

Joint Event on

European Congress on

# Renewable Energy and Sustainable Development &

# Biopolymers and Bioplastics

November 16-17, 2023 | Rome, Italy



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# Conference Programme

# Conference Programme

November 16-17, 2023 | H10 Roma Città, Rome, Italy

Day 1, November 16, 2023

Meeting Hall: CAMPO MARZIO/TREVI

08:00 - 08:40

Registrations

08:40 - 09:00

Introduction

## Keynote Presentations

9:00 - 9:40

**Jakob Albert**, Hamburg University, Germany

**Title:** Indium-Based Catalysts as Promising Alternative for Sustainable Power-To-Liquid Concepts

09:40 - 10:20

**Frank Kameier**, Duesseldorf University of Applied Sciences, Germany

**Title:** Blade Tip Vortex Noise of Wind Turbines and Infrasound

## Oral Presentations

Session Chair:

**Jakob Albert**, Hamburg University, Germany

Session Chair:

**Frank Kameier**, Duesseldorf University of Applied Sciences, Germany

**Sessions:** Biofuels & Bioenergy | Renewable Energy & Resources | Geothermal Energy | Energy Conversion and Storage | Nano Energy & Technology | Solar Energy | Wind Energy | Clean Energy | Biodegradable polymers | Bioplastics from natural polymers

10:20 - 10:45

**Faisal Anzah**, Kuwait University, Kuwait

**Title:** Applying an AHP-GIS Model to Hybrid Wind-Solar Energy Site Selection in A Hot Desert Region: A Case Study of the Kuwaiti Desert

## Networking & Refreshments (10:45 - 11:15) @ LOBBY BAR

11:15 - 11:40

**Pawel Michal Slupski**, University of Padova, Italy

**Title:** Deep U-tube Heat Exchanger Breakthrough: Combining Laser and Cryogenics Gas for Geothermal Energy Exploitation - Laser-Rock Interactions Perspective

11:40 - 12:05

**Celia K. Falkenreck**, University of Kassel, Germany

**Title:** Influence of Accelerated Aging on Regenerated Cellulose Fiber-Reinforced Bio-Polyamide

12:05 - 12:30

**Viktoriiia Betina**, Ernst & Young GmbH, Germany

**Title:** Establishing Transition Strategies for Countries that are Depending on Gas & Oil Sector with a Focus on Biofuels, Biobased SAF

12:30 - 12:55

**Dorothea Voss**, Hamburg University, Germany

**Title:** Biogenic Formic Acid from Biomass of First, Second and Third Generation as a Sustainable Hydrogen Carrier and a Source for the Synthesis of Biofuels

**Group Photo: 12:55 - 13:15**

**Lunch (13:15 - 14:00) @ RISTORANTE**

14:00 - 14:25

**Andac Kilic**, ADM Electricity Distribution Inc., Turkey

**Title:** Showcasing Battery Energy Storage for Enhanced Grid Stability: A Case Study

14:25 - 14:50

**Monjurul Hoque**, Teagasc Ashtown Food Research Centre, Ireland

**Title:** Preparation and Characterization of Pectin/Carrageenan-Based Active Packaging Films

14:50 - 15:15

**Syawaluddin Akbar**, Pupuk Indonesia Holding Company, Indonesia

**Title:** Accelerating Decarbonization Initiatives for Fertilizer Industry in Indonesia: Case Study of Pupuk Indonesia (State-Owned Enterprise)

15:15 - 15:40

**Silus Kwemboi**, The Uganda Catholic Medical Bureau, Uganda

**Title:** Solar Energy Systems in Hospitals: Leveraging the Dual Effect of Cost and Carbon Efficiency; A Case of St. Joseph's Hospital- Kitgum in Uganda

15:40 - 16:05

**Baris Çetinkaya**, ADM Electricity Distribution Inc., Turkey

**Title:** Design and Development of an Autonomous Intelligent Robot for Distribution Centre Operations: A Case Study

## Networking & Refreshments (16.05 - 16.30) @ LOBBY BAR

16.30 - 16.55

**Kerim Kilinc**, Polyteks Textile Industry Research and Education Inc, Turkey

**Title:** Development of Biopolymer Multifilament Fibers: PBS Multifilament Yarns

16.55 - 17.20

**Yahya Atilgan**, ADM Electricity Distribution Inc., Turkey

**Title:** Effects of Boron Electrolyte Materials and Compositions for Electrochemical Supercapacitors

17.20 - 17.45

**Mohamed R. Gomaa**, Al Hussein Bin Talal University, Jordan

**Title:** Theoretical Model of Concentrating Photovoltaic/Thermal (CPV/T) System Based on Linear Mirrors

**Day 1 Concludes followed by Certificate Distribution**

Day 2, November 17, 2023

Meeting Hall: CAMPO MARZIO/TREVI

### Keynote Presentations

9:00 - 9:40

**Suzanna El Massah**, Zayed University, UAE

**Title:** GVCs and Environmental Sustainability in MENA: Do Digitalization and Institutions Make a Difference?

09:40 - 10:20

**Zubaida Rukhsana Usha**, Chinese Academy of Sciences, China

**Title:** Waste Extracted Reinforced Powder Incorporated Biodegradable Chitosan Composite Film

### Oral Presentations

Session Chair:

**Suzanna El Massah**, Zayed University, UAE

Session Chair:

**Simona Trandafir**, University of Rhode Island, USA

**Sessions:** Sustainable Development | Sustainable Agricultural Systems and Technology | Energy Policy | Wind Energy | Biofuels & Bioenergy | Green Energy and Technology | Global Industrial Processes and Sustainable Development | Environmental Impact and Sustainability | Clean Energy | Renewable Energy & Resources | Polyhydroxyalkanoates | Polymer nanotechnology | Bioplastics from natural polymers | Biodegradable Polymers

10:20 - 10:45

**Laras Wuri Dianningrum**, Pupuk Indonesia Holding Company, Indonesia

**Title:** Creating and Applying Sustainable Fertilizer Based on Phosphogypsum: Nitralite

### Networking & Refreshments (10:45 - 11:10) @ LOBBY BAR

11:10 - 11:35

**Pablo Blanc**, RELP - Global Renewable Energy Mass Adoption Program, Argentina

**Title:** Unveiling Market Dynamics: Nash Equilibrium and the Evolution of Renewable Energy Auction Markets

11:35 - 12:00

**Giulio Teodoro MAELLARO**, GECO - Global Engineering Constructions s.r.l., Italy

**Title:** SEWAT - Sustainable Energy by Waves Trap

12:00 - 12:25

**Michela Famiglietti**, University of Naples "Federico II", Italy

**Title:** Novel Amylose-Argan Proteins-Based Bioplastics: Production and Characterization

12:25 - 12:50

**Bartłomiej Kielasiński**, BWW Legal Office Warsaw, Poland

**Title:** The Impact of the EPBD Directive Amendment on the Decarbonisation of the Construction Sector

12:50 - 13:15

**Necati Keskin**, ADM Electricity Distribution Inc., Turkey

**Title:** Developing Virtualized Remote Terminal Unit for Electricity Transmission and Reducing Cost and Error Electricity Transmission and Reducing Cost and Error Rates in Outage Management

### Lunch (13:15 - 14:15) @ RISTORANTE

14:15 - 14:40

**Margarita Reit**, University of Kassel, Germany

**Title:** Influence of Accelerated Aging on Activation Energy of PLA and PLA-Starch Compound

14:40 - 15:05

**Djalila Gad**, Politecnico di Torino, Italy

**Title:** Energy Assessments of Women-Owned Micro, Small, and Medium-Sized Enterprises Working in Food and Textile Industries in Selected African Countries

15:05 - 15:30

**Thomas Norup From**, Aarhus University & Topsoe, Denmark

**Title:** Electrified Steam Methane Reforming of Biogas for Sustainable Chemical and Fuel Production

15:30 - 15:55

**Sude Kozalioglu**, ADM Electricity Distribution Inc., Turkey

**Title:** Artificial Intelligence-Based Attack Detection System for Supervisory Control and Data Acquisition (SCADA) Systems: Studies on Substation Emulator

15:55 - 16:20

**Konrad S. Sobczuk**, West Pomeranian University of Technology, Poland

**Title:** Differences in Photocatalytic Properties of Copper-Modified Commercial Titanium Dioxide (P25) During the Process of Carbon Dioxide (CO<sub>2</sub>) Photoreduction

### Networking & Refreshments (16:20 - 16:50) @ LOBBY BAR

16:50 - 17:15

**Jordão Gheller Junior**, SENAI Innovation in Polymer Engineering Institute, Brazil

**Title:** Effects of Nanocellulose Addition on Natural Rubbers Compounds



17:15 - 17:40

**Fatima-Zahra El Bouchtaoui**, Mohammed VI Polytechnic University, Morocco

**Title:** Humic Acid Modified Lignin based Slow-Release Fertilizers Reduce Nutrients Leaching and Boosted Wheat Crop Growth and Productivity

## Poster Presentations

PP -01

**Simona Trandafir**, University of Rhode Island, USA

**Title:** Understanding Public Preferences for Green Rooftops in the United States: A Discrete Choice Experiment

PP -02

**Silvia González Rojo**, Agrarian Technological Institute of Castilla y León, Spain

**Title:** Biotransformation of Starchy-Based By-Products Into Bioplastics: Valorization of Potato Wastewater to Produce Polyhydroxyalkanoates

PP -03

**Sukanya**, Clausthal University of Technology, Germany

**Title:** Purification, Regeneration and Reuse of Graphite from Lithium Batteries

PP -04

**Silvie Durpekova**, Tomas Bata University in Zlin, Czech Republic

**Title:** Bio-Based Hydrogels from Acid Whey as Sustainable Soil Amendments to Improve Soil Quality and Water Retention Capacity

PP -05

**Yu Han Guo**, York House School, Canada

**Title:** Biological Photovoltaics: Testing Algae for the Optimal Battery

PP -06

**Sara Fuster-Esteso**, University of Alicante, Spain

**Title:** Lactic Acid as Natural Biocide for Gum Arabic Adhesives

PP -07

**Kurias George**, Universitat Rovira I Virgili, Spain

**Title:** Assessing Future Offshore Wind Farms in the Gulf of Roses: Insights from Weather Research and Forecasting Model Version 4.2

## Video Presentations

VP - 01

**Abderrahim Ait hssi**, Ibn Zohr University, Morocco

**Title:** Two-step Electrodeposition of  $\text{Cu}_2\text{O}/\text{ZnO}$ -NRs Heterostructures for Photovoltaic Applications

VP - 02

**Anastasia Tsoy**, Shanghai Jiao Tong University, Russia

**Title:** Overview of Current Development in Energy Storage Systems (ESSs) Integration Strategies for Different Building Typologies and the Application Potential in Architectural Field

VP - 03

**Kui Zeng**, University of Göttingen, Germany

**Title:** Synthesis of Thermoresponsive Pnipam-Grafted Cellulose Sulfates for Bioactive Multilayers via Layer-By-Layer Technique

VP - 04

**Morgan Lecoublet**, UniLaSalle, France

**Title:** Dielectric Performance of New Biobased Materials by 3D Printing

VP - 05

**Enrico Giarmanà**, Università degli Studi di Catania, Italy

**Title:** Managing Renewable Electricity within Collective Self-Consumption Schemes: A Systematic Private Law Approach

VP - 06

**Youness Khaddam**, Moulay Ismail University, Morocco

**Title:** New Small Non-Fullerene Acceptors Based on  $\alpha$ -dithiophenetetrathiafulvalene with A-D-A Structure for High-Performance Organic Solar Cells Application

VP - 07

**Mujeeb Khan**, King Saud University, Saudi Arabia

**Title:** Nitrogen Doped Graphene and Palladium Nanoparticles Based Electrocatalysts for the Sustainable Production of Hydrogen Through Water Splitting

**Day 2 Concludes followed by Panel Discussion - Closing Ceremony**

European Congress on

# Renewable Energy and Sustainable Development & Biopolymers and Bioplastics

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Note:

*Bookmark The Date*

2<sup>nd</sup> European Congress on  
**Renewable Energy and  
Sustainable Development**

November 11-12, 2024 | London - UK



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