



# ISWA 2018 World Congress

Kuala Lumpur, Malaysia



22-24 October | Kuala Lumpur Convention Centre

## PROGRAMME DETAILS



# Detailed Programme

## 0730 - 0830

Main Congress Registration  
Centre Core, Level 3

## 0830 - 0910

Opening Ceremony  
Plenary Hall, Level 1

## 0910 - 1000

Panel Discussion: Issues & Challenges of  
Waste Management  
Plenary Hall, Level 1

Moderator: Christof Delatter

Panelist:

YB Zuraida Kamaruddin  
Minister of Housing and Local  
Government, Malaysia

YB Yeo Bee Yin

Minister of Energy, Science, Technology,  
Environment and Climate Change,  
Malaysia

Antonis Mavropoulos  
International Solid Waste Association  
(ISWA)

Ho De Leong, Chairman, Waste  
Management Association of Malaysia

Agamuthu Pariatamby  
University of Malaya, Malaysia

Maria Tsakona  
Women Of Waste (WOW)

Andrea Winterstetter  
ISWA Young Professional Group (YPG)

Gary Crawford  
Climate and Clean Air Coalition (CCAC)

Philip Heylen  
ISVAG

Kakuko Yoshida  
UN Environment Programme (UNEP)

## 1000 - 1030

Networking Tea Break & E-Poster Viewing  
Session  
Foyer Area @ Conference Hall,  
Level 3

## Plenary Session 1

Plenary Hall, Level 1

Moderator : Agamuthu Pariatamby  
University of Malaya, Malaysia

Artificial Intelligence & the Waste  
Management Industry: New Solutions  
and New Challenges  
Speaker: Antonis Mavropoulos,  
(ISWA), Greece

Getting the Right Level of Attention from  
Decision-Makers  
Speaker: Arne M Ragossnig,  
(ISWA), Austria

Sustainable Waste Management  
Challenges in Asia  
Speaker: Agamuthu Pariatamby,  
University of Malaya, Malaysia

Xiao Jiabao  
President of China Association of Urban  
Environmental Sanitation

## 1130 - 1300

### Concurrent Session 1

#### **Sustainable Consumption and Waste Management in Developing Countries**

Conference Hall 3, Level 3

Moderators: David Ross, SCS Engineers, United States of America  
Alethia Vazquez Morillas, Universidad Autónoma Metropolitana, Mexico

Wasted Food in Mexico City  
Presenter: Alethia Vazquez Morillas, Universidad Autónoma Metropolitana, Mexico

Optimizing a Slow Pyrolysis Reactor for Urban Biowaste in Tanzania – Potential and Challenges  
Presenter: Imanol Zabaleta, EAWAG, Switzerland

Benchmarking Municipal Solid Waste Management of Emerging Economies of Africa  
Presenter: Kwaku Oduro-Appiah, University of Cape Coast, Ghana

Utilization of Waste Management Services in Ghana: A Nationwide Survey  
Presenter: Kofi Sekyere Boateng, Zoomlion Ghana Limited, Ghana

Simplified Model for Integrated Solid Waste Management Plans in Mozambique  
Presenter: Simao Dias, PRODEM, Mozambique

Water Metabolism of Organic and Conventional Vegetable Farm Derived from Material and Substance Flow Analysis – Assessment of Runo Water Recycling  
Presenter: Hong Yeng Leong, Universiti Teknologi Malaysia, Malaysia

Reverse Logistics of Electrical and Electronic Appliances Products – Learning with Pilot Projects in Brazil  
Presenter: Vanderlei Niehues, Abree, Brazil

#### **Energy Recovery and Biological Waste**

Meeting Room 302+303, Level 3

Moderators: Marco Ricci-Jurgensen, CIC – Italian Composting and Biogas Association, Italy  
Johnny Stuen, Waste-to-Energy Agency, City of Oslo, Norway

How Source Sorting Can Act as a Catalyst for Zero Emission Transport in Oslo  
Presenter: Johnny Stuen, Waste-to-Energy Agency, City of Oslo, Norway

Refuse Derived Fuel Production and Utilization in Developing Countries in Asian Region  
Presenter: Rieko Kubota, National Institute for Environmental Studies, Japan

Energy Recovery Maximized – Utilizing MSW, Separately Collected Biowaste and Gas Collection from Closed Landfills in Renewable Energy Production  
Presenter: Aino Kainulainen, Helsinki Region Environmental Services Authority HSY, Finland

Delivery of the New Kuala Lumpur 1,000 Tonne Per Day Waste To Energy (WTE) Facility.  
Presenter: Rashdan Baharum, Hexagon Synergy (M) Sdn Bhd, Malaysia

Analysis on Electricity Generation and Critical Process Design for China's Waste to Energy Plants  
Presenter: Ruofei Wang, Shanghai SUS Environment Co. Ltd., China

Hong Kong's First Organic Resources Recovery Center Starts Operation, to be Followed at Minimum by a Second  
Presenter: Laurent Bickert, SUEZ, France

## **Technological Innovation in Solid Waste Management**

Meeting Room 304, Level 3

Moderators: Alberto Bezama, Helmholtz-Centre for Environmental Research UFZ, German  
Jonathan Wong, Hong Kong Baptist University, Hong Kong

The Development of a National Bioeconomy Strategy: A Case-Study of Scotland  
Presenter: Ramy Salemdieb, Ricardo Energy & Environment, United Kingdom

Intelligent Operation Management of Energy-from-Waste Plant  
Presenter: Eric Tiao, Ecove Environment Services Corporation, Taiwan

Comparison of Advanced Technologies for Treating Landfill Leachate  
Presenter: Simon Goetz, WEHRLE Umwelt GmbH, Germany

Chinese Medicine Herbal Residue as a Co-Substrate for Food Waste Composting for Production of Biopesticide Compost  
Presenter: Jonathan Wong, Hong Kong Baptist University, Hong Kong

Reduction and Valorisation of Indian Municipal Solid Waste Using Black Soldier Fly Larval Treatment Technology  
Presenter: Debasree Purkayastha, Indian Institute of Technology Roorkee, India



TEX2MAT – A Novel Approach Towards  
A Circular Economy in the Textile Sector  
with the Help of Bio Catalysts

Presenter: Benjamin

Piribauer-Wegscheider, Technische  
Universität Wien, Austria

Quarry Landfill Permitting

Case Study – Potential Application to  
Productively Use Former Quarry Sites  
and Avoid Development of Landfills on  
Greenfield Sites

Presenter: Robert Dick, SCS Engineers,  
United States of America

## **Circular Economy**

Meeting Room 305, Level 3

Moderators: Joachim Quoden, Extended  
Producer Responsibility Alliance –  
EXPRA, Germany

Jane Gilbert, Carbon Clarity, United  
Kingdom

Circular Economy for Organics

Presenter: Jane Gilbert, Carbon Clarity,  
United Kingdom

Circular Economy in the Building Sector  
– Regional Implications for Resource  
Management in Vienna, Austria

Presenter: Fritz Kleemann, Technische  
Universität Wien, Austria

The Rotterdam Way of Developing a  
Roadmap Towards a Circular Economy

Presenter: Daan Van Den Elzen, City of  
Rotterdam, Netherlands

The Program Rotterdam Circular: First  
Concrete Results After Two Years

Presenter: Jan Fischer, City of Rotterdam,  
Netherlands

Waste and Climate Effect: From a Linear to  
a Circular Approach

Presenter: Luk Umans, OVAM, Belgium

Effective Reuse Policies and  
Infrastructures – Experiences from 32  
EU Waste Prevention Programmes

Presenter: Henning Wilts, Wuppertal  
Institute for Climate Environment Energy,  
Germany

Minimizing Residual Waste, the Dutch  
Approach towards Zero Waste

Presenter: Maarten Goorhuis, NVRD,  
Netherlands

## **Climate Change and Landfills**

Meeting Room 306, Level 3

Moderators: H. James Law, SCS  
Engineers, United States Of America  
Gary Crawford, Veolia, France

Waste Landfills Including Plastics Store  
Rainwater, Releasing it Slowly

Presenter: Atsushi Yamawaki, Japan  
Industrial Waste Management  
Foundation, Japan

Green and Sustainable Power from Bukit  
Tagar Sanitary Landfill –

Case of the Largest Climate Change  
Waste Mitigation Project in Malaysia

Presenter: Peter Wong, KUB-Berjaya  
Enviro Sdn. Bhd Malaysia

Flooding Risks at Old Landfill Sites. Linear  
Economy Meets Climate Change

Presenter: Eddy P. H. Wille, OVAM,  
Belgium

Characterisation of Industrial Wastes for  
Their Valorisation as Additives in Clays for  
High-Attenuation Containment Barriers

Presenter: Mercedes Regadío, University  
of Sheeld, United Kingdom

Monitoring Methane Emissions from Landfills and Dumping Sites from Space  
Presenter: Jean-Francois Gauthier, GHGSAT, Canada

Analysis of GHG Emission from Dumpsites Using Thermal Infrared Remote Sensing  
Presenter: Charbel Abou Khalil, Notre Dame University - Lebanon, Lebanon

From Dumpsite to "Site" Seeing- Converting a Dumpsite into a Liveable Place  
Presenter: Telmo Machado, LIPOR, Portugal

### **Mayors and Municipalities (IMM)**

Meeting Room 307 - 309, Level 3

ISWA's initiative for Mayors and Municipalities, is a platform for disseminating know-how and best practices in waste to decision makers" to promote and develop sustainable waste management worldwide, to create a cleaner-healthier planet.

### **1130 - 1330**

#### **Plenary Session: Bankability**

Plenary Hall, Level 1

Moderator: Bjorn Appelqvist, Ramboll, Denmark

Introduction to the Session:  
Presenter: Björn Appelqvist, Ramboll, Denmark (Chair of the ISWA Working Group on Recycling and Waste Minimisation)

World Bank Perspective on Investments in the Waste Management Sector  
Presenter: James Monday, World Bank, United States of America

Waste Management and Public Health  
Presenter: Anne Woolridge, Independent Safety Services Ltd, United Kingdom (Chair of the ISWA Working Group on Healthcare Waste)

What Goods Do Good Waste Management Bring?  
Presenter: Antonis Mavropoulos, International Solid Waste Association (ISWA), Greece

What Does It Take to Make the Waste Management Sector Attractive for Investors?  
Presenter: Rob Kaplan, Circulate Capital

### **1300 - 1400**

#### **Lunch & E-Poster Viewing Session**

Grand Ballroom, Level 3

### **1400 - 1600**

#### **Concurrent Session 2**

### **Sustainable Consumption And Waste Management In Developing Countries**

Plenary Hall, Level 1

Moderator: Amiya Kumar Sahu, National Solid Waste Association of India, India

Present Prime Minister's Movement is Clean India Mission  
Presenter: Amiya Kumar Sahu, National Solid Waste Association of India, India

Influence of Biowaste Nutrient Characteristics and Microbiology on Black Soldier Fly Larvae Processing Performance  
Presenter: Moritz Gold, EAWAG, Switzerland

Holistic Model of Remediation for Dumpsites  
Presenter: Lucia Susana Barcia, Impactos Ambientales, Argentina

Emission Reduction in Cities (ERIC): Solid Waste Management Programme of the Ministry of Public Works and Housing (MOPWH) of the Republic of Indonesia  
Presenter: Udo Lange, AHT Group AG Management & Engineering, Germany

Sustainability Assessment of Waste Management System for Mexico City (Mexico) – Based on Analytic Hierarchy Process  
Presenter: Nina Tsydenova, University of Oldenburg, Germany

JICA's Efforts to Collect Data on Solid Waste Management through African Clean Cities Platform  
Presenter: Eiko Kojima, Environmental Management Group, Global Environment, Japan

Backcasting Sustainable Strategies in the Sector of Municipal Solid Waste Management  
Presenter: Bhupendra Kumar Sharma, Indian Institute of Technology Bombay, India

Toward Circularity of Post-Consumer Flexible Packaging in Asia – Exploring Collection and Recycling Solutions  
Presenter: Ashwin Subramaniam, Gone Adventurin Pte. Ltd., Singapore

Big is Dead, Small is Beautiful!  
Presenter: Heike Carl Zatterstrom, Boson Energy, Luxembourg

## **New Plastics Economy Session**

Conference Hall 3, Level 3

Moderator: Kakuko Nagatani-Yoshida, UN Environment, Thailand

Panelists: Louis Lindenberg, Unilever, Netherlands  
Belinda Ford, The Coca-Cola Company, ASEAN  
Gary Crawford, VEOLIA, France  
Rob Kaplan, Circulate Capital  
Costas Velis, University of Leeds, United Kingdom

## **Energy Recovery and Biological Waste**

Meeting Room 302 + 303, Level 3

Moderator: Jorgen Haukohl, Ramboll, Denmark

Study on Ultra-Low Air Pollutants Emission Technology in Waste to Energy Plants  
Presenter: Yunfeng Lao, Shanghai SUS Environment Co. Ltd., China

Thailand – “Chonburi Clean Energy”, First Energy-from-Waste Merchant Plant, to Address Waste & Energy Issues  
Presenter: Jerome Le Borgne, Suez, France

Recycling of Municipal Incineration Ash by Melting Technology in Japan  
Presenter: Hiroyuki Ono, Dowa Eco System Co. Ltd., Japan

Assessing Leaching Potential from Asphalt Pavement Amended with WTE Bottom Ash  
Presenter: Chad Spreadbury, University of Florida, United States of America

A New Waste to Energy Plant in Antwerp as a Catalyst in the Transformation towards a Sustainable, Carbon Neutral, Smart City  
Presenter: Philip Heylen, ISVAG, Belgium

## **Closing Dumpsites and Marine Litter**

Meeting Room 304, Level 3

Moderator: Luis Marinheiro, International Solid Waste Association (ISWA), Portugal  
Fangmei Zhang, SCS Engineers, United States of America

Technical Challenges of Closing Old Dumpsites for Redevelopment – a Case Study

Presenter: Fangmei Zhang, SCS Engineers, United States of America

Closing Dumpsites – The Liquid Path Life Cycle Solutions for the Treatment of Waste Derived Effluents

Presenter: Frank Natau, WEHRLE Umwelt GmbH, Germany

Belgrade – Private Sector Participation for Converting Vinca Dumpsite into an Integrated Waste Management Facility  
Presenter: Virginie Thevenet, Suez, France

Biodeterioration of UV-Irradiated Polypropylene (PP) Microplastics Using *Bacillus Aquimaris*  
Presenter: Helen Shnada Auta, University of Malaya, Malaysia

San Cristobal Open Dump Conversion to an Engineered Landfill a Case Study  
Presenter: Jose Luis Davila, SCS Engineers, United States of America

Disruptive and Innovative Concept of Waste to Energy System for Transforming Plastic Marine Litter into Electricity  
Presenter: Ilaria Schiavi, IRIS S.r., Italy

Reducing Marine Litter through the Application of the “Polluter Pays” Principle for the Collection of Waste from the Maritime Sector  
Presenter: Jan Verheyen, Flemish Waste Agency OVAM, Belgium

Influence of Existing Waste Management Initiatives on Marine Litter in Trivandrum Beaches  
Presenter: Anju Varghese, CEPT University, India



## **YPG Session**

Meeting Room 305, Level 3

Presentation of Key Results of the  
#whathappentomywaste Worldwide  
Campaign

Workshop: Brainstorming Ideas &  
Concepts on How To Build on This  
Campaign

## **Collection, Transportation and Recycling**

Meeting Room 306, Level 3

Moderators: Bernd Leowald,  
Stadtreinigung Hamburg, Germany  
Björn Appelqvist, Ramboll, Denmark

Changes of Biological Properties  
in Outdoor Vertical-Flow Windrow  
Vermicomposting  
Presenter: Ales Hanc, Czech University of  
Life Sciences Prague, Czech Republic

Analysis of the Loop Flow Method in  
Automatic Sorting Systems for Packaging  
Sorting Lines  
Presenter: Tiago Faria, EFACEC, Portugal

Incorporating Life-Cycle Thinking in Solid  
Waste Public Policy  
Presenter: Malak Anshassi, University of  
Florida, United States of America

Waste and Recycling in the United States:  
Trends, Challenges and Predictions  
Presenter: David Biderman, Solid Waste  
Association of North America, United  
States of America

Legal and Policy Challenges for E-Waste  
Management in the U.S.

Presenter: Adrian Brown, Enviroscope  
Engineering, LLC, United States of  
America

Smarter and Noiseless Waste Collection  
in the City of Copenhagen  
Presenter: Bjorn Appelqvist, Ramboll,  
Denmark

Criticality Review on Cobalt, Niobium,  
Tungsten and Rare Earth Elements  
Presenter: Andreas Bartl, Technische  
Universität Wien, Austria

Development of the Recycling Sector in  
the Economical Isolated Environment of  
Myanmar  
Presenter: Friedor Jeske, Cesvi, Myanmar

Factors Related to Waste Disposal  
Behavior of Residents Near Canals  
Presenter: Ryo Tajima, National Institute  
for Environmental Studies, Japan

Dynamic Waste Collection  
Presenter: Bas Assink, Twente Milieu NV,  
Netherlands



**1600 - 1630**

**Networking Tea Break & E-Poster  
Viewing Session**

Foyer Area @ Conference Hall, Level 3

**1630 - 1800**

**Plenary Session 2  
Plenary Hall, Level 1**

Moderator: Antonis Mavropoulos,  
International Solid Waste Association  
(ISWA), Greece  
Datuk Roger Tan Kor Mee, Waste  
Management Association of Malaysia  
(WMAM), Malaysia

Special Remarks by Secretary General  
of the Ministry of Housing and Local  
Government, YBhg. Dato' Sri Haji  
Mohammad bin Mentek

Revolution in Waste Management Sector  
by Internet of Things and Industry 4.0  
Speaker: Chettiyappan Visvanathan,  
Asian Institute of Technology, Thailand

Waste Management, SDGs and New  
Businesses Opportunities in Developing  
Countries  
Speaker: Carlos Silva Filho, Abrelpe,  
Brazil

Circular Economy in Waste Management  
in India through Legal Framework,  
Swachh Bharat Mission and Zed  
Speaker: Sadhan Kumar Ghosh,  
Jadavpur University, India

**1930 - 2130**

**Welcome Reception**

Venue : WOW! KL Restaurant  
Theme : Taste of Malaysia  
Dress Code : Smart Casual



**0745 - 0830**

**Main Congress Registration**

Centre Core, Level 3

**0830 - 0930**

**Concurrent Session 3 (A)**

**ISWA Working Group on Recycling and Waste Minimisation Introduction into Circular Economy and the Textile Industry (followed by) Effective Construction and Demolition Waste Management under Challenging Conditions (Part 1)**

Plenary Theatre, Level 3

Circular Economy and the Fiber Industry

Presenter: Andreas Bartl, Technische Universität Wien, Austria

Potential of Recycled Aggregates in China-From an Industrial Prospective

Presenter: Jianzhuang Xiao, Tongji University, China

Methods and Tools for Analyzing Materials Stocks in Buildings and Their Spatial Distribution

Presenter: Fritz Kleemann, Technische Universität Wien, Austria

**ISWA Working Group on Landfill Closing Dumpsites Keynote**

Conference Hall 3, Level 3

Moderator: James Law, SCS Engineers, United States of America

Closure of the Estrutual Dumpsite-Brazil

Presenters: Carlos Silva Filho, Abrelpe, Brazil

Heliana Katia Tavares Campos, Waste Management Authority (SLU), Brazil

Case Study on Dumpsite Closure:

Oman

Presenter: Said Al-Touqi, Be'ah, Oman

Case Study on Dumpsite Closure:

Austria

Presenter: Robert Bösigler / Arne M.

Ragossnig, International Solid

Waste Association (Iswa), Austria

**ISWA Working Group on Energy Recovery State of the Art Waste-to-Energy (Part 1)**

Meeting Room 304, Level 3

Welcome and Overview of Global WTE Situation

Presenter: Johnny Stuen, Waste-to-Energy Agency, City of Oslo, Norway

Pretreatment or Refuse Derived Fuel for Energy-from-Waste: Do We Need Them?

Presenter: Christophe Cord'homme, CNIM, France

How to Adapt Advanced Waste to Energy to Conditions in South East Asia

Presenter: Jorgen Haukohl, Ramboll, Denmark

Designing the World's Largest WTE Plant in Shenzhen; China

Presenter: Ole Madsen, Babcock & Wilcox Volund, Denmark

## **ISWA Working Group on Hazardous Waste Chemical and Hazardous Waste Around the World**

Meeting Room 305, Level 3

Moderator: Nicolas Humez, Veolia – Sarp Industries, France

Hazardous Waste Management in Asia.  
Presenter: Mogens Straarup, Cenviro. Malaysia

Treatment of Oil Sludge Containing Mercury Generated by Oil & Gas Industry  
Presenter: Hiroki Iwase, Nomura Kohsan Co. Ltd., Japan

Waste, Trade and Enforcement  
Presenter: Hubrecht Van Westen, Environmental Inspectorate, Netherlands

### **0930 - 1030 Concurrent Session 3 (B)**

## **ISWA Working Group on Recycling and Waste Minimisation Effective Construction and Demolition Waste Management Under Challenging Conditions (Part 2)**

Plenary Theatre, Level 3

Yemen and Syria Warfare Debris Management  
Presenter: Ramy Salemdeeb, Ricardo Energy & Environment, United Kingdom

Disaster Waste Management for Governments  
Presenter: Kathrine Heinrich, Rawtec, Australia

Sustainable Construction Waste Management in India.  
Presenter: Kamal Raj, Infosys Ltd., India

## **ISWA Working Group on Landfill and Working Group on Climate Change and Waste Management Climate Benefits of Closing Open Dumps**

Conference Hall 3, Level 3

ISWA's Work on Closing Open Dumps  
Presenter: Gary Crawford, Veolia, France (Facilitator)

Presenting the ISWA Task Force on Close Dumpsites  
Presenter: H. James Law, SCS Engineers, United States Of America

Evaluating the Effects of Closing Open Dumps on Greenhouse Gas Emissions  
Presenter: George Stege, SCS Engineers, United States of America

## **ISWA Working Group on Governance & Legal Issues EPR and Informal Sector - Best Practices and Approaches in Various Countries**

Meeting Room 302+303, Level 3

Moderator: Joachim Quoden, Extended Producer Responsibility Alliance – Expra, Germany

Coherence, Compliance, Conviction and Competitiveness – Major Elements to Build Partnerships between Formal and Informal Sector Workers for Electronic Waste Management in India  
Presenter: Rachna Arora, Deutsche Gesellschaft Fur Internationale Zusammenarbeit (Giz) GmbH, India

Pilot Projects Supported by Obligated Industry – Model Projects of Tetra Pak  
Presenter: Terrynz Tan, Tetra Pak, Malaysia

Integrating Informal Waste Sector into Plastic Waste Recycling: A Comparative Review of Some Cases in Asia  
Presenter: Trang Nguyen Thi, Asian Institute of Technology, Thailand

The Move from the Informal Sector Collection to a Formal Collection Approach in Chile  
Presenter: Rodrigo Leiva Neumann, Valoryza SpA, Chile

## **ISWA Working Group on Energy Recovery State of the Art Technology – Waste to Energy**

Meeting Room 304, Level 3

How to Make Waste-to-Energy a Zero Carbon Solution

Presenter: Johnny Stuen, Waste-to-Energy Agency, City of Oslo, Norway

Implementing WTE in Southeast Europe, a Case Study from Belgrade, Serbia  
Presenter: Frederic Aguesse, SUEZ, France

WTE Solutions in Southeast Asia  
Presenter: Bob Couth, SLR Consulting Limited, United Kingdom

WTE in Island Communities: Preventing Ocean Plastic Pollution While Boiling Water for Safe Drinking  
Presenter: Erik Sumarkho, VOPO, Australia

## **ISWA Working Group on Hazardous Waste How to Deal with Waste at Port Reception Facilities?**

Meeting Room 305, Level 3

Moderator: Nicolas Humez, Veolia – Sarp Industries, France

PRF and Oil Spill Response  
Presenter: Kostas Chatzatoglou, POLYECO SA

20 Years of Implementing Hazardous Waste Management System, Malaysian Experiences  
Presenter: Mogens Straarup, Cenviro. Malaysia

Presentation by Ellen Gunsilius, GIZ (Step Initiative on E-Waste)

**0830 - 1030**

**Concurrent Session 3 (C)  
Woman of Waste Session**

Meeting Room 306, Level 3

Women and Men in Waste Management  
Harsh Impacts – New Opportunities  
(Interactive Session)

Part 1: Wow! – Women of Waste  
“Mapping the Status of Women in  
the Global Waste Management Sector”  
Moderator: Georgina Nitzsche,  
International Solid Waste Association  
(ISWA), Austria

Presenter: Linda Godfrey, Council for  
Scientific and Industrial Research, South  
Africa  
Maria Tsakona, ISWA Task Force on  
Marine Litter, Greece

Part 2: Waste and Climate Change  
Project with Gender Lens  
Moderator: Mahesh Pradhan, UN  
Environment, IETC, Japan

Gender and Waste Management  
Key Issues / Considerations  
Presenter: Ieva Rucevska, GRID Arendal,  
Norway

Country Level Experiences and  
Approaches – Gender and Waste

Case Studies:  
Tashi Jamtsho, WWF Bhutan, Bhutan  
Ariunaa Norovsambuu, The Asia  
Foundation, Mongolia  
Aisha Khatoon, Lead Nepal, Nepal

Testimonials:  
Nguyen Linh, Enda Vietnam  
Nalini Shekar, Hasiru Dala, India  
Maria Tsakona, ISWA Task Force on  
Marine Litter, Greece,  
Ieva Rucevska, GridnArendal, Norway

Interactive Discussion:  
Goal Setting – Key Messages

With: Linda Godfrey, Council For Scientific  
And Industrial Research, South Africa  
Georgina Nitzsche, International Solid  
Waste Association (ISWA), Austria



**ISWA Working Group on Collection and Transportation Technologies  
A Roadmap for a Sustainable Safe and Sound Waste Management System (In Three Key Steps)**

Meeting Room 410, Level 4

Moderator:

Bernd Leowald, Stadtreinigung  
Hamburg, Germany

Dumpsite Closure in Emerging Countries  
– Key Success Factors for Private Sector  
Participation, A Holistic Approach  
Presenter: Samir Dendoune, SUEZ,  
France

How to Design Solutions for Solid Waste  
Management – A Method and Tools for  
Low and Middle-Income Countries  
Presenters: Simonetta Tunesi, Strategic  
Environmental Consulting, Italy

A Local Model for A Global Problem in  
Developing Countries:  
“Let’s Separate Together” – Selective  
Collection Program for Urban Solid  
Waste in the City of Salta, Argentina  
Presenter: Lucia Susana Barcia, Impactos  
Ambientales, Argentina

Future Trends in Waste Technologies-  
Digitalization in Waste Logistics  
Presenter: Christian Bremer, SSI  
Schaefer, Germany

**1030 - 1100**

Networking Tea Break & E-Poster Viewing  
Session

Foyer Area @ Conference Hall, Level 3

**Concurrent Session 4  
ISWA Working Group on Healthcare  
Waste  
Introduction of Healthcare Waste  
Systems: Showcasing The Work of  
WASH**

Plenary Theatre, Level 3

Healthcare Waste Management-Setting  
The Scene And The Basics of WASH  
Presenter: David Sutherland, WHO-  
SEARO, Thailand

Challenges Of Introducing New  
Technologies To Transition Countries  
Presenter: Beatrice Giordani, Newster  
System S.R.L. San Marino

Healthcare Waste in Oman  
Presenter: Tawfiq Ibrahim Al Harthi,  
Oman Environmental Services  
Holding Co. Oman

Health Care Risk Waste Management  
– Where Do We Stand Today in South  
Africa?  
Presenter: Shauna Costley, Department  
of Environmental Affairs, South Africa

Frictional Heat Treatment (FHT) For  
Processing Potentially Infectious HCW:  
Synergy Of Know-How And Expertise  
Presenter: Elisa Benedettini, Newster  
System S.R.L. Italy

## **ISWA Working Group on Biological Treatment of Waste Approaches to Training on Separate Collection and Composting**

Conference Hall, Level 3

How ISWA has Created A Network for  
Knowledge Sharing on  
Biowaste Recycling

Presenter: Jane Gilbert, Carbon  
Clarity, United Kingdom

Teaching About Composting

Presenter: Johannes Biala, Centre  
for Recycling of Organic Waste and  
Nutrient, University of Queensland,  
Australia

Examples About Communication  
Initiative to Startup of Separate  
Collection of Biowaste

Presenter: Marco Ricci, CIC - Italian  
Composting and Biogas Association,  
Italy

## **ISWA Working Group on Governance & Legal Issues Recent Developments on EPR in Various Countries**

Meeting Room 302+303, Level 3

Moderator:

Rodrigo Leiva Neumann, Valoryza  
SpA, Chile

Extended Producer Responsibility  
(EPR) in the Asian Context

Presenter: Ashwin Subramaniam,  
Gone Adventurin Pte Ltd, Singapore

EPR in the EU: The New EPR

General Requirements in the EU  
Waste Framework Directive and Its  
Consequences for Pros

Presenter: Joachim Quoden,  
Extended Producer Responsibility  
Alliance - EXPRA, Germany

Building on the Informal Sector:  
Petco in South Africa

Presenter: Linda Godfrey, Council for  
Scientific and Industrial Research,  
South Africa

EPR in South America: An Update  
with A Special Focus on Argentina

Presenter: Atilio Savino, ARS –  
Asociación Para el Estudio de Los  
Residuos Sólidos, Argentina



## **ISWA Working Group on Landfill New Technologies in Landfill Management**

Meeting Room 304, Level 3

Moderator:

Derek Greedy, International Solid Waste Association (ISWA), United Kingdom

Advanced Technology in Sustainable Waste Management System

Presenter: Sahadat Hossain, University of Texas, United States of America

Landfill Mining Technology

Presenter: Rene Rosendal, Danish Waste Solutions ApS, Denmark

Recovery of Volume from Exhausted Landfills

Presenter: Daniele Cocca, Frisoli S.R.L Italy

## **1100 - 1300 Working Group on Climate Change and Waste Management NDCs to Action! How Can Circular Economy and Waste Management Contribute?**

Meeting Room 305, Level 3

Moderator:

Johannes Paul, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Germany

Presenter:

Gary Crawford, Vice President International Affairs, VEOLIA

Dato' Nadzri Yahaya, Former Deputy Secretary General, in the Ministry of Natural Resources and Environment, Malaysia

Jagath Premakumara Dickella Gamaralalage, IGES Centre Collaborating with UNEP on Environmental Technologies (CCET), Japan

James Monday, World Bank, United States of America

## **China Group Session**

Meeting Room 306, Level 3

Application of Vertical Barrier Wall on the Anti-seepage Project in Landfill

Presenter: Huo ChengLi, Deputy Secretary General

China Association of Urban Environmental Sanitation Industrial Solid Waste & Hazardous Waste Treatment Committee

Municipal Solid Wastes in China: Technology Development and Research Updates

Presenter: Lin Fawei, Doctor, School of Environmental Science and Engineering, Tianjin University

An Applicable Project for Heavy Metal Contaminated Land: One Case Study on Mining Residue Treatment in Hunan, China

Presenter: Sun Wei, Director, Beijing GeoEnviron Engineering & Technology, Inc

Applications of Geomembrane Cutoff Walls in the landfill site of municipal solid waste  
Presenter: Guo Zhi, Engineer,  
Beijing GeoEnviron Engineering & Technology, Inc

Low-carbon waste management in China  
Presenter: Liu Jinghao, Director/  
Chief Engineer, Environmental Health Engineering Technology Research Center, Ministry of Housing and Urban-Rural Development of the People's Republic of China

Development of MSW management in China  
Presenter: Zhong Lu, Engineer,  
China Urban Construction Design & Research Institute

Waste to Energy in China  
Presenter: Zhan Liang, Deputy  
General Manager, SUS Environment

BIM & Factory Production Model in the Construction of WTE FGC  
Presenter: Wu Haolun, GM,  
Wuxi Huaxing East Electric Power Environmental Protection Technologies Co., LTD

## **1300 - 1400**

Lunch & E-Poster Viewing Session  
Grand Ballroom, Level 3

## **1400-1530**

### **Concurrent Session 5 Sustainable Consumption and Waste Management in Developing Countries**

Plenary Theatre, Level 3

Moderators: Datuk Mizan Yahya,  
Waste Management Association  
of Malaysia (WMAM), Malaysia  
Jakob Lederer, Technische Universität  
Wien, Austria

Commercial Bio-Waste  
Management in Novi Sad – Strategic  
Framework and Initial Analysis  
Presenter: Nemanja Stanisavljevic,  
University of Novi Sad, Serbia

Biowaste Treatment Technology  
Assessment for Blantyre, Malawi  
Presenter: Wrixon Mpanang'ombe,  
Eawag, Switzerland

The Impact of Refuse Derived Fuels  
on the Greenhouse Gas Emissions of  
the Ugandan Cement Industry  
Presenter: Jakob Lederer, Technische  
Universität Wien, Austria

Sharing Waste Management  
Knowledge and Skills with  
Developing Countries  
Presenter: Zoe Lenkiewicz, Wasteaid,  
United Kingdom

An Integrated Approach for  
Management of Waste Biomass and  
Resource Recovery for Developing

Nations Though Strategic Framework

Presenter: Anaya Ghosh, National Institute of Technology, Durgapur, India

Achieving Waste Segregation at Source – A Review Using the Ranas Behaviour Change Model

Presenter: Chris Zurbrugg, Eawag, Switzerland

### **Marine Litter Task Force: Plastic Pollution: Stop It Before It Gets into the River**

Conference Hall 3, Level 3  
Technical Portion

Presenter: Costas Velis, University of Leeds, United Kingdom

Malaysian Case-Study

Presenter: David Lerpiniere, Resource Futures, United Kingdom

Intervention Measures

Presenter: Maria Tsakona, ISWA Task Force on Marine Litter, Greece

UN Environment Perspective

Presenter: Kakuko Yoshida, UN Environment, Thailand

Panel Discussion on Marine Litter

Q & A for the Task Force

Coordinated by Gunilla Carlsson

### **Technological Innovation in Solid Waste Management**

Meeting Room 302 + 303, Level 3

Moderators: Chettiyappan

Visvanathan, Asian Institute of Technology, Thailand

Derek Greedy, International Solid Waste Association, United Kingdom

Impact of European Legislation on Asian Thermal Waste Treatment Projects: An Analysis of Current and Proposed Emissions Limits

Presenter: Thorsten Dr. Becker, Doosan Lentjes GmbH, Germany

Prospective Study on the Use of Municipal Solid Waste in the Production of Chemical Supplies

Presenter: Michelle Bellas Romariz Gaudie Ley, Fluminense Federal University, Brazil

Machine Learning (Artificial Intelligence) Applications to Waste Management

Presenter: Jacobo Moreno Lampaya, VSM, Spain

A Novel Method of Utilising Waste Printed Circuit Board for the Preparation of Fibre Reinforced Polymer

Presenter: Senophiyah Mary J, Government College of Technology, Coimbatore, India

An Alternative Approach for Degradation of Epoxy Coating from WPCB Using Photocatalytic Degradation

Presenter: Loganath Radhakrishnan, Indian Institute of Engineering Science and Technology, Shibpur, India

Challenges Facing Construction and Demolition Debris Recycling in the US

Presenter: Timothy Townsend, University of Florida, United States of America

Role of Co-Processing in Sustainable Waste Management and Its Contributions to A Circular Economy and Prevention of Marine Litter

Presenter: Steen Blume, Deutsche Gesellschaft Fur Internationale Zusammenarbeit (Giz) GmbH, Germany

## **Circular Economy**

Meeting Room 304, Level 3

Moderators: Sadhan Kumar Ghosh, Jadavpur University, India  
Gary Crawford, Veolia, France

Adoption of Circular Economy for A Sustainable Solid Waste

Management System in Malaysia  
Presenter: Muhd Saiful Anuar Zainal, E-Idaman Sdn. Bhd., Malaysia

New Concepts for the Collection, Repair and Recycling of Waste Electrical and Electronical Equipment in Hamburg – Initial Research Findings from EU Project Force – Cities Cooperating for Circular Economy

Presenter: Stefan Dr. Lübben, Stadtreinigung Hamburg, Germany

Plastic Circular Economy in Practice – Overcoming Existing Market Failures for Economic, Social and Environmental Benefits

Presenter: Tricia Mary Hyde, The Plastics Circle, Australia

Towards Circular Economy in E-Waste Recycling Via Metal Recovery from E-Waste (MREW) Facilities

Presenter: Biswajit Debnath, Jadavpur University, India

Opportunity For Malaysia To Create A Circular Economy & Take The Lead In Sustainable Waste Management & Public Transport

Presenter: David Lantz, Scania (Malaysia) Sdn. Bhd., Malaysia



## **Governance and Communication**

Meeting Room 305, Level 3

Moderators: Tom De Bruyckere,  
ISVAG, Belgium  
Joachim Quoden, Extended Producer  
Responsibility  
Alliance - EXPRA, Germany

Circular Economy Model for E-Waste  
Management Sector  
Presenter: Shalini Sharma,  
Sanshodhan @ An E-Waste  
Exchange Pvt Ltd, India

Assessment of The Impact of A  
Communication Campaign in a  
Shopping Center as Part of A Food  
Waste Prevention Strategy  
Presenter: Susana Freitas, LIPOR,  
Portugal

Rebranding - Public Participation to  
Increase Solid Waste Management  
in Household (Case Study of Sidoarjo  
- Indonesia)  
Presenter: Dewi Dwirianti  
Hadiwinoto, Universitas Brawijaya,  
Indonesia

MSW in China - Policies,  
Opportunities & Challenges  
Presenter: Chun Li, Beijing Luboweiye  
Environmental Technology Co. Ltd.,  
China

Strategic Communications for Waste  
Management  
Presenter: Ravindran Raman  
Kutty, Institute Of Public Relations  
Malaysia, Malaysia

Separation At Source: Challenges  
and Solutions  
Presenter: Karen George Abraham,  
Deputy Director, National  
Solid Waste Management  
Department (NSWMD), Malaysia

Refuse Coaches  
Presenter: Lisette Bosch, Twente  
Milieu NV, Netherlands

## **WM & R Session**

Meeting Room 306, Level 3

How to Identify Suitable Ways for the  
Hydrothermal Treatment of  
Wet Bio-Waste? A Critical Review  
and Methods Proposal  
Presenter: Alberto Bezama,  
Helmholtz-Centre for Environmental  
Research UFZ, Germany

Worldwide Distribution and  
Abundance of Microplastic: How  
Dire is the Situation?  
Presenter: Fauziah Shahul Hamid,  
University of Malaya, Malaysia

Effectiveness of Municipal Solid  
Waste Incinerators in Replacing  
Other Fuels. A Primary Energy  
Balance Approach for the EU28.  
Presenter: Francesco Di Maria,  
University of Perugia, Italy

Removal of Bisphenol A And 2,4-Di-  
Tert-Butylphenol from Landfill  
Leachate Using Plant Based  
Coagulant  
Presenter: Aziz Ahmed, University of  
Malaya, Malaysia

Anaerobic Digestion of Food Waste with Aerobic Post-Treatment: Effect of Fruit and Vegetable Content  
Presenter: Charbel Abou Khalil, Notre Dame University - Lebanon, Lebanon

Improvement of the Chemical Recycling Process of Waste Carbon Fibre Reinforced Plastics Using Mechanochemical Process: Influence of Process Parameters  
Presenter: Kim Young-Ju, Kyungpook National University, South Korea

A Critical Review on the Sources and Instruments of Marine Microplastics and Prospects on the Relevant Management in China  
Presenter: Jinhui Li, Tsinghua University, China

### **Young Professionals Group (YPG) Session**

Meeting Room 410, Level 4

Presentation by ISWA YPG Online Conference Winners

Black Soldier Fly Biowaste Treatment - A Way to Reduce GHG Emission  
Presenter: Adeline Mertenat, EAWAG/Sandec, Switzerland

India's First Digitized Door-to-Door Waste Segregation and Collection Monitoring Solution  
Presenter: Wisvesh Bangalore Subramania, Waste Samaritan, India

Food Waste in Qatar: Crisis of Abundance (Recorded Presentation, 10 Min)  
Presenter: Fatima Zahra Bakkari

Panel Discussion  
Mohamad Faisal (YP, Malaysia)  
Zamri Abdul Rahman (Malaysia)  
Wan Azizul Faiz (YP, Malaysia)  
Anne Woolridge, Independent Safety Services Ltd (United Kingdom)  
Jane Gilbert, Carbon Clarity (United Kingdom)

### **Danish Embassy Session: Denmark Waste Story**

Meeting Room 308 + 309, Level 3

### **1530 - 1600**

Networking Tea Break & E-Poster Viewing Session  
Foyer Area@Conference Hall, Level 3

### **1600 - 1730 Concurrent Session 6**

### **Sustainable Consumption and Waste Management in Developing Countries**

Plenary Theatre, Level 3

Moderator: Jinhui Li, Tsinghua University, China

Evaluating the Impact of Alternative Fuel Utilization on the Greenhouse Gas Emissions of the Egyptian Cement Industry  
Presenter: Johann Fellner, Technische Universität Wien, Austria

Community-Based Recycling in A

Small Island Developing State: A Case Study of Barbados  
Presenter: Nicole Garofano, University of Queensland, Australia

Overview of Urban Solid Waste in Medium-Sized Brazilian Municipalities  
Presenter: Valdir Eduardo Olivo, Aris, Brazil

Barriers for Sustainable Materials Management in Developing Countries  
Presenter: Lilliana Abarca-Guerrero, Instituto Tecnológico De Costa Rica, Costa Rica

Sea Cleaning Under Bio-Remediation (Technologies Sharing for All Kind of Plastic Recycling Reused) & Sewage Treatment  
Presenter: Raagini Jaain, Geetanjali Envirotech, India

What A Waste 2.0  
Presenter: Silpa Kaza, World Bank Group, United States of America

## **Energy Recovery and Biological Waste**

Conference Hall 3, Level 3

Moderators: Johnny Stuen, Waste-To-Energy Agency, City of Oslo, Norway  
Francesco Di Maria, University Of Perugia, Italy

Quality Source Segregation as An Essential Requisite for An Efficient Recycling of Biowaste: The Results of A National Survey  
Presenter: Davide Mainero, Consorzio Italiano Compostatori, Italy

Refuse-Derived Fuels – A Means to Reduce Fossil CO<sub>2</sub>-Emissions from Cement Plants?  
Presenter: Therese Schwarzboeck, Technische Universität Wien, Austria

Characteristics of Exhaust Gas Recirculation on Nitrogen Oxide Reduction in Municipal Solid Waste Combustion System  
Presenter: Hailiang Du, Shanghai SUS Environment Co. Ltd., China

The Influence of Flue Gas Composition on the Removal of Acid Gases by Sodium Bicarbonate During One-Step Dry Treatment of Flue Gas from Waste-To-Energy  
Presenter: Boleslav Zach, Institute of Chemical Process Fundamentals of the Cas, Czech Republic

Waste Is Cool! The Critical Role of Waste-to-Cooling in A World Where Prosperity Growth Drives Cooling Demand

Presenter: Heike Carl Zatterstrom, Boson Energy, Luxembourg

Subcritical Water (SCW) as a Pre-Treatment Option to Enhance Biogas Production from Sewage Sludge in Malaysia

Presenter: Mohammed Al-Samet, University Technology Malaysia, Malaysia

## **Collection, Transportation and Recycling**

Meeting Room 302+303, Level 3

Moderators: Andreas Bartl, Technische Universität Wien, Austria  
Michael Nelles, University of Rostock, Germany

Improving Plastics Recycling through A Digital Value Chain-Based Approach

Presenter: Henning Wilts, Wuppertal Institute for Climate Environment Energy, Germany

The Engagement of Waste Management Companies in Plastic Upcycling

Presenter: Nadine Sousa, LIPOR, Portugal

Use of Recycled Coal Fly Ash or Glass Pozzolan as A Mitigation Tool for Alkali-Silica Reaction in Portland Cement Mortars Amended with Recycled Municipal Solid Waste Incinerator Bottom ASH

Presenter: Kyle Clavier, University of Florida, United States of America

Waste Minimisation, Cost Effective Waste Management Solutions, Kuala Lumpur

Presenter: Mohd Rafi Omar, Hexagon Synergy (M) Sdn Bhd, Malaysia

China's National Sword and the Impact on Australia's Recycling

Presenter: Mike Ritchie, MRA Consulting Group, Australia

Optimization of Sorting, Transportation and Collection of Waste in Developing Countries: The Case Study of, Port-Au-Prince City, Haiti

Presenter: Verdieu Pierre-Georges, University Of The French West Indies, France

Recycling of Indium from Waste Lcd: The Comparison of Acidic Leaching Process with the Aid of Ultrasonic Wave And Magnetic Stir

Presenter: Aleksandra Anic Vucinic, University of Zagreb, Croatia  
Assessing Alternatives of Waste





Collection through Cost Modelling

– A Case in Bolivia

Presenter: Adeline Mertenat, Eawag,  
Switzerland

Challenges and Opportunities for  
Financing Projects in the Solid  
Waste Sector

Presenter: Joseph Donahue, ABT  
Associates, United States of America

## **Technological Innovation in Solid Waste Management**

Meeting Room 304, Level 3

Moderators: Nguyen Thi Kim Thai,  
National University of Civil  
Engineering, Vietnam  
Dato' Nadzri Yahaya, Former DG of  
Waste Management Dept

Information System for Decision  
Making in the Management of  
Solid Urban Waste (SUW) in Mexico  
City (CDMX)

Presenter: Patricia Galán Lara,  
Universidad Autónoma  
Metropolitana, Mexico

Biodegradation of Secondary  
Microplastics by Selected Bacterial  
Consortium in Mangrove Sediments  
Under Laboratory Conditions  
Presenter: Mehran Bhatti, University  
of Malaya, Malaysia

Digitalization in Waste Management  
Presenter: Armin Vogel, Fritz Schaefer  
GmbH, Germany

Fungal Biodegradation of  
Polyethylene Terephthalate (PET)  
Plastics Isolated From Landfill  
Presenter: Priya Mohan, University of  
Malaya, Malaysia

## **Closing Dumpsites and Marine Litter**

Meeting Room 305, Level 3

Moderators: Costas Velis, University  
of Leeds, United Kingdom  
Gunilla Carlsson, SYSAV, Sweden

Payatas Solid Waste Disposal Facility:  
Closure and Conversion  
Presenter: Grace Sapuay, Solid  
Waste Management Association of  
The Philippines, Philippines

Abundance and Distribution of  
Microplastics in Selected River  
Sediments in Peninsular Malaysia  
Presenter: Norkhairiyah Anuar,  
University of Malaya, Malaysia

Abundance and Distribution of  
Microplastics in Selected  
Mangrove Areas in Peninsular  
Malaysia  
Presenter: Norkhairah Anuar,  
University of Malaya, Malaysia

Waste Transformation in Oman.  
Presenter: Mohab Al-Hinai, Oman  
Environmental Services Holding  
Company, Oman

Concepts for Marine Litter  
Prevention: The Simplified Marine  
Plastic Litter Assessment  
Methodology  
Presenter: Joachim Stretz, RWA  
Group, Wasteaware, Germany

## **Climate Change and Landfills**

Meeting Room 306, Level 3

Moderators: René Rosendal, Danish  
Waste Solutions Aps, Denmark  
Takayuki Shimaoka, Kyushu  
University, Japan

Addressing Slope Failures and Fires  
at Major Landfills – A Case Study of  
Ghazipur Landfill in Delhi, India  
Presenter: H. James Law, SCS  
Engineers, United States Of America

How to Make Waste-To-Energy A  
Zerocarbon Solution  
Presenter: Johnny Stuen, Waste-To-  
Energy Agency, City of Oslo,  
Norway

Climate Change Adaption: Key  
Elements of Disaster Waste  
Management Planning to Improve  
Resilience  
Presenter: Kathrine Heinrich, Rawtec,  
Australia

Spanish Experiences on Landfill GHG  
Emission Reduction.  
Presenter: Jacobo Moreno Lampaya,  
VSM, Spain

Bioremediation of Arsenic and Lead  
from Landfill Leachate  
Contaminated Soil Using Indigenous  
Filamentous Fungi  
Presenter: Auwalu Hassan, University  
Of Malaya, Malaysia.

China's Low-Carbon Development  
and the Analysis of Greenhouse  
Gas Emissions Reduction Potential in  
the Waste Sector  
Presenter: Liu Jinghao, China Urban  
Construction Design &  
Research Institute, China

Suggestion to the Estimation of  
Methane Emission in A Landfill Site  
Presenter: Kyungho Lee, SLC, South  
Korea

Landfill Safe Closure: The Malaysia  
Experience  
Presenter: Abdul Nasir Aziz, National  
Solid Waste Management  
Department (NSWMD), Malaysia



## **Hazardous Waste and Health Care Waste**

Meeting Room 410, Level 4

Moderators: Anne Woolridge,  
Independent Safety Services Ltd,  
United Kingdom  
Jorgen Haukohl, Ramboll, Denmark

Challenges Posed by the Reliance on  
the Toxicity Characteristic  
Leaching Procedure (TCLP) for  
Characterizing MSWI Asht  
Presenter: Yalan Liu, University of  
Florida, United States of America

An Example of An Evaporator  
Introduced to Accomplish Leachate  
Disposal at the Only Final Disposal  
Site for Hazardous Waste in  
Indonesia.  
Presenter: Satoshi Morimoto, Dow  
Eco System Co. Ltd., Japan

Dowa's PCB Waste Management in  
Japan  
Presenter: Takeshi Murano, Dow  
Eco System Co. Ltd., Japan

Closing Dumpsites: The Case of  
Health Care Waste Disposal  
Practices in Ghana  
Presenter: Richard Amfo-Otu,  
Presbyterian University College,  
Ghana

Plastic Disclosure Project – How Do  
You Know What to Circulate If  
You Don't Measure It First?  
Presenter: Douglas Woodring, Ocean  
Recovery Alliance, Hong  
Kong

Lead Acid Battery Recycling in Oman  
Presenter: Zainab Al Lawati, Oman  
Environmental Services Holding  
Company, Oman

Hazardous Waste Management in  
Germany  
Presenter: Gert Morscheck, Rostock  
University, Germany

## **1830 - 2230 Gala Dinner**

Venue : Grand Ballroom, Level 3,  
Kuala Lumpur  
Convention Center  
Theme : Connecting Cultures  
Dress Code : Traditional Attires

**0745 - 0830**

Main Congress Registration  
Centre Core, Level 3

**0830-1000****Plenary Session 3**

Plenary Hall, Level 1

Moderators: Arne M. Ragossnig,  
International Solid Waste  
Association (ISWA), Austria  
Agamuthu Pariatamby, University of  
Malaya, Malaysia

Bioenergy from Organic Waste and  
Residues in the Future Energy  
System and Circular Economy  
Speaker: Michael Nelles, University of  
Rostock, Germany

An Expanded Analysis of Energetic  
Efficiency of EU WTE Plants.  
Speaker: Francesco Di Maria,  
University of Perugia, Italy

World Without Waste -  
The Coca-Cola Story  
Speaker: Ben R. Jordan,  
The Coca-Cola Company

**0830-1000**

**The CCAC Waste Initiative:  
Improving Air Quality and  
Mitigating Climate Change  
through Better Waste  
Management**

Conference Hall 3, Level 3

CCAC-MSWI and Its Involvement in  
Achieving SDG Target 12.3 and  
the CCAC HLA Waste Commitments  
Presenter: Sandra Mazo-Nix, Climate  
and Clean Air Coalition,  
United States of America

Using Waste Initiative Tools to Support  
Project Screening and  
Assessment  
Presenter: Joseph Donahue, ABT  
Associates, United States of  
America

Decentralized Organic Waste  
Management with Small Scale  
Anaerobic Digesters – A Case Study  
of Pune, India  
Presenter: Thomas Frankiewicz, U.S.  
Environmental Protection  
Agency, United States of America

Organic Waste Diversion Strategies  
and Policies in Europe, the  
Perspective from Germany and  
Sweden  
Presenter: Anja Schwetje, German  
Environment Agency, Germany

**1000 - 1030**

Networking Tea Break & E-Poster  
Viewing Session  
Foyer Area @ Conference Hall, Level 3

**1030-1200**

**Plenary Session 4**

Plenary Hall, Level 1

Moderators: Ho De Leong, the Waste Management Association of Malaysia (WMAM), Malaysia  
Dimitris Dermatas, Ministry of Environment And Energy, Greece

Estimation and Measurement  
Methods for Quantity of Disaster  
Waste Generated

Speaker: Takayuki Shimaoka, Kyushu University, Japan

Municipal Solid Waste Management  
in Vietnam: Current Landfill  
Management and Recycling  
Activities

Speaker: Nguyen Kim Thai, National University of Civil Engineering, Vietnam

Policy and Environmental Impact of  
Imported Waste Plastic  
Recycling in China

Speaker: Jinhui Li, Tsinghua University, China

**1030-1200**

**The CCAC Waste Initiative:  
Improving Air Quality and  
Mitigating Climate Change  
through Better Waste  
Management**

Conference Hall 3, Level 3

Food Waste: Food Recycling Law in  
Japan and Its Implementation,  
Progress and Challenges

Presenter: Jagath Premakumara  
Dickella Gamaralalag,  
IGES Centre Collaborating with UNEP  
on Environmental  
Technologies (CCET), Japan

Lessons Learned from the Food  
Waste Pilot Projects in Penang and  
Perspectives for the Future

Presenter: Phee Boon Poh, City of  
Penang

The Experiences of CCAC Brazilian  
Cities to Prevent and Treat Food  
Waste

Presenter: Carlos Silva Filho, Abrelpe,  
Brazil

The Importance of Preventing Open  
Burning of Waste and Improving  
Waste Collection for Better Air Quality  
and Climate Change Mitigation

Presenter: Prof. Agamuthu  
Pariatamby, University of Malaya,  
Malaysia

Best Practices for Landfill  
Stabilization in India, Based on  
Experiences in East Delhi  
Presenter: Nimmi Damodaran, ABT  
Associates, United States of  
America

Landfill Operations to Maximize  
Landfill Gas Recovery  
Presenter: Robert Dick, SCS  
Engineers, United States of America

Presentation of Case Study Indore,  
India

**1200-1230**  
**Closing Ceremony by Secretary**  
**General of the Ministry of**  
**Housing and Local Government,**  
**YBhg. Dato' Sri Haji Mohammad**  
**bin Mentek**

Plenary Hall, Level 1

**1230-1330**  
**Farewell Lunch**

Banquet Hall, Level 3



## Post Congress Workshops

### Managing Landfills & Dumpsites in Developing Countries

Melati Room, Level 1, Impiana Hotel  
KLCC, Kuala Lumpur

#### 0800 - 0900

Registration

#### 0900 - 0950

Landfills Dumpsites: An Introduction  
Presenter: Derek Greedy,  
International Solid Waste Association  
(ISWA), United Kingdom

#### 0950 - 1030

Landfills Constriction / Site Selection  
Presenter: Arne M. Ragossnig,  
International Solid Waste  
Association (ISWA), Austria

#### 1030 - 1045

Coffee / Tea Break

#### 1045 - 1130

Landfills Leachate (Quality / Quantity  
/ Treatment / Use)  
Presenter: Luís Marinheiro,  
International Solid Waste Association  
(ISWA), Portugal

#### 1130 - 1220

Ecotoxicological Impacts of Leachate  
and Remediation  
Presenter: Agamuthu Pariatamby,  
University of Malaya, Malaysia

#### 1220 - 1245

Landfills Dumpsites: Transition  
Dumpsite into a Sustainable Waste  
Management System  
Presenter: Sahadat Hossain, the  
University of Texas in Arlington,  
United States of America

#### 1245 - 1330

Lunch

#### 1330 - 1420

Landfills Gas / Climate Change: Use  
of Biocover for Methane Oxidation  
Presenter: Fauziah Shahul Hamid,  
University of Malaya, Malaysia

#### 1420 - 1500

Landfills Dumpsite Closure and Post  
Closure with Case Studies  
Presenter: Agamuthu Pariatamby,  
University of Malaya, Malaysia

#### 1500 - 1530

Landfills Mining with Case Studies  
Presenter: René Rosendal, Danish  
Waste Solutions ApS, Denmark

#### 1530 - 1550

Coffee / Tea Break

#### 1550 - 1630

Landfills Dumpsite Stability  
Presenter: H. James Law, SCS  
Engineers, United States of America

#### 1630 - 1700

Landfills Dumpsite: MSW Wall  
Presenter: Daniele Cocca, Frisoli S.R.L  
Italy

#### 1700 - 1730

Q & A Session

## **Marine Debris**

Mawar Room, Level 1, Impiana Hotel  
KLCC, Kuala Lumpur

### **0800 - 0900**

Registration

### **0900 - 0910**

Introduction

Presenter: Fauziah Shahul Hamid,  
University of Malaya, Malaysia

### **0910 - 1000**

Global Situation of Marine Litters

Presenter: Agamuthu Pariatamby,  
University of Malaya, Malaysia

### **1000 - 1030**

Coffee / Tea Break

### **1030 - 1120**

Issues and Challenges in Marine  
Litter Assessment

Presenter: Fauziah Shahul Hamid,  
University of Malaya, Malaysia

### **1120 - 1210**

Marine Litter in America and South  
America

Presenter: Alethia Vazquez Morillas,  
Universidad Autónoma  
Metropolitana, Mexico

### **1210 - 1300**

Marine Litter Management in Asia

Presenter: Trang Nguyen Thi, Asian  
Institute of Technology,  
Vietnam

### **1300 - 1400**

Lunch

### **1400 - 1450**

Policy and Regulations in Marine  
Litter Management

Presenter: Joachim Stretz, RWA  
Group, Wasteaware, Germany

### **1450 - 1540**

Marine Litter to Wealth

Presenter: Ilaria Schiavi, IRIS Srl, Italy

### **1540 - 1630**

Community Engagement in Marine  
Litter Management

Presenter: Jan Verheyen, OVAM,  
Belgium

### **1630 - 1700**

Q & A Session





## Post Congress Workshop

### Circular Economy

**25th October 2018**

Jasmine Room, Level 1, Impiana Hotel  
KLCC, Kuala Lumpur

**9:00 – 18:00**

Focus 1: Circular Economy for textiles  
and fibres

Presenters: Andreas Bartl, Technical  
University Vienna, Austria  
Benjamin Piribauer-Wegscheider,  
Technical University Vienna, Austria  
David Lantz – Scania, Southeast Asia  
Facilitators: Jiao Tang, Consultant,  
China  
Georgina Nitzsche, ISWA, Austria

- Welcome and Introduction: Fibres  
and textiles: the basics
- Case study 1: Recycling of CO/PET  
textiles
- Presentation by David Lantz –  
Scania, Southeast Asia
- Case study 2: Recycling of flame  
retardant protective clothing
- Interactive Workshop  
Participants actively review and  
identify barriers for a circular  
economy along the textile  
supply chain in a guided exercise.  
Participants discuss how such  
barriers can be removed and  
highlight more sustainable and  
less environmental harmful textile  
consumption behaviours.
- Summary and conclusion

Focus 2: Circular Economy for Critical  
Raw Materials

Presenters: Andreas Bartl, Technical  
University Vienna, Austria

Adrienna Zsakay – Circular Economy  
Asia  
Facilitators: Jiao Tang, Consultant,  
China  
Georgina Nitzsche, ISWA, Austria

- Introduction: What is criticality?
- Presentation of COST action  
Solutions for Critical Raw Materials  
Under Extreme Conditions (CRM-  
EXTREME)
- Presentation by Adrienna Zsakay –  
Circular Economy Asia
- Current status: Cobalt, Niobium,  
Tungsten, Yttrium and Rare Earth  
Elements
- Interactive Workshop

Group Brainstorming: Ideas and  
solutions on the following questions:

- Is the 2D model to define criticality  
adequate or should we add other  
such environmental impacts or  
social compatibility?
- What could increase the usage of  
critical secondary raw materials?
- Is substitution of CRM by less critical  
materials a viable solution?
- How can international cooperation  
lower the risk of an interruption of  
supply of CRM?
- Summary and conclusion: Farewell  
Photograph

## ISWA 2018 COMMITTEE MEETINGS SCHEDULE

### 20 OCTOBER 2018 (SATURDAY)

Level 42, Tapis 1 & 2, Malaysian Petroleum Club (MPC)

#### 0900 - 1200

STC Meeting

#### 1300 - 1700

ISWA Board Meeting

### 21 OCTOBER 2018 (SUNDAY)

Impiana Hall 2, Level 2, Impiana Hotel KLCC, Kuala Lumpur

#### 0900 - 1200

National Members Meeting

#### 1300 - 1700

ISWA General Assembly

### 22 OCTOBER 2018 (MONDAY)

#### 1400 - 1600

Working Group on Landfill Meeting  
Meeting Room 308, Level 3

#### 1430 - 1700

WM&R Editorial Group, Editorial Board Meeting  
Meeting Room 307, Level 3

#### 1600 - 1800

Working Group on Healthcare Waste Meeting  
Meeting Room 309, Level 3

### 23 OCTOBER 2018 (TUESDAY)

#### 1000 - 1200

WM&R Editorial Group, Editorial Board, International Advisory Board Meeting  
Meeting Room 307, Level 3

#### 1000 - 1200

National Member Workshop  
Meeting Room 309, Level 3

#### 1200 - 1530

Working Group on Energy Recovery  
Meeting Room 309, Level 3

#### 1300 - 1400

RDN Asia Pacific & APWEA Meeting  
Meeting Room 309, Level 3

#### 1500 - 1700

Working Group on Collection and Transportation Technologies  
Meeting Room 308, Level 3

#### 1600 - 1800

WM&R Editorial Group, Editorial Board, International Advisory Board Meeting  
Meeting Room 307, Level 3

## **24 OCTOBER 2018 (WEDNESDAY)**

### **1400 - 1700**

YPG Meeting

Meeting Room 307, Level 3

## **25 OCTOBER 2018 (THURSDAY)**

Impiana Hall 1, Level 2, Impiana Hotel KLCC, Kuala Lumpur

### **0900 - 1800**

CCAC Steering Group Meeting

