



Joint Event

2nd International Conference on

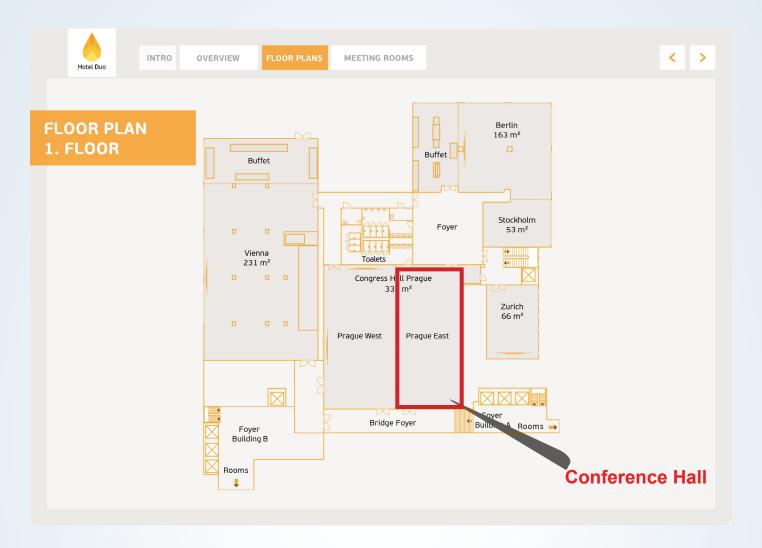
CLEANER PRODUCTION AND CIRCULAR ECONOMY

ENERGY ENGINEERING AND RESOURCE EFFICIENCY

September 23-25, 2024 | Prague, Czech Republic



Floor Plan





Wi-Fi Details:

Username: Coalesce Conference

Password: Prague2024

2nd International Conference on

	Day 1 - September 23, 2024
	Meeting Hall: Prague East
08:00 - 08:45	Registrations
08:45 - 09:00	Opening Ceremony and Introduction
	Keynote Presentations
09:00 - 09:40	Stormwater Modeling: Recent Progress and Challenges
	Erik R Christensen, University of Wisconsin-Milwaukee, USA
09:40 - 10:20	Cleaner Production and Circular Economy: Paradigm Shifts and New Directions
07.10 10.20	K Sandy Kyaw, Cardiff Metropolitan University, UK
	Networking & Refreshments 10:20 - 10:40 @ Bridge
	Oral Presentations
Session Chair	K Sandy Kyaw, Cardiff Metropolitan University, UK
	Circular Economy Circular Bio-economy Life Cycle Assessment De-
Sessions:	carbonization/ Low- Carbon Economy and Net Zero Environmental
	Sustainability and Climate Change Resource Efficiency and Value Chain Renewable Energy
	How Small Projects Shed Light on the Big Picture: Rural Biogas Projects Vs Global
10:40 - 11:05	Environmental Degradation A Common Denominator
	Jón Gudmundsson, Agricultural University of Iceland, Iceland
11:05 - 11:30	Development of a Methodological Framework for Circular Economy Business Model Valorization
	Natalija Cudecka-Purina, BA School of Business and Finance, Latvia
	Towards a Circular Economy for Bikes: Al-based Damage Detection for Repair Planning
11:30 - 11:55	Tobias Geger, Institute for Software and Systems Engineering, University of Technology Clausthal, Germany
11:55 - 12:20	The Circular Economy – Comparative Study of Different Countries on the Spectrum - Germany, Netherlands, and France, on One Side, and Romania and Poland, on the
	TUDOROIU, Simina Claudia and TUDOROIU, Roxana Elena, University of Petrosani, Romania
12:20 - 12:45	Enabling a Circular Economy of Medicines with a Smart Packaging Environmental Sensor
	James Gerrans, University of Reading, UK
	Group Photo: 12:45 - 13:00
	Lunch 13:00 - 14:00 @ Berlin
14:00 - 14:25	Circularity Assessment by Hierarchy of Disassembly: An Application of Circularity Indicators as a Design Tool for Architecture
	Francesco Incelli and Massimo Rossetti, luav University of Venice, Italy

2nd International Conference on

14:25 - 14:50	Repair, Refurbish, Remanufacture, Resell? How to Rate Lifecycle Expenditure and Opportunities with the Help of Artificial Intelligence
	Robert Werner, Institute for Software and Systems Engineering, University of Technology Clausthal, Germany
14:50 - 15:15	Cogeneration Unit with a Pulse Detonation Engine
	Jirí Rusín, Technical University of Ostrava, Czech Republic
15:15 - 15:40	Identification of R. Erythropolis Bioadsorption Process and Cesium Accumulation Location
	Woong Kim, Kyungpook National University, South Korea
15.40 14.05	Testing Experience with GIT as a More Sustainable Solution
15:40 - 16:05	Necmettin Mert Kocanali, Best Transformer Balıkesir, Türkiye
	Networking & Refreshments 16:05 - 16:25 @ Bridge
16:25 - 16:50	Does the Circular Economy Provide Solutions to the Challenges of Public Transport Electrification? Insights from the CE4CE Project
	Marcin Wolek, University of Gdansk, Poland
	Poster Presentations @ 16:50 - 18:00
Poster Judge	James Gerrans, University of Reading, UK
	The Northern Netherlands: Transformation of a Gas-Producing Region into a Forerunner in the Biobased Circular Transition
POSTER 01	Johanna Angela Thomann, Hanze University of Applied Science, The Netherlands
POSTER 02	Methane Production from the Pyrolysis-Methanation of Waste Polyethylene Terephthalate Plastic
	Maram Alotaibi, University of Leeds, UK
DOCTED 02	Pyrolysis of Waste Plastics and Tires for Liquid Fuels and Chemicals
POSTER 03	Noof Alzahrani, University of Leeds, UK
POSTER 04	Application of Ligninolytic Enzyme Producing Bacteria for Enhanced Bioconversion of Lanzhou Lily Biomass into Bioethanol
	Kamran Malik, Lanzhou University, China
POSTER 05	Grapes Pomace and Potatoes Residues Potential of Bioethanol Production: Pre- Treatment Approach for Maximizing Bioethanol
	Shah Mudassar, Lanzhou University, China
POSTER 06	Facing up to the Non-Circularity of Plastics: Policies for Plastics that Address Human Health and Environmental Safety Concern
	Shambulova Malika, HafenCity University Hamburg, Germany
	Day 1 Concludes followed by Certificate Felicitation

2nd International Conference on

	Day 2 - September 24, 2024
	Meeting Hall: Prague East
	Keynote Presentations
	Global Population: From Super-Malthus Behavior to Doomsday Criticality
09:00 - 09:40	Aleksandra Drozd-Rzoska, Institute of High Pressure Physics Polish Academy of Sciences, Poland
	Agata Angelika Sojecka, University of Economics in Katowice, Poland
09:40 - 10:20	Sustainable Options for the End-Of-Life of Clean Energy Technologies
	Anna Mazzi, University of Padova, Italy
	Networking & Refreshments 10:20 - 10:40 @ Bridge
	Oral Presentations
Session Chair	Jón Gudmundsson, Agricultural University of Iceland, Iceland
Sessions:	Cleaner Energy Systems Circular Economy Sustainable Development and Sustainable Technology Cleaner Production Economics Cleaner Logistics and Supply Chain Renewable Energy Advanced Energy Systems Cleaner and Responsible Consumption
10:40 - 11:05	Solar Harvesting via Multiple Transparent Photothermal Panels for Building Heating Utilities
	Donglu Shi, University of Cincinnati, USA
11:05 - 11:30	Circular Economy in the Construction Sector. An Explorative Study about the Recycling of Single-Use Masks based on a Customer Survey and Business Expert Interviews
11:05 - 11:50	Daniela Ludin and Erika Mueller, Department of Economics, Heilbronn University, Germany
11:30 - 11:55	Circular Economy and Entrepreneurship in Europe: An Analysis of the Impact of Cultural Factors and Regulatory Framework
	Francisco J Sáez-Martínez and Angela Gonzalez-Moreno, University of Castilla-La Mancha, Spain
11:55 - 12:20	Sustainability Awareness among Customers in the Service Sector. An Explorative Study Based on a Survey at a German Hair Salon
	Daniela Ludin and Erika Mueller, Department of Economics, Heilbronn University, Germany
12:20 - 12:45	Improving Areas with a Circular Economy Approach for Plastic from the Target Environment. A Case Study
	Marius Köder, Aalen University of Applied Science, Germany
12:45 - 13:10	The Cycle of Zero Fossil Methane
	Suaad S Al-Zakwani, University of Birmingham, UK
	Lunch 13:10 - 14:00 @ Berlin

2nd International Conference on

Cleaner Production and Circular Economy & Energy Engineering and Resource Efficiency

14:00 - 14:25	Enhancing the Use of Reclaimed Building Materials: Supply Chain Actors' Attitudes Toward the Potential of a Mobile Application
	Aleksandra Dorota Kret-Grzeskowiak, Wrocław University of Science and Technology, Poland
14:25 - 14:50	Biodiesel Production Processes with Yeasts from a Sustainable Approach
	Alejandra Sánchez Solís, Universidad Iberoamericana, Mexico
1.4.50 1.5.15	Harnessing Energy from Descending Greywater in Tall Buildings
14:50 - 15:15	Gideon Oron, Ben-Gurion University of the Negev, Israel
15:15 - 15:40	Reverse Logistics of Post-Consumer Glass Bottle in Brazil: A Case Study from the Perspective of the Street Collectors and the End Consumer
	Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil
	Networking & Refreshments 15:40 - 16:00 @ Bridge
	Development of Viable Hop Planting in Brazil - A Case Study
16:00 - 16:25	Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil
	The Challenge of Reverse Logistics for Post-Consumer Glass Packaging in Brazil
16:25 - 16:50	Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil
16:50 - 17:15	The Use of Fine Pellet Grains and Sponge Iron Sludge to Produce Oxide Briquettes Based on Circular Economy
	Reza Bahaadini, Reza Rouholamini and Samad Abbaslou, Golgohar Iron and Steel Development Company, Iran
17:15 - 17:40	Optimizing DO Concentration in Conventional Activated Sludge Process to Alleviate Energy Consumption: Application of Particle Swarm Optimization algorithm
	Mpho Muloiwa, Tshwane University of technology, South Africa
	Day 2 Concludes followed by Certificate Felicitation

Page 7

2nd International Conference on

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Day 3 - September 25, 2024		
C : Cl :	Oral Presentations	
Session Chair	Erik R Christensen, University of Wisconsin-Milwaukee, USA	
Sessions:	Cleaner Production and Advanced Manufacturing Circular Economy Green Technologies and Green Development Resource Efficiency and Value Chain Environmental Sustainability and Climate Change Renewable Energy	
09:00 - 09:25	Machine Learning as A Modeling Tool for Energy Consumption Planning Entity According to Product Characteristics for the Die-Casting Industry: Case Study	
	Mariel Alfaro-Ponce and Cristopher A Muñoz-Ibañez, Institute of Advanced Materials for Sustainable Manufacturing, Tecnologico de Monterrey, Mexico	
09:25 - 09:50	Development of a Green Process to Recover Gold, Silver, and Copper from Electronic Waste in Ecuador	
	Alejandra Galarza, Extractive Metallurgy Department, Escuela Politécnica Nacional, Ecuador	
09:50 - 10:15	Rejected Stream from Recycling of Multi-Layered Packaging Waste: Characterization, Opportunities for Circularity and Environmental Impacts Review	
	Carolina Bedoya Muñoz, Universidad Nacional de Colombia, Colombia	
	Networking & Refreshments 10:15 - 10:35 @ Bridge	
10:35 - 11:00	Systems Based Assessment of Livelihood Vulnerability and Adaptation Strategies to Climate Change: Rajanpur District Pakistan	
	Muhammad Afzal, University of Southern Queensland, Australia	
11:00 - 11:25	An Experiment Investigating the Potential of Utilizing a Phase Change Material to Enhance the Electrical Efficiency of a Solar Panel	
	Mohamed Bouzelmad, Ibn Zohr University, Morocco	
11:25 - 11:50	Carbon Pricing in Germany's Road Transport and Housing Sector: Options for Reimbursing Carbon Revenues	
	Manuel Frondel, RWI Leibniz-Institut für Wirtschaftsforschung, Germany	
	E-Poster	
E-Poster	Tackling Climate Change Through Multi-Stakeholder Partnerships. Promoting SDG 17 to Combat Climate	
	Elena Bulmer, Antonio de Nebrija University, Spain	
D	ay 3 Concludes followed by Certificate Felicitation and Vote of Thanks	

Virtual Program

2nd International Conference on

	Day 1 - September 23, 2024
	Virtual Presentations - British Summer Time (BST)
11:00 - 11:30	The Possibilities of Bacterial Cellulose within Established Markets: The Scalability of the Process and the Versatility of the Material
	Patrizia Bolzan, Politecnico di Milano, Italy
11:30 - 12:00	Does Family Care Promote Clean Cooking Energy Choices for Older Persons? – Analysis In Light of Home-Based Care in Rural China
	Wei Huang, Sichuan Agricultural University, China
12.00 12.20	Hosting Capacity of Distribution Grid
12:00 - 12:30	Alen Tatalovic, HEP ODS d.o.o. Elektroprimorje Rijeka, Croatia
10.00 10.00	Aspects of V2G Implementation in the Distribution System
12:30 - 13:00	Mateo Kirincic, University of Rijeka, Croatia
12.00 12.20	Study of the Process of Structural Wood Reuse in a Deconstruction/ Reconstruction Operation
13:00 - 13:30	Odran Lemaitre, Laboratoire d'Etude et de Recherhce sur le Matériau Bois, Université de Lorraine, France
12.20 14.00	Environmental Sustainability and Intelligence as well as General Green Technologies
13:30 - 14:00	Jinsong Wu, University of Chile, Chile
1400 1420	SRF Pyrolysis: Recovery Potential and its Role in the Circular Economy
14:00 - 14:30	Jarudej Asingsamanunt, Imperial College London, UK
14:30 - 15:00	A Step Closer to Sustainability with In-Mold Electronics
14:30 - 15:00	Stephan S Harkema, TNO at Holst Centre, Netherlands
15:00 - 15:30	Research and Development on Space Solar Power in Korea
15:00 - 15:50	Joon-Min Choi, HanSeo Univeristy, South Korea
	Optimizing the Reverse Supply Chain for Deconstructed Modular Building Components
15:30 - 16:00	Hosna Ghorab, Concordia University, Concordia Institute for Information Systems Engineering, Canada
16:00 - 16:30	Understanding Dairy Livestock Farmers' Intention to Adopt Sociocultural Dynamics for
	Food Security using the Theory of Planned Behaviour
	Paresh Kumar Sarma, Bangladesh Agricultural University, Bangladesh



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Note



Join The Race To Make The World A Better Place.... Act Now For a Greener Tomorrow

