Monday November 13, 2023

Scientific Program

5th International Conference on

Renewable Energy, Resources and Sustainable Technologies

Biopolymers and Bioplastics

	Day 1 – November 13th, 2023
	Meeting Hall: Rome
08:00 -08:40	Registrations
08:40 - 09:00	Introduction
	Keynote Presentations
09:00 - 09:40	An Acrostic Approach to Zero Exergy Buildings
	Arif Hepbasli, Yasar University, Turkey
09:40 - 10:20	A Framework for Establishing a Resource Circulation Society
	Dai-Yeun Jeong, Asia Climate Change Education Center, South Korea
	Exhibitor Presentation
10:20 - 10:45	SEWAT - Sustainable Energy by Waves Trap
	Giulio Teodoro MAELLARO, GECO -Global Engineering Constructions s.r.l., Italy
	Networking and Refreshments 10:45 -11:05 @ Rome
	Oral Presentations
Session Chair	Dai-Yeun Jeong, Asia Climate Change Education Center, South Korea
Session Chair	Arif Hepbasli, Yasar University, Turkey
Sessions:	Hydrogen Energy & Fuel Cells Smart Grid Hydro Energy Energy in Buildings Renewable Energy & Resources Bioremediation and Biodegradation Biopolymers & Bioplastics Sustainable Engineering and Energy Technologies
11:05 - 11:30	The Hydrogen Flagship Project TransHyDE: Transport and Storage Infrastructure for Green Hydrogen
	Dorothea Müschenborn, Max Planck Institute for Chemical Energy Conversion, Germany
11:30 - 11:55	Interpreting Public Security Requirements into Engineering Characteristics on Smart Grid Deployment
	Amy Poh Ai Ling, The University of Tokyo, Japan
11:55 - 12:20	Preparation of New Bio-based Epoxide-Amine Coatings with Their Nanocomposite Derivatives as Replacements for BPA
	Ilknur Babahan-Bircan, Aydin Adnan Menderes University, Turkey
12:20 - 12:45	Design and Development of an Autonomous Intelligent Robot for Distribution Center Operations: A Case Study
	Barış Çetinkaya, ADM Electricity Distribution Inc. ,Turkey
	Group Photo (12:45 - 13 :00)
	Lunch 13:00 - 14:00 @ Escale

Monday November 13, 2023

Scientific Program

5th International Conference on

Renewable Energy, Resources and Sustainable Technologies

Biopolymers and Bioplastics

14:00 - 14:25	Analysis of the Production Process of Sand-Lime Bricks with Shortened Autoclaving Time
	Anna Stepien, Kielce University of Technology, Poland
14:25 - 14:50	Barriers to the Adoption of Energy-Efficient Technologies in the Brazilian Building Sector
	Talita Mariane Cristino, São Paulo State University (UNESP), Brazil
14:50 - 15:15	Novel Method for Manufacturing an Alcohol Chemically Resistant Cosmetic Packaging Made from Industrial Coffee Waste and Vegetable Binder
	Franciele Saorin, Cencoderma Instituição de Pesquisa e Desenvolvimento de Cosméticos Ltdas, Brazil
15:15 - 15:40	Evaluation of Hydroelectric Energy Generation in Turkey via Polynomial and Logarithmic Regression Analysis
	Ezgi GÜLER, Bilecik Şeyh Edebali University, Turkey
15:40 - 16:05	Spectrophotometric-Based Assay to Quantify Relative Enzyme-Mediated Degradation of Commercially Available Bioplastics
	Matthew Hoekstra, Food Cycle Science, Canada
	Networking and Refreshments 16:05-16:30 @ Rome
16:30 - 16:55	Synthesis of Trans-Limonene Dioxide by Dioxirane using Chiral Catalyst
	Y. Mahmat Ahmat, Université Laval, Canada
16:55 - 17:20	Smart Cities: Recent Advancement and Challenges
	Gaydaa AlZohbi, Prince Mohammad Bin Fahd University, Saudi Arabia
17:20 - 17:45	Modulating the Properties of Saccharina-Based Fibres using Natural Cross-Linkers
	Ishrat Jahan Badruddin, Cranfield University, United Kingdom
17:45 - 18:10	Analysis of the Efficiency and Temperature Profiles of A Solar Thermal Energy Storage System Operating in A High Mountain Climate
	Victor Lizcano-González, Universidad Industrial de Santander, Colombia
_	d of Down 1 Brossouthiers Contificate Folicitation and Clarica Communication

End of Day 1 Presentations, Certificate Felicitation and Closing Ceremony

Scientific Program

5th International Conference on

Renewable Energy, Resources and Sustainable Technologies

Biopolymers and Bioplastics

	Day 2 – November 14th, 2023
	Meeting Hall: Rome
	Keynote Presentations
9:00 - 9: 40	Renewable Ammonia for the Global Energy Transition
	Angela Kruth, CAMPFIRE, Germany
9:40 - 10:20	Sustainable Microbial Production, Properties and Biodegradation of Lactate-Based Polymers from Various Carbon Sources
	Seiichi TAGUCHI, Kobe University Integrated Research Center, Japan
10:20 - 11:00	Fatty Acid Cellulose Esters (Faces) – from Synthesis and Characterization to Applications
	Nicolas Joly, Unité Transformations & Agroressources, France
	Networking and Refreshments 11:00 -11:15 @ Rome
	Oral Presentations
Session Chair	Angela Kruth, CAMPFIRE, Germany
Session Chair	Nicolas Joly , Unité Transformations & Agroressources, France
Sessions:	Renewable Energy & Resources Solar Energy Global Industrial Processes and Sustainable Development
11:15 -11: 40	Life Cycle Assessment of Bio-Fermentation Ethanol Production and Its Influence in China's Steeling Industry
	Lingyun Zhang, University of Nottingham, United Kingdom
11:40 - 12:05	Comparison between MPPT P&O and MPPT Fuzzy controllers for Photovoltaic Maximum Power Point Tracking
	Youb Lamia, University of Batna-2, Algeria
12.05 12.20	PLA synthesis using Response Surface Methodology (RSM)
12:05 - 12:30	Cristian Valdés, Universidad Católica del Maule, Chile
12:30 - 12:55	Effects of Nanocellulose Adittion on Natural Rubbers Compounds
	Jordão Gheller Junior, Instituto SENAI de Inovação em Engenharia de Polímeros, Brazil
	Lunch 12:55 - 14:00 @ Escale
14:00 - 14:25	The Impact of Using High Impact Polystyrene in the Production of Aerated Concreto (ACC)
	Ryszard Dachowski, Kielce University of Technology, Poland
14:25 - 14:50	Accelerating New Business Models In Malaysia's Electricity Sector: Key Drivers & Strategies
	Thiagaletchumi V Maniam, University of Nottingham Malaysia, Malaysia
14:50 - 15:15	Self-Immolative Polymers for Nanoparticles with Unique Degradation Profiles in Biomedical Applications
	Kedafi Belkhir, Centrale Lille Institut, France

Scientific Program

5th International Conference on

Renewable Energy, Resources and Sustainable Technologies

Biopolymers and Bioplastics

Diopoi,	ynici 3 anu biopiasuos
15:15 - 15:40	How the Leading PV Module Manufacturers Address Topcon-Module Degradation Sensitivities
	Goetz Fischbeck, Smart Solar Consulting, Germany
15:40 - 16:05	Soil Microorganisms in Mixed Forest and Pure Forests of Ulmuspumila - Robinia Pseudoacacia Based on Metagenomics
	Fengyun Ma, Shandong Agricultural University, China
	Networking and Refreshments 16:05 - 16:30 @ Rome
16:30 - 16:55	Smart Biopolymers: From 3D to 4D printing
	Daining Fang and Zeang Zhao, Institute of Advanced Structure Technology, Beijing Institute of Technology, China
	Poster Presentations
PP - 001	Development of A Hydrothermal Energy Utilization System using Wastewater in Reverse Osmosis Membrane
	Inhong Min, Korea Water Resources Corporation, South Korea
PP - 002	Influence of the Addition of Acetyl Tributyl Citrate and Reprocessing on The Biodegradability of Polyhydroxybutyrate
	Karen V. Enríquez-López, Universidad de Guadalajara, Mexico
PP - 003	Biodegradation of Biodegradable Biobased Plastics: Domestic Composting and Sector Development
	Jules BELLON, Institut Polytechnique UniLaSalle, France
PP - 004	The Potential of Lignin-Based Foams as Sustainable Alternatives to Conventional Insulation Materials
	Taiwo Kayode Fagbemigun, Aloes Research Education and Development Hub., Germany
PP - 005	Empowering Malaysia's Solar Energy Landscape: Exploring the Prospect of Peer-to-Peer Energy Trading
	Thiagaletchumi V Maniam, University of Nottingham Malaysia, Malaysia
PP - 006	Simulation of Methylammonium Lead Iodide Perovskite Solar Cell with Different Etl Using Scaps 1d Simulator
	Meriem Chadel, University of Tlemcen, Algeria
	Video Presentation
VP - 001	Integrating Early Childhood Education to Reduce the Ecological Footprint
	Hen Friman, Holon Institute of Technology, Israel
VP - 002	Polylactic Acid Biocomposites Reiforced with Starch from Mountain´S Yam (Dioscorea Remotiflora Kunth)
	V.V.A. Fernández, Universidad de Guadalajara, México
End	d of Day 2 Presentations, Certificate Felicitation and Closing Ceremony