

# Scientific Program

## 3<sup>rd</sup> Online International Conference on Environmental Sustainability and Climate Change

**Monday**  
**November 15, 2021**

### Day 1 - November 15, 2021

10:00 - 10:15 Opening Ceremony and Introduction

#### Oral Presentations

10:15 - 10:40 Molecular dynamics study of modification assessments between asphalt binder and different oxidative degrees of polyethylene  
**Taoli Zhang, Kui Hu**, Henan University of Technology, China

10:40 - 11:05 Small and medium entrepreneurs' perception of flood loss and damage in Sri Lanka  
**Vindya Hewawasam**, University of Tsukuba, Japan

#### Workshop

11:05 - 11:35 Prohibition of disposables require approach renovation  
**Moshe Gophen**, Migal-Scientific Research Institute, Israel

#### Oral Presentations

11:35 - 12:00 Local capacities and challenges for resettling climate victims in the Southeast Coast of Bangladesh  
**Chakma Kisinger**, University of Tsukuba, Japan

12:00 - 12:25 Post-harvest losses and farmers' coping strategies in the Ashanti region of Ghana  
**Kofi Kyei**, University of Tsukuba, Japan

#### Keynote Presentations

12:25 - 12:55 Bioconversion of lignocellulosic biomass into value-added products  
**Roshanida A Rahman**, Universiti Teknologi Malaysia, Malaysia

12:55 - 13:25 Global environmental development and sustainability: Technology and management  
**Hosam Bayoumi Hamuda**, Obuda University, Hungary

### Lunch Break (13:25 - 14:00)

#### Oral Presentations

14:00 - 14:25 Saturated paste extracts to monitor the variation of soil properties after repeated amendments with urban sewage sludge  
**Helmi Hamdi**, Qatar University, Qatar

14:25 - 14:50 The recovery of valuable compounds from vineyard trimming and pruning wastes  
**Reelika Rätsep**, Estonian University of Life Sciences, Estonia

14:50 - 15:15 Open dumping of municipal solid waste and its impacts on the environment  
**May A Massoud**, American University of Beirut, Lebanon

15:15 - 15:40 Energy transition and the economic recession under COVID-19 crisis  
**Marina Badileanu**, National Institute for Economic Research, Romania

15:40 - 16:05 Optimization of *Stichococcus* sp. cultivation in lab and pilot scale photo- bioreactors for efficient CO<sub>2</sub> fixation and bio-products production  
**Georgios Makaroglou**, Technical University of Crete, Greece

16:05 - 16:30 Obtaining top biocompounds from wastes by hydrothermal carbonization  
**Beatriz Ledesma and Silvia Roman Suero**, University of Extremadura, Spain

16:30 - 16:55 Quantifying the impact of different tillage systems on biological indicators of soil quality in *Retisol*  
**Monika Vilkiene**, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

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16:55 - 17:20 Development of an eco-compatible process for the recovery of rare earths from permanent magnets  
**Sahar Belfqueh**, BRGM and ICSM, France

### Keynote Presentations

17:20 - 17:50 Albedo changes drive 4.9 to 9.4°C global warming by 2400  
**Gene Richard Heinze Fry**, Citizens Climate Lobby, USA

17:50 - 18:50 Future global environmental roadmap from 420 kY of paleoclimatology  
**Thomas F Valone**, Integrity Research Institute, USA

End of Day 1

**Tuesday**  
**November 16, 2021**

### Day 2 - November 16, 2021

#### Oral Presentations

10:00 - 10:25 Marine Cloud Brightening  
**Stephen H Salter**, University of Edinburgh, UK

10:25 - 10:50 Converting a process waste into a process improver. Recirculation of water during HTC  
**Beatriz Ledesma and Silvia Roman Suero**, University of Extremadura, Spain

10:50 - 11:15 Recovery of valuable materials from waste electronics using ethanol as supercritical solvents  
**Amrita Preetam**, IIT Delhi, India

11:15 - 11:40 New insights from studies derived from the extensive collections of wild *Lactuca* relatives at the gene bank of the Institute of Evolution, University of Haifa  
**Alex Beharav**, University of Haifa, Israel

11:40 - 12:05 Analysis of tomato synthetic seeds for the development of an optimized encapsulation system  
**Raina Ijaz**, University of Poonch Rawalakot, Pakistan

12:05 - 12:30 Nitrogen use efficiency and dynamics in a sunflower-wheat-sunflower-wheat cropping sequence as influenced by crop residues management  
**Nabila El Alami**, Moulay Ismail University, Morocco

#### Poster Presentations

12:30 - 12:45 The use of recyclates in protective corrugated pipes as a method of managing waste polymer materials  
**Anna Chmiel**, TT Plast S.A., Poland

12:45 - 13:00 Type and amount of nitrogen fertilizers control the share of inorganic carbon pool in emitted CO<sub>2</sub> from calcareous soils: Implications for land management and global warming  
**Jingjing Tao**, University of Göttingen, Germany

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13:00 - 13:15 Acceptability of upcycled textile products among consumers  
**Jemimah Mary Anil**, St. Teresa's College, Ernakulam-India

Lunch Break(13:15 - 13:45)

### Oral Presentations

13:45 - 14:10 Opportunities and challenges of eucalyptus residues application for pickering emulsions  
**Derval dos Santos Rosa**, Universidade Federal do ABC, Brazil

14:10 - 14:25 Reuse of municipal wastewater from tertiary treatment to restore a wetland ecosystem at alisos watershed  
**Perfecto Barragan-Pena**, Tecnológico Nacional de México/ Instituto Tecnológico de Nogales, Mexico

### Keynote Presentations

14:25 - 14:55 Transformation of conventional solid waste collection systems into cyber-physical system based on Internet of Things technologies: An optimization approach  
**Tamas Banyai**, University of Miskolc, Hungary

14:55 - 15:25 Measurement of a world-wide transfer function for marine cloud brightening  
**Stephen H Salter**, University of Edinburgh, UK

15:25 - 15:55 Role of environmental biotechnology in soil protection: Study case  
**Hosam Bayoumi Hamuda**, Obuda University, Hungary

End of Day 2