

WASTE-TO-RESOURCES

2023

10TH

INTERNATIONAL SYMPOSIUM CIRCULAR ECONOMY, MBT & MRF



5TH-7TH JUNE

RAMADA PLAZA HOTEL,
GAMMARTH,
TUNIS, TUNISIA



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CONFERENCE AND EXHIBITION

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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
 - Combined anaerobic-aerobic technologies
- **MBT related technologies**
- **Quality supervision of the major solid MBT output fractions and MBT process control**
- **Taking representative samples, analytics, which parameters make sense?**
- **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**

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*
2. 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 Development Bank 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*

MONDAY, 5TH OF JUNE 2023

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) Ltd, 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. 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*
15. 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*
16. Presentation of RED-PLAST and the ECO-COLLECT Program. *Rodrigue NGONDE, General Manager of RED-PLAST Sarl, Coordinator of ECO-COLLECT Programm, Cameroon*

11:00 – 12:30 BLOCK 7

17. 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., Tunisia Preparation and Moderation: Anja Schwetje, German Environment Agency (UBA), Dessau-Rosslau, Germany

SUSTAINABLE WASTE MANAGEMENT IN DEVELOPING COUNTRIES

18. 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*

TUESDAY, 6TH OF JUNE 2023

14:00 – 15:30 BLOCK 8

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

COMPOSTING METHODS AND OPERATION

20. 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*

21. Decentralised composting methods. *Sarah Kukrai, Compost Systems GmbH, Wels, Austria*

16:00 – 17:30 BLOCK 9

22. MSW composting facility in combination with an AD (anaerobic digestion) plant. *Sarah Kukrai Compost Systems GmbH, Wels, Austria*

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

23. 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-Rifaae, Nabeel Bani Hani, Uwe Grueschow, Yhay Bani Khalaf & Mohamed Abdulla, National Agricultural Research Center (NARC), Baqa' 19381 Jordan*

24. 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-Rifaae, 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

25. Impulse Lecture

19:45 DINNER

WEDNESDAY, 7TH OF JUNE 2023

09:00 – 10:30 BLOCK 11

LANDFILLS

26. Advantages and Inconvenients of waste treatment before landfilling – Investment, operation, post-operation. *Pélagie BALL, ICP Ingenieurgesellschaft Prof. Czurda & Partner mbH, Karlsruhe, Germany*
27. 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

28. Assessment of landfill biogas production and potential electrical energy recovery in Tunisia. *Dr. Sana Abid, National School of Engineers of Sfax, Tunisia*

11:00 – 12:30 BLOCK 12

MATERIAL AND FUEL RECYCLING OF WASTE

29. Sustainable Solid Waste Management: a virtuous journey between Waste Sector and Cement Industry. Eng. *Lawyer Christiane Dias Pereira (1), Dr. Hubert Baier (2), (1) TU Braunschweig, Braunschweig, Germany , (2) WhiteLabel-Tandemprojects eU, Münster, Germany.*
30. Analysis of biogenic secondary waste for the production of biobased basic chemicals. *Kyra Atessa Vogt, Dr. Iris Steinberg, Faculty of Civil and Environmental Engineering – University of Applied Sciences, Darmstadt, Germany*
31. Adapting the treatment and collection of commercial food waste. *Martin Goupil, General Director, SÉMECS, Varennes, Québec, Canada*

WEDNESDAY, 7TH OF JUNE 2023

14:00 – 15:30 BLOCK 13

32. 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*
33. 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*
34. 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

35. 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

36. Depopulation and waste-to-energy scenarios of combustible waste in Japan. *Kosuke Kawai, Material Cycles Division, National Institute for Environmental Studies, Tsukuba, Japan*
37. 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

38. Impulse Lecture

End of the Event

REGISTRATION:

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

| Registration fees | € net |
|---|----------------|
| MBT-Introductory Seminar – 31 May 2023 | 290.00 |
| Congress card, regular, 3-day-ticket from 5 – 7 June 2023, Early Bird price for registration until 6 April | 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 6 April | 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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VENUE AND ACCOMODATION:

Venue : Ramada Plaza Tunis, Les Côtes de Carthages-
Gammarth, La Marsa, Tunisia

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and booking code **Ramada062023**

Single Room 220 TND per night, Double Room 260 TND per night

NEAREST AIRPORT:

Tunis-Carthage International Airport (approx. 18km away)

Organizer of Seminar and conference:

ICP Ingenieurgesellschaft Prof. Czurda und Partner mbH; Auf
der Breit 11, 76227 Karlsruhe, Germany

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