

Scientific Program

International Conference on Renewable Energy and Sustainable Technologies

Monday
June 21, 2021

Day 1 - June 21, 2021 | 10:00 - 18:30 BST

10:00 - 10:10 Introduction

Keynote Presentation

10:10 - 10:40 Public local participation in regional sustainable energy transition to 100% renewable energy

Joaquim Corominas, Association Energy Congress of Catalonia, Spain

Oral Presentations

10:40 - 11:05 Harnessing Power: Making On-Site Renewables Work for Commercial Buildings

Yariv Edery, The Building Excellence Group Ltd, New Zealand

Keynote Presentations

11:05 - 11:35 Proactive Power Management of PV-powered Nanogrids

Dongsoo Har, Korea Advanced Institute of Science and Technology, South Korea

11:35 - 12:05 Regulatory analysis on the increasing value of buildings through a quality process of energy performance certification in Albania

Atty. Lorenc Gordani, Tirana Business University (TBU), Albania

12:05 - 12:35 Advanced BIObased polyurethanes and fibres for the autoMOTIVE industry with increased environmental sustainability

Agnieszka Sitarz and Witold Slomkowski, Greennovention, Poland

Oral Presentations

12:35 - 13:00 Computational Design of Novel Biochemical Pathways for Bio-Based Commodity Chemicals

Ahsan Islam, Loughborough University, United Kingdom

Lunch (13:00 - 13:30)

13:30 - 13:55 Cellulose-collagen materials crosslinked with chemical and enzymatic agents

Agata Sommer, Gdansk University of Technology, Poland

13:55 - 14:20 Nonwoven fibrous materials with antibacterial properties based on poly-3-hydroxybutyrate biopolymer for medicine

Tyubaeva Polina Mikhailovna, Russian University of Economics, Russia

14:20 - 14:45 Highly efficient Hydrogen storage in LOHC and efficient Systems

Eberhard Schlücker, University of Erlangen-Nuremberg, Germany

14:45 - 15:10 Techniques to evaluate and increase plastic waste biodegradability

Giovanni Gadaleta, Polytechnic University of Bari, Italy

15:10 - 15:35 A performance evaluation of a silica-gel/water adsorption chiller fueled by biomass energy

Riad Benelmir, University of Lorraine, France

15:35 - 16:00 Biopolymer-modified electrodes for electrochemical determination of pollutants

Anastasiya Svirepa, Kurt-Schwabe-Institut für Mess- und Sensortechnik Meinsberg e.V., Germany

16:00 - 16:25 Influence of climate and Clay thermal characteristics on fossil energy and global warming power by life cycle analysis

André Donnot, University of Lorraine, France

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16:25 - 16:50	A promising biobased polyester, the poly(ethylene 2,5-furandicarboxylate) (PEF) Nicolas Sbirrazzuoli , Université Côte d'Azur, France
16:50 - 17:15	Bacterial PHA from LCB biomass: the potential use of fruit residues as sustainable feedstock Rodrigo Andler , Universidad Católica del Maule, Chile
17:15 - 17:40	A novel method to remove CO ₂ from sea water Arturo Solís Herrera , Human Photosynthesis® Research Center, México
17:40 - 18:05	Design of Bio-Polymers by Mining the PHA Chemical Space Karteek K. Bejagam , Los Alamos National Laboratory, USA
18:05 - 18:30	Development of eco-friendly bacterial cellulose membranes filters for the microplastics removal from contaminated water César Cunha , University of Madeira, Portugal

End of Day 1 Sessions

Tuesday
June 22, 2021

Day 2 - June 22, 2021 | 10:00 - 18:00 BST

Keynote Presentation

10:00 - 10:30	Sardinian Microalgae: a sustainable and renewable feedstock for technological applications and value-added products Giacomo Cao , University of Cagliari, Italy
10:30 - 11:00	Bio-based transformation pathways in the chemical sector: Global assessment in a dynamic perspective Duy Nong , University of Bonn, Germany

Oral Presentations

11:00 - 11:25	First principles calculations of electronic and thermoelectric transport properties of Pb ₂ Bi ₂ Te ₅ with different atoms sequences Weiliang MA , Aix-Marseille Université, France
11:25 - 11:50	Pressure drop across randomly packed beds of ellipsoidal particles Hoffmann Jaap , Stellenbosch University, South Africa
11:50 - 12:15	Clean and safe nuclear power-emerging fusion technologies for near future Luciano Ondir Freire , University of São Paulo, Brazil
12:15 - 12:40	Double-skin ventilated glass façades; Design solutions for reducing the energy needs of buildings in hot climate Silvia Brunoro , University of Ferrara, Italy
12:40 - 13:05	Primary frequency regulation service by integrated PV-BESS systems Francesco Conte , Università degli studi di Genova, Italy
13:05 - 13:30	Purple non-sulfur bacteria as a source of bioplastics Eleftherios Touloupakis , National Research Council, Italy

Lunch (13:30 - 14:00)

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- 14:00 - 14:25 Nanocellulose coating to improve water absorption on polyester fibers
Maria Angeles Bonet Aracil, Universitat Politècnica de València, Spain
- 14:25 - 14:50 Techno-economic analysis of catalytic pyrolysis of olive mill waste water sludge in fluidized bed reactor
Muhammad Shoaib Ahmed Khan, Université de Lorraine, France
- 14:50 - 15:15 The Y factor for Climate Change Abatement – beyond the technological challenge
Emile J. L. Chappin, Delft University of Technology, The Netherlands
- 15:15 - 15:40 IControllers guidance system of flat solar collector with thermosiphon circulation
Murat Kunelbayev, Institute Information and Computational Technologies CS MES RK, Republic of Kazakhstan
- 15:40 - 16:05 Epistemocracy: The Biological Machine and Thermodynamic Efficiency
Mara Lamothe, Universidad Autonoma Metropolitana, Mexico
- 16:05 - 16:30 A multiple approach in determination of biodegradability of melt-mixed PBAT/EVOH blends: Effect of EVOH on the biodegradability rate and microstructure
Mehdi Elhamnia, University of Tehran, Iran
- 16:30 - 16:55 The Probabilistic Origin of the Second Law of Thermodynamics and the Implications in Renewable Energy
Nery Lamothe, Universidad Autonoma Metropolitana, Mexico

Poster Presentations

- 16:55 - 17:10 Novel composite films based on soy protein isolate and oilseed flours
Sabina Galus, Warsaw University of Life Sciences (WULS-SGGW) Poland
- 17:10 - 17:25 Development and characterization of cellulose triacetate nano/micro-fiber produced by electrospinning technique
Jose Fernando Rubio-Valle, ETSI University of Huelva, Spain
- 17:25 - 17:40 Identification and characterization of polyhydroxyoctanoate (PHO) depolymerase/lipase in *Stenotrophomonas maltophilia* K279a
Haben Tesfu, University of Manitoba, Canada
- 17:40 - 17:55 Cyanobacteria producing exopolymers as potential biofloculant for plastic debris water removal
Marisa Faria, University of Madeira, Portugal

Oral Presentation

- 17:55 - 18:10 Production and study of bioplastics and their characteristics
Saurabh Surendran Nambiar, Emediong Peter Akpan, Vandana Sakhre
Dept. of Chemical Engineering, Manipal Academy of Higher Education, Dubai

Video Presentation

- 18:10 - 18:35 Chitosan tailor-made biomembranes for sample preparation
C. Román-Hidalgo, Universidad de Sevilla, Spain

E-Poster

- E-Poster Study of hydrogen energy problems and their solution
Nikolay Efimovich Ga, Don State Technical University, Russia

End of Day 2 Sessions