

4<sup>th</sup> World Congress and Expo on

# Recycling

July 27-29, 2017 Rome, Italy



**Conference Series - America**

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA  
Toll Free: 1-888-843-8169, P: 702-508-5200, F: +1-650-618-1417

**Conference Series - UK**

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OLIMPICA 1

conference**series**.com 08:30-09:00

# Opening Ceremony

## Keynote Forum

09:00-09:05 Introduction

Title: PAYT (Pay-As-You-Throw) schemes – A key step for a circular economy and citizens involvement

09:05-09:35

Roberto Cavallo, ERICA Soc. Coop., Italy

09:35-10:05

Title: Is it possible to fully predict removal performances of a nanofiltration process by transport modeling?

Déon Sébastien, Université de Bourgogne-Franche-Comté, France

10:05-10:35

Title: Use of treated oil sand waste in cementitious materials for geotechnical applications

M Hesham El Naggari, Western University, Canada

Group Photo & Networking and Refreshments Break 10:35-10:50 @ Foyer

10:50-11:20

Title: Water treatments, needs and directions

Semiati R, Technion - Israel Institute of Technology, Israel

Presentation on ITALIAN EXHIBITION GROUP SPA @ 11:20-11:45

Sessions: Industrial Waste Recycling | Waste Management Techniques | Waste Water Recycling | Rubber Recycling | Recycling Basics | Textile Recycling | Agricultural Waste Recycling

Session Chair: Déon Sébastien, Université de Bourgogne-Franche-Comté, France

Session Co-Chair: Kunio Yoshikawa, Tokyo Institute of Technology, Japan

Session Introduction

11:20-11:45

Title: Recycling approaches of the aluminum dross to obtain useful products and to preserve raw material sources

E David, National Institute for Cryogenic and Isotopic Technologies, Romania

11:45-12:10

Title: Green hydrolysis conversion of wool wastes into organic nitrogen fertilisers

Marina Zoccola, Institute for Macromolecular Studies, Italy

12:10-12:35

Title: Photodegradation of levofloxacin antibiotic via graphene/TiO<sub>2</sub> and its reusability

Pelin Alicanoglu, Pamukkale University, Turkey

12:35-13:00

Title: Membrane-based dewatering processes using FO and MD for nitrogen recovery from wastewater

Hyokwan Bae, Pusan National University, South Korea

Lunch Break 13:00-13:45 @ Hotel Restaurant

13:45-14:10

Title: Full factorial design to removal of zinc (II) ions from water by using hydrogel microspheres

Handan Akülker, Ondokuzmayıs University, Turkey

14:10-14:35

Title: Direct landfill disposal versus Mechanical-Biological Treatment (MBT)

Katarzyna Kulhawik, University in Poznań, Poland

14:35-15:00

Title: Recent developments in management of energy plants' wastes

Huseyin Koca, Anadolu University, Turkey

15:00-15:25

Title: Development of an integrated strategy for reducing the carbon footprint in the industry sector

Evangelia Karvela, Yiotis S A, Greece

Networking & Refreshments Break 15:25-15:40 @ Foyer

- 15:40-16:05** Title: **Membrane distillation for energy-efficient treatment (concentration) of electroplating liquids**  
**Judith Buchmaier**, AEE – Institute for Sustainable Technologies, Austria
- 16:05-16:30** Title: **Multimaterial laminated film recycling – PE-Al, PE-PA and PE-PET full material recovery without downcycling**  
**Szymon Wojciechowski**, Silesian University of Technology, Poland
- 16:30-16:55** Title: **Color removal from textile dyeing effluent by natural and activated clay adsorbents**  
**Handan Akülker**, Ondokuzmayıs University, Turkey
- 16:55-17:20** Title: **Banana (*Musa sp.*) Wastes as ruminant Feed**  
**Muhammad Rusdy**, Hasanuddin University, Indonesia

### Panel Discussion

Day 2 July 28, 2017

### OLIMPICA 1

### Keynote Forum

- 09:00-09:30** Title: **Solid fuel production from non-segregated municipal solid wastes employing the hydrothermal treatment**  
**Kunio Yoshikawa**, Tokyo Institute of Technology, Japan
- 09:30-10:00** Title: **Wastes recycling into fired clay bricks: A review**  
**Aeslina Abdul Kadir**, University Tun Hussein Onn Malaysia, Malaysia
- 10:00-10:30** Title: **Can a monopoly increase the welfare of its consumers?**  
**Doron Lavee**, Tel-Hai College, Israel

Networking & Refreshments Break 10:30-10:45 @ Foyer

Sessions: **Agricultural Waste Recycling | Circulatory Economy | E-waste Management | Metal and Plastic Recycling | Recycling Market | Thermal Waste Recovery**

Session Chair: **Muscolo Adele**, Mediterranea University, Italy

Session Co-chair: **Paola Marini**, Politecnico di Torino, Italy

### Session Introduction

- 10:45-11:10** Title: **Up-gradation of Matuail Solid Waste Disposal Site in Bangladesh to a Sanitary Landfill**  
**Md Abdul Jalil**, Bangladesh University of Engineering and Technology, Bangladesh
- 11:10-11:35** Title: **Comparison of composts obtained from olive pomace and vegetable residues as alternative to synthetic fertilizers**  
**Muscolo A**, Mediterranea University, Italy
- 11:35-12:00** Title: **Nitrogen flow on an organically managed beef farm in Hokkaido, Japan**  
**Masayuki Hojito**, Kitasato University, Japan
- 12:00-12:25** Title: **Recycling of valuable metal during supercritical water oxidation**  
**Youn-Woo Lee**, Seoul National University, South Korea
- 12:25-12:50** Title: **LMPE Srl, a recent reality in the implementation of circular economy in the industrial district of Capannori – Lucca (Italy)**  
**Lucía Pérez Amaro**, LMPE Srl, Italy

Lunch Break 12:50-13:35 @ Hotel Restaurant

### Poster Presentations 13:35-14:05 @ Foyer

- REC-01** Title: **Recyclability of polypropylene (PP) and polyethylene (PE) waste from the Hawaii coastline**  
**Diego Piazza**, University of Caxias do Sul, Brazil
- REC-02** Title: **Oil based mud and drill cuttings (OBM) treatment and management at KOC**  
**Kholood Yousef**, Kuwait Oil Company, Kuwait
- REC-03** Title: **Safe management strategies of nanowastes in South Korea**  
**Ji Hye Jo**, Korea Environment Institute, South Korea

- REC-04** **Title: Analysis of the recyclability of polypropylene (PP) and polyethylene (PE) waste disposed at coastal ecosystems**  
Diego Piazza, University of Caxias do Sul, Brazil
- REC-05** **Title: Degradation of PLA in a simulated marine environment after 600 days**  
Diego Piazza, University of Caxias do Sul, Brazil
- REC-06** **Title: Valorization of rice and wool waste in the bio-building sector**  
Marina Zoccola, Institute for Macromolecular Studies, Italy
- REC-07** **Title: Thermal treatment effect on silicone degradation under electrical stress**  
N Rouha, Université de Bejaia, Algeria
- REC-08** **Title: Influence of aqueous conditions for electrolytic recovery of rare earth elements (REEs) from REE mine wastewater**  
Sunjung Kim, University of Ulsan, Korea
- REC-09** **Title: Optimization of process for the production of glass-ceramic material recycled from steel industry slags and some waste**  
Woo-Gwang Jung, Kookmin University, Korea
- REC-10** **Title: Analysis of zero energy effect through food waste recycling in residential on-site composting facility**  
Kyounghee Lee, Domyoung E&C, Korea

Sessions: Agricultural Waste Recycling | Circulatory Economy | E-waste Management | Metal and Plastic Recycling | Recycling Market | Thermal Waste Recovery

Session Introduction

- 14:05-14:30** **Title: Thermal treatment of flexible amorphous silicon photovoltaic modules**  
Denise C R Espinosa, University of São Paulo, Brazil
- 14:30-14:55** **Title: Impact of heavy metal pollution on *Procambarus clarkii* (Crustacea: Decapoda) from Egypt**  
El Assal F M, Cairo University, Egypt
- 14:55-15:20** **Title: Glass-crystalline membrane materials for helium and hydrogen capture based on fly ash cenospheres – A new trend in the utilization of coal power plant waste**  
Alexandr G Anshits, Siberian Branch of Russian Academy of Sciences, Russia
- 15:20-15:45** **Title: The recovery of the waste of the secondary glass (waste<sup>3</sup>)**  
Paola Marini, Politecnico di Torino, Italy
- 15:45-16:10** **Title: Recovery of some merit organics from olive mill effluents and reuse of treated water**  
Nefise Erdincmer, Dokuz Eylul University, Turkey

Networking & Refreshments Break 16:10-16:25 @ Foyer

- 16:25-16:50** **Title: Brass scrap recycling: Experimental research decomposition of Cu-Zn alloy**  
Milorad Cirkovic, Mining and Metallurgy Institute Bor, Serbia
- 16:50-17:15** **Title: Thermal plasma extractive metallurgy: a proof of concept**  
Jonathan S Cramer, Fondation ParisTech, France
- 17:15-17:40** **Title: Investigation of biogas generation from the waste of a vegetable and cattle market of Bangladesh**  
Md Abdul Jalil, Bangladesh University of Engineering and Technology, Bangladesh
- 17:40-18:05** **Title: Transition and quality control of wastewater uses recycled in Algeria**  
Saliha Zerdoum, Environnement Développement Durable, Algeria
- 18:05-18:30** **Title: New approach for adsorptive removal of oil in wastewater using textile fiber as alternative adsorbent**  
M Sulyman, Gdansk University of Technology, Poland

Day 3 July 29, 2017

Networking & Lunch 12:30-13:30 @ Hotel Restaurant