WASTE-TO-RESOURCES 2023



10" INTERNATIONAL SYMPOSIUM CIRCULAR ECONOMY, MBT & MRF











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Some of this year's or previous exhibitors:





31st of MAY 2023

Introductory seminar to mechanical-biological treatment in english language only

LIVE: 09.30 - 18:00 CET. Presenter: Dr. Matthias Kühle-Weidemeier

Seminar Topics:

Selection of appropriate waste treatment technologies

Introduction, what is MBT, targets

MBT technologies and examples

- · Mechanical treatment
- Biological treatment

Aerobic technologies

- MBT prior to landfill
- Biological drying for refuse derived fuel (RDF) production

Combined anaerobic-aerobic technologies

- · Partial flow dry digestion
- Full flow dry digestion
- · Partial flow wet digestion
- Full flow wet digestion
- Percolation plants

MBT related technologies

- Wet mechanic separation technology
- Mechanical-physical stabilisation

Quality supervision of the major solid MBT output fractions and MBT process control

- · Taking representative samples, analytics, which parameters make sense?
 - · Landfill material
 - RDF

Control of Gaseous emissions

- Emitted substances, variation of emissions during the process
- Encapsulation
- · Air management
- Biofilter
- Regenerative thermal oxidation (RTO)

Practical experience with MBT in Germany

- · History and legal background
- Results of an evaluation of all German MBTs in 2007
- Current situation

Landfilling of MBT output

Is agricultural application of MBT output a good solution?

MBT compared to other technologies

- Incineration
- Bioreactor landfill

Costs of MBT

Adoption of MBT to the local situation



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MONDAY, 5TH OF JUNE 2023

Conference language: english Simultaneous translation into french on site

09:00 - 10:50 BLOCK 1

WASTE MANAGEMENT AS AN IMPORTANT MEASURE FOR CLIMATE PROTECTION

- 1. The Climate Protection Potential for Waste Management in the EU27. Anja Schwetje, German Environment Agency (UBA), Dessau-Rosslau, Germany
- Calculation of greenhouse gas emissions reduction potential in a practical example in Georgia. Larissa Hatlan Bessa, ICP Ingenieurgesellschaft Prof. Czurda & Partner mbH, Karlsruhe, Germany
- 3. The Global Methane Pledge and the Waste Sector. Anja Schwetje, German Environment Agency (UBA), Dessau-Rosslau, Germany

11:20 - 12:50 BLOCK 2

FINANCING AND ECONOMIC ASPECTS OF WASTE MANAGEMENT

- 4. Banking on Waste Management in the MENA Region. Barbara Ölz, KFW Group, Germany
- 5. Comparative Analysis of Budget Allocation in the Provision of Waste Management in São Paulo and London.
 - Dr Alexandre Pereira (1), Dr Ursula Dias Pere(2), (1) Department of International Development, King's College London, United Kingdom, (2) Public Policy Management, The School of Arts, Sciences and Humanities, University of São Paulo (EACH/USP), Brazil

CONCEPTS AND LEGAL DRIVERS FOR CIRCULAR ECONOMY

6. Circular Economy- Legal Framework and Strategies Germany and Europe. Sylvi Claußnitzer, German RETech Partnership, Berlin, Germany

14:00 - 15:30 BLOCK 3

- 7. A 'reality check' for EPR schemes. Dr. Stephan Löhle, Jana Brinkmann, cyclos GmbH, Osnabrück, Germany
- 8. Organizational practices in the face of institutional changes: the case of the household packaging waste sector. Amine ZIZI and Asma ABIDI LED, Université Paris 8 / CRISEA, UPJV, France
- 9. Transitioning Africa to the Circular Economy, Challenges & Opportunities. *Malcolm Whitehouse, AST Recycling SA (Pty) Itd, Johannesburg, South Africa*

16:00 - 17:30 BLOCK 4

- 10. Decision Support Tool for Evaluating Circular Economy Based Concepts. Dr. Jovana Husemann, Naue GmbH & Co. KG, Espelkamp, Germany
- 11. Role of circular economy in combating freshwater plastic pollution in Eastern Carpathians (Romania). Florin-Constantin MIHAI, Institute of Interdisciplinary Research, Alexandru Ioan Cuza; University of Iasi, Romania

CAPACITY BUILDING

- 12. Developing the Capacity and Knowhow in Solid Waste Management and Circular Economy Through Collaboration of German-MENA Universities. Abdallah Nassour (1), Hani Abu Qdais (2), Uwe Grüschow (3),(1) Universität Rostock, Germany, (2) Jordan University of Science & Technology, Irbid, Jordan, (3) Deutsche
 - Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Amman, Jordan

17:30 - 19:00 BLOCK 5

WORKSHOP THE FUTURE OF CIRCULAR ECONOMY – PART 1: LEGAL AND POLITICAL DRIVERS 13. Impulse Lecture

19:45 DINNER



TUESDAY, 6TH OF JUNE 2023

09:00 - 10:30 BLOCK 6

WASTE COLLECTION

- 14. Source separation regulations and recycling rate of household waste in Helsinki Metropolitan Area, Finland. *Kouvo Petri, Helsinki Region Environmental Services Authority HSY- Lappeenranta University of Technology, Finland*
- 15. Separate source collection in Amman (Jordan). Hala Aladwan(1), Osama Abu Rumman(2), Omar Arabiat(2), Dr. Florian Kölsch (3), (1)GIZ Jordan, (2)Greater Amman Municipality, (3)Dr. Kölsch Geo- und Umwelttechnik, Braunschweig, Germany
- 16. WWF Pilot Project on labor-intensive separate collection and recycling to combat marine litter –Results and lessons learnt. *Dr.-Ing. Wolfgang Pfaff-Simoneit, WPS Consult, Darmstadt, Germany*

11:00 - 12:30 BLOCK 7

- 17. Presentation of RED-PLAST and the ECO-COLLECT Program. Rodrigue NGONDE, General Manager of RED-PLAST Sarl, Coordinator of ECO-COLLECT Programm, Cameroon
- 18. PANEL DISCUSSION: AFRICA'S WASTE SECTOR IN FOCUS

Panelists: Abdallah Nassour, Rostock University, Germany, Idrissa Diatta, Ministry for Environment, Senegal (tbc), Dr. Florian Kölsch, Germany or Dr. Wolfgang Pfaff-Simoneit, Germany, Nao Takeuchi or Nele Kapp, UN-Habitat, Kenya (tbc), Walim Mardassi, ICP Env., Tunesia Preparation and Moderation: Anja Schwetje, German Environment Agency (UBA), Dessau-Rosslau, Germany

SUSTAINABLE WASTE MANAGEMENT IN DEVELOPING COUNTRIES

19. Development of Sustainable Waste Management in 3 Model Regions in Tunisia, (Project : Ensemble Pour une Gestion Intégrée et Durable des Déchets (EGIDD)). Dr.-Ing. Peter Degener, Fraunhofer UMSICHT, Sulzbach-Rosenberg, Germany

14:00 - 15:30 BLOCK 8

20.TouMaLi - Extended sector responsibility for sustainable tourism and circular economy. M.Sc. Julian Wiechert, Universität Rostock, Agrarund Umweltwissenschaftliche Fakultät (AUF), Professur Abfall- und Stoffstromwirtschaft, Germany

COMPOSTING METHODS AND OPERATION

- 21. PSP Operation of Mabwepande composting plant (Tanzania). Matthew Haden (1), Dr. Florian Kölsch (2), (1)Mabwepande Composting Management, (2)Dr. Kölsch Geo- und Umwelttechnik, Braunschweig, Germany
- 22. Decentralised composting methods. *Giuliano Quattrocolo, Compost Systems GmbH, Wels, Austria*

16:00 - 17:30 BLOCK 9

23.MSW composting facility in combination with an AD (anaerobic digestion) plant.

Giuliano Quattrocolo, Compost Systems GmbH, Wels, Austria

EFFECT OF LOCALLY PRODUCED ORGANIC INPUTS (COMPOST AND MANURE) ON CULTIVATION

- 24.Field Experiment for Testing Locally Produced Compost and Manure from Organic Wastes: Enhancing Tolerance of Okra under Irrigation Using Saline Water in Dry Areas. Moh'd K. Al-Rifaee, Nabeel Bani Hani, Uwe Grueschow, Yhay Bani Khalaf & Mohamed Abdulla, National Agricultural Research Center (NARC), Baqa' 19381 Jordan
- 25.Testing the Yield and Quality of Grapes by Using Locally Produced Compost and Manure from Organic Wastes under Rainfall and Irrigation Conditions. *Nabeel Bani Hani, Moh`d K. Al-Rifaee, Uwe Grueschow, Mohamed Abdulla & Yhay Bani Khalaf, National Agricultural Research Center (NARC), Baqa' 19381 Jordan*

17:30 - 19:00 BLOCK 10

WORKSHOP THE FUTURE OF CIRCULAR ECONOMY – PART 2: TECHNOLOGICAL ASPECTS 26. Impulse Lecture



WEDNESDAY, 7TH OF JUNE 2023

09:00 - 10:30 BLOCK 11

LANDFILLS

- 27. Advantages and Inconvenients of waste treatment before landfilling Investment, operation, post-operation. *Pélagie BALL, ICP Ingenieurgesellschaft Prof. Czurda & Partner mbH, Karlsruhe, Germany*
- 28.Dismantling of old landfills and possible application of MBT technologies. *Dr.*Matthias Kuehle-Weidemeier, ICP Ingenieurgesellschaft Prof. Czurda & Partner
 mbH, Karlsruhe, Germany

LANDFILL GAS AND BIOGAS

29. Assessment of landfill biogas production and potential electrical energy recovery in Tunisia. *Prof Moncef ZAIRI, National School of Engineers of Sfax, Tunisia*

11:00 - 12:30 BLOCK 12

30.Feeding Bio-Methane to the grid. How to deal with own Electricity and Process Heat, Alfons Himmelstoss, AEV Energy GmbH, Germany

MATERIAL AND FUEL RECYCLING OF WASTE

- 31. Analysis of biogenic secondary waste for the production of biobased basic chemicals. Kyra Atessa Vogt, M.Eng., Hochschule Darmstadt University of Applied Sciences, Darmstadt
- 32. Adapting the treatment and collection of commercial food waste. *Martin Goupil, General Director, SÉMECS, Varennes, Québec, Canada*

14:00 - 15:30 BLOCK 13

- 33.MRF versus MBT system and cost comparison based on the example for Batumi, Georgia. Dr. Ludwig Streff, Larissa Bessa, ICP Ingenieurgesellschaft Prof. Czurda und Partner mbH, Karlsruhe, Germany
- 34.RDF in Jordan and the Middle East. Randa Elgendy(1), Dr. Hisham Sharif(1), Eklavyya Popat(2), Dr. Florian Kölsch(3),(1) ECARU, (2) CDM Smith Europe, (3) Dr. Kölsch Geo- und Umwelttechnik, Braunschweig, Germany
- 35.Eggersmann FUEL, an effective and sustainable solution to achieve 80% landfill diversion, discussed in view of conditions in North Africa with a special focus on Egypt. Sara Dallasta, Sales Manager, Eggersmann GmbH, Africa and Middle East

16:00 - 17:30 BLOCK 14

36.Fire Prevention in the Storage and Processing of Recyclables through Intelligent IR Monitoring of Landfills, Indoor and Outdoor Storage Facilities and Recyclables Bunkers. Albert Orglmeister, ORGLMEISTER Infrarot-Systeme GmbH & Co. KG, Walluf, Germany

WASTE TO ENERGY

- 37. Depopulation and waste-to-energy scenarios of combustible waste in Japan.

 Kosuke Kawai, Material Cycles Division, National Institute for Environmental

 Studies, Tsukuba, Japan
- 38.Conversion technologies -comparison of waste to energy technologies. *Dr. Neil D. Williams, Benjamin M. Williams, and Gen. Joe Ballard, US Army, ret., Mobile Environmental Services, MEP Inc., USA/VitalMEP Inc., Canada.*

17:30 - 19:00 BLOCK 15

WORKSHOP THE FUTURE OF CIRCULAR ECONOMY – PART 3: CLOSING THE LOOP 39.Impulse Lecture

End of the Event



REGISTRATION:

Registration is done online at www.waste-to-resources.eu

Registration fees	€ net
MBT-Introductory Se <mark>minar – 31 May</mark> 2023	290.00
Congress card, regular, 3-day-ticket from 5 – 7 June 2023, Early Bird price for registration until 20 March	500.00
Congress card, regular, 3-day-ticket from 5 – 7 June 2023, regular price	785.00
Congress card, special price, 3-day-ticket 5 – 7 June 2023 Only for participants from: Africa, Asia, Latin America. Except: Japan, Korea, Russia, Singapore, Saudi Arabia, UAE, Kathar, Israel, Early Bird price for registration until 20 March	400.00
Congress card, special price, 3-day-ticket 5 – 7 June 2023 Only for participants from: Africa, Asia, Latin America. Except: Japan, Korea, Russia, Singapore, Saudi Arabia, UAE, Kathar, Israel Regular price	680.00
Exhibition fee incl. 1 attendant: (support persons have full conference access)	2200.00
Exhibition fee incl.2 attendants: (attendants have full conference access)	2700.00
Exhibition fee incl. 3 attendants: (attendants have full conference access)	3200.00
Exhibition fee incl. 4 attendants: (attendants have full conference access)	3700.00

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