

2<sup>nd</sup> World Congress and Expo on

# Recycling

July 25-27, 2016 Berlin, Germany

## Scientific Program



**Hosting Organizations: Conference Series LLC**

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## Experience I+ II

conference**series.com** 08:45-09:10

## Opening Ceremony

## Keynote Forum

- 09:10-09:20 **Introduction**
- 09:20-09:50 **Title: Carbon-enhanced manufacturing supporting recycling of CO<sub>2</sub>**  
Dominik Rohmus, Siemens AG, Germany
- 09:50-10:20 **Title: RAC-PP- Recycled aggregates for concrete: Progress and Problems**  
Enric Vazquez Ramonich, Universitat Politecnica de Catalunya, Spain
- 10:20-10:50 **Title: Recycling of wastes in traditional ceramic manufacturing**  
F Andreola, University of Modena and Reggio Emilia, Italy

Networking &amp; Refreshments 10:50-11:05 @ Main Lobby

- 11:05-11:35 **Title: Case studies of recycled materials in pavements and footpaths**  
Arul Arulrajah, Swinburne University of Technology, Australia

## Presentation on PROMETIA @ 11:35-11:50

## Session 1: Industrial Waste Recycling | Waste Management Techniques | E-Waste Recycling and Management

Session Chair: Nour-Eddine Menad, BRGM, France

Session Co-Chair: Enric Vazquez Ramonich, Universitat Politecnica de Catalunya, Spain

## Session Introduction

- 11:50-12:10 **Title: WEEE-ReStraM - Recycling of strategic metals from wastes of electric and electronic equipments**  
Nour-Eddine Menad, BRGM, France
- 12:10-12:30 **Title: Nanofiltration for removing toxicity of industrial waste waters**  
Sébastien Déon, Université de Bourgogne Franche-Comté, France
- 12:30-12:50 **Title: Obtaining of selective porous materials from recycling of industrial waste coal fly ash for applications in environmental protection**  
E David, National Institute for Cryogenic and Isotopic Technologies, Romania
- 12:50-13:10 **Title: A nearly closed environmental friendly process for recovering metals with high yield and purity from spent hydrodesulphurization catalysts**  
Helena Maria Vieira Monteiro Soares, University of Porto, Portugal

## Group Photo

Lunch Break 13:10-13:50 @ Element I+II Restaurant

- 13:50-14:10 **Title: Utilization of recycled polyurethane foam and ground tire rubber for asphalt modifications: Basic and rheological properties**  
M Sulyman, Gdansk University of Technology, Poland
- 14:10-14:30 **Title: A study on the MSWI fly ash modifying for inorganic gel of cement admixtures**  
Sue-Huai Gau, Tamkang University, Taiwan
- 14:30-14:50 **Title: Recycling of municipal incinerator fly ash by electric arc furnaces of steel mini mills**  
Gordon C C Yang, National Sun Yat-Sen University, Taiwan
- 14:50-15:10 **Title: Re-use of polypropylene fiber admixed recycled aggregates in concrete**  
Ilker Bekir Topcu, Eskisehir Osmangazi University, Turkey
- 15:10-15:30 **Title: Recovery of zinc from EAF dust by hydrometallurgical route with sulphuric acid as leachant**  
Kamalesh K Singh, Banaras Hindu University, India

Networking &amp; Refreshments 15:30-15:45 @ Main Lobby

- 15:45-16:05 **Title: Coal ash as an efficient chemical fixation reagent and scrubber for toxic chemical wastes and its incorporation in industrial concrete for civil engineering projects**  
Haim Cohen, University of Ariel, Israel
- 16:05-16:25 **Title: Abrasion and water absorption properties of polypropylene fibre-reinforced recycle aggregated concrete**  
Hasan Baylavli, Hitit University, Turkey

- 16:25-16:45** Title: **Recycling approaches of waste cathode ray-tube in China**  
Fu-Shen Zhang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China
- 16:45-17:05** Title: **Evaluation of lipid productivity by *Rhodospiridium toruloides* under non-sterile condition from a mixture of distillery and domestic wastewaters**  
Hojae Shim, University of Macau, China
- 17:05-17:25** Title: **Life cycle assessment of the pyrometallurgical and hydrometallurgical recycling routes used in rare earth recycling: A case study of NdFeB magnets**  
Gwendolyn Bailey, KU Leuven, Belgium
- 17:25-17:45** Title: **Selecting water balance covers as landfill final covers**  
Preecha Apiwantragoon, Chulachomklao Royal Military Academy, Thailand

### Panel Discussion

Day 2 July 26, 2016

## Experience I+ II

### Keynote Forum

- 09:00-09:30** Title: **Recycle nutrients today for a better tomorrow**  
Sirpa Kurppa, Natural Resources Institute Finland, Finland
- 09:30-10:00** Title: **Food waste collection and recycling for renewable biogas fuel production in Hong Kong**  
Irene M C LO, The Hong Kong University of Science and Technology, China
- 10:00-10:30** Title: **From waste CRT glasses to foam glass: A case study to re-use electric and electronic end of life materials**  
François O Méar, Lille North of France University, France

Networking & Refreshments 10:30-10:45 @ Main Lobby

- 10:45-11:05** Title: **Recycling of carbon fibre: Re-use and Re-manufacture**  
Gary Leeke, Cranfield University, UK

### Special Session on: Recycling system and technologies towards circulatory economy

Session Chair: Takashi Nakamura, Tohoku University, Japan

Session Introduction

- 11:05-11:30** Title: **Recycling of critical metals for circulatory economy in Japan**  
Takashi Nakamura, Tohoku University, Japan
- 11:30-11:55** Title: **Novel metal recycling process by applying intelligent comminution and sorting**  
Shuji Owada, Waseda University, Japan
- 11:55-12:20** Title: **Physical concentration of tantalum from WEEEs**  
Chiharu Tokoro, Waseda University, Japan
- 12:20-12:45** Title: **Overall optimizing of automobile recycling system in Japan**  
Kotaro Shimizu, Mitsubishi UFJ Research and Consulting Co., Ltd., Japan

### Session 2: Recycling Basics | Solid Waste Management | Waste Water Recycling | Agricultural Waste Recycling

Session Chair: Hesham Ali, Florida International University, USA

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

Session Introduction

- 12:45-13:05** Title: **Bioelectrochemical systems for treatment of liquid effluents**  
Antonio Moran, University of Leon, Spain
- 13:05-13:25** Title: **Recalcitrant agriculture waste to produce biogas and amendments**  
Muscolo A, Mediterranea University, Italy
- 13:25-13:45** Title: **Evaluation of cracking resistance and durability of 100% reclaimed asphalt pavement mixtures**  
Hesham Ali, Florida International University, USA

Lunch Break 13:45-14:25 @ Element I+II Restaurant

- 14:25-14:45** Title: **Enhanced bio-sulfur recovery with high carbon to nitrogen ratios under micro-aerobic condition using denitrifying sulfide removal process**  
Chuan Chen, Harbin Institute of Technology, China
- 14:45-15:05** Title: **Pretreatments of lignocellulosic wastes for producing value added products**  
Jin Hyung Lee, Korea Institute of Ceramic Engineering and Technology, South Korea
- 15:05-15:25** Title: **Use of the SWB-Sci model for nitrogen management in sludge-amended land**  
Eyob Habte Tesfamariam, University of Pretoria, Republic of South Africa
- 15:25-15:45** Title: **Thermochemical recycling of municipal solid waste**  
Juma Haydary, Slovak University of Technology, Slovakia

## Networking & Refreshments+ Poster Presentations @ 15:45-16:20

- REC 01 **Title: Recycling of carbon fines from Tuncbilek power plant coal combustion wastes**  
H Koca, Anadolu University, Turkey
- REC 02 **Title: The role of labeling of chemical substances contents in recycling promotion - Japanese case**  
Mizue Kama, Tohoku University, Japan
- REC 03 **Title: Recovery of tungsten and vanadium from a spent NH<sub>3</sub>-SCR catalyst by NaOH leaching and ion exchange processes**  
Chi-Lang Chen, China Steel Corporation, Taiwan
- REC 04 **Title: Evaluation of low heating value and moisture of solid refuse fuels in Korea**  
Sohee Park, Korea Environment Corporation, Korea
- REC 05 **Title: From the MSW management to the Environmental awareness and from the Organic Fraction (OFMSW) to the Compost quality**  
Guillermo Solar Olivares, Universitat de Barcelona, Spain
- REC 06 **Title: Co-pyrolysis of lignite and pistachio seed in a well-swept fixed bed reactor**  
O Onay, Anadolu University, Turkey
- REC 07 **Title: WEEE and recycling processes for the recovery of critical raw materials: A perspective on Germany**  
Nicolas Sarmiento Sierra, Rhein Waal University of Applied Science, Germany
- REC 08 **Title: Composite material; use and appreciation of pine bark waste from sawmills and recycled plastic from the region Northern Sierra at Oaxaca, Mexico**  
Nubia Luna Rueda, National Autonomous University of Mexico, Mexico
- REC 09 **Title: Study of the mechanical behavior of synthesized elastomers from depolymerization of polyurethane foams wastes**  
Cristina Agurrie, National Polytechnic School, Ecuador
- REC 10 **Title: X-ray spectroscopic study and chemical fractionation of Pb(II) compounds in soil under contamination conditions**  
Victoria Tsitsuashvili, Southern Federal University, Rostov-on-Don, Russia
- REC 11 **Title: The statistical status Quo of Beijing's recyclable resources and countermeasures for establishing statistical system**  
Tinting Liu, Beijing University of Technology, China
- REC 12 **Title: Application of zero food waste system to residential complex**  
Daeseung Kyung, Korea Land & Housing Corporation, South Korea
- 16:20-16:40 **Title: Innovative zero liquid discharge based effluent treatment system for API industry clusters in India.**  
Gopu Venugopala Reddy, Team Labs and Consultants, India
- 16:40-17:00 **Title: Electroflotation process for the wastewater recycling**  
Ben Mansour, University of Sfax, Tunisia
- 17:00-17:20 **Title: Use of greywater in production of mortar and concrete**  
Ayoup M Ghrair, Royal Scientific Society, Jordan
- 17:20-17:40 **Title: On the valorization of agro resource of Tizi Ouzou: Extraction for pectin from melon rinds and their application**  
Benahmed Djilali Adiba, University of Mouloud Mammeri of Tizi Ouzou, Algeria

## Panel Discussion

Day 3

July 27, 2016

## Experience I+ II

## Keynote Forum

- 09:00-09:30 **Title: Smart cities and waste innovation**  
Graeme Evans, Middlesex University School of Art & Design, UK
- 09:30-10:00 **Title: Thermal waste recovery and heat energy transportation over long distance**  
Lingai Luo, French National Center for Scientific Research, France
- 10:00-10:30 **Title: How are wastes entirely avoided in solid-state productions?**  
Gerd Kaupp, University of Oldenburg, Germany

## Session 3: Food Waste Recycling | Metal and Plastic Waste Recycling | Rubber Recycling | Textile Recycling

Session Chair: Andreas Krause, University Hamburg, Germany

Session Co-Chair: Lingai Luo, French National Center for Scientific Research, France

Session Introduction

- 10:30-10:50 **Title: Performance of virgin and recycled natural fibers for technical nonwoven applications**  
 Patricia I Dolez, Groupe CTT, Canada
- 10:50-11:10 **Title: Extending the life cycle – novel wood-plastic composites as potential applications for post-consumer wood and plastics**  
 Andreas Krause, University Hamburg, Germany

**Networking & Refreshments 11:10-11:25 @ Main Lobby**

- 11:25-11:45 **Title: Ionic liquids as effective carriers of precious metal ions in membrane processes from leach liquors of metal waste**  
 Beata Pospiech, Czestochowa University of Technology, Poland
- 11:45-12:05 **Title: Recycling of steelmaking dusts through dissolution and electrowinning in deep eutectic solvents**  
 Ashraf Bakkar, Institut für Materialprüfung und Werkstofftechnik Dr. Neubert GmbH, Germany
- 12:05-12:25 **Title: Nano-Copper recycled from waste printed circuit boards by electrolysis**  
 Mengjun Chen, Southwest University of Science and Technology, Sichuan
- 12:25-12:45 **Title: Effects of hydraulic retention time, sewage temperature and effluent recycling on efficiency of up-flow anaerobic filter reactor in treating rural domestic sewage**  
 John Leju Celestino Ladu, Southeast University, China
- 12:45-13:05 **Title: MSP-REFRAM - improving the valorization of the refractory metal resources in Europe**  
 Stephane Bourg, CEA/DEN/MAR/DRCP, France
- 13:05-13:25 **Title: Development of zero food waste system**  
 Daeseung Kyung, Korea Land & Housing Corporation, South Korea

**Lunch Break 13:25-14:05 @ Element I+II Restaurant**

**Young Researchers Forum**

- 14:05-14:20 **Title: The recycling of air pollution control residue into geopolymers via plasma arc technology**  
 Peter Keeley, University of Birmingham, UK
- 14:20-14:35 **Title: Identifying the gap in fluorocarbons treatment from waste electrical and electronic equipment (WEEE) in Southeast Asia**  
 Atsushi Santo, Institute for Global Environmental Strategies, Japan
- 14:35-14:50 **Title: Preparation of hydrophobic nonwoven using recycled jute fibre and a titanium dioxide/fatty acid coating**  
 Mohamed Ameer Arfaoui, CTT Group, Canada
- 14:50-15:05 **Title: Recycling of copper and aluminium with high purity from end life printed circuit boards**  
 Isabel F F Neto, Universidade do Porto, Portugal
- 15:05-15:20 **Title: Zn recovery from spent alkaline batteries using an environmental friendly approach**  
 S Maryam Sadeghi, Universidade do Porto, Portugal
- 15:20-15:35 **Title: New method for extraction of benzo[a]pyrene from industrial polluted soil**  
 Alina Gimp, Southern Federal University, Russia
- 15:35-15:50 **Title: Closing the life cycle of waste fiber reinforced polymer composites by converting it into valuable products**  
 Huya Ucar Sokoli, Aalborg University Esbjerg, Denmark
- 15:50-16:05 **Title: Performance assessment of a biogas powered gas engine in a wastewater treatment plant**  
 Atakan Tantekin, Adana Science and Technology University, Turkey
- 16:05-16:20 **Title: The deficiency of solid waste management in Kawempe vicinity**  
 Aijuka Nicholas, Makerere University Kampala, Uganda

**Panel Discussion & Certificate Distribution**

**Award Ceremony**

**Bookmark your dates**

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

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July 3-5, 2017 Barcelona, Spain

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