



National
Technical
University
of Athens



GLOBAL
WtERT
COUNCIL

KOS2026

24-28 JUNE

KOS, GREECE

kos2026.uest.gr

13th International Conference

on

Sustainable Solid Waste
Management

24-28 JUNE

Wednesday, 24 June 2026

All times are in Greek Time

08.00-9.15

Registration

ROOM 1

Welcome Speeches

9.15-9.45

Welcome Speeches

9.45-11.15

Keynote Speakers

Chair: M. Loizidou, K. Moustakas, D. Malamis

Arnoldas Milukas, European Research Executive Agency

European Commission EU Research and Innovation: New Funding Opportunities for the Circular Economy

Nicolas Abatzoglou, Université de Sherbrooke

Conversion of waste plastic to valuable nanocarbons: A new technology successfully crosses the 'Death Valley'

Debora Fino, Politecnico di Torino

From lab innovation to circular industry: engineering the path to absolute sustainability

Katia Lasaridi, Harokopio University

Beyond the Bin: Understanding and Changing Behaviors to Prevent Food Waste

Irini Angelidaki, Danish Technical University

Microbial Consortia Powering the Green Biotech Revolution

11.15-11.45



Coffee Break

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ROOM 1
SESSION I

MSW management I
Experience of local authorities in waste management
Chair: M. Loizidou, K. Moustakas

11.45-12.00	M. Grafakos, General Secretary for the Coordination of Waste Management Solid waste management in Greece
12.00-12.15	C. Gamvroudis From Organic Waste to Circular Value: An Innovative Home Composting Program for the South Aegean Region
12.15-12.30	J. Constantinidou LIFE-IP CYzero WASTE: Intelligent monitoring and efficient waste reduction in Cyprus Island
12.30-12.45	M. Geranis Circular Economy: From theory to practice
12.45-13.00	N. Aggelopoulos Waste management in Peloponnese Region
13.00-13.15	P. Kafasis Waste Management in Western Macedonia
13.15-13.30	I. Félix, L. Rocha Driving Circular Economy Through Effective Source Separation: Insights from LIPOR's STSWM Initiative
13.30-13.45	G. Iliopoulos, K. Moustakas, C. Psomopoulos Circular Cities Forum Greece: Catalyzing Urban Transformation Through Circular Economy
13.45-14.00	J. Garamazi Ilia MBT: Seven Years of Experience under a PPP Scheme – Performance and Future Upgrade Pathways
14.00-14.15	P. Llanquileo Melgarejo, J.-P. Doussoulin Development of Indicators for Assessing the Contribution of Waste Management to Air Quality and Climate Change in Latin America
14.15-14.30	K.G. Sakellariou, M. Zhurka, N.K. Ntavos, E. Papista, I.A. Vasiliadou, Z. Frontistis, P. Kafasis Circularity in residual streams processing

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14.30-14.45	F.K. Athanasopoulou Data-Driven Forecasting of Economic and Logistical Impacts for Regional Waste Management: Integrating Real-World Operational Data with GIS Routing Optimization for Peloponnese FODSA (Greece)
14.45-15.00	Lunch Break

ROOM 2 SESSION II

FERTICOVERY Session: Best Available Techniques to recover or recycle fertilising products from secondary raw materials Chair: A. Milukas, S. Rocca, M. Vis, M. Kyriazi

The logo for FertiCovery, featuring the word "FertiCovery" in a white, sans-serif font on a dark teal background. The letter "o" in "Covery" is replaced by a circular icon containing a globe.

11.45-12.00	A. Milukas, S. Rocca Welcome & Introduction
12.00-12.15	M. Vis General Presentation of FERTICOVERY Project
12.15-12.30	M. Kyriazi, St. Klempetsani, K. Moustakas, M. Loizidou Short presentation of the selected 25 cases studies from the Ferticovery consortium
12.30-12.45	K. Chojnacka Digital Fertiliser Product Passport: Standards, Data Architecture and Compliance
12.45-12.55	M. Mironiuk, G. Izydorczyk, D. Skrzypczak, K. Chojnacka Comprehensive analysis of the composition of bio-based fertilisers - a study of 25 cases
12.55-13.05	G. Izydorczyk, R. Taf, D. Skrzypczak, M. Mironiuk, K. Chojnacka Microbiological aspects of bio-based fertilisers: risks, environmental safety, and potential impact on soil

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| 13.05-13.15 | D. Skrzypczak, G. Izydorczyk, M. Mironiuk, K. Chojnacka
Germination tests as a tool for assessing the impact of bio-based fertilisers on early plant development |
| 13.15-14.00 | Round table: Bio-based Fertilisers Value Chains, challenges and Perspectives |
| 14.00-14.15 | S. Jarosz, A. Libault, M. H. Jijakli
Bioponics: Valorisation of poultry manure and ash sludge through aerobic treatment for hydroponic Fertilization |
| 14.15-14.30 | J. Rosik, M. Hejna
From waste to fertilizer: chemical transformation and agronomic potential of chicken manure-derived hydrochars and biochars |
| 14.30-14.45 | H. Kominko, K. Gorazda, B. Tarko, K. Sawska, Z. Wzorek
From waste to resource: the possibility of using waste from wastewater treatment plants in fertilizer industry |

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ROOM 3
SESSION III

**FUELGAE Session: Closing the Carbon Loop:
Converting CO₂ and Waste Streams into Scalable,
Zero Waste Advanced Fuels**
**Chair: S. Morales de la Rosa, G. Penloglou,
F. Pileidis**



11.45-12.00	S. Morales de la Rosa Introduction - Guidelines, Brief Presentation about the FUELGAE project: Innovative sustainable on-site technologies for using microalgae to capture CO ₂ and produce advanced biofuels
12.00-12.15	G. Penloglou, A. Pavlou Advanced closed photobioreactor configurations for enabling scalable microalgae conversion of industrial CO ₂ into biofuel precursors
12.15-12.30	S. Hidalgo-Ruiz, J.M. Campos-Martin, S. Morales de la Rosa Development of microalgae treatment using hydrated inorganic salts for the production of advanced liquid fuels
12.30-12.45	N. Spegazzini, J. Laine, A. Mäyrä, A. Pavlou, G. Penloglou On-line sensor validation for microalgae bioprocess monitoring: time-gated Raman spectroscopy and automated microscopy at pilot scale
12.45-13.00	E. Bekou, J. Enriquez, C. Paraled, A. Iranzo, J. Domingo CFD-Derived Digital Twin for Predictive Operation of Photobioreactors: Coupling Hydrodynamics, Mass Transfer and Algal Growth
13.00-13.15	A. Rodenas; C. Bartolome Environmental Life Cycle Assessment of Advanced Biofuel production from Microalgae
13.15-13.30	D. Malamis, K.Passadis, S. Mai, E. M. Barampouti, K. Moustakas CRONUS: Capture and Reuse Of biogenic gases for Negative-emission - sustainable biofuels
13.30-13.45	M. Ohenoja, K. Tiirö, J. Tomperi, M. Ruusunen Optimisation of microalgae-derived aviation biofuel production chain: Short-cut modelling

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13.45-14.00	Y. K. Wedmark ALGAESOL – Sustainable aviation and shipping fuels from microalgae and direct solar BES technologies
14.00-14.15	Panel Discussion: Cloring Remarks

ROOM 4 SESSION IV

Construction & Demolition Waste Chair: J. L. Hao, E. Barampouti, A.P. Galvin, C. Gutiérrez Palacios

11.45-12.00	A. Korba, L. Lekawska-Andrinopoulou, E. Dimopoulou, K. Chatziioannou, G. Tsimiklis, A. Amditis Design of a Scenario-Based Material Flow Analysis Tool for Optimised Construction and Demolition Wood Waste Management
12.00-12.15	C. Alp Arslan, B. Cement, Tulay Caglayan Ozlu, B. Canli, T. Betopan, E. Gulcan From Waste to Value: Lessons from the United Circles Ankara Hub on Construction and Demolition Waste, Industrial Symbiosis, Digital Traceability, Governance Innovation, Social Transformation and First-of-a-Kind (FOAK) Technology Innovations
12.15-12.30	E. M. Barampouti, S. Mai, F. Kourmousis, A. Argyriadou, K. Moustakas Greek circularity Hub for the management of construction and demolition waste in the Region of Eastern Macedonia & Thrace in Greece
12.30-12.45	R.G. Gade SmartBin: An Internet of Things-Based Approach for Real-time Construction and Demolition Waste Assessment
12.45-13.00	W. Zhao, J.L. Hao A dynamic model to track environmental impacts of residential construction waste toward a low-carbon future by 2050

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- 13.00-13.15 K. Manabe, T. Shimaoka
Lessons Learned from Disaster Waste Management Following the 2024 Noto Peninsula Earthquake and Preparedness for Future Large-Scale Disasters
- 13.15-13.30 M. Georgiades, P. Pigiotis, Th. Polydorou, M. F. Petrou
Prospective life cycle assessment of half-warm mix asphalt incorporating reclaimed asphalt pavement and cement kiln bypass dust
- 13.30-13.45 C. Gutiérrez Palacios, C. Javier Mendoza Escobedo, J. López Roman, F. Hernández Díaz
Performance of structural concretes, class 2, manufactured with recycled aggregates for use in housing construction in the metropolitan area of the Valley of Mexico
- 13.45-14.00 G. Arab
Integrated Waste Management Strategies for Giga Projects
- 14.00-14.15 G. Montesano, P. Stabile, A. Bisciotti, G. Bianchini, F. Radica, M. Menna, M. Ciulla, L. Terribili, A. Casarin, G. M. Salani, P. Di Profio, M. De Vincentis, S. Biondi, G. Vessia, E. Paris, G. Cruciani, G. Iezzi
Crystal-chemical variations of CDW as a function of grain-size via XRPD, XRF and ATR FTIR characterisations: towards an effective reuse
- 14.15-14.30 M.C. Samolada, Th. Stamatis
Drawbacks for Sustainable Management of Excavation & Demolition Waste
- 14.30-14.45 F. Radica, G. Montesano, G. Bianchini, G.M. Salani, S. Di Giacomo, P. Stabile, M. Menna, I. Capasso, P. Di Profio, R. Piccioni, V. Bernardini, G. Iezzi
RCA (recycled concrete aggregate) through time: a textural, mineralogical, chemical, leachate and vibrational spectroscopic study
- 14.45-15.00 A. P. Galvín, N. Briceño, J. Aguilar, R. Linares, A. López-Uceda
Influence of Origin and Production Systems on the Technical and Environmental Performance of Recycled Aggregates from CDW
- 15.00-15.15 K. Lee, M. Oh, J. Hwang, S. Sohn, B.K. Seo
Trends in the Development of Concrete Waste Recycling Using Advanced Separation Technology in the Nuclear Field

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ROOM 1
SESSION V

Bioprocesses, Biorefineries in waste management
Chair: C.A. Cardona Alzate, N. Abatzoglou, F. Battista

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| 15.00-15.15 | M. Papageorgiou, E. Nanaki, S. Kiartzis, D. Kiriazidis, V. Simitsis, D. Viesi
Embracing Energy Management Flexibility in Critical Infrastructures: An Industrial Perspective |
| 15.15-15.30 | A. Dimitriadis, D. Liakos, N. Grammatikopoulos, M. A. Pilitzidis, S. Bezergianni
Producing Advanced Aviation and Maritime Biofuels in Existing Refineries Utilizing Solid Wastes: The ABATE Vision |
| 15.30-15.45 | A. A. Duarte Pinheiro, F. Rizzioli, W. R. Moreira Leite, F. Battista
Exploring different operational conditions for the optimization of chain elongation from Organic Fraction Municipal Solid Wastes |
| 15.45-16.00 | J. Hogie, E. Selmurzaeva, S. De Meester
Energy-efficient purification of fermentation-derived volatile fatty acids using a novel multistep process integrated with mechanical vapor recompression |
| 16.00-16.15 | N. Hernandez-Alcayaga, G. Campo, A. Cerutti, M. Zanetti, B. Ruffino
Impact on nitrogen removal and EPS characterization of a salinity stress in membrane aerated biofilm reactors |
| 16.15-16.30 | I. Malique Chowdhury, M. José Negro, J. Contreras García, J. L. Fernández-Rojo, A. D. Moreno
Effective bioprocessing of textile waste for simultaneous production of microbial oil and carotenoids by <i>Rhodospiridium toruloides</i> |
| 16.30-16.45 | B. Muñoz-Madariaga, E.M. Rojo, M. Molinos-Senante, R. Irusta-Mata, S. Bolado
Techno-Economic Evaluation of Biorefinery for Valorising Microalgae–Bacteria Biomass from Piggery Wastewater |
| 16.45-17.00 | A. Pavlou, A. Tzika, A. Charalampous, O. Kotrotsiou, K. Kalogiannis, G. Penloglou
Intensification of polysaccharide and lipid production via microalgae cultivation under CO ₂ -rich industrial conditions |
| 17.00-17.15 | D. M. X. Sanai, N. L. Sabino, K. A. S. Souza, K. J. Dussán, D. D. V. Silva
Efficient Conversion of Coffee Waste Hydrolysate to Lactic Acid by Lactic Acid Bacteria |

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| 17.15-17.30 | G. Zampieri, L. Francescato, M. Mantovani, M.C. Valerin, E. Brivio Sforza, R. Reinhardt, M. Berden-Zrimec, E.M. Barampouti, S. Campanaro, S. Mai, E. Ficara, D. Malamis, L. Treu
Decoding carbon and nitrogen dependencies in an algae-bacteria system for the valorisation of waste CO ₂ and digestate |
| 17.30-17.45 | J. Dadhwal, D. Bhagawan
Valorisation of Allium cepa waste for pectin extraction: A sustainable biorefinery approach |
| 17.45-18.00 | M. M. de-Souza-Ribeiro, A. Casas González, L. Velasco-Muñoz, S. Rodríguez-Rojo, E. Alonso
Comprehensive recovery of shrimp shell waste (<i>Litopenaeus vannamei</i>) using ultra-fast subcritical water technology: Towards a zero-waste biorefinery |
| 18.00-18.15 | An. Satpathy, K. Mukherjee, V. Kumar Nigam
Valorization of Pectin-Rich Fruit Waste for Optimized Pectinase Production by Thermophilic <i>Bacillus siamensis</i> (BIOSMNF45) |
| 18.15-18.30 | Linyang Li, Junjun Wu, Ao Xia, Xun Zhu, Qiang Liao
Depolymerization of Lignocellulosic Biomass by Contact-Electro-Catalysis |
| 18.30-18.45 | G. Torres, M.P. Díaz, J.A. Dávila, C.A. Cardona
Cold Extraction of Bioactive Compounds from <i>Eucalyptus globulus</i> Leaves: A Sustainable Approach for Biomass Valorization |
| 18.45-19.00 | A. Priyadarshini, Brijesh K. Tiwari, S. Duffy, J. Uprichard, G. Rajauria
Assessing the feasibility of a waste to protein biorefinery system through stakeholder engagement |

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ROOM 2

**SESSION VI
PART A**

**HORIZON EUROPE CRONUS project:
Capture and Reuse of biogenic gases for
Negative-emission-sustainable biofuels
Chair: D. Malamis, M. Loizidou**

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| 15.00-15.15 | D. Malamis
General presentation of the HORIZON CRONUS Project |
| 15.15-15.30 | S. Mai
Functional Prototype 1 in Athens, Greece |
| 15.30-15.45 | P. Kougias
Functional Prototype 2 in Thessaloniki, Greece |
| 15.45-16.00 | I. Angelidaki
Functional Prototype 3 in Copenhagen, Denmark |
| 16.00-16.15 | J.-M. Commandré
Functional Prototype 4 in Montpellier, France |
| 16.15-16.30 | D. Hidalgo
Functional Prototype 5 in Boecillo, Spain |

ROOM 2

**SESSION VI
PART B**

**Climate change mitigation and adaptation through
Nature-Based Solutions / Carbon & Water Footprint
Chair: S. Malamis, M. Zubrowska-Sudol, M. Popova**

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|-------------|---|
| 16.30-16.45 | M.A.M. Costa, G. Albin, L.O. Freitas, A.T. Rizzo Iritsu, A.J. da Mota, T.L. de Oliveira Moura, A. Sarti, A.J.D. Souza, K.J. Dussan
Evaluation of the potential of absorbents applied in Venturi scrubbers operating in CO ₂ capture |
| 16.45-17.00 | M. Popova, M. Dimitrov, S. Grozdanova, S. Boycheva, N. Marinkov, D. Karashanova, D. Kovacheva
From waste materials to efficient CO ₂ capture adsorbents |

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- 17.00-17.15 M. Peinsipp, L. Stifter, C. Wartha, V. Reisenhofer
Management of biogenic residues and invasive plants through pyrolysis for soil resilience and carbon sequestration in natural habitats of Austria and Hungary
- 17.15-17.30 A.I. Ignat, L. Andronic
Advancing climate resilience through nature-based solutions within the water circular economy
- 17.30-17.45 S. Grozdanova, I. Trendafilova, A. Szegedi, P. Shestakova, Y. Mitrev, I. Slavchev, S. Simeonov, M. Popova
CO₂ Adsorption on Modified Mesoporous Silica Xerogels Prepared by p-toluenesulfonic Acid-Assisted Synthesis
- 17.45-18.00 A. Lete, J. Sanz, Á. Millera, I. Fonts, G. Gea
Ammonia capture by rice husk biochar with formation of ammonium-enriched material
- 18.00-18.15 F. Humeyra Buyuktoprak, S. Gulcimen, N. Uzal, N. Ates
Medical Imaging Devices Environmental Impact Assessment
- 18.15-18.30 A. Sumjath, A. Nemmour, I. Janajreh
Mineral Recovery Potential from Hypersaline Brines via Eutectic Freeze Crystallization
- 18.30-18.45 B. Karolinczak, M. Żubrowska-Sudoł
Sustainable water reclamation and reuse in the waterfront area
- 18.45-19.00 S. Kori, R. Kumar, M. Kumar, P. Ghosh, V. Kumar
Development of an Innovative Modified Dry Pit Sanitation System for Water Stressed Rural India
- 19.00-19.15 V. Vorne, A. Reinikainen, K. Kuligowski, I. Konkol, M.L. Christensen, J. Zviedris, J. Dvarioniene, T. Pedusaar, S. Guyon, H. Poltimäe, A. Hoy
Decentralised Wastewater Treatment Under Seasonal Pressure: Lessons from the Moonsund Archipelago and the Baltic Sea Region
- 19.15-19.30 J. Walczak, W. Borowska, K. Miszta-Kruk, M. Zubrowska
Sudol Biological Treatment of Greywater for Organic Matter Removal and Water Recovery
- 19.30-19.45 V. Grace Barros, V. Hein Teixeira, D. Lucatelli, L. Romero Monteiro, Y. da Silva Dalonso
What do we have for waste? Besides tomatoes, seasonal fruits

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ROOM 3
SESSION VII
PART A

LANDFEED Session: Transforming waste into sustainable biofertilisers

Chair: S. Rocca, M. Pinto, B. Iñarra, K. Chojnacka, G. Mancini



15.00-15.15	M. Pinto General presentation of the LANDFEED project
15.15-15.30	M. Cebrián, J. Ibarriuri, C. Bald, D. San Martín, B. Iñarra From HORECA Wastes to Biofertilizers: Optimised Fungal Solid-State Fermentation for Sustainable Agronomic Ingredients
15.30-15.45	
15.45-16.00	A. Luciano, T. Beltrani, L. Cutaia, E. De Marco, P. Porta, L. Gurreri, G. Mancini Stakeholder engagement and Industrial symbiosis networks for the biobased fertilizers value chain: the LANDFEED project
16.00-16.15	G. Testa, A. Luciano, C. Dell'Aquila, G. Recupero, L. Gurreri, G. Mancini Exploitation of local organic residues for biobased fertilizer production: The Landfeed Project
16.15-16.25	A. Wijatkowska, R. Taf, F. Gil, D. Skrzypczak, K. Chojnacka Characterisation of a dairy processing by-product as a raw material for organo-mineral fertiliser production
16.25-16.35	F. Gil, R. Taf, A. Wijatkowska, D. Skrzypczak, K. Chojnacka Optimisation of acid and alkaline hydrolysis of dairy waste for enhanced nutrient availability
16.35-16.45	R. Taf, A. Wijatkowska, F. Gil, D. Skrzypczak, K. Chojnacka Organo-mineral fertiliser and biostimulant as products of sequential chemical and enzymatic processing of dairy waste

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ROOM 3

SESSION VII

PART B

LIFE CO₂toCH₄

Chair: A. Antoniadis, A. Zouboulis, P. Kougias

17.00-17.15

P. Asimakidou
Project Overview & Project Management

15.15-15.30

P. Kougias
Operation of the Prototype System

15.30-15.45

L. Treu
Process optimization using technically advanced systems and control architectures microbial resource management

15.45-16.00

A. Chatzis
Design of the mobile unit for hybrid energy storage

16.00-16.15

E. Partheniou
Test operation and optimization of the mobile unit for hybrid energy storage

16.15-16.30

16.30-16.45

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ROOM 4

SESSION VIII

WEEE & Batteries

Chair: B. Ruffino, P. Sospiro, Chr. Argiris

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| 15.00-15.15 | E. Martinková, O. Šebek, A.V. Andronikov, M. Štěpánová, J. Čuřík, F. Veselovský, Z. Čvančarová, V. Chrastný, A. Komárek
Cadmium, zinc and copper isotope fractionation and lead isotopic composition during thermal processing and digestion of e-waste dust samples |
| 15.15-15.30 | M. Van Melkebeke, R. Kol, E. Selmurzaeva, T. Van Laere, J. Suk Coene, J. Sercu, H. Poelman, K. Van Geem, S. De Meester, D. Manhaeghe
Identification and Quantification of Brominated Flame Retardants in WEEE Polystyrene via Py-GC-MS |
| 15.30-15.45 | M.G. Genduso, B. Yaraşık, M. Guagliano, M. Di Virgilio, M. Bellotto, C. Cristiani, G. Dotelli
Loss of Critical Raw Materials in the E-Waste Value Chain: towards a Sustainable Strategy for Metal Recovery |
| 15.45-16.00 | M. Šyc, M.H. Golpayegani, P. Kameníková, E. Korotenko
Current Status and Future Outlook of Critical Raw Materials in the Czech Republic |
| 16.00-16.15 | K. Nagyová
Innovative Circular Upcycling of Spent NdFeB Magnets from End-of-Life Hard Disk Drives: TRL6 Demonstration within the NEO-CYCLE Project |
| 16.15-16.30 | S. Ahmed, D. Bregoli, C. Bruno, M. C. Liscio, P. Sospiro, D. Vangi
Smart Shared Mobility in Small Urban Cities: A Comparative Case Study of Micromobility |
| 16.30-16.45 | S. Ahmed, M. Giurato, M.-S. Gulino, M. Laschi, M. C. Liscio, P. Sospiro, D. Vangi
Sustainable Micromobility in Practice: Updates from the LIFE2M Project |
| 16.45-17.00 | A. Birtürk, C. Kensity, S. Pavón, A. Michaelis
Valorisation of rare earth elements from phosphogypsum wastes into battery materials |
| 17.00-17.15 | B. Hansel, C. Pätzold, M. Bertau
Recovery and material utilization of LiPF ₆ as conducting salt of lithium-ion batteries |
| 17.15-17.30 | E. P. Mateus, J. Almeida, Carolina Pires, A. B. Ribeiro
Electroanalytical recovery of lithium from waste streams: moving towards a circular economy approach |

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- 17.30-17.45 D. Castañeda, J. Negrete, C. Gutiérrez, M. R. González, G. Fernández
Photovoltaic Modules: Beyond Life's End
- 17.45-18.00 C. Chianese, A. Dal Pozzo, V. Cozzani
Competitive Sorption in Acid Gas Abatement: NaHCO_3 Reactivity with HBr and HCl
- 18.00-18.15 C. Schenck, M. Kalina, A. Sambo, P. Sibande
Informal actors in the South African e-waste value chain
- 18.15-18.30 S.-K. Zervou, K. Papanikola, S. Georgiadis, P. Papoulias, P. Papagiannakopoulos, T.M. Triantis,
A. Hiskia
Degradation of Explosives using MuniRem Products
- 18.30-18.45 N. C. de Leon, V. Timothy F. Garcia, Aldrin Jelo S. Tobias, Leahchim Emerlinda M. Edwards,
J. R. Ortenero, A. B. Beltran, A. H. Orbecido, M. A. B. Promentilla, L. B. Patacsil
Degradation of Emerging Contaminant of Concern in Wastewater Using NiZnSe-Modified Nickel
Foam Electrode
- 18.45-19.00 P. Preda, A. Dal Pozzo, D. Frascari, D. Mascheroni, S. Tondini, V. Cozzani
Integrated water washing and accelerated carbonation of APCr: role of residual moisture in
meeting non-hazardous landfill criteria

Poster session

- 01 J. F. Hernandez-Arango, C. A. Cardona Alzate
Study of corn stover as a feedstock in the production of biochar-based fertilizers
- 02 A. Libault, S. Jarosz, M. Elakrouch, M.H. Jijakli
BIOBOOST-PRO: Demonstrating and Enabling Bioponics Using Manure-Based Organic Fertilizers in North-West Europe
- 03 C. A. Cardona Alzate, Sh. St. Bravo Argote, J. F. Hernandez, L. Hidalgo Giraldo
Comparative assessment of technologies to produce sustainable aviation fuels from lignocellulosic biomass
- 04 M. Klučáková, P. Závodská
Progressive methods for investigation of migration of pharmaceuticals in soils
- 05 D. Vamvuka, I. Papakyriakopoulos, K. Kyriakidis, S. Sfakiotakis, D. Pentari
Valorization of a bio-solid for the production of a H₂-rich gas through CO₂ capture by a waste material and for soil amelioration
- 06 N. Gkolfinopoulou, S. Spanoudakis
Source separation scheme for solid waste in the Historic Centre of Rethymno
- 07 B. Halder, M. Kumar Sampath, V. Kumar Nigam
Sustainable Recovery of Critical Metals from PCBs via Integrated Bioleaching
- 08 G. Kolvekova, M.C. Liscio, A. Piekara, P. Sospiro
European Textile and Fashion Associations: potential to boost sustainability in the fashion sector
- 09 D. Hidalgo, F. Infante, J.M. Martín-Marroquín
Novel process for the recovery of food-grade CO₂ and aromas from wine fermentation off-gas
- 10 I. Kniuiųpytė, I. Sinkevičiūtė, A. Sinkevičienė, R. Kimbirauskienė, M. Praspaliauskas
Zinc Oxide Nanoparticle Impact to Phytoremediation of Cd-Contaminated Soil Using Brown Mustard (*Brassica juncea* L.)
- 11 I. Kniuiųpytė, A. Dikšaitytė, M. Praspaliauskas, J. Žaltauskaitė
Climate-Modulated Cadmium Phytoremediation: Biomass, Uptake, and Removal Efficiency of *Brassica napus*
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Life Cycle Assessment of Centralized vs. Decentralized Refuse-Derived Fuel Management: Transport Emissions and Plant Siting Optimization in Greece
- 145 A. Razaq, A. S. Nizami
Performance Evaluation of Bio-Waste Derived Briquettes as Clean Alternatives to Coal and LPG
- 146 G. Pachakis, S. Mai, E.M. Barampouti, D. Malamis
Process Simulation and Design Optimization of Potassium Carbonate-Based CO₂ Capture for Industrial Flue Gas Applications
- 147 A. Ravikumar, A. Rajendrakumar Prajapati, En-Yu Fan, Pei-Cheng Wang, David Whittinghill, G. Pappas, P. Kariou, A. Antoniou, E. Kyriakou, A. A. Zorpas
The Impact of Serious Game Development on Circular Economy for Construction and Demolition Wastes
- 148 P. Amaechi Ako (formerly Ozor)
Technical specifications for value-added production planning and control of plastic recycling in South Africa

Poster session

- 149 E. Zago, Th. S. Castão, J. L. Ramos, E. N. V. M. Carrilho
Mitigating Emerging Contaminants: Lettuce Root-Based Magnetic Nanocomposites for residual antihypertensive removal in water
- 150 M. Mahboob, M. Zain, A. S. Nizami
Producing Zinc Coated Enriched Biofertilizer from Bio-digestate
- 151 Y. Yang, J.L. Hao, J.F. Yuan, B.W. Xu
Unlocking construction waste recycling performance: A conceptual framework of policy subsidy mechanisms in platform-based contexts
- 152 S. L. Parra-Angarita, J. F. Herrera-Ruiz, G. H. Gaviria, A. Léonard
Towards Standardized Mechanical Characterization of Highly Dewatered Sludge: a bibliometrics study
- 153 O. Barouta, N. Tsiarta, C.G. Samanides, P. Dalias, A. Christou, M. Omirou, A. Zorpas, M. Stylianou
Decision support tools in agriculture and agroecology: A review
- 154 C. Papachrysostomou, N. Tsiarta, C.G. Samanides, M. Omirou, M. Constantinou, A. Zorpas, M. Stylianou
Removal of Coccidiostats from aqueous solutions using biochar
- 155 M. Kourri, N. Tsiarta, C. Samanides, E. Kyriakou, I. Voukkali, A.Zorpas, M. Stylianou
Exploring the role of communication in the adoption of circular economy practices in Cyprus: Stakeholder perspectives
- 156 C. Samanides, M. Matheou, Maria Georgiou, N. Tsiarta, I. Voukkali, A. Agapiou, A. Zorpas, M. Stylianou
Investigating the use of biochar for nitrate and ammonium removal from aqueous solutions
- 157 M.T. Santos, T.C. Mesquita, T. Trindade
Analysis and perspectives on home and community composting in Portugal
- 158 M.C. García Vargas, J.M. Romero-García, I. Gómez-Cruz, M. M. Contreras, E. Castro
Circular Intelligence Applied to Lignocellulosic Biomass Management
- 159 S. Shahhosseini, F. Demichelis, M. Piumetti, C. Gallati, D. Fino
From wastewater treatment to catalysis: adsorption-based recovery and reuse of heavy metals
- 160 K. Sobieraj, A. Urbanek, Z. Steczkiewicz, T. Strzała
Bacterial carbon monoxide (CO) cycling via the CODH/ACS complex in compost: insights from metagenomic and gene expression analyses
- 161 P.R. Nascimento, B.R. Padula, A.M.F. Milagres
Comparative enzymatic hydrolysis of Brazil nut cake (*Bertholletia excelsa*) using two proteolytic enzymes for bioactive selenopeptide production
- 162 E.M. Rodríguez-Acosta, F. Plascencia-Hernández, B.C. Alcántar-Vázquez
CO₂ capture using sodium silicates prepared from geothermal silica waste
- 163 H.D. Vera-Martínez, B. Alcántar-Vázquez
CO₂ capture using sodium silicates prepared with construction and demolition waste
- 164 R. Linares-Burgos, A. López-Uceda, A. P. Galvín, C. Martínez-Ruedas
Comparative analysis of two olive grove production systems using Life Cycle Assessment
- 165 W. Zia, A. S. Nizami
Developing Smart Waste Management by Integrating Machine Learning in Urban Waste Management
- 166 E. Kyriakou, I/ Voukkali, M. Stylianou, J. Navvaro Pedreno, A. A. Zorpas
The New Bio economy strategy. A starting point for the future
- 167 C. García-González, B. Alcántar-Vázquez
Porous carbon materials derived from spent coffee grounds with potential application in CO₂ capture

Thursday, 25 June 2026

All times are in Greek Time

08.00-9.30

Registration

ROOM 1

9.15-10.45

Keynote Speakers

Chair: K. Moustakas, D. Malamis

Paschalis Alexandridis, University at Buffalo, The State University of New York (SUNY)

Textile Recycling: Advances in Sortation and Chemical Recycling

Maria Georgiadou, EC Directorate General for Research and Innovation

EU support on SAF technologies and policies

Konstantinos Tsimaras, Regulatory authority for energy, waste & water

The role of RAAEY to the water scarcity and the management of irrigation water

Steven. De Meester, Gentt University, Can Recycling Deliver Integrating Mechanical

Physical, and Chemical Recycling Pathways to Meet Plastic Recycled Content Targets

Jesper de Claville Christiansen, Aalborg University

Mechanical recycling of thermoplastics

10.45 - 11.15 ☕ Coffee Break

Thursday, 25 June 2026

ROOM 1

SESSION IX

Anaerobic Digestion I

Chair: I. Angelidaki, D. Malamis, S. Campanaro, L. Treu

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|-------------|--|
| 11.15-11.30 | G. Campo, A. Cerutti, A. Sharifi, B. Ruffino, M. Zanetti
Mass and Energy-Based Assessment of In Situ Hydrogen Biomethanation for Power-to-Methane Integration in Anaerobic Digesters |
| 11.30-11.45 | M. De Sanctis, S. Leopizzi, P. Vergine, C. Di Iaconi, A. Langella, A. Bellino, G. De Feo, F. De Nicola, F. Izzo, M. Mercurio, M. Napoletano, S. Oppido, E. Picariello, C. Romano, F. Trasacco, D. Baldantoni
Enhanced anaerobic digestion by thermochemical pre-treatment for marine waste valorisation |
| 11.45-12.00 | I. A. Fotidis, Yixin Yan, Dafang Fu, D. S. Pitsikoglou, M.-A. Tsitsimpikou, A. A. Lithourgidis, C. A. Tzenos, Th. A. Kotsopoulos
Bioaugmentation with advanced inocula under simultaneous high lignocellulosic concentration and ammonia stress in a continuous stirred tank reactor |
| 12.00-12.15 | A. G. Capodaglio, B. Fomekong Kana, S. Ghezzi, A. Callegari, M. Tucci, F. Aulenta, C. Cruz Viggi
Anaerobic sludge digestion enhancement with bioelectrochemical methanogenesis augmentation: experimental outcomes |
| 12.15-12.30 | U.K. Roy, T. Radu
Valorising phytoremediation plant biomass through anaerobic digestion |
| 12.30-12.45 | M. Olaya-Rincon, F. Papaioannou, J. Dosta, M. Martinez, S. Astals
Anaerobic co-digestion of bioplastics and food waste |
| 12.45-13.00 | H. Abdalla, M. Sartaj, M. Abdallah, N. Abdehagh, M. Adghim
Assessment of In-situ Hydrogen Biomethanation under Variable Mesophilic Conditions |
| 13.00-13.15 | O.D. Yopez-Ceron, J. Browne, E. Casey, R. K. Dereli
Performance and energy recovery potential of anaerobic digestion of dairy UF permeate |
| 13.15-13.30 | X. Zhan
Integrating Anaerobic Digestion into Sustainable Livestock Farming: Environmental and Economic Considerations |

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13.30-13.45	S.Sahota, C. Geoghegan, C. O'Donoghue Economic Multipliers and Sectoral Linkages in Anaerobic Digestion Systems: An Input-Output Analysis within an Economic and Environmental Framework
14.00-15.00	Lunch Break

Thursday, 25 June 2026

ROOM 2
SESSION X

Scaling-up advanced biodegradable and recyclable polymers for sustainable packaging materials

Chair: S. Rocca, C. Varrone, S. De Meester, A. Žgajnar Gotvajn

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| 11.15-11.30 | C. Bearzotti, L. Du Preez, L. Tirkkonen-Rajasalo
Design for Recycling Criteria for Bioplastics Packaging: Addressing PPWR Requirements |
| 11.30-11.45 | P. Lomwongsopon, C. Varrone
Process engineering of polyhydroxyalkanoates production from polyolefins pyrolysis wax |
| 11.45-12.00 | G. Lathira, E. Xanthopoulou, N.D. Bikiaris, Z. Terzopoulou
GRECO project: Novel Bio-based, Biodegradable, Recyclable, Safe and Circular Food Packaging |
| 12.00-12.15 | A. Demeslis
Valorisation of Olive Oil Solid Waste into Bio-Based Single-Portion Packaging: The E-OILÉ Project |
| 12.15-12.30 | J. Pieters
C. Bearzotti How is the legislative framework for biodegradable plastic packaging changing, and how can R&I cope with the changes? |
| 12.30-12.45 | T. Kosanovic Milickovic, E. Gkartzou, M. Karmitru, C. Podara, C.A. Chartidis
Designing Biodegradable Packaging Materials with Integrated End-of-Life Performance for Circular Waste Management – BioPackMan project |
| 12.45-13.00 | T, De Somer, S. Ügdüler, D. Manhaeghe, L. Harinck, K. M. Van Geem, A. Kulawig, R. Leineweber, S. De Meester
Controlling colorant staining during the de-inking of flexible plastic packaging |
| 13.00-13.15 | G. Cabrera, A. Barros, J. Brunet
Laboratory and Pilot-Scale Supercritical CO ₂ Decontamination of PLA: Efficiency and Material Performance |
| 13.15-13.30 | L. A. Castillo-Cifuentes, M. F. Valero, L. E. Díaz, P. Acevedo, L. D. Barajas Gomez, I. Cabeza
Upcycling Potato Processing Solid Waste into Starch Biofilms with Tunable Mechanical Properties via Multifactorial Optimization |

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| 13.30-13.45 | N. Vermeeren, D. Manhaeghe, L. Van Schelvergem, T. De Somer, S. De Meester
Understanding ink adhesion and de-inking of flexible plastic packaging |
| 13.45-14.00 | L. Van Schelvergem, D. Manhaeghe, T. De Somer, N. Vermeeren, S. De Meester
Development and application of a new challenge test for polyolefin packaging recycling |
| 14.00-14.15 | A. Torkelis, G. Denafas, J. Dvarionienė, V. Varžinskas
Closing the Recycling Gap in Lithuania's Plastic Packaging System: Material Flow Analysis of Post-Consumer Plastic and Composite Packaging Waste |
| 14.15-14.30 | N. Nowak, D. Manhaeghe, S. de Meester
Degradation of polyurethane ink binders during recycling of flexible polyolefin packaging |
| 14.30-14.45 | U. Singh, M Kumar, V. Kumar, S. K. Khare
PVA-based nanocellulose and lignin incorporated food packaging film depicting antioxidant properties and improved shelf life of green chilli |
| 14.45-15.00 | N. Tahir Sharif, L. Fatima, S. Ayesha Zaidi, Umm-E-Kalsoom, A.-S. Nizami
How is the legislative framework for biodegradable plastic packaging changing, and how can R&I cope with the changes? |

Thursday, 25 June 2026

ROOM 3
SESSION XI

AgriLoop EU/China session: integrated approach to safely convert agri-residues into proteins, biodegradable plastic and others biochemicals
Chair: A. Milukas, N. Gontard, D. Bolzonella, M. Reis



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| 11.15-11.35 | N. Gontard, Aimin Shi
Overall introduction of the AgriLoop EU-CN project, Circular reasoning for agricultural residues: Pushing the frontier of circular agriculture by converting residues into novel economic, social & environmental opportunities |
| 11.35-11.55 | J. Broeze, M. Rodriguez-Illera, J. Voogt
Rapid decision support for the valorization of agri-food residues through early estimates on yield and environmental benefit |
| 11.55-12.15 | M. Reis, R. Ganigué, Wei Gao
How to tailor the bioconversion cycles of agricultural residues into microbial protein and biopolyesters |
| 12.15-12.35 | D. Bolzonella, Xiaolong Yao
Pilot scale technologies for agri-waste conversion into bioproducts for the farming sector |
| 12.35-12.55 | Cr. A. V. Torres, F. Santos, F. Traina, J. Viana, J. C. Fradinho, M. Matos, S. Vandenberghe, Á. Estévez, R. Ganigué, M. Reis
Turning Agro-Industrial Residues into Bioplastics: Unlocking Microbial PHA Production with Single-strain and Mixed Cultures |
| 12.55-13.15 | L. Di Leva, Lionel Nguemna Tayou, G. Salvatori, Ch. Cavaliere, A. Martinelli, Cl. Palocci, Á. Estévez, R. Ganigué, M. Villano
Bioconversion of Agro-residues wastes into Biopolymers through a continuous multi-reactor process using mixed microbial cultures |
| 13.15-13.35 | G. Pesante, Cl. Magonara, Al. Zucca, El. Montagnese, D. Bertasini, G. Salvatori, L. Nguemna Tayou, L. Di Leva, M. Villano, D. Bolzonella
PHBV production with tailored HV content from agri-food residues using mixed microbial cultures |
| 13.35-13.55 | J. Housmans, Yingying Gu, M. Struk, M. Rodríguez-Illera, A. Penedo, I. Leis Garrote, G. Benati, R. Escorcio, A. Sadeghi-Sheshdeh, P. Sauvetes
Young researchers in Europe and China: Overview of different academic research systems |
| 13.55-14.15 | Overall discussion with all speakers & participants |

Thursday, 25 June 2026

ROOM 4

**SESSION XII
PART A**

**The EIC Accelerator
Chair: K. Moustakas, E.M. Barampouti, P. Gkotsis**

11.15-12.15

Petros Gkotsis, European Innovation Center
The EIC Accelerator. Support innovative ideas to reach the market

ROOM 4

**SESSION XII
PART B**

**LIFE 2026 Info Day (in the Greek language)
Chair: G. Protopapas, D. Banousis, N. Psimmenos**



12.15-12.45

N. Psimmenos
The Life Programme and the 4 sub-programmes - 2064 LIFE Call

12.45-13.00

Concluding remarks / questions and answers

13.00-13.15

J. Constantinidou
Introduction to project LIFE: The case of LIFE-IP CYzero WASTE (LIFE20 IPE/CY/000011)

13.15-13.30

V. Lolou, C. Tsompanidis, G. Litas, K. Katrini, N. Markakis, A. Stefanakis, J. Claeys, i. Grammatikakis, G. Daskalakis, I. Daliakopoulos, T. Manios
Environmental Permitting and System Integration of Decentralized AOSDU Units with a Central Processing Facility: The LIFE-INOFEED Approach

13.30-13.45

A. Maragkaki, E. Maragkaki, G. Daskalakis, T. Kamperidis, L. Lombardi, R. Muñoz, A. Lazari, S. Saxioni, K. Karakitsou, T. Lolos, C. Tsompanidis, T. Manios
Sustainable Transformation of Waste to Biomethane, through Innovative Upgraded Anaerobic Digestion and Gasification

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13.45-14.00	D. Malamis, J. Novakovic, S. Mai, E. Barampouti, K. Moustakas Introduction to project LIFE: The case of LIFE DIMITRA (LIFE22-CCM-EL-DIMITRA/101113253)
14.00-14.15	A. Antoniadis The LIFE CO2toCH4 Project
14.15-14.30	El. Giouni, M. Kyriazi, K. Moustakas, M. Loizidou Introduction to project LIFE: The case of LIFE PHARMADETOX (LIFE20ENV/CY/000615)
14.30-14.45	M. C. Liscio, S. Ahmed, P. Sospiro The LIFE2M Project

Thursday, 25 June 2026

ROOM 1

SESSION XIII

Anaerobic Digestion II

Chair: D. Fino, J. Dosta, P. G. Kougias, S. Vakalis

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|-------------|---|
| 15.00-15.15 | C. Castoldi, F. Demichelis, T. Tommasi, D. Fino
Optimizing Dark Fermentation of Olive Mill Wastewater via Inoculum Pretreatments, Selection of Inert Gas, and Control of Process Parameters |
| 15.15-15.30 | Z. Rahmat Ullah, I. Abualmaaly, M. Sartaj, M. Abdallah
Static Electromagnetic Field Pretreatment of Cow Manure for Enhanced Anaerobic Digestion |
| 15.30-15.45 | B. Öden, R. Kunayeva, A.M. Altigani, G.H. Akçay, E. Kartopu, E. Bat, B. Mavis, Y.D. Yilmazel
Impact of Flocked Electrode on the Performance of Anaerobic Digestion – Microbial Electrolysis Cell Integrated Systems (AD-MECs) |
| 15.45-16.00 | Yi Ding, Da Chen, Chang Chen, Guangqing Liu
Anaerobic digestion of raccoon dog (<i>Nyctereutes procyonoides</i>) manure and co-digestion with rice straw |
| 16.00-16.15 | D. S. Pitsikoglou, M.-A. Tsitsimpikou, Antonios A. Lithourgidis, Christos A. Tzenos, Yixin Yan, Dafang Fu, T. A. Kotsopoulos, I. A. Fotidis
Development and preservation of composite microbial consortia for enhanced anaerobic digestion under ammonia and lignocellulose inhibition |
| 16.15-16.30 | A. Tamer Cetinkaya, G. Ozyildiz, N. Dilsizoglu-Akyol, F. Hazi, E. Cokgor
G. Insel Integrated Biochemical Methane Potential and Plant-Wide Simulations for Full-Scale High-Rate Activated Sludge Systems |
| 16.30-16.45 | H. Abdullah, G. McKay, S. Shaikh
Methane Recovery Potential of Differentiated Dairy By-Products and Wastewater Streams: A Comparative Assessment for Waste-to-Energy Valorisation |
| 16.45-17.00 | M. Hernandez, A. Lingaraj, J. Jonis, J. Teaford
Beneficial Reuse of Milled Steel Slag Fines in Biosolids and Biogas Management: An Evaluation of Novel Nutrient Recovery and Dewatering Pathways |
| 17.00-17.15 | M. T. Santos, P. Cunha, T. Trindade
Contribution to biogas production in the anaerobic digestion process through numerical model predictions |

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17.15-17.30

A. Conversano, D. Sogni, A. Campana, D. Di Bona
Food Waste-to-Biomethane and Hydrochar: Integrated Anaerobic Digestion and Hydrothermal Carbonization for Intensive Material Recovery

17.30-17.45

E. Arcos, P. Gerin
H₂/CO₂-driven conversion of orange peel waste into medium-chain carboxylates through enhanced anaerobic fermentation

Thursday, 25 June 2026

ROOM 2
SESSION XIV

Circular Economy & Symbiosis
Chair: U. Yetis, L. Rigamonti, F. Corona, M.C. Liscio

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|-------------|---|
| 15.00-15.15 | B. Vejrum Waehrens, A. H. Lassen, Cheng Yang
Orchestrating Industrial Take-Back Ecosystems in the Built Environment: An Operational Model and Evidence on Systemic Barriers and Enablers for Circular Manufacturing |
| 15.15-15.30 | V. Vorne, A. Reinikainen, K. Kuligowski, I. Konkol, L. Świerczek, M.L. Christensen, G. Messina, J. Zviedris, J. Dvarioniene
Advancing water resilience in coastal tourism: Context-based circular solutions for small-scale wastewater treatment systems |
| 15.30-15.45 | D. Leone, Ev. Marra, L. Del Bosco, A. Fontana
A Modular Framework for Life Cycle Sustainability Assessment of Industrial Urban Symbiosis Systems |
| 15.45-16.00 | A. Kerschbaum, S. Bastek, S. Fendt, H. Spliethoff
Spatially resolved technical carbon potential from biogenic industrial wastes for green methanol production in Germany |
| 16.00-16.15 | M.P. Reyes, J.E. López, J.F. Saldarriaga
Screening amendment performance for diffuse metal immobilization and soil quality recovery in micro-plots with Lolium perenne |
| 16.15-16.30 | F. Corona, F. Berride, J. Martín-Marroquín, R. Timmers, F. Burgoa, D. Hidalgo
Experimental evaluation of forward osmosis at laboratory pilot scale for industrial wastewater desalination and water recovery |
| 16.30-16.45 | A. Brunat, A. Serra-Toro, D. Faulón, S. Astals, S. Dosta, J. Dosta
Combined treatment of a gas-permeable membrane contactor and an anaerobic membrane bioreactor for the valorisation of a high-strength industrial wastewater |
| 16.45-17.00 | V. Innocenzi, M. Prisciandaro
Carbon dioxide valorization through Astaxanthin Production from Haematococcus pluvialis: Modeling and Process Analysis in Aspen Plus® |
| 17.00-17.15 | M. C. Ormeci Kart, M. Mesken, H. E. Salalı
Technical and Economic Efficiency of Olive Farms: A Comparative Analysis Using BCC and Slack-Based DEA Models |

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| 17.15-17.30 | M.C. Liscio, G. Monturano, F. Perugini, P. Sospiro
The impact of sustainable certification on firm environmental and economic performance |
| 17.30-17.45 | B. Iñarra, J. Ibarruri, D. San Martín, M. Gutierrez, S. Cioffi, A. Adamiano, C. Bald
Use of fisheries by-products for high value agronomic purposes |
| 17.45-18.00 | V. Giannini, D. Iacobucci, M. C. Liscio, M. Orci, P. Sospiro
Blockchain Adoption for Fashion Supply Chain Traceability and Circularity |
| 18.00-18.15 | O.M. Melo Neto, L.F.L. Lucena, D.R.C. Silva, J.V. Neto, L.P.T. Mendes, L.C.F.L. Lucena
A Computational Framework for the Assessment of Circularity Factors in Recycled Asphalt Mixtures |
| 18.15-18.30 | D. San Martin, J. Ibarruri, M. Gutierrez, I. Beristain, B. Iñarra
Valorisation of Spent Coffee Grounds into Animal Feed and Biocides |
| 18.30-18.45 | H. Qureshi, S. Pervez, M. Asif Nawaz
Fungal Keratinase Mediated Hydrolysis of Feather Waste for Production of Feather Protein Hydrolysate: A Waste Valorization and Circular Bioeconomy Approach |
| 18.45-19.00 | R. Kumar Sonwani, D. Patel
Circular Economy Approach to Dye Wastewater Treatment through Biomass Utilization |
| 19.00-19.15 | J.N. Sierra Cárdenas, E. Trigueros Andrés, I. Díaz Villalobos, S. Bolado Rodríguez
Protein Recovery from Raw Waste Activated Sludge: Optimization of Alkaline Hydrolysis under a Circular Economy Approach |
| 19.15-19.30 | T. Kgoedi, A. Aphane, M. Sihlahla, N. Mketi
Synthesis of a multifunctional $\text{Fe}_3\text{O}_4@\text{SiO}_2@\text{MOF}@\text{cellulose}$ nanocomposite material from waste-derived precursors for the adsorptive recovery of rare earth elements in mining waste: A circular economy strategy |
| 19.30-19.45 | H. Himanshu, N. Ley, C. Wolf, M. Bongards
Metabolon as a Collaborative Living Lab for Nature-Based Solutions: Governance Conditions, Societal Engagement, and a Replication Framework for Post-Industrial Circular Economy Transitions |

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ROOM 3

SESSION XV

Recycling & Resources Recovery

Chair: M. Bertau, P. Morone, K. Moustakas, P. Nowakowski, I. Fotidis

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|-------------|---|
| 15.00-15.15 | P. Nowakowski, M. Wala
Investigating efficiency in collection and transportation of waste textiles – a case study of Poland |
| 15.15-15.30 | H. Bibi, M. Jucienė, V. Dobilaitė
Sustainable use of textile waste in the construction sector: a review of researches and current practices |
| 15.30-15.45 | M. Stefanidou, E. Carrieri, M. Vanwysberghe, S. De Meester
Assessing the Potential of Green Solvents for Textile Recycling |
| 15.45-16.00 | G. Bonifazi, R. Gasbarrone, R. Palmieri, S. Serranti
SWIR-based reflectance spectroscopy as an exploratory authentication tool of recycled textiles for cleaner production |
| 16.00-16.15 | F. Bonelli, J. Faludi, G. Kiss, V. Koltai, P. Morone
Second-Hand and Vintage Clothing Markets in the Circular Economy: A Comparative Study of Consumers' Behavior and Sustainability Implications in Western and Eastern Europe |
| 16.15-16.30 | K. Kiskira, L.A Tsakanika, Th. Lymperopoulou, F. Tsopeas, G. Lyberatos, M. Ochsenkühn- Petropoulou
Biotechnological recovery of neodymium and other rare earth elements from Greek bauxite residue: The BioNdREE approach |
| 16.30-16.45 | P. Fröhlich, H. Schmidt, M. Bertau
Phosphogypsum as a secondary source for construction gypsum and rare earth elements: Potentials, risks and processing strategies |
| 16.45-17.00 | J. Almeida, F. Pedrosa, M.J. Plancha, A. Gonçalves, C. Nogueira
Lithium Recovery from Spodumene via Calcium Chloride-Assisted Roasting |
| 17.00-17.15 | R. Mende, D. Kaiser, S. Pavón, S. Tampouris, M. Bertau
The FEEL process in the context of End of Life Ceran® cooktops: Lithium recovery and downstream processing Unlocking a secondary lithium resource - FEEL processing of End-of-Life Ceran® cooktops- |
| 17.15-17.30 | N. Tsyntaru, D. Bernotas, H. Cesiulis
Corrosion of palladium in organic ligands as a gateway for sustainable recovery |

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| 17.30-17.45 | H. Cesiulis, N. Tsytsaru, V. Pakstas
Wastewater treatment after precious metals recovery |
| 17.45-18.00 | B. Hansel, C. Rogoll, M.Kraft, S. Tampouris, H. Schmidt, M. Bertau
Selective Cu recovery from Cu slags using regenerative leaching method with ammonium peroxodisulfate |
| 18.00-18.15 | F. Rizzioli, T. Della Gatta, D. Bolzonella, F. Battista
Integrated Pretreatments and Membrane Processes for Digestate Upgrading:
A Multiscale Study Reaching TRL 7 |
| 18.15-18.30 | I. Yetik, S. N. Kose, M. Canbulat Ozdemir, Y.D. Yilmazel
Recovery of nutrients from liquid fraction of digestate via struvite precipitation in a fluidized bed reactor using waste-derived reagents |
| 18.30-18.45 | J. Jawad, R. Govindan, K. Mahmoud, T. Al-Ansari, G. McKay, J. Saththasivam
Performance Comparison of Conventional Soil and Charcoal-Based Media in an Outdoor Pilot Vertical Green Wall for Greywater Treatment |
| 18.45-19.00 | Zhiqin Ni
Strategic investment and competition in a sustainable supply chain:
a game-theoretic analysis of virgin vs. recycled sourcing under 'Pull' and 'Push' forces |
| 19.00-19.15 | I.I. Mora Gamez, R.M. Ramírez Zamora, K. Valencia García
Use of industrial iron waste for the production of Fe ₃ O ₄ photocatalysts of the photo-Fenton type for the degradation of recalcitrant organic matter in water |
| 19.15-19.30 | H. Aslan, Ö. Vardar, Y. Yildirim
Optimization of Green Synthesis of Fe ₂ O ₃ Nanoparticles Using Citrus Peel Wastes |
| 19.30-19.45 | S. Sophia, V. Shetty Kodialbail
Microbial synthesis of electronic waste-derived catalytic nanomaterial – Synthesis duration optimization to maximize 4-nitrophenol reduction |
| 19.45-20.00 | C. A.V. Torres, F. Santos, N. Ribeiro, C. Silva Pereira, M. A. M. Reis
Cascade Valorisation of Tomato Pomace: as waste to biopolymer approach |
| 20.00-20.15 | J. Saleem, Z. K. Baig Moghal, F. Tahir, G. McKay
Performance–Sustainability Trade-Offs in Alkali-Activated Biomass-Derived Activated Carbon |

Thursday, 25 June 2026

20.15-20.30

W.M. Ambrós, G.H. Pires

Assessment of the Sulphur Recovery Potential from Coal Tailings in the Criciúma Coal Basin,
Southern Brazil

Thursday, 25 June 2026

ROOM 4
SESSION XVI

Hydrogen: solutions & innovations for H₂ production, efficient storage, distribution & applications / Methanol and other sustainable biofuels
Chair: M. Loizidou, A. Dutta, Junjun Wu, L. Lombardi

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| 15.00-15.15 | D. Hidalgo, E. Pérez-Zapatero, J.M. Martín-Marroquín, M.A. Sánchez-Gatón, P. Moretti
Microbial taxonomy as a predictor of biohydrogen performance in anaerobic sludges |
| 15.15-15.30 | E. Thorin, P. Sospiro, S. Seethamraju, D. Bregoli, Hailong Li, L. Nibbi
Boosting H ₂ production from high water content biowaste with negative carbon emissions (BIOHAVEN) |
| 15.30-15.45 | E. López-Fernández, J. Comendador, A. Ramírez, M. Muñoz-Morales, J. Llanos
Hydrogen Production through Valorization of Invasive and Contaminated Biomass |
| 15.45-16.00 | C. Ch. Christodoulou, C. N. Christodoulou, K. A. Demetriou, D. P. Hadjipetrou
Environmental alternative of processing recycled Aluminum metals to produce simultaneously value-added products such as, Green H ₂ Gas, Heat and NaAl(OH) ₄ |
| 16.00-16.15 | A. Dutta, S. Kumar Kuila, B. Regmi, S. Salaudden
Circular Hydrogen from Waste: Integrated Calcium Looping Gasification with In-Situ CO ₂ Capture and Biocarbon Storage |
| 16.15-16.30 | A. Sharifi, G. Campo, A. Cerutti, B. Ruffino, M. Zanetti
Evaluation of H ₂ Biomethanation with CO ₂ Utilization in a Mesophilic Fed-Batch Reactor |
| 16.30-16.45 | S. Hernández, F. Nabi Khan, F. Dattila, H. Guzmán, M. Santarelli
Green Hydrogen Production with Solar and Renewable Electricity: From Research Infrastructures to Ionic Liquid-Enhanced AEM Water Electrolysis |
| 16.45-17.00 | J. Snyman
Circularity and Sustainability in the South African Solar Sector |
| 17.00-17.15 | D. S. Lara-Martín, T. López-Clavijo, R. F. Torres-Castro, E. P. Forero-Díaz, A. C. Rodríguez-Ordúz, C.E. Rincón-Triana, D. A. Castellanos-Ariza, P. Acevedo, F. López, P. Velasquez, I. Cabeza, L. Chacón
Comparative Biohydrogen Production from Whey and Whey–Cattle Manure Co-Substrates via Dark Fermentation |

Thursday, 25 June 2026

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| 17.15-17.30 | J. F. Hernandez-Arango, C. A. Cardona Alzate
Green ammonia as an alternative to traditional fertilizer routes. Prefeasibility analysis and future limitations |
| 17.30-17.45 | M. Ohenoja, K. Tiiri, J. Tomperi, M. Ruusunen
Optimisation of microalgae-derived aviation biofuel production chain: Short-cut modelling |
| 17.45-18.00 | A. Arias, E. Katsou
Integrated Approach to Safe, Sustainable and circular Biofuels: Indicator Design for developing a digital toolkit and eco-label |
| 18.00-18.15 | A. Krishnamoorthy, Xihui Kang, J. Gardner, B. A. Simmons
Converting Waste to Resource: Flexible Biomass Deconstruction of Feedstocks for Biofuels |
| 18.15-18.30 | A. Conversano, D. Sogni, G. Lombardelli, D. Di Bona, F. Viganò, S. Consonni
Techno-economic analysis of solid recovered fuel gasification for methanol production |
| 18.30-18.45 | Sh. St. Bravo Argote, C. A. Cardona Alzate
Analysis of hybrid photovoltaic and coffee waste biomass systems to obtain energy for different applications in rural zones |
| 18.45-19.00 | R. Kaini, F. Alizad Oghyanous, C. Eskicioglu
Co-hydrothermal liquefaction of municipal sludge and grease trap waste: effects of mixing ratios and reaction conditions on product yield and characteristics |
| 19.00-19.15 | G.S. Nunes, T.F. Lopes, C. Silva, F. Gírio
Life cycle assessment of renewable methanol production: the H2Driven project |

Friday, 26 June 2026

All times are in Greek Time

ROOM 1

SESSION XVII

Waste-to-Energy, Hydrogen & Energy from Waste

Chair: K. Moustakas, S. Consonni, C. Psomopoulos, I. Janajreh

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| 9.00-9.15 | A. Di Lisi, S. Piazzzi, F. Patuzzi, M. Baratieri
Pretreatment of Feedstock to Enhance Hydrothermal Liquefaction Waste to Energy Process and Product Quality: A Review |
| 9.15-9.30 | S. Heberlein, W. P. Chan, G. Lisak
From solid waste to slag for construction: Demonstrating high temperature slagging gasification for the treatment of heterogenous waste streams |
| 9.30-9.45 | M. Cierpińska, A. Mlonka-Mędrala, A. Magdziarz
Production of H ₂ -rich Syngas from Industrial Food Waste via CO ₂ -Steam Catalytic Gasification |
| 9.45-10.00 | S. Mariyam, M. Alherbawi, R. Govindan, G. McKay, T. Al-Ansari
Predictive Machine Learning Models for Syngas Yields from Waste Biomass Gasification |
| 10.00-10.15 | Yan Gong, Junjie Cao, Qinghua Guo, Guangsuo Yu
In situ study of the evolutionary properties of biomass single particles during the gasification process |
| 10.15-10.30 | A. Maragkaki, E. Maragkaki, G. Daskalakis, T. Kamperidis, L. Lombardi, R. Muñoz, A. Lazari, S. Saxioni, K. Karakitsou, T. Lolos, C. Tsompanidis, T. Manios
Sustainable Transformation of Waste to Biomethane, through Innovative Upgraded Anaerobic Digestion and Gasification |
| 10.30-10.45 | H. Khan, M.D. Islam, I. Janajreh
Kinetic Investigation of Tar Evolution during Green Waste Gasification for Sustainable Solid Waste Valorization |
| 10.45-11.00 | V. Kudelytė, J. Eimontas, N. Striūgas, K. Zakarauskas
Catalytic pyrolysis of waste fishing nets for caprolactam recovery using a Ca-impregnated biochar catalyst |
| 11.00-11.15 | C. Gracia-Monforte, J. Ábrego, J. Arauzo
Biomass pyrolysis with integrated capture of CO ₂ via Chemical Looping Combustion: Energy balance and carbon dioxide removal potential |

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| 11.15-11.30 | G.S. Yu, Q.H. Guo, Y. Gong, X.D. Song, L.M. Zhang, J.F. Wang
The mechanism of biomass pyrolysis quality improvement catalyzed by calcium oxide-based catalysts |
| 11.30-11.45 | S. Kordoghli, F. Zagrouba
Towards a circular economy: Valorization of Bio-waste and industrial waste for green energy generation and Environmental Sustainability through pyrolysis |
| 11.45-12.00 | Y. Jani, G. Biancini, L. Carvalho, S. Behera, H. Chen, H. Li, E. Dahlquist, E. Thorin
Optimum technique for the remover of tar from the gasification of sewage sludge- Waste to Energy approach |
| 12.00-12.15 | J. Čespiva, G.N. Allen, J. Skřínský, J. Krejzek, D. Kupka
Pelletised SRF for enhanced WtE processes |
| 12.15-12.30 | S. Ghosh, P. Mondal, A. Fedyukhin
Municipal waste based multi-product energy conversion system with integrated carbon separation and energy storage: Plant models and initial enviro-energetic assessment |
| 12.30-12.45 | G. Ghiotto, G. Zampieri, A. Chazis, P. G. Kougias, S. Campanaro, L. Treu
Microbiome metabolic modelling suggests a phage-driven microbial adjustments in pilot-scale CO ₂ biomethanation |
| 12.45-13.00 | P. Pari, S. Ganesh Palani, M. Othman, N. Eshtiaghi
Enhancing Biogas Production from Food Organics and Garden Organics (FOGO) through Pretreatment Strategies |
| 13.00-13.15 | M. Quintero-Naucil, L. Hincapie-Patiño, C. A. Cardona-Álzate, V. Aristizábal-Marulanda
Transformation of Plantain Rachis into Adsorbent Materials and Energy Sources via Thermochemical Routes |
| 13.15-13.30 | S. Neuburg, T. Schwarzboeck, F. Okori, R. David Lee, H. Rechberger
Exploring versatility of the Balance Method – Determining material-specific fossil CO ₂ -emission factors for RDF in Uganda |
| 13.30-13.45 | S. Rezgallah, A. Kesraoui
Sustainable Removal of Indigo Carmine Using CTAB-Modified Phragmites australis Biomass |

Friday, 26 June 2026

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| 13.45-14.00 | M. Dassatti, E. De Amicis, D. Marinidis, V. Innocenzi, B. Mattei, M. Prisciandaro
Acoustic Cavitation for Lipid Extraction from Chlorella Biomass: Preliminary Experimental Assessment |
| 14.00-14.15 | P. Reñones, G. Blanco-Brieva, M.C. Capel-Sanchez, M. Lara-Serrano, S. Morales-delaRosa, J.M. Campos-Martin
Selective deoxygenation of waste lipids over bimetallic phosphide catalysts |
| 14.15-14.30 | I.E. Achouri, H. Hassini
Eggshells valorization from waste materials into highly efficient hydroxyapatite catalyst for methane dry reforming reaction |
| 14.30-14.45 | D. Urbancl, A. Skorjanc, D. Goricanec, L. Gajst, A. Petrovic
Energy Potential of Selected Food Waste Samples: A Comparative Analysis of Flaxseed Cakes, Hemp Cake and Cherry Pits |
| 14.45-15.00 | P. Izák
The potential of non-porous polymer membranes in downstream separation processes |
| 15.00-15.15 | H. Santos Junqueira, B. de Jesus Araújo Sousa, D. Lima Medeiros, V. Maria Zanta, L. Matos Queiroz
Environmental Performance of Waste-Fuel Blending for Cement Industries: A Case Study in Northeastern Brazil |

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ROOM 2

SESSION XVIII

Tools in the field of waste management

Chair: F. Dilek, M. Wilk, L. Matos Queiroz, A. Arias

8.45-9.00	J. Tamás, N. É. Kiss, A. Nagy Life Cycle Assessment as a Decision Support Tool for Circular Nutrient Management in Broiler Production Systems
9.00-9.15	M.O. Bérghamo, L.V. Moreno, S.L. Murillo-Franco, M.A.M. Costa, K.J. Dussán Comparative Life Cycle Assessment of Spent Coffee Ground Valorization via Combustion vs. Magnetized Biochar Production for CO ₂ Mitigation
9.15-9.30	V. Veleva Environmental Assessment and Management in the Craft Beer Sector in Massachusetts, United States
9.30-9.45	C. S. Psomopoulos, Aik. Griva, A. Menti Evaluation of the energy and environmental footprint of the global PV module production by using Life Cycle Analysis
9.45-10.00	Y. Kaushik, Pr. Arora Life Cycle Assessment of Lantana–Plastic Cogasification for Sustainable Energy Generation
10.00-10.15	K. Ertugrul, F.B. Dilek Evaluation of Best Available Techniques for Paper Recycling Processes Using Life Cycle Assessment
10.15-10.30	F. Cecchini, V. Innocenzia, M. Prisciandaro, G. Mazziotti di Celso Comparison between LCA of a traditional and an innovative wastewater treatment plant aimed at water reuse for agricultural purposes
10.30-10.45	Y. D. Hernandez-Charpak, C. A. Diaz, Th. A. Trabold Life Cycle Analysis of biochar-based composites
10.45-11.00	E. Gagliano, S. Spotorno, L. Esposito, V. Tacchino, R. Canziani, D. El Chami, M. Gallo, A. Del Borghi, A. Turolla Environmental LCA and Social Hotspot Analysis of a circular process for the valorisation of sewage sludge ash and mining by-products into bio-based fertilisers
11.00-11.15	D. Sorino, L. Bartolucci, S. Cordiner, G. Costa, F. Lombardi, M. Mercurio Comparative Life Cycle Assessment of Pyrolysis vs. Incineration for the Valorization of Plastic-Organic Scraps from Anaerobic Digestion Plants

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| 11.15-11.30 | P. Watjanatepin, L. Steinwider, N. Miladinovic, L. Ceyskens, L. Eelen, T. Van Duyse, S. Vicca, T. Van Gerven, K. Van Acker
Full Life Cycle Assessment and Life Cycle Costing of Mineral Carbonation of Steel Slags as a Carbon, Capture, Utilization and Storage Material in Agriculture |
| 11.30-11.45 | F. Biagi, M. Colonna
Life Cycle Assessment of a Circular Footwear Production Chain: Environmental Performance of the ReShoes Mojito Model |
| 11.45-12.00 | O. Ozcan, N. Uzal, F.B. Dilek
Scenario-based life cycle assessment of urban wastewater reuse systems: preliminary results |
| 12.00-12.15 | J. Helenius, P. Jafarzadeh, J. Heikkonen
Deep Learning-Based Waste Material Classification Using Microwave Reflection Measurements |
| 12.15-12.30 | A. Sen, T. Aridil Ayten, I. Kucukoglu, M.K. Korucu
An integrated solution approach for the long-term municipal solid waste management planning |
| 12.30-12.45 | R. Gajera, D. Khatiwada, M. Henrysson
A combined material flow analysis and life cycle assessment of municipal solid waste management in Indian cities: Policy scenarios and uncertainty analysis |
| 12.45-13.00 | S. Ozgen, A. Wu, A. Cordoba Pacheco, F. Ruiz
Advanced adaptive control for acid gas abatement from waste-to-energy plants |
| 13.00-13.15 | B. Ulger-Vatansever, T.T. Onay, M. Turkay
A Data-Driven Analytical Modeling Framework for Waste and Energy Analysis in Manufacturing Systems |
| 13.15-13.30 | L. Vergine
Symbolic Machine Learning Modeling of Biogas and Methane Production in Full-Scale Sewage Sludge Digesters |
| 13.30-13.45 | M. Llàcer Llàcer, C. Szablewski, P. Sebastien, E. Guilvert, C. Bartolomé Rodrigo, A. Rodenas García, C. Casado Coterillo, M. Rumayor Villamil, B. Dawood Nazer, A. Motola, A. Glaser
Environmental Trade-Offs and Decision Support Criteria for Bio-Based Materials in Humanitarian Waste Management: A Life Cycle Perspective |
| 13.45-14.00 | J. Gracia, P. Acevedo
A Life Cycle Perspective on PHB Synthesis Using Mixed Sludge Cultures |

Friday, 26 June 2026

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| 14.00-14.15 | Ar. Abrar, I. Farina, M. Russo, F. Colangelo, A. Petrillo
Comparative Assessment of Wine Packaging Materials Using Life Cycle Assessment |
| 14.15-14.30 | A. Schmuck, A. Lamote, J. Delbarre, K.M. Van Geem, K. Ragaert, S. De Meester
Balancing recycling efficiency and socio-economic equity in informal waste management systems: an agent-based simulation approach |
| 14.30-14.45 | S. Bernal Neira, C. Ramírez, Y. Hernández S
Systemic Reduction of Landfill Inflows Through Organic Waste Processing Plants in Public-Private Waste Management Systems: A System Dynamics Approach |
| 14.45-15.00 | M. Struk, A. Lipka
Boosting municipal waste management performance through communication tools |
| 15.00-15.15 | Dung Le Thi Ngoc, Trung Le Van, Phu Vo Le, K. L. Phuong Nguyen
A WebGIS Solution for Industrial Waste Collection and Transportation in the Private Sector: A Case Study of Ho Chi Minh City, Vietnam |

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ROOM 3

SESSION XIX

Waste Valorisation I

Chair: A.B. Ribeiro, E. Castro, D. Hidalgo, D. San Martin

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| 8.30-8.45 | V. Karmali, D. Vathi, A. Kritikaki, K. Komnitsas
Valorisation of petalite tailings for the production of porous ceramics and alkali-activated materials |
| 8.45-9.00 | L. Rigamonti, C. Tua, G. Dolci
State of the art of the recovery of bottom ash generated by municipal solid waste incineration in Europe |
| 9.00-9.15 | S. Gotovac, Atlagić, Lj. Tankosić, M. Čelebić, E. Babajić, E. Halilčević, A. Babajić, A. Biessikirski, A. Baziak, Bartoš Handkey, O. Kerezović
Comprehensive Study of the Valorisation Potential for the Roman-era Iron Slag in Bosnia and Herzegovina |
| 9.15-9.30 | N. Landeka, S. Sukur, D. Dragojlović, S. Gotovac Atlagić
Cascade Extraction of Red Mud Components as an Economical Route to Trace Critical Raw Materials Valorization |
| 9.30-9.45 | E. Kanellou, G. Siakou, Chr. Vaitsis, P. K.Pandis, G. Sourkouni, A. Zorpas, Chr. Argirusis
Ultrasound-assisted Synthesis of Ag composites based on TiO ₂ and PANI/TiO ₂ |
| 9.45-10.00 | M. Buono, A. Nanni, G. Yaşarünlü, M. Colonna
Scalable silane functionalization of wine waste biofillers for improved interfacial compatibility in polypropylene composites |
| 10.00-10.15 | S. Magdouli, K. Preet Kaur Brar
Processing and Characterization of Fungal–Lignocellulosic Biocomposites for Sustainable Paper-Sheet Applications |
| 10.15-10.30 | A. Ramírez, J.F. Pérez, A. Parodi, M. Muñoz-Morales, J. Llanos
Development of a High-Efficiency Reactor for the Synthesis of Hydrogen Peroxide |
| 10.30-10.45 | M.E. Guatemala Cisneros, J.D.A. Loa, M.O. Hernández Jiménez, N.G. Rojas Avelizapa
Valorization of Oreochromis niloticus waste to obtain extracts with biosurfactant activity and their application as O/W nanoemulsion stabilizers |
| 10.45-11.00 | H. Ibrahim, G.D. Fowler
Production and optimisation of tyre-derived activated carbon: Understanding activation behaviour of recovered carbon black |

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| 11.00-11.15 | J. Batista, M. Carvalheira, M. Matos, M.A.M. Reis, N.D. Lourenço
Upcycling Fruit Waste and Sewage Sludge into High-Value VFAs Through Optimized Anaerobic Fermentation |
| 11.15-11.30 | J. A. Martínez-Ruano, F. Pinto, J. Carlos Ortega, G. Ciudad
Integrated valorization of cheese whey via ultrafiltration and pH-controlled chain elongation for medium-chain fatty acids production |
| 11.30-11.45 | A. Gallipoli, A. Gianico, D. Montecchio, S. Crognale, B. Tonanzi, M. Sbicego, A. Massimi, S. Angelini, F. Angelini, S. Rossetti, C.M. Braguglia
Bioprocess Strategies to Enhance Microbial Medium-Chain Fatty Acids Production from Carbohydrates-Rich Food Waste |
| 11.45-12.00 | S. Mazumdar, M. Kumar Sampath
Eco-friendly Pretreatment of Rice Husk Using a Choline Chloride–Lactic Acid Deep Eutectic Solvent for Optimized Sugar Recovery |
| 12.00-12.15 | A. Sinopoli, A. Abotaleb, N. Abounahia, F. Ferella
Recycling before recovery: dry reforming of methane using a reconditioned spent CO-oxidation catalyst |
| 12.15-12.30 | S. Mahgoub, Mohamed A. Fahmy, M. Abdelhak
Microbial Bioconversion of Chicken Feathers: Advances, Challenges, and Prospects for Sustainable Waste Valorization |
| 12.30-12.45 | Thien Nguyen Luu Minh, A. Shariatmadar Tehrani, J. Hogue, C. V. Stevens, K. M. Van Geem, S. De Meester
Removal of alkyl chlorides from plastic waste pyrolysis oil by means of reactive extraction: A kinetic study and batch reactor modeling |
| 12.45-13.00 | M. Wzorek, R. Junga, E. Yilmaz
Valorization of paper industry waste and agricultural residues via co-pyrolysis |
| 13.00-13.15 | A. Shobajo, V. Chubur, C. Yelizaveta, S. Hammond, P. Míchal, F. Mercl, T. Altyn, H. Roubík
Phosphogypsum Valorisation Enhances Seedling Vigor and Digestate Nutrient Enrichment in Anaerobic Digestion of Lignocellulosic Biomass |
| 13.15-13.30 | I. Gómez-Cruz, C.S. Sandoval-Gutiérrez, J.M. Romero-García, M.d.M. Contreras, J.A. Pérez-Pimienta, E. Castro
Comparative evaluation of pretreatments with hot liquid water and ionic liquid to overcome the recalcitrance of olive pruning in bioethanol |

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- 13.30-13.45 T.A. Centeno, S. Carpio, A. Amado-Fierro, R. Forján, E. S. Santos, J.A. Oliveira
From Urban and Construction Wastes to Technosols for Regenerative Gardening: Insights from a Two-Year Field Study
- 13.45-14.00 T. R. Siddhartha, C. A. Che, P. M. Heynderickx
Hydrothermal carbonization for effective waste conversion: exploring different feedstocks and applications
- 14.00-14.15 M. Goliszek-Chabros, B. Podkościelna, O. Sevastyanova
Valorizing Industrial By-Products: Lignin-Derived Polymeric Microspheres as Sustainable Sorbents for Emerging Pollutants in Water
- 14.15-14.30 A. S. Al Rahbi, M. Al Sharji, G. Al Hashmi, Al Zahraa Al Ghamari
Sustainable Biodiesel Production from Animal Waste via Catalytic Process Using CaO–Sulphated Alumina as a catalyst
- 14.30-14.45 A. Marchetti, S. Berhouma, F. Valentino, M. Zeppilli
Rapid Diagnostic Screening Evaluation of a Dual-Cathode Microbial Electrolysis Cell Performance for Bio-Hydrogen Production by Valorizing Real Waste-Derived Substrates
- 12.15-12.30 A. Sinopoli, A. Abotaleb, N. Abounahia, F. Ferella
Recycling before recovery: dry reforming of methane using a reconditioned spent CO-oxidation catalyst
- 12.30-12.45 S. Mahgoub, Mohamed A. Fahmy, M. Abdelhak
Microbial Bioconversion of Chicken Feathers: Advances, Challenges, and Prospects for Sustainable Waste Valorization
- 14.45-15.00 P. Gerl, J. Jony, M. Huber-Humer, C. Zafu
CO₂ sequestration of alkaline waste by direct carbonation: Analytical investigation and evaluation of sewage sludge ash, MSWI bottom ash and red mud
- 15.00-15.15 Al. Funari, M. Colonna, Al. Zambon, M. Buono, M. Garagnani
Decontamination of Oil-Contaminated HIPS Using Supercritical CO₂ Extraction

Friday, 26 June 2026

ROOM 4

SESSION XX

Plastics & Bioplastics

Chair: J. de Claville Christiansen, B. Vejrum Waehrens, S. De Meester, S. Mai

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| 8.45-9.00 | S. Ozkur, G. Sakmar, I. Yalcin-Enis, H. Sezgin
Effect of Fabric Structure and Yarn Parameters on Microplastic Fiber Release from Polyester Fabrics |
| 9.00-9.15 | X.I. Loizidou, D.L. Orthodoxou
Co-Designed Pathways to Marine Litter Management: Recommendations from Policy Analysis and Stakeholder Workshops in 11 Countries |
| 9.15-9.30 | T. Fettback, E. Freitas, S. Agarval, N. van den Hoek, S. Indriana, Dr. J. M. Kihila
Financial Sustainability of Municipal Solid Waste Management to Reduce Marine Plastic Litter: Insights from a novel Material Recovery Facility (MRF) in Dar es Salaam, Tanzania |
| 9.30-9.45 | A. Agaba, C. Chan, P. Lant, B. Laycock, S. Pratt
Understanding functional additives migration from PHA bioplastic blends in water |
| 9.45-10.00 | D.L. Orthodoxou, X.I. Loizidou, S. Malamis
Developing and Implementing Fit-for-Purpose Open Environment Degradation Studies for Novel Bioplastics |
| 10.00-10.15 | Al. Funari, M. Colonna, Al. Zambon, M. Buono, M. Garagnani
Decontamination of Oil-Contaminated HIPS Using Supercritical CO ₂ Extraction |
| 10.15-10.30 | F. Mattersberger, F. Part, M. Gasser, R. Weber, H. Rechberger
Halogenated flame retardants in European plastic pipes and ducts – Evidence for POP contamination in historic stocks |
| 10.30-10.45 | Wang Li, S. De Meester
Recovering Value from Flexible Plastic Packaging Waste: A Material Flow and Economic Assessment |
| 10.45-11.00 | F. G. Versteeg, S. de Meester
Map4Plastics: Mapping Unrecycled Plastic Streams in Belgium to Enable Circular Value Chains |
| 11.00-11.15 | P. Beigl, G. Obersteiner, C. Zafu
Bio waste in Austria – Composition of impurities, garden and household fractions, influencing factors and implications based on first nationwide, representative analysis |

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| 11.15-11.30 | M. Dalsgaard Pedersen, B. Vejrum Waehrens
Navigating Additive–Contaminant Interactions in Recycled Plastics: Implications for Waste Management and Advanced Recycling |
| 11.30-11.45 | G. Bonifazi, G. Capobianco, P. Cucuzza, S. Serranti
Identification of TiO ₂ - and CaCO ₃ -Filled Polypropylene in Recycling Streams Using SWIR Hyperspectral Imaging
BREAK |
| 11.45-12.00 | F. Traina, J. Viana, J.C. Fradinho, M. Matos, M.A.M. Reis
Impact of organic loading rate on the monomer composition and molecular weight of polyhydroxyalkanoates produced with mixed microbial cultures |
| 12.00-12.15 | A. Mouratidis
Resin Bound Plastic Waste for Base Courses of Semi-Rigid Pavements |
| 12.15-12.30 | Pr. Patel, M. Kumar, V. Kumar, P. Ghosh
Microplastic Contamination and Policy Implications in Bio-mined Soils: A Case Study from Sanitary Landfill Sites of New Delhi |
| 12.30-12.45 | J. L.Cesoniene, D. Sileikiene, A. Oleksina
Plastic recycling opportunities in Lithuania |
| 12.45-13.00 | J. Wang, N.N. Hou, Y. Wang, Y. Mu Direct
Conversion of Waste Plastics into Versatile Metal-Free Catalysts via Salt Templating |
| 13.00-13.15 | E. Luna, I. Olazabal, T. de Somer, P. Nachtergaele, X. Lopez, M. Ximenis, S. de Meester, H. Sardon
Solvent switch strategy to facilitate the downstream process of chemical recycling of plastics |
| 13.15-13.30 | I.F.A. Daras, S. Ügdüler, S. De Meester
Exploring the use of bio-based media in de-inking of printed plastics towards increasing the quality and purity of recyclates |
| 13.30-13.45 | J.C. Doolaeye, F.L. Figueira, D.R. D'hooge, S. De Meester
Development of a Ternary Fickian Diffusion Model for the Removal of Plasticisers from Poly(vinyl chloride) |
| 13.45-14.00 | N. Collier, T. De Somer, M. Roosen, S. De Meester, D. Manhaeghe
Controlling and optimizing the volatile organic compound and organic contaminant removal by improved water management in plastic recycling plants |

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| 14.00-14.15 | Chengqing Liu, Junjun Wu, Zhiyang Li, Tianhu Tao, Xun Zhu, Qiang Liao
Laser-Diagnostic-Enabled Real-time Monitoring of Gaseous Products in the Electrothermal Upcycling of Plastic Waste by Programmable Joule Heating |
| 14.15-14.30 | A. Tehrani, S. De Meester
Assessing the limitations of COSMO-RS thermodynamic model and the Gaussian output for solubility prediction of plastic additives and monomers |
| 14.30-14.45 | R. Kol, M. Van Melkebeke, A. Shariatmadar Tehrani, S. De Meester
Removal of the legacy chemical hexabromocyclododecane from polystyrene waste |
| 14.45-15.00 | S. Ozkur, H. Sezgin, I. Yalcin-Enis
Microfiber Release Behavior of PET and rPET Woven Fabrics: Influence of Material Type and Weave Structure |
| 15.00-15.15 | S. Gujar, E. Selmurzaeva, T. De Somer, S. De Meester
Hydrolysis Behaviour of PLA in Alkaline Washing and its Recycling Implications |

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ROOM 1
SESSION XXI

EU policies and strategies for solid waste management
Chair: K. Lasaridi, P. Dutournié

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| 15.00-15.15 | A. Ramos
Bridging circular economy and society: evaluating the social acceptance of circular strategies |
| 15.15-15.30 | M. Romenska
Implementation of Extended Producer Responsibility (EPR) in the EU – Key Learnings |
| 15.30-15.45 | M.Nenković-Riznić
Monitoring Local Waste Management Practices through Self-reported Municipal Data: Insights from Serbia |
| 15.45-16.00 | L. Martetschläger, S. Meilinger, I. Goerke, H. Spliethoff, S. Fendt
Waste-to-X: Municipal Solid Waste Characterization and Potential for Circular Economy |
| 16.00-16.15 | C. Chauke, J.B.N. Mudumbi
Evaluating Solid Waste Management Practices in University Cafeterias: A Case Study of CPUT Bellville Campus |
| 16.15-16.30 | K. Sobieraj, J. den Boer
Redistribution of Food Surplus from Polish Primary Schools: Legal, Organizational and Technical Aspects |
| 16.30-16.45 | M.M. Yara, E.Z. Mohamed
Enhancing Source Separation and Recycling to Achieve a Circular Economy in Egypt's Municipal Solid Waste System |
| 16.45-17.00 | P. Dutournié, E. Sculler, G. Guicheney
Modelling of Thermochemical Heat Storage for domestic heating application |
| 17.00-17.15 | I. Abdel-Hadi, Y. Biçer, G. McKay
Integrating Solar PV to Wastewater Treatment Plants for Sustainable Electricity Generation in Qatar |
| 17.15-17.30 | J. Ortigueira, M. Azevedo, H. Monteiro
Assessing Environmental Performance of Solar Panels for Informed Consumer Decisions |

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| 17.30-17.45 | N. Solomakou, D. Fotiou, M. Kontosis, M. Terzopoulos, A.M. Goula
Valorization of unused beetroots through ultrasound-assisted osmotic dehydration of potato cubes |
| 17.45-18.00 | D. Fotiou, N. Solomakou, N. Ntinopoulou, A.M. Goula
Valorisation of peach juice industry by-products: optimized sequential phenolic and pectin extraction using ultrasounds |
| 18.00-18.15 | H. Cruz-Elejalde, B. U. Olano-Oteiza, M. Amador-Cervera, A. Alonso-Vicario, A. M. Macarulla
Influence of food loss and waste prevention actions on urban waste management systems |
| 18.15-18.30 | Ö. Vardar, Z. Pınar Gumus, Y. Yildirim Soxhlet
Extraction and LC-q-TOF/MS Analysis of Catechins from Green Tea Waste |
| 18.30-18.45 | C. Altıntaş, F. Im Timbo, R. Öztep, C. Günden
Consumer attitudes toward novel foods and their implications for sustainable food transitions: A district-level study from Türkiye |
| 18.45-19.00 | Chr. Panagiotakopoulou
Performance Evaluation of Integrated Solid Waste Management Infrastructure: Lessons Learned from Long-Term Engineering Practice |
| 19.00-19.15 | D. A. Sarigiannis, S.A. Sarikou
Institutional, strategic and political framework for Hazardous Medical Waste (HMW) through the lens of climate neutrality and adaptation |
| 19.15-19.30 | Closing Session with the active participation of chair persons – Poster award ceremony – Announcement of the place for the 2027 14th International Conference on Sustainable Solid Waste Management |

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ROOM 2

SESSION XXII

Agricultural and/or livestock waste - Aerobic biological treatment - Composting
Chair: K. Gorazda, D. Skrzypczak, G. Izydorczyk, M. Pugliese

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| 15.00-15.15 | P. Tourís Sobradelo, A. Fernández Braña, J. Fierro Fernández
Sustainability assessment of innovative antibiotics degradation and resource recovery from livestock manure using fungal and enzymatic bioreactors |
| 15.15-15.30 | L. Alfarano, S. Bellezza Odon, L. Gasco, M. Pugliese
Valorization of frass and exuviae from <i>Hermetia illucens</i> as a tool for reducing <i>Fusarium</i> wilt disease on lettuce |
| 15.30-15.45 | H. O. Ani, A.C.Onovo, C. A. Mgbemene, S. O.Enibe
Characterization of carbonized palm kernel shell for thermo-physical insulation application |
| 15.45-16.00 | E. Deri, M. Adali, C. Kart, H.B. Unal, N. Azbar
Efficiency of a Biochar Surface Cover on Mitigation of CH ₄ and CO ₂ Emissions from Liquid Dairy Manure |
| 16.00-16.15 | İ. Konar, R. Kunayeva, Y.D. Yilmazel
Turning Untreated Chicken Manure into Hydrogen: <i>Thermotoga maritima</i> Performance via Culture Adaptation and Co-Digestion |
| 16.15-16.30 | S. Ogbonna Enibe
Thermal and mechanical properties of banana stem fibre-re-inforced composites for thermal insulation applications |
| 16.30-16.45 | G. Hazan Akcay, C. Mete
Assessment of Bioelectricity Generation from Campus Organic Waste-Derived Compost in Microbial Fuel Cell |
| 16.45-17.00 | A. Ahsan, S. Pradhan, G. Mckay
Organic Waste Management in the Middle East and North Africa (MENA) Region: European Policy Lessons and Climate-Adapted Composting Technologies |
| 17.00-17.15 | A. Vico, M. Bertazzo, M. I. Maestre-López, J. M. Carot-Sierra, I. Lifante, E. Orgilés-Calpena, G. Grindlay
Biodegradability of finished leather through ISO 14855-1:2013 and ISO 20136:2020: a multi-faceted analytical approach |

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| 17.15-17.30 | D. Āriņa, I. Teibe, R. Bendere
Integration of biological waste recycling results from home-composting in national waste statistics: a case study of Latvia |
| 17.30-17.45 | E. Binner, M. Huber-Humer, C. Zafu
Treatment of faeces by industrial composting – investigation on process conditions, pathogens and endocrines |
| 17.45-18.00 | Sreeparvathy S. S., G. K. Varghese, C. Zafu, S. Salhofer, Abhishek N. Srivastava, Anantha Singh T. S.
Biowaste Composting: Key Lessons for India from Austria |
| 18.00-18.15 | S. Garnier, C. Guillou, JM. Blazy, C. Barlagne
Household biowaste in Guadeloupe: a COM-B-based typology and targeted policy levers for composting uptake |
| 18.15-18.30 | A. Tadvalkar, A. Joshi
The INORA's Biotech-Led Social Engineering Model for Decentralised Methane Mitigation |
| 18.30-18.45 | S. Chandel
Vermicomposting of Coconut Corewood Waste: Investigating Maturity and Optimal Mixing Ratios Using UV-Vis, FTIR, and Fluorescence Spectroscopy |
| 18.45-19.00 | T. Arkin, N. Meir, Ze Zhu, R. Posmanik, M. Obraczka, Y. Kay, A. Gross
Biochar from Agricultural Waste Gasification: Characterization and Potential for Nutrient Recovery and Soil Enhancement |
| 19.00-19.15 | A. Tehseen, S. Martínez-Rey, A. Pedrouso, A. Mosquera-Corral, G. Feijoo, S. González-García
Forecasting the environmental impact of partial nitrification-anammox adoption in dairy Manure treatment |
| 19.15-19.30 | K. Homir, A. Talha, A. Etahiri, R. Benhida
Sustainable Solid Waste Management in Moroccan Phosphate Rock Processing: Advancing the Nitric Acid Route |
| 19.30-19.45 | G. G. Daniele, J. L. Ramos, G. Labuto, E. N. V. M. Carrilho
Valorizing agricultural waste for advanced dye removal: activated carbon and its precursor performance |

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ROOM 3

SESSION XXIII

Waste Valorisation II

Chair: G. Mancini, F. Lombardi, A. Luciano

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| 15.00-15.15 | L. Leva, A. Lobosco, A. Mariniello, G. Oliva, V. Belgiorno, V. Naddeo, T. Zarra
Microalgal-assisted integrated biotechnology for sustainable biogas upgrading and CO ₂ valorization from waste-derived feedstocks |
| 15.15-15.30 | V.C. Sandu, S. Fogarasi, A.M. Pild
Integrating 450 °C Plastic-Waste Pyrolysis with a 1000 MW Coal/Coal-Biomass Power Plant With and Without Post-Combustion CO ₂ Capture |
| 15.30-15.45 | M.A.M. Costa, A.J. da Mota, G. Albini, L.O. Freitas, L.V. Moreno, A.T. Rizzo Iritsu, A.J.D. Souza, K.J. Dussan
The potential of biomass residues in CO ₂ capture by adsorption |
| 15.45-16.00 | Jiahui Bu, Wei Ping Chan, Guicai Liu, Chat How Joewin Koh Yang, G. Lisak
Chicken manure ash as a bioresource-based material for efficient carbon dioxide capture |
| 16.00-16.15 | G. Theochari, D. Kovacheva, D. Karashanova, G. Atanasova, M. Popova
Zeolite based composites derived from rice husks and fly ash as highly-effective catalysts in CO ₂ methanation |
| 16.15-16.30 | G. Lisak, Wei Ping Chan, Jiaye Zhang, St. Heberlein, Wei Han Tu, Ya Zhao, Pr. Tan, A. Veksha, Wen Liu,
Advancing Sustainable Urbanization: A Synergistic Approach to Carbon Capture and Resource Recovery |
| 16.30-16.45 | Th. Ghislain
Advancing biochar technologies in Quebec, Canada: A model for regional decarbonization |
| 16.45-17.00 | B. Alcántar-Vázquez, R.M. Ramírez-Zamora
High CO ₂ capture performance of alkaline silicates prepared from silica-rich industrial waste |
| 17.00-17.15 | S. Khamkure, G. Vázquez-Cornejo, A. Reyes-Rosas, L. Díaz-Jiménez, P. Gamero-Melo, D. E. Pacheco-Catalán, A. Zermeño-González, L. Samaniego-Moreno
Modified Co-precipitation and Pyrolysis of Pecan Nutshells for Maghemite-Biochar Production: RSM Optimization of Aqueous Fluoride Remediation |
| 17.15-17.30 | D. Caterino, C. Maggetti, F. Simonetti, I. Olivotto, L. Bertin, M. Sgroi, A.L. Eusebi, F. Fatone
Valorization of fish-processing residues through pilot-scale pyrolysis for biochar production |

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| 17.30-17.45 | M. Hejna, J. Rosik, K. Świechowski, M. Domińska
Valorization of chicken manure into biochar and hydrochar: Influence of process conditions on VOC release and material properties |
| 17.45-18.00 | H. Mutlubas, A.Uzel, G. Duman, J.Yanik
Biochar as a seed-coating material |
| 18.00-18.15 | C. Borch, L. S. Fressato, A. Salimbeni
Pilot-scale production of high-carbon biochar and phosphorus recovery from the residual waste from mechanical treatment of OFMSW through slow pyrolysis and leaching |
| 18.15-18.30 | I. Farina, Ar. Abrar, G. Di Chiara, F. Fraternali, F. Colangelo, A. Petrillo
Optimized Cement-by-product blends for Solidification/Stabilization of Contaminated soils |
| 18.30-18.45 | D. Bonanno, A. Luciano, G. Benina, C. Gatto, G. Mancini
A circular approach for the treatment of hazardous incineration bottom ash containing molybdenum |
| 18.45-19.00 | Yi-Lin Shen, Pin-Jing He, Fan Lü, Hua Zhang
Dynamic Pseudo-Labeling for Multi-Target Characterization of Solid Waste Residues Using Semi-Supervised Spectral Learning |
| 19.00-19.15 | Qinghua Guo, Yan Gong, Guangsuo Yu, Xingjun Wang, Fuchen Wang
Effect of oxidation treatment on structural characteristics and combustion kinetics of residual carbon from coal gasification fine slag |
| 19.15-19.30 | C. C. Siguinolfi, G. Labuto, E. N.V.M. Carrilho
Sustainable sugarcane-based magnetic biosorbents: an efficient solution for antidepressant removal from complex aqueous matrices |
| 19.30-19.45 | Th. S. Castão, J. L. Ramos, G. Labuto, E. N.V.M. Carrilho
Agro-industrial waste valorization: magnetic activated carbon from sugarcane bagasse for dye removal |

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ROOM 4
SESSION XXIV

Sludge Management & Recovery of materials from wastewater & sludge
Chair: A. G. Capodaglio, P. Hlavinek, C. Pastore

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| 15.00-15.15 | C. Pastore, V. D'Ambrosio, V. Locaputo, L. di Bitonto
Urban sewage scum as a source of biodiesel: from waste to resources |
| 15.15-15.30 | Z. Prus, K. Szkadłubowicz, J. Mikusińska, I. Kalembe-Rec, K. Styszko, A. Magdziarz, M. Wilk
Comparative analysis of microplastics extracted from sewage sludge pretreated in a laboratory and a semi-pilot hydrothermal carbonization units |
| 15.30-15.45 | A. Serra-Toro, S. Caltavituoro, T. Romero-Vidal, H. Hellín, F. Mas, J. Vila, D. Bolzonella, J. Dosta
Combination of acidogenic fermentation and gas-permeable membranes to produce VFA and recover ammonia |
| 15.45-16.00 | R.A. Timmers, F. Corona Encina, D. Hidalgo Barrio
Electrochemical Characterization of a Three-Chamber Microbial Fuel Cell for Simultaneous Ammonium and Phosphate Recovery |
| 16.00-16.15 | E. Korotenko, M. Šyc, J. Jadrný, V. Veselý, P. Mašín
A novel approach to gypsum recovery from MSWI plants with sodium-based wet flue gas treatment systems: results, challenges, and perspectives |
| 16.15-16.30 | Shon Shiju, P. Quille, N. O'Leary, B. K. Thiwari, G. Rajauria
Integrated Ultrasound-Microwave Assisted Extraction as a Scalable Strategy for Humic Substance Recovery from Digested Sewage Sludge |
| 16.30-16.45 | K. Szkadłubowicz, Z. Prus, J. Mikusińska, M. Wilk
Hydrothermal Carbonization as a Sustainable Pathway for Sewage Sludge Valorisation |
| 16.45-17.00 | Zahin Amrad, Wei Han Tu, Yunhui Hua, Wei Ping Chan, G. Lisak
Aluminium and phosphorus recovery from gasification sewage sludge slag via a multi-step wet-extraction system |
| 17.00-17.15 | Z. Prus, K. Szkadłubowicz, J. Mikusińska, K. Styszko, A. Magdziarz, M. Wilk
Microplastic Occurrence in Sewage Sludge from Polish Wastewater Treatment Plants in Relation to Facility Size and Sludge Treatment |
| 17.15-17.30 | L. Mezule, R. Zarina
Enzymatic hydrolysis of wastewater treatment process waste |

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| 17.30-17.45 | M. Kit Kakuru, A. Turinawe, J. Baptist Tumuhairwe, T. Schwarzböck, R. David Lee, J. Karungi, J. Mugisha
Social value of the welfare benefits and potential demand for improved fecal sludge management in urban settlements in Uganda |
| 17.45-18.00 | N. Žizkova, J. Hodul, P. Hlavinek, T. Chorazy, J. Racek
Potential use of sewage sludge derived biochar as a partial cement replacement in polymer modified cement mortars |
| 18.00-18.15 | S. L. Parra-Angarita, A. Léonard
Towards a better understanding of sewage sludge drying through its viscoelastic properties |
| 18.15-18.30 | A. Anand, O. Soni, G. Balasundaram, P. Gahlot, A.A. Kazmi, V.K. Tyagi, H. Kleiven, A. K. Sahu
Impact of Thermal Pretreatment on Codigestion of SBR sludge and Municipal Solid Waste |
| 18.30-18.45 | B. S. Abhirami, T. S, Anantha Singh
Sewage Sludge: A potential biocatalyst for the treatment of wastewater |
| 18.45-19.00 | S. Fatima, J. Žaltauskaitė
Cadmium-contaminated soil phytoremediation by intercropping <i>Medicago sativa</i> with oilseed rape (<i>Brassica napus</i> L.) |
| 19.00-19.15 | R. Kumar Sonwani, D. Patel
Innovative development of high-performance biochar for efficient dye removal |
| 19.15-19.30 | M. Mahboob, M. Zain, A. S. Nizami
Producing Zinc Coated Enriched Biofertilizer from Bio-digestate |