

MatER Meeting 2019 | 27-28-29 May

Innovations & Technologies in Waste Recovery

Piacenza Campus - Politecnico di Milano: via Scalabrini 76, Piacenza, Italy

Monday, May 27th 2019

MORNING | PLENARY SESSION - AULA A

8:15 Participants Registration

Session 1: Strategies, Perceptions & Economics of Waste Management

9:15 Welcoming Addresses & Introduction

Stefano Consonni - MatER/Politecnico di Milano

9:30 I KEYNOTE LECTURE

Alessandro Bratti - Direzione ISPRA, Roma

10:00 Urban waste management in Emilia-Romagna region: economical and technical evaluation in a Life Cycle Perspective

Chiara Magrini - Un. Bologna

10:25 Material recovery from MSW: actual recovery rates and environmental benefits

Lidia Lombardi - Un. Niccolò Cusano, Roma

10:50

Coffee break - Poster Session

11:20 II KEYNOTE LECTURE - The importance of communication in waste management

Giovanni De Feo - Un. Salerno

11:50 Thoughts about communication: successful development of international waste management

Hedwig Vielreicher - WTERT Germany GmbH

12:15 Economic regulation: defining an efficient benchmark of the gate fees of the treatment plants

Anna Moretto - Bacino Padova 2

12:40

LUNCH

AFTERNOON | PARALLEL SESSIONS

Session 2.A: Plastics & Polymers Recovery

14:20 Introduction & Focus on Plastics Recovery

Antonio Protopapa - R&D COREPLA

14:40 Plastics and microplastics: an environmental and health problem, but above all a socio-cultural issue

Federica Tommasi - Istituto Superiore Sanità

15:00 POLYCE: Circular economy solutions for the recycling of plastics from WEEE

Luca Campadello - ECODOM, Milano

15:20 Modeling waste thermal treatment

Tiziano Faravelli - Politecnico di Milano

15:40 Recycled polymers in bituminous membranes: opportunities of circular economy for End-of-Life Tires

Camillo Cardelli - MOPI srl, Pisa

Session 2.B: Biogas & Biomethane

14:20 Introduction & Focus on biogas valorization

Manuele Gatti, LEAP/Politecnico di Milano

14:40 Biogas-To-Biomethane: a review of upgrading techniques from a Life Cycle Perspective

Giovanni Cardamone - Un. Campania

15:00 "Power to Gas": Process monitoring of hydrogenotrophic methanogenesis to biomethane production

Daniela Bona - Fondazione E. Mach, Trento

15:20 Biomethane production from the MSW organic fraction with immission into the local gas network

Monica Argilli - AIMAG spa, Modena

15:40 Alternative scenarios of energy recovery from organic fraction of residual municipal waste in the Marche region

Martina Di Addario - Un. Urbino

16:00

Coffee break - Poster Session

Session 2.C: Sludges & Sewage Recovery

16:30 Introduction & Focus on Sludge treatment

Roberto Canziani - DICA, Politecnico di Milano

16:50 Zürich mono-Incineration plant: Operation experiences

Antonio Castorini - TBF, Switzerland

17:10 High pressure and medium temperature sludge treatment

Fabio Cella - Agrosistemi, Piacenza

17:30 Valorization of landfill leachate through ammonium sulphate production

Gioia Garavini - EcoInnovazione Srl (ENEA)

Session 2.D: Innovative Processes & Optimization

16:30 Introduction & Focus on innovative approach and experimental investigations in landfills

Marco J. Castaldi, City College NYC - USA

16:50 iWaste: Evolution or revolution of automation for waste treatment

Cord'Homme - CNIM, France

17:10 Recent advances on waste logistics optimisation: from strategic design to short-term operations planning

Matteo Pozzi - OPTIT, Cesena

17:30 Optimization of multi-stage air pollution control systems in WtE plants via process data analysis and test runs

Alessandro Dal Pozzo - Un. Bologna

17:50

Final Discussion & First Day Closing

EVENING | SOCIAL EVENT

19:15 Guided Tour TBC

20:30 Aperitivo & GALA DINNER @ Basilica Sant' Agostino, Piacenza

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Innovations & Technologies in Waste Recovery

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Tuesday May 28th 2019

MORNING | AULA A

Session 3: Energy Recovery

9:30 KEYNOTE LECTURE

10:00 The role of Waste-to-Energy in the circular economy

Robert Van Kessel - PREWIN, Netherlands

10:25 The unsaid of the waste incineration BREF BAT-Conclusions

Lorenzo Ceccherini - CEWEP, Brussels

10:50 Mercury emissions in the Turin WtE plant: Management experiences

Hubert de Chefdebien - CNIM, France

Giovanni Corti - TRM (IREN), Torino

11:15

Coffee break - Poster Session

11:45 The actual impact of Waste-to-Energy plants on air quality: Case study for the Desio plant

Alberto Cambiagli - BEA, Desio (MB)

12:10 Hot syngas cleaning performances of activated carbons of different size

Francesco Parrillo - Un. Campania

12:35

LUNCH

AFTERNOON | AULA A

Session 4: Material Recovery

14:30 KEYNOTE LECTURE: Material recovery, a priority for Europe: the contribution of ARPAE of Emilia-Romagna

Giuseppe Bortone - Direzione ARPAE

15:00 Achievements and future challenges of the Italian organic waste recycling sector

Alberto Confalonieri - CIC, Roma

15:25 Assessing the performances of paper vs. bioplastic bags for food waste delivered to anaerobic digestion

Mario Grosso - DICA, Politecnico di Milano

15:50

Coffee break - Poster Session

16:20 SCOOTER - Fruit and vegetable wastes: opportunity in their reuse and energetic valorization

Marco Trevisan - Un. Cattolica, Piacenza

16:45 Microalgae production from digestate of dry anaerobic digestion of organic waste sequestering CO₂ from air

Davide Papurello - Politecnico di Torino

17:10 Natural and accelerated carbonation treatments for MSW incineration bottom ashes inertization

Caterina Caviglia - Un. Torino

17:35

Final Discussion & Meeting Closing

POSTER Session

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| #1 | Municipal waste management tools for the circular economy: an empirical study on the citizens' perception on separate collection and urban collection centers | <i>Mattia Belcastro - Un. La Sapienza, Roma</i> |
| #2 | Economic regulation of waste management sector for WEEE, batteries and packaging in Europe | <i>Marinella Favot - Un. Udine</i> |
| #3 | BMP evaluation of residual organic fraction and MBT organic outputs | <i>Fabio Tatàno - Un. Urbino</i> |
| #4 | Environmental and economic evaluation of different biogas upgrading technologies | <i>Lidia Lombardi - Un. Niccolò Cusano, Roma</i> |
| #5 | Waste management statistics and methodologies in the United States and the European Union | <i>Demetra Tsiamis - City College NYC, USA</i> |
| #6 | Ruths flat pressure wall: a new and innovative type of water-cooled wall | <i>Luigi Bagnoli - Ruths, Genova</i> |
| #7 | Use of EAF steel slag as aggregate for concrete production: environmental and technical assessment | <i>Alessandra Diotti - Un. Brescia</i> |
| #8 | Waste fat material as PCM for thermal storage system | <i>Davide Papurello - Politecnico di Torino</i> |
| #9 | Biocatalytic aerobic digestion: opportunities of circular economy for biomasses | <i>Camillo Cardelli - MOPI srl, Pisa</i> |
| #10 | Next generation of combustion controllers for forward moving reciprocating grates | <i>Damir Zibrat - Technikgruppe, Austria</i> |
| #11 | Fixed and fluidized bed microwave exposure of sargassum seaweeds to optimized extraction of alginate for sustainable packaging and mulching | <i>Gabriella Santagata - IPCB-CNR, Pozzuoli</i> |
| #12 | Exergy-economic analysis of repowered Waste-to-Energy plants | <i>Maria L. Carneiro - PUC Rio de Janeiro, Brazil</i> |

Wednesday May 29th 2019

TECHNICAL VISIT

08:15 Meeting point & Departure @ Palazzo Farnese BUS stop, Piacenza

10:30 HERAmbiente Composting & Biomethane production plant VISIT @ Sant'Agata Bolognese (BO)

13:30 HERAmbiente Waste to Energy plant VISIT @ MODENA

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