by-product Elements of the CRM Category Ben Ebersbach , TU Bergakademie Freiberg, Germany
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Networking & Refreshments (10.50 - 11.15) @ Salon IV

11.15 - 11.45	Title: The COOL Process – Leaching Lithium Selectively from Spent Lithium-Ion Batteries Robert Mende , Institute of Chemical Technology, TU Bergakademie Freiberg, Germany
11.45 - 12.15	Title: The use of Recycled Waste from Photovoltaic Panels in Geopolymer Concretes Patrycja Bazan , Cracow University of Technology, Poland
12.15 - 12.45	Title: Development of a Climate Resilient Artificial Intelligence Trade (CReAIT) Platform for Sustainability Kirk Douglas , The University of the West Indies, Barbados
12.45 - 13.15	Title: Disentangling Antecedents, Behaviour and Entrepreneurial Traits of Key Actors of Sustainable Agritourism Ecosystem: A Tale of Emerging Market Navjot Sandhu , Birmingham City University, UK

Lunch (13:15 - 14:00) @ Salon IV

14.00 - 14.30	Special Session on SAVVYECO Surya Kotha and Anil , M/s Savvy Eco Private Limited, India
Session Chair:	Felicia Orah Rein-Moshe , Soil Erosion Research Station, Ministry of Agriculture, Israel

6th International Conference on **Environmental Sustainability and Climate Change & Recycling and Waste Management**

Sessions: Climate Change Risk, Policy and Law | Biodiversity, Ecology and Ecosystems | Environmental Sustainability and Development | Oceanography, Fisheries and Aquaculture | Environmental Impact Assessment | Space Monitoring of Climate Variable

14.30 - 15.00	Title: Advancing Strategic Environmental Assessment for Oil and Gas Development Transition into new Frontier Basin Regions: A Framework for the Petroleum Industry Mustapha Kyari Manga , Newcastle University, UK
15.00 - 15.30	Title: Smallholder Farmers' Willingness to Adopt Climate-Smart Agriculture in the Upper East Region, Ghana Yakubu Abdulai , University of Tsukuba, Japan
15.30 - 16.00	Title: Aquaculture Health and Performance: The Probiotic Boosting Effect Georgi Atanasov , Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences, Bulgaria

Networking & Refreshments (16.00 - 16.30) @ Salon IV

16.30 - 17.00	Title: Adverse Impacts of Oil Spills on Marine, Lowland and Upland Ecosystems of Niger Delta and the Control Measures Etuk Etiese Akpan , Clean Nigeria Associates Limited/Gte, Nigeria
17.00 - 17.30	Title: Promoting and Fostering First Generation Entrepreneurs towards Sustainability for Green Ecosystem Priya Kothari , YouthAid Foundation, India

Poster Presentations

PP-01	Title: Canine Faeces: The Microblog of an Environmental Health Problem Salah Jaber , University of Derna, Libya
PP-02	Title: Evaluation of Bacillus Strains Isolated from Corn Washing Liquors as Sustainable Source of Gramicidin Ana Belen Moldes , University of Vigo, Spain
PP-03	Title: Sequential Separation Model of Biosurfactants and Potential Antibiotics from Agri- Food Sludges Jose M Cruz , University of Vigo, Spain
PP-04	Title: Biomethane Production through the Integration of Renewable Energy Surpluses in WWTP Raquel Iglesias Esteban , Department of Energy_ Bioenergy_ CIEMAT, Spain
PP-05	Title: Spatial and Temporal ² H and ¹⁸ O Isotope Variation of Contemporary Precipitation in the Bale Mountains, Ethiopia Bruk Lemma , Martin Luther University Halle-Wittenberg, Germany
PP-06	Title: Bottom Liner Sorption Material from Waste Tires Against the Leaking of the Industrial Contaminants Junbom Park , Seoul National University, South Korea

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Offline E-Posters

EPP-01 Title: Microalgae Conversion into Green Transportation Fuels via Hydroprocessing
Vasiliki Ntagkonikou, Centre for Research & Technology Hellas (CERTH), Chemical Process and Energy Resources Institute (CPERI), Greece

EPP-02 Title: Environmental Assessment of a Microalgae Biorefinery Towards Renewable Fuels
Loukia P Chrysikou, Chemical Process & Energy Resources Institute (CPERI), Centre for Research and Technology Hellas (CERTH), Greece

Video Presentations

VP-001 Title: Permanent Debate Forum (fopede) between Portugal, Brazil and Portuguese-Speaking African Countries (PALOP[1]-CPLP[2]) to Identify the "State of the Art" in Solid Waste Management and Resilient Cities
Maria Madalena Ferreira, University of Coimbra, Portugal

VP-002 Title: Impacts of Climate Changes on Human Health
Elizabeth Ferreira Rangel, Oswaldo Cruz Institute, FIOCRUZ and Climate Change National Institute of Science and Technology, Brazil

Day 2 Concludes followed by Certificate Felicitation and Closing Ceremony

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Virtual Presentations

Day 01 - August 21, 2023 - Starts at 11:00 AM British Summer Time

Keynote Presentation

11:00 - 11:30 Title: Industrial Defossilization for the Energy Transition
Talieh Rajabloo, Hasselt University, Belgium

Oral Presentations

Session Chair: **Tumma Anuradha**, University College of Science, Osmania University, India

11:30 - 11:55 Title: TPEF: A Novel Fluorophore for Nanoplastic Detection in Biological Systems
Jerry Gao, Beijing Normal University, China

11:55 - 12:20 Title: Biodegradable Composite Film of Brewer's Spent Grain with poly(vinyl alcohol) Binder
Lilian Lin and Heon E Park, University of Canterbury, New Zealand

12:20 - 12:45 Title: An Analysis of Solid Waste Management Policies Implementation Challenges in Cameroon
Nchia Shella Ndum, University of Tsukuba, Japan

12:45 - 13:10 Title: Extreme Climatic Events: An Analysis of Socio-Economic Vulnerability and Cropping Mechanism in Selected Hotspots in India
Tumma Anuradha, University College of Science, Osmania University, India

13:10 - 13:35 Title: Hydrogeological and Geophysical Investigations in Kodakandla Mandal, Warangal District, Telangana, India
Ravi Ande, University College of Science, Osmania University, India

13:35 - 14:00 Title: Lake Chad Vegetation Cover and Surface Water Variations in Response to Rainfall Fluctuations under recent Climate Conditions (2000–2020)
Paul Gerard Gbetkom, LEGOS, Université de Toulouse, France

14:00 - 14:25 Title: Aminolysis of Polyesters with Anilines over Lactate-Based Ionic Liquids
Zhimin Liu, Institute of Chemistry, Chinese Academy of Sciences, China

14:25 - 14:50 Title: Eco-Efficiency: Methodological Framework and Assessment
Alexandra Gkoulgkoutsika, Aristotle University of Thessaloniki, Greece

14:50 - 15:15 Title: A Fuzzy Weighted Moving Average Applied to Annual Temperature in the World
Jianmin Jiang, Chinese Academy of Sciences and China Meteorological Administration Training Center, China

15:15 - 15:40 Title: Water Resources - The Israeli Experience
Raphael Semiat, President of the Israel Desalination Society, The Wolfson Department of Chemical Engineering, Technion IIT, Haifa, Israel

15:40 - 16:05 Title: Nurses' Education and Perceptions on Climate Change: A Scoping Review
Thierno Amadou Diallo, Laval University, Canada

16:05 - 16:30 Title: Smallholder Farmers' Willingness to Adopt Climate-Smart Agriculture in the Upper East Region, Ghana
Yakubu Abdulai, University of Tsukuba, Japan

Day 1 Concludes

6th International Conference on

Environmental Sustainability and Climate Change & Recycling and Waste Management

Day 02 - August 22, 2023 - Starts at 11:00 AM British Summer Time

Oral Presentations

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| 11:00 - 11:25 | Title: Enhanced Degradability and Mechanical Properties of Biodegradable Plastic Composites with New Zealand Jade Waste
Lilian Lin and Heon E Park , University of Canterbury, New Zealand |
| 11:25 - 11:50 | Title: Soil Organic Carbon Mineralization and Storage Under Varying Fire Regimes in a Guinean Savanna (Côte d'Ivoire, West Africa)
Armand W. Koné , Nangui Abrogoua University, Côte d'Ivoire |
| 11:50 - 12:15 | Title: Toxicity of Fine Particulate Matter during Firework event in Delhi, India
Khushbu Dahiya , Indira Gandhi Delhi Technical University for Women, India |
| 12:15 - 12:40 | Title: Design of Objective Function Based Segmentation Technique and Supervised Classification Scheme for Remote Sensing Images
Ravi Ande , University College of Science, Osmania University, India |
| 12:40 - 13:05 | Title: Theoretical Model and Simulation of the Power Utility Matrix in Order to Achieve Carbon Peak and Carbon Neutrality
AJ Jin , Ningbo University, China |
| 13:05 - 13:30 | Title: Impacts of Climate Change to African Indigenous Communities and Examples of Adaptation Responses: Case of the Bakas and Bantous People Living at the Periphery of the Dja Biosphere Reserve
Nwafi Ngeayi Adi , ACOBIDER, Cameroon |

Poster Presentations

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| 13:30 - 13:45 | Title: Impacts of Aggregate Quarries on the Environment, in Particular the Atmosphere (Dust Impacts) "Case of Heliopolis Guelma Aggregate Quarry"
Djedid Faten , University of Badji Mokhtar Annaba, Algeria |
| 13:45 - 14:00 | Title: Metal Biosorption by Exopolysaccharides Produced by Bacterial Strains Isolated from Marine Hydrothermal Vents
Johnthini Munir Ahamed , Kaohsiung Medical University, Taiwan |
| 14:00 - 14:15 | Title: Use of Mixed Recycled Aggregates in Concrete: Influence of Water Compensation Method on Physical and Mechanical Properties, Freeze-thaw Performance of Concrete Respectively
Haoyu Hao, RecyCon , KU Leuven Campus Brugge, Belgium |
| 14:15 - 14:30 | Title: Spatial Distribution of Anthropogenic Radionuclides in the Soil-Freshwater Ecosystem of the Arctic of Central Siberian (Russian Federation)
Lydia Bondareva , Erismann' Federal Scientific Centre Hygiene, Russian Federation |

Oral Presentations

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| 14:30 - 14:55 | Title: Modification and Surface Functionalization of Fly ash for Various Applications
Sangeeta Tiwari , Amity University, India |
| 14:55 - 15:20 | Title: Use of Ionic Liquid Pretreated and Fermented Sugarcane Bagasse as an Adsorbent for Congo Red Removal
Uroosa Ejaz , Shaheed Zulfikar Ali Bhutto Institute of Science and Technology - Karachi Campus, Pakistan |

Day 2 Concludes followed by Vote of Thanks

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&

Recycling and Waste Management

August 21-22, 2023 | Delta Hotels By Marriott Philadelphia Airport, USA

Note

Upcoming Conference

International Conference on

CLEANER PRODUCTION AND CIRCULAR ECONOMY

November 06-07, 2023 | City Seasons Hotel, Dubai, UAE

Bookmark Your Dates

7th International Conference on

ENVIRONMENTAL SUSTAINABILITY AND CLIMATE CHANGE

August 19-20, 2024 | London, UK

7th International Conference on

RECYCLING AND WASTE MANAGEMENT

August 19-20, 2024 | London, UK