Scientific Program

4th International Conference on

Biofuels and Bioenergy

	Day 1 October 12, 2023
09:00 - 09:40	Meeting Hall: Event 2&3
	Registration Introduction
09:40 - 10:00	
	Keynote Presentations
10:00 - 10:40	Impact of Second Generation of Biodiesel on Engine Performance and Emissions
10:40 - 11:20	Ornella Chiavola, ROMA TRE University, Italy Introducing the Laser-Based C14-SCAR Analyzer for the Measurement of the Biogenic
	Fraction in Fuel Blends
10.40 11.20	Amelia Detti, PPQ Sense, Italy
	Group Photo 11:20 - 11:30
	Networks & Refreshments 11:30 - 11:45 @ Foyer
	Oral Presentations
Session Chair	Ornella Chiavola, ROMA TRE University, Italy
Session Chair	Philippe Dagaut, Centre National De La Recherche Scientifique, France
Sessions	Bioenergy with carbon capture and storage Bioenergy Biomass Technology Biofuel Future and market scope Bioenergy Conversion Production of Biofuels
11:45 - 12:15	Availability and Accessibility of Biomass Residues in the Tropics
	Filip Vandeputte, SEE Performance Engineering BVBA, Belgium
12:15 - 12:45	Participation of Small-Scale Sugarcane Farmers in the Bioenergy Sector in South Africa
	Tagwi Aluwani, University of South Africa (UNISA), South Africa
12:45 - 13:15	Laboratory Studies of the Combustion of Terpenes Biofuels and Pollutants Characterization
	Philippe Dagaut, Centre National De La Recherche Scientifique, France
	Lunch 13:15 - 14:00 @ Gallery
1400 1420	Newly Developed Catalysts for Environmentally Friendly Catalytic Processes
14:00 - 14:30	Rawaz A. Ahmed, De Montfort University, United Kingdom
14:30 - 15:00	Multiscale Modelling and Experimental Studies on Algal Photobioreactors for Wastewater Treatment and Bioenergy Production
	Saikat Chakraborty, Plaksha University, India
15:00 - 15:30	The Preparation of Nitrogen-Doped High-Yield Biochar Carbon Material and its Potential Applications
	Shuchao Cheng, Southeast University, China
	Bioenergy PR Strategy Utilizing the Metaverse
15:30 - 16:00	Kihoon Lee, Orca Korea, Sogan University Graduate School, South Korea
	Networks & Refreshments 16:00 - 16:30 @ Foyer
16:30 - 17:00	CFD-DEM Simulation of Heat Transfer During the Biomass Combustion Process in a Bubbling Fluidized Beds
	Zifeng Luo, Southeast University, China

Thursday October 12, 2023

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17:00 - 17:30	Waste Valorization Technology Option for Egg Shell
	Sheeba Jilani, ZHCET AMU Aligarh, India
17:30 - 18:00	The impact of Torrefaction Particle Morphology of Pulverized Biomass
	Hongfang Zhou, Southeast University, China
18.00 - 18.30	Physiological Modulations of Gamma-Ray Mutants of Oleaginous Microalgae Chlorella sp. KM504965 for Enhanced Biofuel Production
	Senthamilselvi Dhandapani, Tamil Nadu Agricultural University, India
	Day 1 Concludes followed by Awards Ceremony

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	Day 2 October 13, 2023
	Meeting Hall: Event 2&3
	Keynote Presentations
09:30 - 10:10	Novel Catalyst and Reactor for Biodiesel Production
	Katherine Huddersman, De Montfort University, United Kingdom
	Oral Presentations
Session Chair	Gordon McKay, Hamad Bin Khalifa University, Qatar
Session Chair	Katherine Huddersman, De Montfort University, United Kingdom
Sessions	Biomass Technology Biogas Biodiesel Biofuels vs Fossil fuels Production of Biofuels Algae biofuels Environmental impacts of Biofuels Bioenergy
10:10 - 10:40	Waste-to-Biofuel via Catalyzed Pyrolysis and Bio-Oil Upgrading
	Gordon McKay, Hamad Bin Khalifa University, Qatar
	Networks & Refreshments 10:40 - 11:00 @ Foyer
11:00 - 11:30	Biocatalyzed Electrolysis Assisted Anaerobic Digestion (BEAD) : Research and Application
	Tao Wang, Wuyi Univerisity, China
11:30 - 12:00	Investigating the Feasibility of Producing Quality Biodiesel from used Cooking Oil (UCO) in Port Moresby, Papua New Guinea
	Linta Aquillah Qalopui, Pacific Adventist University, Papua New Guinea
12:00 - 12:30	Biological Conversion of Methane to Polyhydroxyalkanoates (PHA)
	Woong Kim, Kyungpook National University, South Korea
12:30 - 13:00	Comparison of Biofuel from Food Waste and Crops by Applying Life Cycle Analysis and Land Change Analysis
	Abrar Almalki, King Abdulaziz University, Saudi Arabia
	Lunch 13:00 - 14:00 @ Gallery
14:00 - 14:30	Performance and Emission Profiles of Petroleum Nut (Pittosporum resineferum Hemsl) Biodiesel in Combustion Ignition Engine-Generator for Power Generation
	Shawn Zedrick G. Taguiling, University of the Philippines Diliman, Philippines
14:30 - 15:00	Biogas from Simple Reactors to cutting-edge Bio-Methanation Technologies
14:50 - 15:00	Jin Mi Triolo, Gyeongsang National University, South Korea
15:00 - 15:30	Characterization of Molecules of Interest for Algal Biofuel
13.00 - 13.30	Hela Friha, Polytechnic Institute of Advanced Science: IPSA, France
15:30 - 16:00	Biomass to Value: Synthesizing High-Value Products through Advanced Gasification
	Zahir Barahmand, University of South-Eastern Norway, Norway
	Networks & Refreshments 16:00 - 16:30 @ Foyer

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PP-01 T S () () () () () () () () () (Gordon McKay, Hamad Bin Khalifa University, Qatar The Economic Potential of Industrial Hemp in South Africa Gibongile Tekana, University of South Africa (UNISA), South Africa Catalyst-Assisted IVDV Pretreatment of Industrial Hemp Hurds for Enhancement of Enzymatic Hydrolysis Maria El Hage, La Rochelle University, France
PP-01 S PP-02 E PP-03 PP-04	Catalyst-Assisted IVDV Pretreatment of Industrial Hemp Hurds for Enhancement of Enzymatic Hydrolysis Maria El Hage, La Rochelle University, France
PP-02 E	Catalyst-Assisted IVDV Pretreatment of Industrial Hemp Hurds for Enhancement of Enzymatic Hydrolysis Maria El Hage, La Rochelle University, France
PP-02 E	Enzymatic Hydrolysis Maria El Hage, La Rochelle University, France
PP-03 F	Maria El Hage, La Rochelle University, France
PP-03 F	
PP-03 F	
PP-04	Newly Developed Catalysts for Environmentally Friendly Catalytic Processes
PP-04	Rawaz A Ahmed, De Montfort University, United Kingdom
11-0-	Novel Catalyst and Reactor for Biodiesel Production
	Katherine Huddersman, De Montfort University, United Kingdom
	Analysis of Biomass Plug Velocities in Multi-Plug Systems through Aeration Time Constant Investigation
H	Hossein Rajabnia, The University of Newcastle, Australia
	Conversion of Glucose into Platform Compounds using Microwave Heating Method and Application in Biorefinery of Plant Biomass Materials
(Chung-Yu Guan, National Ilan University, Taiwan
	Wittig Salt Renewable Route Production Processing Optimization: Application of Genetic Algorithm Techniques
1	Jose Fernando Cuadros Bohorquez, Estacio de Sa University, Brazil
	Use of Factorial Experimental Design for the Production of Biofuel from Pyrolytic Bio- Dil of Aquatic Macrophytes
F	Paulo Renato dos Santos, Senai Institute for Biomass Innovation, Brazil
	Video Presentations
\/D 01	The Combined Electro-Thermo-Chemical Cycle – Benefits and Challenges
VP-01	Leonid Tartakovsky, Technion – Israel Institute of Technology, Israel
VP 02	Gasification of Densified Paraserianthes falcataria (L.) Sawdust for Energy Production
VP-02	Randell U. Espina, Ateneo De Davao University, Philippines
A	Comparative Study on Production and Characterization of Bioethanol from Agricultural Waste Materials
	Adeloye Olalekan Michael, University of Agriculture and Environmental Sciences, Nigeria
F	Production and Characterization of Bio Oil from Bamboo
	Adeloye Olalekan Michael, University of Agriculture and Environmental Sciences, Nigeria

Panel Discussion - Awards & Closing Ceremony followed by Vote of Thanks