

Scientific Program

2nd International E-meeting on

Biopolymers and Bioplastics

Thursday
October 28, 2021

Day 1 - October 28, 2021

11:00 - 11:15 Introduction

Keynote Presentations

11:15 - 11:45 Power Management of Microgrid Integrated with Wireless Sensor Network for Residential Parking Station
Dong Soo Har, Korea Advanced Institute of Science and Technology, South Korea

Oral Presentations

11:45 - 12:10 Food Waste, Organic Pollutants and Environmental Footprints: A Case for the Future Economy
Ikenna Elias Asogwa, University Sydney University, Australia

12:10 - 12:35 Graphene aerogel supported phase change materials (PCMs) for adjusting the thermo-electric energy harvesting
Chengbin Yu, Seoul National University, South Korea

12:35 - 13:00 A Hydrogen-focused Microgrid for Regional and Remote Community
GM Shafiullah, Murdoch University, Australia

Lunch Break (13:00 - 13:30)

Keynote Presentations

13:30 - 14:00 Solar energy for sustainable food supply
Nick Kanopoulos, Brite Solar Technologies, Greece

14:00 - 14:30 Annalise of adoption in practice of Performance Certification and alternative measures in the building in Albania
Atty. Lorenc Gordani, PhD, Tirana Business University, Albania

Oral Presentations

14:30 - 14:55 Breakthrough solution for seasonal energy storage enabling synthesize powders for reversible hydrogen and methane storage
Jaroslav Jerz, Slovak Academy of Sciences, Slovakia

14:55 - 15:20 Collagen, from supramolecular assembly to tissue reconstruction
Carole Aime, Sorbonne Université, CNRS, France

15:20 - 15:45 Investigation of thermal runaway in lithium-ion cells
Nikolay E. Galushkin, Don State Technical University, Russia

15:45 - 16:10 4D printing of PBS-based biomaterial scaffolds for bone tissue engineering
Geoffrey Ginoux, Université de Reims Champagne Ardenne, France

16:10 - 16:35 3D printing of PVC Bio parts with Thermal Baking in LCD 3D printing
Mohammadreza Riahi, K.N.Toosi University of Tech, Iran

16:35 - 17:00 Evaluation and Characterization of *Paenibacillus lactis* (MZ674207) derived Polyhydroxybutyrate and Possible utility as Alternate Biopolymer
Ambika Balasubramanian, Sri Paramakalyani College, India

17:00 - 17:25 Magnetic Energy Automaton Mechanical Oscillator for Multiple Uses
Gregory Spaulding, Magnetic Voltage Source, USA

17:25 - 17:50 Cellulose-based biodegradable films from lawn grass as an alternative to plastics
Mominul Hoque, South Dakota State University, USA

End of Day 1

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Day 2 - October 29, 2021

Oral Presentations

11:00 - 11:25 Gelatine/nanoclay biofoams produced by mechanical foaming for thermal packaging applications
Virginia Martin Torrejon, Shenzhen Polytechnic, China

Keynote Presentation

11:25 - 11:55 Microalgal biomass cultured in Electroplating industrial effluents as renewable resource material for biofuel production
Yasodha T, Alchemy Projects and Consultancy, India

11:55 - 12:25 Powering Agri-food Systems with Clean Energy Systems – Overview of Status, Challenges and Opportunities
Olivier Dubois, UN Food and Agriculture Organization (FAO), Belgium

12:25 - 12:55 Optimal left-turn lane design for reducing emissions of mixed traffic with light and duty vehicles based on field data
Fan Jieyu, Ulm University, Germany

Lunch Break (12:55 - 13:30)

Oral Presentations

13:30 - 13:55 Disintegration of pure and modified cellulose acetate during industrial anaerobic digestion and composting in lab- and full-scale test
Giovanni Gadaleta, Politecnico di Bari, Italy

13:55 - 14:20 Antecedents og Green Architecuture in United Arab Emirates
Jayaprada Putrevu, Abu Dhabi University, United Arab Emirates

14:20 - 14:45 3D printing of PVC Bio parts with Selective Laser Baking method
Mohammadreza Riahi, K.N.Toosi University of Tech, Iran

14:45 - 15:10 The effect of acetylation time on the development of lignin based gel-like dispersions in vegetable oil
J.F. Rubio-Valle, University of Huelva, Spain

15:10 - 15:35 A State-of-the-Art Review: Tubular Daylighting Systems between reality and future aspirations
Walid Aniss Aissa, Aswan University, Egypt

15:35 - 16:00 Physical, mechanical and biodegradable properties of films from avocado peel cellulose
Shafaet Ahmed, South Dakota State University, USA

16:00 - 16:25 Graphite and 2D additive Anode Li-Batteries Technology
Siva Bohm FRSC, Imperial College London, United Kingdom

16:25 - 16:50 Tailoring the CO₂ gas separation performance of mixed matrix membrane by post synthetic modification of filler material
Mridusmita Barooah, Indian Institute of Technology Guwahati, India

16:50 - 17:15 Assessing the public health understandings and perception of microplastics pollution: the localization of environmental risk.
Morufu Olalekan Raimi, University of Lagos, Nigeria

End of Day 2