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12th World Congress and Expo on

Recycling

April 22-23, 2020
Berlin, Germany



SCIENTIFIC PROGRAM

DAY 1
Wednesday, 22nd April

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Solid Waste Management	**Talks On: Agriculture Waste Recycling**
Paper Recycling	Recycling Market
Municipal solid waste Recycling	Biodegradable waste Recycling
Demolition waste Recycling	Organic Waste Recycling

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Waste Management Techniques	**Talks On: Paper recycling**
Waste Water Recycling	Physical recycling
Commercial waste Recycling	Waste plastic pyrolysis to fuel oil
Hazardous waste management	Chemical recycling

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Recycling conference	Workshop

DAY 2
Thursday, 23nd April

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50	MEETING HALL 01	MEETING HALL 02
	Talks On: E-Waste Recycling And Management	**Talks On:** Thermal Waste Recovery
	Electronic waste (e-waste) Recycling	Recycling: Eco-Balance
	Radioactive waste	Food waste Recycling
	Hazardous waste	Household waste Recycling

12:50-13:35 LUNCH BREAK

13:35-15:55	MEETING HALL 01	MEETING HALL 02
	Talks On: Metal and Plastic Recycling	**Talks On:** Chemical Waste Recovery
	Biomedical waste Recycling	Sewage Treatment
	Marine debris Recycling	Inorganic waste Recycling
	Mineral waste Recycling	Industrial waste treatment

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations for Recycling Conference	Workshop

Awards & Closing Ceremony

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12th World Congress and Expo on Recycling

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AGENDA

Abstract

Title: Mining of glass dumps for recycling

William Hogland
Linnaeus University,
Sweden

Landfills and dumpsites have been the ultimate end-of-life sinks for various materials. Since the mid-1990s, the Environmental Science and Engineering Group at Linnaeus University has established research in Landfill mining in cooperation waste management companies in Sweden, the Baltic Sea region and Europe. In the 'Kingdom of Crystal' in southeastern Sweden, centuries of crystal glass production have resulted in over 50 contaminated glass dumps with heavy metals leaching to soil.

Title: Recycling of steel mill dusts with the RecoDust process – Scale-up of a pilot plant

Wolfgang Reiter
K1-Met GmbH,
Austria

In case of using galvanized steel scrap as an input material for basic oxygen furnaces (BOF), the generated dust in the off-gas contains up to 18 % zinc. Due to the volatility of zinc, the dust cannot be recycled into the steelmaking process because of an enrichment of zinc in the production chain. High zinc loads in blast furnaces lead to an increasing energy and reducing agent consumption, might damage the refractory materials, and hence shorten the furnace's campaign life.

Title: The influence of food packaging on consumers sorting behavior

Babak Nemat
University of Boras,
Sweden

Among household solid waste (HSW) components, the waste of packaging has become a symbol of disposal in today's societies due to its materials diversity, processing, and quantity. The packaging waste forms 30-35% of total HSW, on a global scale. However, the packaging waste could be valuable resource for material recovery if it properly separated and sorted by consumers.

SPEAKER SLOTS AVAILABLE

Title: A successful case in waste management in developing countries

Lorena De Medina Salas
Universidad Veracruzana, Mexico

Although most developing countries have serious problems with the issue of waste management, there have been some success stories including the development of environmental public policies, which had led to better life quality. In most developing countries, waste management considers only two stages: collection and final disposal.

Title: Towards greener liquid-liquid extraction using hydrotopes and synergism between amphiphiles

Thomas Zemb
Institute for Separation Chemistry (ICSM)
France

Hydrometallurgy heavily relies on liquid-liquid extraction. Liquid-liquid extraction is a colloidal and interfacial process driven by chemical potential differences of cations dispersed in different liquids. Current methodology at lab, pilot or plant scale is systematic experiment plans to select best conditions. Phenomena as ubiquitous as synergy between extractants have no explanation, as well as the usage of solvotropes or hydrotropes to increase yield and reduce third phase formation.

Title: A novel process for flotation separation of polycarbonate, polyvinyl chloride and polymethyl methacrylate waste plastics associated with surface treatment

Chongqing Wang
Zhengzhou University, China

The global production of plastics has increased sharply in the past decades, generating a great amount of waste plastics. Environment and resource issues promote the recycling of waste plastics, which reduces the demand for non-renewable fossil oil and the negative effects on environment.

SPEAKER SLOTS AVAILABLE

Title: Mechanical and decontaminating behaviour of recycled mortars with TiO2

Maria Auxiliadora
Barbudo Munoz University, Spain

The circular economy is an economic model of production and consumption, which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products. The use of recycled materials in products with low mechanical requirements, especially those from construction and demolition waste (CDW), is a common practise in construction sector.

Title: Life cycle assessment of cellulosic ethanol production from ethanol

Ali Hassnain Khan Khichi
De Montfort University, UK

Petroleum-based transportation fuels have had a significant impact on the climate change for decades; this has prompted scientists to invent alternative sources of fuels. The environmental attributes of lignocellulosic biofuels have been an epicenter of research for decades; with a possibility of replacing most if not all of the petroleum-based fuels hence reduce transport-related greenhouse gas (GHG) emissions (Wu et al., 2006, Delucchi, 2010, Hsu et al., 2010).

Title: Newcycling – An innovative approach for high quality plastics recycling

Hannes Mann
Otto-von-Guericke-University, Germany

In Municipal Solid Wastes (MSW), the recycling of plastics is one of the most challenging tasks. Every year 78 million tons of plastics are used for packaging and need, therefore, to be treated afterwards. About 20 % of this amount consists of monolayer or multilayer films. As polymers have a decomposition duration of some 100 years, simple disposing is no sustainable option.

SPEAKER SLOTS AVAILABLE

Abstract

Title: Applying the cycle of recycling materials (CRM) as a tool for design of products

Luis Henrique
Federal University,
Brazil

Currently the development of new products can have more than 50,000.00 types of materials that are available. This demonstrates two important situations. The first situation contributes to the development of new products and technological innovation in several areas. The second situation is the counterpart to the first, ie, there is a real possibility of increased generation of various types of waste.

Title: Three theoretical mega projects which can contribute to prevent, mitigate, dispose and control anthropogenic pollution in our planet

Edio Ricci Giampietri
Universidad Hispanoamericana,
USA

This paper aims to present and explain the generalities of three theoretical mega projects/researches which can partially contribute to prevent, mitigate, dispose and control pollution and disasters induced by bad human practices.

Title: Multilayered packaging problem challnges & solutions plastics recycling opportunities & challenges in India and globally

Ginu Joseph
Chrysoprase Multimedia &
Services Pvt. Ltd,
India

India faces major environmental challenges associated with waste generation and inadequate waste collection, transport, treatment and disposal. Current systems in India cannot cope with the volumes of waste generated by an increasing urban population, and this impacts on the environment and public health. The challenges and barriers are significant, but so are the opportunities.

SPEAKER SLOTS AVAILABLE

Abstract

Title: Remanufacturing capacity planning modelling for closed loop supply chain in fast moving consumer good industry using system dynamics

Jihad Alif
University of Indonesia, Indonesia

Single-use plastic waste currently becomes a major issue for the socio-environment which is unprocessed and starting to pile up becoming pollutants decreasing the quality of soil, water, and air. Although remanufacturing single-use plastic bottle waste induces lower costs and environmental gains, companies are still hesitant to go for it as for the uncertainty of the amount of returned used-products itself.

Title: Alleviate 5000 people from infectious diseases in 4 compounds within Lusaka Zambia

Langizya Masengu Shimba
Zero waste organization, Zambia

Alleviate 5000 people from infectious diseases in 4 compounds within Lusaka, Zambia: Lusaka the capital city of Zambia has about 43 unplanned settlements which host 70% of the city population. Most of these settlements have experienced untold forms of suffering due to regular occurrences of infectious diseases such as cholera nearly every rainy season. The infectious diseases are attributed to the poor hygiene and lack of safe clean water.

Title: E-waste management plan (financial analysis)

Samroot Samreen Wani
Energy and Resources Institute, India

The purpose of this study to assess the quantity of E-waste generation and its management in India along with the financial assesment of the e-watse in Delhi, the capital of India if recycled in a formal way. Due to rapid increase in urbanization and industrialization, the generation of E-waste has also increased at a very fast rate.

SPEAKER SLOTS AVAILABLE

Abstract

Title: Status of solid waste & pollution in India: Challenges for future

Dr. Jagbir Singh
University of Delhi,
India

India is rapidly shifting from agricultural-based nation to industrial and services-oriented country. About 31.2% population is now living in urban areas. As per census 2011, over 377 million urban people are living in 7,935 towns/cities. India is a vast country divided into 29 States and 7 Union Territories (UTs).

Title: Assessment on municipal plastic waste released, management and recycling in supply chain in major three cities of Nepal

Rishi Ram Kattel
International Centre for Integrated Mountain Development,
Nepal

In Nepal solid waste management is one of the major environmental issues, especially in the urban areas. While solid waste management (SWM) has become a major concern for municipalities and the country as a whole, the status of SWM is not fully understood due to the lack of SWM baseline data, which are also essential for effective planning

Title: Project abstract of recycling yarn

Shahrier Alam Koel
Koel Modish Appareals,
Bangladesh

Abstract of Recycling yarn is a process of change waste of Garments Manufacturer Wastage into new products to prevent waste of potentially useful materials, reduce the consumption of fresh raw materials, reduce energy usage, reduce air pollution (from incineration) and water pollution by reducing the need for “conventional” waste disposal, and lower greenhouse gas emissions. Recycling is a key component of modern waste reduction and is the third component of the “Reduce, Reuse and Recycle” waste hierarchy.

SPEAKER SLOTS AVAILABLE

Abstract

Title: Plastics 2020 at crossroads, where and how do we go from here.....?

Sameer Joshi
Indian Plastics Institute,
India

This is easier than done. The other is the attitude of various stake holders. In spite of the fact that land is fast running out in urban India, the urgency for effective and long term sustainable solution for MSW disposal in our cities is not there. One needs fresh thinking to find solutions. India is likely to produce over 500 million tpa of urban waste by 2050; and 80 % of this will come from cities

Title: Physical separation technology with fluidized bed for recycling used refractory

Yuki TAKAKI
University of Tokyo,
Japan

In iron-making and steel-making processes, many kinds of refractory are used. They are discharged as by-product after used and contain many recyclable valuable materials. However there are problems with recycle of these materials because there are impurity contaminations. Among many types of refractory, we focused on refractories used in blast furnace trough in this study.

Title:

Name
Country

Abstract

SPEAKER SLOTS AVAILABLE

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Glimpses of Recycling Conference 2020















