

SUSTAINABILITY 2019

November 28–29 | Rome, Italy

Scientific Program



Scientific Program

DAY 1

November 28, 2019

08:30-09:00 Registrations

09:00-09:30 Opening Ceremony

Keynote

09:30-10:00 Biomass enabled high performance energy storage

Xiaodong Li, University of Virginia, USA

10:00-10:30 Carbon sequestration through rehabilitation and restoration of degraded ecosystems

Yuji Sakai, Kogakuin University, Japan

10:30-11:00 Construction of a Biogas plant as a Renewable energy source

Ali Firat Calabar, University of Gaziantep, Turkey

Refreshment Break 11:00-11:15

11:15-11:45 Light absorption and sources of brown carbon in central Los Angeles

Constantinos Sioutas, University of Southern California, USA

Scientific Sessions

Session Chair: Vladimir Babeshko, Russian Academy of Sciences, Russia

Session Co-chair: Yuji Sakai, Kogakuin University, Japan

11:45-12:10 Electrocatalytic energy conversion and storage systems: Promises and challenges

Mohammad Asadi, Illinois Institute of Technology, USA

12:10-12:35 Potential Impact of climate change on fish production in Kuwait

Ali Al Baz, Kuwait Institute for Scientific Research, Kuwait

12:35-13:00 Don't like it? Don't buy it! How to choose not to have coal power in your sockets

Per Ribbing, Upsala University, Sweden

Lunch 13:00-14:00

Workshop

14:00-15:00 New mechanics-mathematical methods in environment

Vladimir Babeshko, Russian Academy of Sciences, Russia

Speaker Sessions

15:00-15:25 Influence of climate factors and geostatistical analysis with reference to legionellosis

Osvalda De Giglio, University of Bari "Aldo Moro, Italy

15:25-15:50 A comparative study of effect of pesticides on enzyme activity of epigeic earthworm *Perionyx Excavatus* in laboratory and field conditions

Partha Pratim Chakravorty, Raja N. L. Khan Women's College, India

Refreshment Break 15:50-16:05

Young Researchers Forum

- 16:05-16:15** **Removal and utilization of Glyphosate by a Pseudomonas sp from water and biogenic oxidation of Mn(II)**
Jie Yu, Beijing Forestry University, China
- 16:15-16:25** **Application of membrane bioreactors (MBRs) for industrial wastewater treatment-A critical discussion**
Sara Zandi, University of Aveiro, Portugal
- 16:25-16:35** **Green microalgae for sludge hydrolysis acidification solution treatment: Performance**
Xiaoya Liu, Beijing Forestry University, China
- 16:35-16:45** **Sustainability in Marine Renewable Energy Supply Chain, Step 1: Indicators Identification**
Seyed Asghar Bayat Ghiasi, University of Aveiro, Portugal
- 16:45-16:55** **Effects of pH on volatile fatty acid production from ultrasound-calcium hydroxide pretreating grass clipping**
Siqi Wang, Beijing Forestry University, China

Panel Discussion

DAY 2

November 29, 2019

Special Session

- 09:45-10:30** **Climate emergency: Truly thinking globally and acting locally**
Harrie Vredenburg, University of Calgary, Canada

Keynote

- 10:30-11:00** **Sustainability and Seismicity**
Vladimir Babeshko, Russian Academy of Sciences, Russia

Refreshment Break 11:00-11:15

- 11:15-11:45** **It's not the currents of electrons that develop the power system – it's the currents of money. How Eco labelling of power could help save the climate**
Per Ribbing, Upsala University, Sweden
- 11:45-12:15** **Urban River Ecosystem service assessment – A new methodological approach**
Jochen Hack, Technical University of Darmstadt, Germany

Speaker Sessions

- 12:15-12:40** **A systemic analysis on business activities and the respective impacts in time and space**
Luis Henrique Rodrigues, IESB-Institute of Systemic Studies of Brazil, Brazil

12:40-13:05 **A resilience tool against climate change: Case study of reclaimed water irrigation for fodder production**
Maria Pino Palacios Díaz, University of Las Palmas de Gran Canaria, Spain

Lunch Break 13:05-14:05

Workshop

14:05-14:50 **Multi criteria decision making in Sustainability assessments**
Mohammadreza Kamali, University of Aveiro, Portugal

Speaker Sessions

14:50-15:15 **Oil spill removal from water by mussel-inspired polydopamine/polyethylenimine-functionalized activated carbon derived from date palm waste**
Adewale Giwa, Khalifa University of Science and Technology, United Arab Emirates

15:15-15:40 **Ocean observations with satellites supporting climate change studies**
Stefano Vignudelli, National Research Council (CNR), Italy

Young Researchers Forum

15:40-15:50 **Pulp and paper mill effluent toxicity before and after treatment with engineered nanomaterials and ashes**
Amid Mostafaie, University of Aveiro, Portugal

15:50-16:00 **Scientology on Underground Carbon Storage Technology**
Mahsa Davarazar, University of Aveiro, Portugal

Refreshment Break 16:00-16:15

16:15-16:25 **Recovery of the waste streams from production process of $\text{SiO}_2\text{-Fe}_3\text{O}_4$ Core-shell Nanostructured material**
Behrouz Nemati, University of Aveiro, Portugal

16:25-16:35 **Biochar Application in Soils: Behavior and Toxicity**
Dina Jahanianfard, University of Aveiro, Portugal

16:35-16:45 **Sustainability in urban traffic management under heavy rainfalls – A multi-criteria analysis**
Reza Mehdizadeh Anvigh, University of Aveiro, Portugal

Poster Presentations 16:45-17:05

P-01 **Rethinking happiness indicators to an ecosystem service respective under the mental impact of climate change**
Yen-Lan Liu, Academia Sinica, Taiwan

P-02 **Effect of ocean acidification and ocean warming on the growth and survival of penaeus semisulcatus Post-Larvae**
Lamyia Al Musallam, Kuwait Institute for Scientific Research, Kuwait

Closing Ceremony & Awards Presentation