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Scientific Program

286th OMICS International Conference

World Congress and Expo on

Recycling

July 20-22, 2015 Barcelona, Spain



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OMICS International Conferences
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Day 1 July 20, 2015

09:00-09:30 Registrations

EBRE

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09:30-09:55 **Opening Ceremony**

Keynote Forum

09:55-10:00 **Introduction**

10:00-10:25 **M A Martin-Luengo**
Spanish National Research Council (CSIC), Spain

10:25-10:50 **Paul T Mativenga**
The University of Manchester, United Kingdom

Coffee Break: 10:50-11:10 @ Colon + Hall-1

Track 1: Recycling Basics
Track 5: E- Waste Recycling and management

Session Chair: Jorge Castilla Gomez, Technical University of Madrid, Spain

Session Co-Chair: Arvind Jayant, Sant Longowal Institute of Engineering & Technology, India

Session Introduction

11:10-11:35 **Recoverable and recyclable catalysts for sustainable chemical processes**
Anna Chrobok, Silesian University of Technology, Poland

11:35-12:00 **Supercritical fluids based technologies for recycling**
Cyril Aymonier, Chemistry Institute of Condensed Matter of Bordeaux (ICMCB-CNRS), France

12:00-12:25 **Urban mining: The way to reach a real sustainability**
Jorge Castilla Gomez,Technical University of Madrid, Spain

Group Photo

Lunch Break: 12:25-13:10 @ Colon + Hall-1

13:10-13:35 **Gypsum to Gypsum (GtoG): The European life project that aims to transform the gypsum waste market**
Ana de Guzman Baez, University of Madrid, Spain

13:35-14:00 **Cost reduction for biodiesel production from distillery/domestic mixed wastewater by Rhodosporidium toruloide**
Hojae Shim, University of Macau, China

14:00-14:25 **Enhanced removal of BTEX/TCE/cis-DCE mixture using waste scrap tires immobilized with indigenous Pseudomonas sp.**
Renata Alves de Toledo, University of Macau, China

14:25-14:50 **Tar-containing reclaimed asphalt–environmental assessments for two treatment scenarios (incineration versus recycling)"**
Janez Turk, Slovenian National Building and Civil Engineering Institute, Slovenia

14:50-15:15 **Innovation in municipal waste collection systems**
Frederik De Pesseroey, Business Consultant for Waste Management, Belgium

15:15-15:40 **Selective leaching of rare earth elements from NdFeB powders via alkaline treatment and thermal oxidation**
Kyeong Woo Chung, Korea Institute of Geoscience and Mineral Resources, Korea

Cofee break: 15:40-16:00 @ Colon + Hall-1

16:00-16:25 **Evaluation of EOL/used cell phones management & disposal alternatives: An ANP and balanced scorecard approach**
Arvind Jayant, Sant Longowal Institute of Engineering & Technology, India

16:25-16:50 **Occupational exposure to E-Waste and risk of cancer development: Evidence from south-South Nigeria**
Igharo O G, University of Ibadan, Nigeria

16:50-17:15 **Assessment of ecological impact of blast oxygen furnace slag used as a fill material on the surrounding environments**

Kyoungphile Nam, Seoul National University, South Korea

17:15-17:20 **Panel Discussion**

Day 2 July 21, 2015

09:00-09:30 **Registrations**

EBRE

Keynote Forum

09:00:09:25 **Jonathan W C Wong**
Hong Kong Baptist University, China

09:25-09:50 **Takashi Nakamura**
Tohoku University, Japan

Track 7:Metal waste and plastic recycling
Track 8:Industrial waste recycling
Track 11:Food waste recycling
Track 13:Recycling of Glass, Paper, Wood, Textile and Building materials

Session Chair: Jonathan W C Wong, Hong Kong Baptist University, China

Session Co-Chair: Takashi Nakamura, Tohoku University, Japan

Session Introduction

09:50-10:15 **Material flow analysis and recycling system of mercury-containing fluorescent lamps in Korea**

Yong-Chul Jang, Chungnam National University, South Korea

10:15-10:40 **Production of bio-diesel from used groundnut oil from bosso market, Minna, Niger state, Nigeria**

Alabadan B A, Federal University, Nigeria

10:40-11:05 **Cellulose aerogels from paper waste for oil spill cleaning and heat insulation of buildings**

Hai M Duong, National University of Singapore, Singapore

Coffee Break: 11:05-11:25 @ Colon + Hall-1

11:25-11:50 **E-BABE-Recycling leather wastes in carton industry**

Ola A Mohamed, National Research Centre, Egypt

11:50-12:15 **Potential valorizations of artificial gypsum generated in the manufacture of titanium dioxide pigments**

S M Perez-Moreno, University of Huelva, Spain

12:15-12:40 **Post cracking behaviour of polymer concrete prepared using resin obtained from post consumer pet bottles**

Roy Nir Lieberman, Consejo Superior de Investigaciones Científicas (CSIC), Barcelona, Spain

12:40-13:05 **Evaluation of the ppm-h concept for end-of-life RO membrane into recycled NF and UF membranes**

Raquel Garcia Pacheco, IMDEA Water Institute, Spain

Panel Discussion

Lunch Break: 13:05-13:50 @ Colon + Hall-1

14:25-15:25 **Poster presentations**

Day 3 July 22, 2015

09:00-09:30 **Registrations**

Track 6: Waste water recycling
Track 9: Environmental impact of Recycling
Track 10: Agriculture waste recycling

Session Chair: M A Martin-Luengo, Spanish National Research Council (CSIC), Spain

Session Co-Chair: Muscolo Adele, Mediterranea University, Italy

09:30-09:55 **Integral utilization of lignocellulosic materials; residues of the agriculture and agri-food industry**

Alejandro Rodríguez Pascual, Chemical Engineering Department, University of Córdoba, Córdoba, Spain

09:55-10:20	**Using agriculture waste and/or sulfur obtained from the residues of the desulfurization of natural gas and oil as fertilizer for productive purposes** **Muscolo Adele,** Mediterranea University, Italy
10:20-10:45	**Comparative study of enzymatic and chemical denaturation of wheat gluten and their cellulosic nanocomposites** **Nahla A El-Wakil,** National Research Centre, Egypt

Coffee Break: 10:45-11:05 @ Colon + Hall-1

11:05-11:30	**Onion waste recycling to produce the value added by-products** **Hyeun-Jong Bae,** Chonnam National University, South Korea
11:30-11:55	**Sustainable water reuse. The case of rural areas and small settlements** **Isabel Martín,** Foundation Center for New Water Technologies (CENTA), Spain
11:55-12:20	**Novel functional materials created by mimicking Fe oxidizing bacterium-involved formation processes of iron oxides complex** Hitoshi Kunoh, Okayama University, Japan
12:20-12:45	**Recycling wastewater yields multiple benefits** **Birguy Lamizana-Diallo,** UNEP-GPA, Kenya

Lunch Break: 12:45-13:30 @ Colon + Hall-1

Poster presentations

Melt decontamination for recycle and reuse of radioactively contaminated decommissioning metal waste

Byung Youn Min, Korea Atomic Energy Research Institute, South Korea

Upcycle of municipal waste as high performing components for elderly housing: A new strategy for building in ageing society

Fabrizio Cumo, University of Rome, Italy

Recovery of valuable metals from waste printed circuit boards

Joonchul Choi, ER Metal Co. Ltd., Korea

Model of environmentally sustainable benchmarking

María Carmen CarneroMoya, University of Castilla-La Mancha, Spain

Best practice in environmental maintenance

María Carmen CarneroMoya, University of Castilla-La Mancha, Spain

Recyclable ionic liquids as catalysts for fine chemical production

Karolina Matuszek, Silesian University of Technology, Poland

Extraction of rhenium from PWA 1484 superalloy scrap using electrogenerated chlorine leaching in acid solutions

Min Seuk Kim, Korea Institute of Geoscience and Mineral Resources, Korea

Experimental study on reusing ornamental rock waste for the production of structural concrete

Romeu E Silva Neto, Fluminense Federal Institute, Brazil

Chromium VI analysis method and heavy metal concentration of Portland cement in South Korea

Tae-Wan Jeon, National Institute of Environmental Research, Republic of Korea

CRT Tile – Utilization of waste glass from cathode ray tubes

Otto Andersen, Western Norway Research Institute, Norway

Recovery of indium from waste liquid crystal display (LCD) panels

Kyung-Soo Park, Institute for Advanced Engineering, Korea

Title:Organizing the disposal of electronic waste in Ukraine

Salomatina Lilia, National Academy of Sciences of Ukraine, Ukraine

Closing Ceremony

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