Monday September 23, 2024

Scientific Program

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
00.00 00.40	Stormwater Modeling: Recent Progress and Challenges
09:00 - 09:40	Erik R Christensen, University of Wisconsin-Milwaukee, USA
09:40 - 10:20	Cleaner Production and Circular Economy: Paradigm Shifts and New Directions
09:40 - 10:20	K Sandy Kyaw, Cardiff Metropolitan University, UK
	Networking & Refreshments 10:20 - 10:40 @ Bridge
10:40 - 11:20	Strategic Future Thinking: Leveraging Technology for Sustainable Practices in the Circular Economy
10:40 - 11:20	Xukai Fu and William Meng, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China
	Oral Presentations
Session Chair	Xukai Fu, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China
Session Chair	K Sandy Kyaw, Cardiff Metropolitan University, UK
Sessions:	Circular Economy Circular Bio-economy Life Cycle Assessment De-carbonization/ Low- Carbon Economy and Net Zero Environmental Sustainability and Climate Change Resource Efficiency and Value Chain Renewable Energy
	bonization/ Low- Carbon Economy and Net Zero Environmental Sustainabilit and Climate Change Resource Efficiency and Value Chain Renewable Ener-
	bonization/ Low- Carbon Economy and Net Zero Environmental Sustainabilit and Climate Change Resource Efficiency and Value Chain Renewable Energy How Small Projects Shed Light on the Big Picture: Rural Biogas Projects Vs Global
11:20 - 11:45	bonization/ 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 Environmental Degradation A Common Denominator Jón Gudmundsson, Agricultural University of Iceland, Iceland Development of a Methodological Framework for Circular Economy Business Model
11:20 - 11:45	bonization/ 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 Environmental Degradation A Common Denominator Jón Gudmundsson, Agricultural University of Iceland, Iceland Development of a Methodological Framework for Circular Economy Business Model
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11:20 - 11:45 11:45 - 12:10 12:10 - 12:35	bonization/ 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 Environmental Degradation A Common Denominator Jón Gudmundsson, Agricultural University of Iceland, Iceland 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 Plannin Tobias Geger, Institute for Software and Systems Engineering, University of Technology Clausthal, Germany The Circular Economy - Comparative Study of Different Countries on the Spectrum - Germany, Netherlands, and France, on One Side, and Romania and Poland, on the
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	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
	Can it be Determined? On how to Rate Refurbishment Expenditure of Power Tool Batteries with the Help of Artificial Intelligence
	Dominique Fabio Briechle, Institute for Software and Systems Engineering, University of Technology Clausthal, Germany
15:15 - 15:40	Cogeneration Unit with a Pulse Detonation Engine
15:15 - 15:40	Jirí Rusín, Technical University of Ostrava, Czech Republic
15:40 - 16:05 <u></u>	Identification of R. Erythropolis Bioadsorption Process and Cesium Accumulation Location
	Woong Kim, Kyungpook National University, South Korea
	Networking & Refreshments 16:05 - 16:25 @ Bridge
16:25 - 16:50	Testing Experience with GIT as a More Sustainable Solution
10:23 - 10:30	Necmettin Mert Kocanali, Balikesir Elektromekanik Sanayi Tesisleri AS, Turkey
	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 @ 17:15 - 18:00
Poster Judge	James Gerrans, University of Reading, UK
Poster Judge	Xukai Fu, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China
	The Northern Netherlands: Transformation of a Gas-Producing Region into a Forerunner in the Biobased Circular Transition
	Johanna Angela Thomann, Hanze University of Applied Science, The Netherlands
	Methane Production from the Pyrolysis-Methanation of Waste Polyethylene Terephthalate Plastic
7	Maram Alotaibi, University of Leeds, UK
POSTER 03	Pyrolysis of Waste Plastics and Tires for Liquid Fuels and Chemicals
POSTER 03	Noof Alzahrani, University of Leeds, UK
	Application of Ligninolytic Enzyme Producing Bacteria for Enhanced Bioconversion of Lanzhou Lily Biomass into Bioethanol
	Kamran Malik, Lanzhou University; China
	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
POSTER 06	Health and Environmental Safety Concern
	Shambulova Malika, HafenCity University Hamburg, Germany

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
00.40.10.00	Sustainable Options for the End-Of-Life of Clean Energy Technologies
09:40 - 10:20	Anna Mazzi, University of Padova, Italy
	Networking & Refreshments 10:20 - 10:40 Bridge
	Oral Presentations
Session Chair	Xukai Fu, Beijing Jinkai New Energy Environmental Technology Co., Ltd., China
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 - 11:30	Daniela Ludin and Erika Mueller, Department of Economics, Heilbronn University, Germany
	Circular Economy and Entrepreneurship in Europe: An Analysis of the Impact of Cultural Factors and Regulatory Framework
11:30 - 11:55	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

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Aleksandra Dorota Kret-Grzeskowiak, Wrocław University of Science and Technology, Poland Optimizing the Reverse Supply Chain for Deconstructed Modular Building Components 14:25 - 14:50 Hosna Ghorab, Concordia University, Concordia Institute for Information Systems Engineering, Canada Biodiesel Production Processes with Yeasts from a Sustainable Approach Alejandra Sánchez Solís, Universidad Iberoamericana, Mexico Harnessing Energy from Descending Greywater in Tall Buildings Gideon Oron, Ben-Gurion University of the Negev, Israel Reverse Logistics of Post-Consumer Glass Bottle in Brazil: A Case Study from the Perspective of the Street Collectors and the End Consumer Alercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil Networking & Refreshments 16:05 - 16:25 @ Bridge Development of Viable Hop Planting in Brazil - A Case Study 16:25 - 16:50 Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil The Challenge of Reverse Logistics for Post-Consumer Glass Packaging in Brazil 16:50 - 17:15 Alaercio Nicoletti Junior, Production Engineering Department, Mackenzie Presbyterian University, Brazil 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 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 Optimizing DO Concentration in Conventional Activated Sludge Process to Alleviate		
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17:40 - 18:05 Food Security using the Theory of Planned Behaviour Paresh Kumar Sarma, Bangladesh Agricultural University, Bangladesh Optimizing DO Concentration in Conventional Activated Sludge Process to Alleviate 18:05 - 18:30 Energy Consumption: Application of Particle Swarm Optimization algorithm		Reza Bahaadini, Reza Rouholamini and Samad Abbaslou, Golgohar Iron and
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	18:05 - 18:30	
Mpho Muloiwa, Tshwane University of technology, South Africa		Mpho Muloiwa, Tshwane University of technology, South Africa

2nd International Conference on

	Day 3 - September 25, 2024
	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
	Development of a Green Process to Recover Gold, Silver, and Copper from Electronic Waste in Ecuador
09:25 - 09:50	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

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
10.00 10.00	Hosting Capacity of Distribution Grid
12:00 - 12:30	Alen Tatalovic, HEP ODS d.o.o. Elektroprimorje Rijeka, Croatia
12:30 - 13:00	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 1400	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
	Stephan S Harkema, TNO at Holst Centre, Netherlands
15:00 - 15:30	Research and Development on Space Solar Power in Korea
	Joon-Min Choi, HanSeo Univeristy, South Korea