

MatER & Final Sinks Meeting 2021 | 7-8-9 June

Recovery & Final Sinks for an Effective Waste Management

Virtual Event

Monday, June 7th 2021

MORNING | PLENARY SESSION

Session 1: Waste Management

Chairman: *prof. Stefano Consonni*

9:15 **Welcoming Addresses & Introduction**

Stefano Consonni - MatER/Politecnico di Milano

9:30 **KEYNOTE LECTURE: How to measure the quality of materials management and recycling?**

Helmut Rechberger - TU Wien, Austria

10:00 Waste Management in Emilia-Romagna Region

Giuseppe Bortone, ARPAE Emilia Romagna

10:20 Waste Management in Lombardia Region

Elisabetta Confalonieri, Regione Lombardia

10:40 Waste Management in Piemonte Region

Paola Molina, Regione Piemonte

11:00 **Break**

11:20 The increasing amount of bioplastics rises challenges in the management of organic municipal solid wastes through biological systems

Mirko Cucina - Un. Milano

11:45 The role of bioplastics in packaging and their impact in the waste management system

Giovanni Gadaleta - Politecnico di Bari

12:10 Equivalent inhabitants: a new parameter in the waste sector

Chiara Magrini - Un. Bologna

12:35 How the environmental sustainability of WEEE plastics management can be enhanced: an LCA study

Giovanni F. Cardamone - Un. Campania

13:00 **Break**

AFTERNOON | PARALLEL SESSIONS

Session 2.A: Biowaste & Biogas

Chairman: *Prof. Mario Grosso*

14:30 **KEYNOTE LECTURE - Anaerobic digestion as a tool for circular bioeconomy**

David Bolzonella, Un. Verona

15:00 Biowaste mass balance analysis and future prospects in Campania region

Alberto Grosso - ARPA Campania

15:25 Bioenergy from green waste through anaerobic digestion: substrate, biogas, and digestate characterisation at lab-scale

Adele Folino - Un. Urbino Carlo Bo

15:50 **Flash Presentation Poster#1** - Environmental evaluation of hydrothermal carbonization applied to the organic fraction mechanically separated from the residual MSW

Lidia Lombardi - Un. Niccolò Cusano

16:00 **Break**

16:20 Evaluation of the biochemical methane potential of intermediate and final outputs from biostabilisation MBT

Fabio Tatano - DiSPeA, Un. Urbino Carlo Bo

16:45 Dry anaerobic digestion for biopolymers recovery from organic fraction of municipal solid waste

Elena Rossi - DESTEC - Un. Pisa

17:10 Pectin green extraction from citrus waste: preparation, characterization and future applications of pectin biocomposites

Domenico Zannini - IPCB-CNR

Session 2.B: Innovation & Circular Economy

Chairman: *Prof. Lucia Rigamonti*

14:30 **KEYNOTE LECTURE - New strategies, trends and financing models for Circular Economy**

Daniela Sani, Art-ER

15:00 Waste logistics optimisation in practice: bringing industry 4.0 paradigms into operations management

Matteo Pozzi - Optit srl

15:25 Environmental impact of refrigerant during maintenance and disposal through Montreal Protocol and its amendments in Taiwan

Fei Chiao Yang - National Taiwan University

15:50 **Flash Presentation Poster#2** - Mapping industrial waste recyclability: a circular economy approach

Qudsia Kanwal - Tsinghua University, China

16:00 **Break**

16:20 Development of innovative circular cementitious materials containing waste

Alice Sirico - Un. Parma

16:45 Social Cost Benefit Analysis of Concrete Waste Recycling in Vietnam

Ngoc Han Hoang - National Institute for Environmental Studies, Vietnam

17:10 An autonomous and integrated evaluation framework for retrofitting resource recovery facilities

Rui-An Lin - National Taiwan University

17:35

Final Discussion & First Day Closing

The MatER & Final Sinks Meeting 2021 is SPONSORED by:



Media Partner:



With the support of:



MatER & Final Sinks Meeting 2021 | 7-8-9 June

Recovery & Final Sinks for an Effective Waste Management

Virtual Event

Tuesday, June 8th 2021

MORNING | PLENARY SESSION

Session 3: Material Recovery

Chairman: Prof. Stefano Cernuschi

<p>9:30 KEYNOTE LECTURE: Comparing the costs and benefits of virgin and urban mining</p> <p>10:00 Case studies: Integrated residual municipal waste treatment combining material from waste, organic recovery and energy from waste</p> <p>10:25 Inclusion of the quality of recovered materials in waste management LCA studies</p> <p>10:50 Flash Presentation Poster#3 - Resilience reinforcement and circular transition of cities by role transformation of water system hotspots with EDI technology</p> <p>11:00 Break</p> <p>11:20 Quality constraints for steel scrap recycling- A detailed analysis of scrap quantities and qualities arising the European Union</p> <p>11:45 The environmental performance of enhanced metal recovery from dry municipal solid waste incineration bottom ash</p> <p>12:10 Salt recovery potential of calcium-based APCr from MSWI</p> <p>12:35 Lions2Life: from waste batteries to sustainable distributed energy storage</p> <p>13:00 Break</p>	<p>Xianlai Zeng - Tsinghua University, China</p> <p>Christophe Cord'homme - CNIM, France</p> <p>Lucia Rigamonti - Politecnico di Milano</p> <p>Li-Heng Chen - National Taiwan University</p> <p>Johann Fellner - TU Wien, Austria</p> <p>Melanie Haupt - ETH Zurich, Switzerland</p> <p>Ekaterina Korotenko - ICPF, Czech Republic</p> <p>Filippo Stringa - ERION COMPLIANCE ORGANIZATION S.C.A R.L.</p>
---	--

AFTERNOON | PLENARY SESSION

Session 4: Waste to Energy

Chairman: Prof. Federico Viganò

<p>14:00 KEYNOTE LECTURE: Waste-to-Energy roadmap towards the European Green Deal</p> <p>14:30 An industrial symbiosis – based solution to face integrated management of waste and wastewater in large Mediterranean cities</p> <p>14:55 From Waste-to-Energy to Waste-to-Gas – a possible new scenario in the energy recovery from municipal solid waste</p> <p>15:20 Comparing alternative options for residual municipal solid waste recovery</p> <p>15:45 Flash Presentation Poster#4 - Analysis of working principles of modern controllers in combustion optimisation on forward moving reciprocating grates</p> <p>15:55 Break</p> <p>16:15 The effect of syngas steam concentration on the tar removal by activated carbons</p> <p>16:40 Incineration bottom ash potential and utilization in the Czech Republic</p> <p>17:05 ESSEVA study by SVDU – Mercury behaviour, monitoring and treatment in Energy-from-Waste facilities</p> <p>17:30 Final Discussion & Second Day Closing</p>	<p>Ella Stengler - Managing Director of CEWEP</p> <p>Giuseppe Mancini - Un. Catania</p> <p>Antonio Castorini - TBF+Partner AG</p> <p>Lidia Lombardi - Un. Niccolò Cusano</p> <p>Damir Zibrat - Technikgruppe, Austria</p> <p>Carmine Boccia - Un. Campania</p> <p>Michal Šyc - ICPF, Czech Republic</p> <p>Hubert de Chefdebien - CNIM, France</p>
---	--

Wednesday, June 9th 2021

VIRTUAL TECHNICAL TOUR

Chairman: Prof. Mario Grosso

<p>09:00 Virtual room opening</p> <p>09:00 Virtual Tour WtE Parma</p> <p>10:00 Unconventional Measurement</p> <p>11:00 Break</p> <p>11:30 Modern plastic film sorting in the recycling industry</p> <p>12:00 Gruppo CAP Presentation</p> <p>13:00 Meeting Closing</p>	<p>Stefania Sabatino - Iren Ambiente</p> <p>Gilles Campagnola - Envea</p> <p>Pietro Navarotto - Stadler</p> <p>Andrea Lanuzza - Gruppo CAP</p>
---	--

The MatER & Final Sinks Meeting 2021 is SPONSORED by:



Media Partner:



With the support of:

