



National
Technical
University
of Athens



Municipality of Ancient Olympia



NAXOS2018

13-16 June 2018

**6th International
Conference**

on

**Sustainable Solid Waste
Management**

<http://www.naxos2018.uest.gr>



NAXOS2018

6th International Conference on
Sustainable Solid Waste
Management

13-16 June 2018



Demonstrating resource efficiency through innovative,
integrated waste recycling schemes for remote areas
LIFE14 ENV/GR/000722

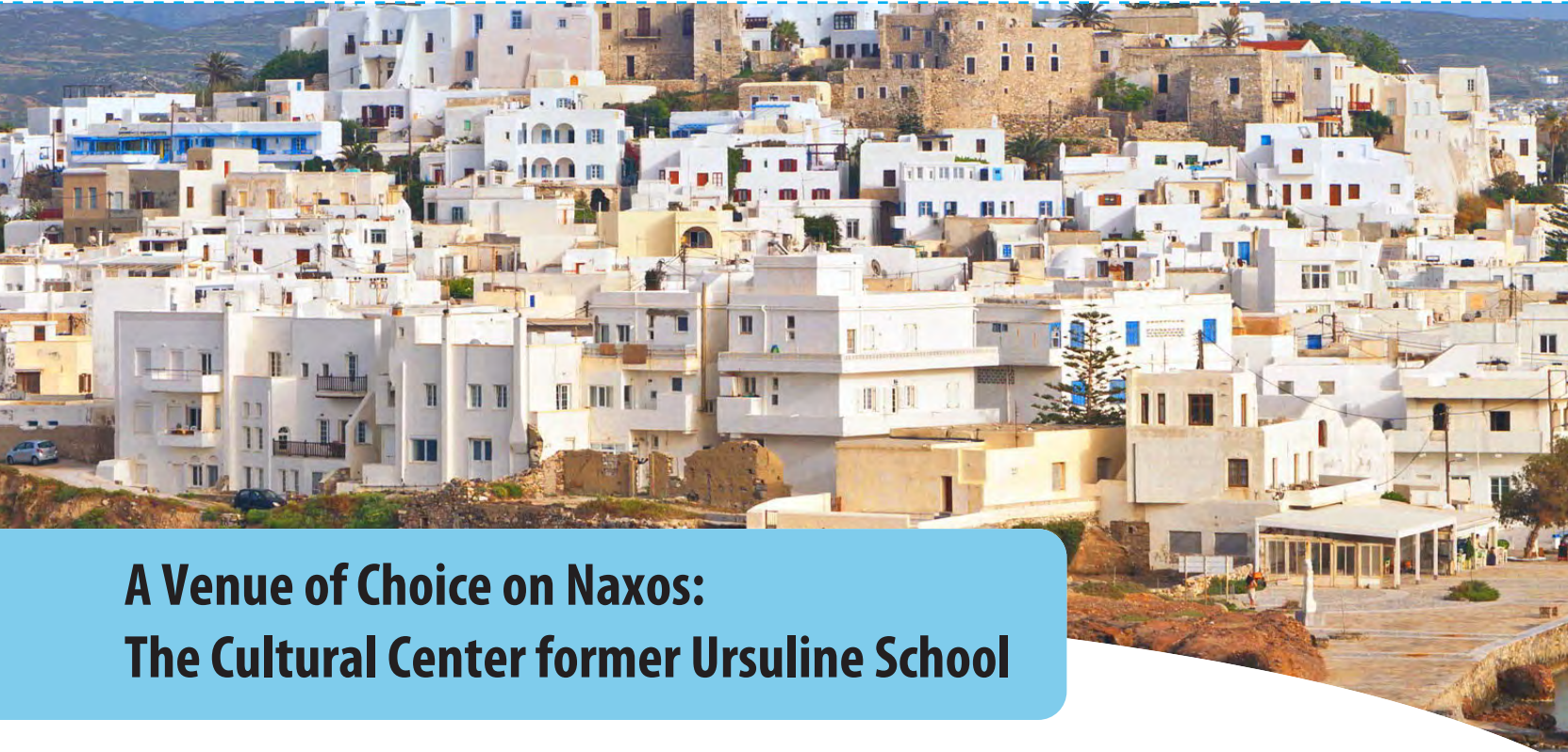


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Conference Venue



A Venue of Choice on Naxos: The Cultural Center former Ursuline School

The Greek islands are ideal places to hold business and industry events because they offer the incentive and opportunity to participants to travel to an idyllic place. Naxos Island is not just a summer tourism destination. As an historic and leading commercial hub of the Aegean, Naxos is surely a Greek Cycladic island ideal for a conference.

While there are several venues that may host conferences in Naxos, concerts and exhibitions, the venue with the greatest capacity (800 participants) is known as The Cultural Center former Ursuline School.

Located at the highest point of the medieval castle district known as Kastro, the Ursuline School offers spectacular panoramic views onto the Aegean, the Temple of Apollo and surrounding islands, Paros, Mykonos and Syros.

Visible from far, the newly restored and renovated three-story neoclassic building elicits an aura of science and academia; a milieu befitting to its history as one of Greece's finest convents for schooling at the time. The school started to be built in 1739 and was in operation until 1970. Restored in 2009, it reopened as a state-of-the-art cultural center equipped with all necessary facilities and outlets for communications and office administration requirements (desks, computers, phone, audio visual, wifi...). Local suppliers are available to provide necessary supplies, services and support. Since opening, it has hosted international conferences and symposiums in different scientific fields as well as artistic and cultural events and exhibitions.

Summer School

An aerial photograph of a coastal town, likely Naxos, Greece. The town is built on a hillside overlooking a harbor filled with boats. In the foreground, a stone archway stands on a rocky, vegetated cliff overlooking the sea. The sky is clear and blue.

1st PhD Summer School and Executive Training on Solid Waste Management, 11 & 12 June 2018

The summer school will cover the following topics:

Legal Framework and Policy, Municipal Solid Waste treatment technologies, Anaerobic Digestion, Circular Economy, Waste-to-Energy, Sustainable Management.

The summer school will include 16 teaching hours in total on 11th & 12th of June 2018. On June 13th, 2018, the participants will attend the Poster Session of the "NAXOS 2018 6th International Conference on Sustainable Solid Waste Management" and a final session/ roundtable with the main topic being the "State-of-the-art and future directions of Sustainable Solid Waste treatment: the pathway to Circular Economy". Individual final assignments will be assigned to the participants and the grading of the course will be done on a Pass/ Fail basis. A certificate of attendance will be given to all the attendees.

Social Events

A welcome cocktail will be offered at 20.00 on **Wednesday 13th June 2018**

The Gala Dinner of the NAXOS 2018 Conference will be held on **Thursday 14th June 2018**

A full-day excursion-site visit will take place on Saturday 16th June 2018

Starting from Naxos town at 8.30 and through the villages Glinado, Ag. Arsenios and Vivlos, whose residents produce the Naxian potato, we will arrive at Sagri where we visit the ancient temple dedicated to Apollo and Demeter. We will continue through the valley of Tragaia and we will stop at the village Halki with its mansions, the Byzantine church of Panagia Protothroni and the citrus distillery. Next stop is Apiranthos village with its marble paved alleys. Apiranthos has 4 small museums. The Archaeological Museum mainly hosts findings of the Proto-Cycladic period, the Geological Museum with its approximately 2,000 exhibits, the Natural History Museum with a collection of the area's fauna, flora and a small aquarium, while the Folklore Museum displays traditional fabrics, embroidery and tools. Finally, we will move to a sandy beach for swimming, etc. The estimated return time is about 17.30-18.00.



Committees

Scientific Committee

Maria Loizidou, National Technical University of Athens, Chair

- Abdul-Sattar Nizami, King Abdulaziz University
- Adam Smoliński, Central Mining Institute
- Adela Galvin, University of Cordoba
- Ahmed El-Gendy, American University in Cairo
- Aleksandra Djukic-Vukovic, University of Belgrade
- Alexandra Ribeiro, Universidade Nova de Lisboa
- Amane Jada, IS2M-CNRS
- Ana Jiménez-Rivero, Universidad Politécnica de Madrid
- Anastasia Zabaniotou, Aristotle University of Thessaloniki
- Anastasios Zouboulis, Aristotle University of Thessaloniki
- Andrea Capodaglio, University of Pavia
- Andres Illanes, Universidad Católica de Valparaíso
- Ange Nzihou, Ecole des Mines d'Albi
- Antonis Mavropoulos, International Solid Waste Association
- Antonis Zorpas, Open University of Cyprus
- Apostolos Koutinas, Agricultural University of Athens
- Apostolos Vlyssides, National Technical University of Athens
- Barbara Ruffino, Politecnico di Torino
- Carlos Ariel Cardona Alzate, Universidad Nacional de Colombia sede Manizales
- Carol S.K. Lin, City University of Hong Kong
- Celia Dias-Ferreira, Polytechnic of Coimbra
- Chew-Tin Lee, University Technology of Malaysia
- Christopher Cheeseman, Imperial College
- Christopher Koroneos, National Technical University of Athens
- Costas Costa, Cyprus University of Technology
- Costas Velis, University of Leeds
- David Bolzonella, University of Verona
- David Newman, World Biogas Association
- Dimitrios Kaliampakos, National Technical University of Athens
- Dimitrios Komilis, Democritus University of Thrace
- Dimitrios Malamis, National Technical University of Athens
- Dolores Hidalgo Barrio, CARTIF Technology Centre
- Evina Katsou, Brunel
- Filiz Dilek, Middle East Technical University
- Francesco Fatone, Marche Polytechnic University
- Francisco Agrela, University of Cordoba
- Francisco Omil, Universidad de Santiago de Compostela
- Florian Amlinger, European Compost Network
- Georgia Labuto, Universidade Federal de Sao Paulo
- Gerasimos Lyberatos, National Technical University of Athens
- Giuseppe Mancini, University of Catania
- Gregorio Antolín, University of Valladolid
- Grigorios Itskos, Purdue University
- Hussam Jouhara, Brunel University
- Ioannis Skiadas, Technical University of Denmark
- Isam Janajreh, Masdar Institute
- Jader Busato, Universidade de Brasília
- Jale Yanik, Ege University
- Jiri Hrebicek, Masaryk University
- Joan Dosta, University of Barcelona
- Joseph Patrick Hettiaratchi, University of Calgary
- Joseph Zeaiter, American University of Beirut
- Juan Antonio Baeza Labat, Universitat Autònoma de Barcelona
- Justo García-Navarro, Universidad Politécnica de Madrid
- Katarzyna Chojnacka, Wrocław University of Technology
- Katherine-Joanne Haralambous, National Technical University of Athens
- Katia Lasaridi, Harokopio University
- Kiran Thakur, Hefei University of Technology
- Konstantinos Aravosis, National Technical University of Athens
- Konstantinos Moustakas, National Technical University of Athens
- Laurent Lemeé, Université de Poitiers
- Lidia Lombardi, Università degli Studi Niccolò Cusano - Telematica Roma
- Lionel Limousy, Université de Haute-Alsace
- Lorna Anguilano, Brunel University
- Luben Tzankov, Technical University of Sofia
- Luciano Matos Queiroz, University of Bahia
- Marc Deshusses, Duke University
- Marco Baratieri, Free University of Bolzano
- Maria Zachariou-Dodou, Institute of Environment & Sustainable Development
- Mauro Majone, Sapienza University of Rome

Committees

Mejdi Jeguirim, Université de Haute-Alsace
Michalis Kornaros, University of Patras
Nathalie Gontard, French National Institute for Agricultural Research
Nick Voulvoulis, Imperial College
Nikolaos Themelis, Columbia University
Nikolaos Mousiopoulos, Aristotle University of Thessaloniki
Nikolaos Tzortzakis, Cyprus University of Technology
Omar Assobhei, University of Fez
Pascale Champagne, Queen's University
Paul Chen, National University of Singapore
Paul Christakopoulos, Lulea University of Technology
Petros Gikas, Technical University of Crete
Rafael Luque, University of Cordoba
Rémy Bayard, DEEP - INSA Lyon - Université de Lyon
Ronghou Liu, Shanghai Jiao Tong University
Rui Cunha Marques, University of Lisbon
Siegfried Vlaeminck, University of Antwerp
Simos Malamis, National Technical University of Athens
Spyros Pavlostathis, Georgia Tech
Stephen Smith, Imperial College
Stijn Van Hulle, Ghent University
Ta Yeong Wu, Monash University
Thierry Ribeiro, UniLaSalle
Thomas Pretz, RWTH Aachen University
Ulku Yetis, Middle East Technical University
Vassilis Inglezakis, Nazarbayev University
Weiguo Shen, Wuhan University of Technology
Zhao Jun Wei, Hefei University of Technology
Zorana Naunovic, University of Belgrade

Organizing Committee

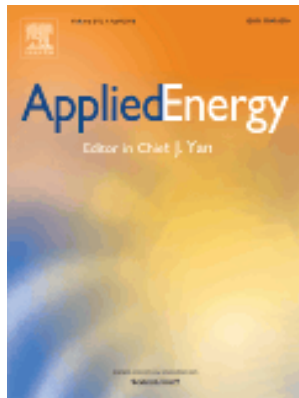
Konstantinos Moustakas, National Technical University of Athens, Head

Christina Papadaskalopoulou, National Technical University of Athens
Despoina Bakogianni, National Technical University of Athens
Dolores Hidalgo Barrio, CARTIF Technology Centre
Dimitrios Lianos, Municipality of Naxos and Small Islands
Dimitrios Malamis, National Technical University of Athens
Evangelia Ploumistou, National Technical University of Athens
Francisco Corona Encinas, CARTIF Technology Centre
Jesús M^a Martín, CARTIF Technology Centre
Nikolaos Kondylis, Municipality of Naxos and Small Islands
Nikolaos Lolos, Municipality of Ancient Olympia
Stergios Vakalis, National Technical University of Athens
Varvara Lavouta, National Technical University of Athens
Vasiliki Panaretou, National Technical University of Athens



Publishing in Journals

The high quality NAXOS 2018 papers will be published after evaluation in:



a Special Issue of APPLIED ENERGY (Elsevier, Impact Factor: 7.182)



a Special Issue of WASTE & BIOMASS VALORIZATION (Springer, Impact Factor: 1.337)



a Special Issue of ENVIRONMENTAL SCIENCE and POLLUTION RESEARCH (Springer, Impact Factor: 2.741)



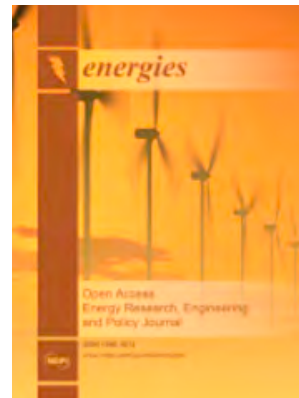
WASTE MANAGEMENT & RESEARCH (Impact Factor: 1.803)



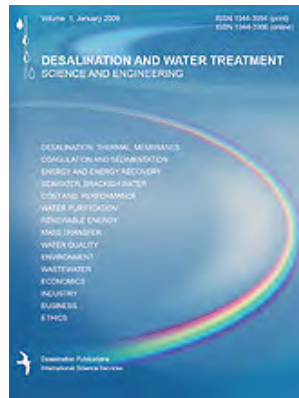
a Special Issue of JOURNAL OF CHEMICAL TECHNOLOGY & BIOTECHNOLOGY (Wiley, Impact Factor: 3.135).



JOURNAL OF HAZARDOUS MATERIALS (Elsevier, Impact Factor: 6.065)



a Special Issue of ENERGIES (Impact Factor: 2.262)



a Special Issue of DESALINATION & WATER TREATMENT (Impact Factor: 1.603).

circular economy ethanol biotechnology food waste
biowaste valorization recycling materials glass
specific waste streams metal paper biofuels
waste-to-energy composting anaerobic digestion
gasification pyrolysis incineration biopolymers
energy tools prevention reuse landfill biomass WEEE
C&D waste plastics marine litter bioplastics
biorefineries innovation agricultural waste zero
waste policy strategy islands isolated areas



NAXOS2018
agenda

Agenda 2018

Wednesday, 13 June 2018

Room 1

Welcome Speeches - Keynote session 1 9.15-11.00

Room 1

MSW management - Experience of local authorities on waste management 11.30-15.00

Lunch Break 14.15-15.00

Aerobic Treatment 15.00-18.45

Room 2

Circular Economy 11.30-14.30

Lunch Break 14.15-15.00

Waste Management Tools & Novel Technologies 15.00-18.00

Thursday, 14 June 2018

Room 1

Keynote session 2 9.00 - 10.45

Room 1

Bioprocesses, Biorefineries in waste management I 11.15-14.30

Lunch Break 14.15-15.00

Anaerobic Digestion 15.00-18.30

Room 2

Tools in the field of waste management 11.15-13.45

Lunch Break 14.15-15.00

Policy, Prevention, Socio economic Issues and Management in Islands & Isolated Areas 15.00-19.30

Friday, 15 June 2018

Room 1

Waste-to-Energy 9.15-14.00

Lunch Break 14.15-15.00

Biofuels from Waste 15.00-19.00

Room 2

Recycling, Waste & Resource Recovery 9.15-14.00

Lunch Break 14.15-15.00

Hazardous Waste Management 15.00-18.30

Agenda 2018

Room 3

Construction & Demolition Waste	11.30-14.15
Lunch Break	14.15-15.00
Waste & Resource Recovery I	15.00-19.00

Room 4

Marine Litter, Plastics-Bioplastics, Waste from Electrical & Electronic Equipment	11.30-14.45
Lunch Break	14.15-15.00
Management of Specific Waste Streams	15.00-17.15

Room 3

Water-Energy efficiency: From practice to policy	11.15-13.45
Lunch Break	14.15-15.00
Food waste management, bioeconomy, food industry, Source Separation schemes	15.00-18.45

Room 4

Master-class on Horizon 2020: How to win funds for your innovative research projects? The experience of Coordinators of H2020 projects	11.15-14.15
Lunch Break	14.15-15.00
Waste & Resource Recovery II	15.00-18.30

Room 3

Bioprocesses, Biorefineries in waste management II	9.15-13.45
Lunch Break	14.15-15.00
Characterisation of Waste Residues	15.00-18.30

Room 4

Agricultural Waste Management	9.15-14.00
Lunch Break	14.15-15.00
Sludge Management	15.00-18.15

8.00-9.15

Registration

ROOM 1

Welcome Speeches

9.15-9.45

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9.45-11.00

Keynote Speakers

Chair: M. Loizidou, D. Newman

Patrik Kolar, EASME, Department B: LIFE and H2020 Energy, Environment, Resources
"Latest developments in H2020 SC5 and LIFE"

Georges Kremlis, European Commission, DG Environment
"Circular Economy and Waste Management"

David Newman, World Biogas Association
"Urban Food Waste Management: The WBA, C40 report for cities on the challenge of managing food waste"

Nathalie Gontard, National Institute for Agricultural Research (INRA)
"Toward a zero persistent plastic bio-economy: challenges and opportunities to eradicate plastic waste, especially in the agricultural and food sectors"

Maria Loizidou, National Technical University of Athens, Chair
"Demonstrating resource efficiency through innovative, integrated waste recycling schemes for remote areas"

11.00-11.30



Coffee Break

ROOM 1

SESSION I

MSW management - Experience of local authorities on waste management **Chair: S. Chionidis, G. Kremlis, M. Loizidou**

11.30-11.45	G. Patoulis, Central Union of Municipalities Waste management in Greece
11.45-12.00	E. Kapetanios, General Secretary, General Secretariat for Waste Management Coordination Prospects and opportunities of waste management in Greece
12.00-12.15	S. Chionidis, Central Union of Municipalities in Greece
12.15-12.30	M. Geranis Solid Waste Management: Third generation, the "Egnatia" Project
12.30-12.45	K. Paterakis, DEDISA Sustainable municipal solid waste management in Chania
12.45-12.55	G. Konstantzos, D. Malamis, K. Moustakas, M. Loizidou Effective waste management at municipal level
12.55-13.10	G. Papadakis, FODSA of Boreias Pediadas Waste Management in Boreia Pediada in Crete
13.10-13.20	S. Margariti Waste Management in the Municipality of Naxos and Small Islands
13.20-13.30	S. Vakalis, K. Moustakas, D. Malamis, M. Loizidou Gasification as a potential pathway for the decentralized production of heat and power
13.30-13.45	S. Koroneou, E.Z. Stamatopoulou The waste paper recycling program in Attica Region
13.45-14.00	T. Manios, F. Galliou, A. Maragkaki Bio-waste: Alternative Solutions for High Added Value Products
14.00-14.15	P. Kafasis, DIADYMA SA Waste management in Western Macedonia
14.15-14.30	C. De La Paz LIFE: good practice on sustainable MSW

14.30-14.45	D. Papadopoulos, A. Christidis Municipal waste management in the Municipality of Elefsina
14.45-15.00	A. Mavraganis Waste management in the Municipality of Vrillissia
14.15-15.00	Lunch Break

ROOM 2 SESSION II

Circular Economy

Chair: K. Chojnacka, R. Bayard, A. Mousavi

11.30-11.45	J. Quoden, M. Romenska Extended Producer Responsibility as key tool to implement Circular Economy
11.45-12.00	P. Martel-Naquin, J. Lacour, G. Jean, R. Bayard Municipal waste valorization in Haiti: how experimentation can be used as advocacy for circular economy
12.00-12.15	A. Podder, D. Reinhart, R. Goel Where do landfills fit in the changing paradigm of circular economy- resource recovery and social aspects
12.15-12.30	G. Hafner, M. Rubach, P. PilsI, D. Leverenz Food waste monitoring and energy saving potential
12.30-12.45	A. Frigo, M. Lucchini Working together towards circular economy: recovery and redistribution of surplus food for social purposes
12.45-13.00	J. Van Caneghem, K. Van Acker, C. Vandecasteele, G. Wauters How waste-to-energy plays an essential role in the circular economy

13.00-13.15	K. Chojnacka Bio-based fertilizers: a practical approach towards circular economy
13.15-13.30	A. Ibn Ferjani, M. Jeguirim, N. Thevenin, S. Jellali, H. Arkout, S. Bennici, L. Limousy Soil amendment with pyrolysed grape marc residue: a circular economy study
13.30-13.45	Benhua Liu, Zhengrun Wei, Xu Guan The groundwater polluting analysis of a Zibo industrial park
13.45-14.00	J. Ann Baker, M. Samuel Moesby Tinggaard, P. Enevoldsen, G. Xydis Circular economy in relation to manufacturing companies producing kitchens - a method for realizing the theory in practice
14.00-14.15	I. Ortiz, Y. Torreiro, G. Molina, M. Maroño, J.M. Sánchez A feasible application of circular economy: spent grain energy recovery in the beer industry
14.15-14.30	A. Mousavi, P. Stanchev, V. Angadi, E. Katsou Clockwork Circular Economy – The principle of Zero Breakdown of Circular Economy Technologies
14.30-14.45	H.-G. Baum Economic Conditions for Recycling of Waste

ROOM 3

SESSION III

Construction & Demolition Waste

Chair: C. Gutiérrez Palacios, V.M. Zanta, B. Ruffino

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|-------------|--|
| 11.30-11.45 | M. Bassani, L. Tefa, P. Palmero
Alkali-activation of construction and demolition waste components for stabilization purposes |
| 11.45-12.00 | C. Gutiérrez Palacios
Methodology to determine the amount and composition of construction waste from collapsed buildings |
| 12.00-12.15 | C.T. Nzogo Metoule, S. Delaby, J.H. Ferrasse, O. Boutin
Hydrothermal process development for the treatment of asbestos containing waste |
| 12.15-12.30 | P. Priyadharshini, K. Ramamurthy, R. G. Robinson
Use of excavated soil waste as fine aggregate in cement mortar: Influence of different treatment methods |
| 12.30-12.45 | A. López-Uceda, J. Ayuso, A.P. Galvin
Mechanical performance of Recycled Aggregate from CDW at long term varying gypsum content |
| 12.45-13.00 | L.C.B. Santos, L.M. Queiroz, V.M. Zanta
Performance evaluation of a small and decentralized recycling unit as an alternative for construction and demolition waste valorization |
| 13.00-13.15 | E. Choorackal, P. P. Riviera, D. Dalmazzo, E. Santagata, L. Zichella, P. Marini
Reuse of reclaimed asphalt pavement and mineral sludges in fluidized thermal backfills |
| 13.15-13.30 | S. Karimpour Zahraei, M. Jalili Ghazizade
Recycling of Construction & Demolition Waste (challenges and opportunities) |
| 13.30-13.45 | N. Kumar Jain, K. Bhaskar, S. Jain
An empirical study of attitude towards construction and demolition waste recycling: Integrating social impression and environmental consciousness with theory of planned behaviour |
| 13.45-14.00 | B. Ruffino, A. Farina, A. Vercelli, D. Dalmazzo, G. Blengini, M.C. Zanetti, E. Santagata
Recycling paint sludge in asphalt pavements: cost-benefit and life cycle assessment |
| 14.00-14.15 | A. Cannone Falchetto, K.H. Moon, D. Wang, C. Riccardi, M.P. Wistuba
Experimental investigation on double recycling of asphalt mixture for pavement applications |

ROOM 4
SESSION IV

**Marine Litter, Plastics-Bioplastics, Waste from Electrical
& Electronic Equipment**

Chair: K. Lasaridi, A. Gross, C. Velis

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|-------------|--|
| 11.30-11.45 | C. Velis, D. Lerpiniere, M. Tsakona
Plastic marine litter- Stop the leakage now! |
| 11.45-12.00 | M. Tinggaard, R.A. Hansen, A. Gross
Can WasteWater Treatment Plants (WWTP) clean the sewage for microplastics?
(using a newly developed filtration instrument) |
| 12.00-12.15 | R.A. Hansen, A. Gross
Longitudinal sampling design and instrument development for investigation of microplastics
in costal sediments |
| 12.15-12.30 | G. Vyncke, J. Onnekink, T. Feenstra, K. Ragaert
Design from Recycling for post-consumer WEEE plastics |
| 12.30-12.45 | D. Briassoulis, A. Pikasi, M. Hiskakis
Inventory of alternative end-of-life routes of bio-based products – A Review |
| 12.45-13.00 | D. Rajasekaran, P.K. Maji
Recycling of PE and PET plastic wastes by using poly (ethylene-co-methacrylic acid) ionomer
as compatibilizer |
| 13.00-13.15 | G.-W. Jang
Synthesis and Applications of Bio-based Polyesters |
| 13.15-13.30 | A. Genc, S. Sarac
Mechanical Recycling of Plastic Solid Waste in an Urban District in Turkey |
| 13.30-13.45 | I. Janajreh, I. Adeyemi, S. Elagroudy
Kinetic Evaluation and Gasification of Household Plastic Waste into Syngas Stream |
| 13.45-14.00 | K. Lasaridi, K. Boikou, K. Kalafata, C. Chroni, Ch. Angelakopoulos, K. Abeliotis
Mapping EEE reuse and WEEE preparing for reuse practices and initiatives in Greece |

13.45-14.00	K. Lasaridi, E. Terzis, C. Chroni, K. Abeliotis Statistics in the national e-scrap arisings and their movement between countries
14.15-14.30	J. M. Alghazo, O. K. M. Ouda, M. Rehan, A. S. Nizami Economic and Environmental Values of Electronic Waste in the GCC Region
14.30-14.45	C. Chroni, E. Terzis, K. Abeliotis, Ch. Angelakopoulos, K. Lasaridi A country specific assessment of EEE lifespan distribution based on a questionnaire-based survey

ROOM 1

SESSION V

Aerobic Treatment

Chair: S. Smith, T.Y. Wu, D. Malamis

15.00-15.15	M. Sakarika, R. Baetens, K. Vinck, M. Spiller, K.C. Vrancken, G. Van Barel, E. Du Bois, S.E. Vlaeminck Enabling decentralized pre-composting of organic household waste with a novel high-rate bioreactor
15.15-15.30	K. Chassapis, M. Roulia, G. Panagopoulou, D. Gkikas Innovative biotreatment of oil mill wastes to produce a first class soil conditioner
15.30-15.45	T. Jiang, J.L. Chang, X.G. Ma, J. Yang, G.X. Li Linking N ₂ O emissions to specific functional microbial community structure under different composting models
15.45-16.00	M. Kumar Awasthi, Z. Zhang Antibiotic Resistome and Its Association with Bacterial Communities during Chicken Manure Composting
16.00-16.15	J.L. Chang, T. Jiang, G.X. Li Antibiotic resistance genes variation pattern and microbial community succession during pig manure composting with different management modes
16.15-16.30	Z. Zhang, M. Kumar Awasthi Clean compost: pollution control: during composting of livestock and poultry manure

16.30-16.45	G. Jean, P. Martel-Naquin, R. Bayard, J. Lacour Composting of dry toilets solid residues: evolution of the characteristics over time
16.45-17.00	A. Hanc, T. Castkova Vermicomposting of distillery residues in a vertical-flow windrow system
17.00-17.15	S. Hemidat, M. Saidan, A. Nassour, M. Nelles Study and Assessment of Segregated Biowaste Composting: The Case Study of Jordan
17.15-17.30	G. Hafner, M. Reiser, M. Ruiz Treatment of residuals from coffee production in Costa Rica. Organic Waste- and Resources Management in the context of NAMA Café de Costa Rica
17.30-17.45	Jing Yuan, Difang Zhang, Yun Li, Wenhai Luo, Hongyu Zhang, Ji Li, Guoying Wang, Guoxue Li Effects of aeration method, aeration rate and turning frequency on bio-drying performance of municipal solid waste
17.45-18.00	S. Chelinho, J. P. Sousa Quality Standards for Urban Waste Composts: the need for biological susceptibility data
18.00-18.15	A. Lieto, D. Zingaretti, F. Lombardi, R. Gavasci Effect of a secondary maturation phase on the leaching behaviour of MBT waste
18.15-18.30	E. Christodoulou, A. Agapiou, I. Anastopoulos, M. Omirou, I.M. Ioannides Nitrogen cycling in soils under different nutrient management schemes
18.30-18.45	G. Seintis, I. Ntzoura, A. Vlysidis, A. Vlyssides Mathematical model of nitrification-denitrification in one stage under anoxic conditions

ROOM 2

SESSION VI

Waste Management Tools & Novel Technologies

Chair: D. Hidalgo, A. Erdinçler, R. Liu

- | | |
|-------------|--|
| 15.00-15.15 | D. Hidago, J.M. Martín-Marroquín, F. Corona
Economically sustainable system for multi-waste management: the "Mixed Plant" concept |
| 15.15-15.30 | S. Vakalis, K. Moustakas, M. Loizidou
Applications of the 3T Method as an efficiency tool for Waste-to-Energy facilities and numerical comparisons with the R1 Formula |
| 15.30-15.45 | M. Prasad, A. Kavanagh, A. Chrysargyris, N. Tzortzakis
Chemical characterization of Biochars using parameters that are relevant to its use as a component of a peat based growing media |
| 15.45-16.00 | E. Özön, A. Erdinçler
Biochemical Methane Production Potential of the Microwave, MW/H ₂ O ₂ and MW/S ₂ O ₈ ²⁻ Pre-treated Wastewater Sludges |
| 16.00-16.15 | Yuanfei Mei, Chenjie Shen, Biaobiao Liu, Ronghou Liu
Effect of Methanol Addition on Properties and Aging Reaction Mechanism of Bio-oil during Storage |
| 16.15-16.30 | R. Bayard, P. Buffière
An improved methodology to assess the organic biodegradability and the biochemical methane potential of solid organic matter and biowaste |
| 16.30-16.45 | L. Vorotinskienė, N. Striūgas, K. Zakarauskas, R. Paulauskas, R. Skvorčinskienė
Investigation on parameters affecting biofuel drying during combustion in furnaces |
| 16.45-17.00 | M. De Sanctis, S. Chimienti, G. Sgaramella, C. Pastore, V. Piergrossi, C. Di Iaconi
Energy recovery from Posidonia oceanica residues by a thermo-chemically enhanced anaerobic digestion process |
| 17.00-17.15 | J. Oladejo, K. Shi, P. Guo, S. Adegbite, T. Wu
An Evaluation of Sludge-to-Energy Recovery Methods |
| 17.15-17.30 | Y. Ma
Using beneficial bacteria to facilitate phytoremediation of metal polluted soils under drought stress |

- 17.30-17.45 V. Diamantis, A. Aivasidis, D. Marmanis, K. Dermentzis
Coupling anaerobic digestion and electrooxidation for sustainable waste treatment: a review
- 17.45-18.00 C.C.G. Andrade, P.D.B. Coelho, L.C.G.M. Teixeira
Benefits of the selective collection in the public company Companhia Docas do Pará - CDP, in the Amazon / Brazil

ROOM 3

SESSION VII

Waste & Resource Recovery I

Chair: J. Wang, S. Van Hulle, L. Limousy

- 15.00-15.15 V. Sygouni, A. G. Pantziaros, E. Sfetsa, C. A. Paraskeva
Treatment of two-phase olive –oil wastewater and recovery of phenolic compounds
- 15.15-15.30 P. Dutournié, M. Jeguirim, L. Limousy
Drying of olive waste mill wastewater for material recovery
- 15.30-15.45 A. Koumara, E. Kiatipis, A. Eftaxias, V. Diamantis, A. Aivasidis
Feasibility of separated-phase anaerobic digestion for biogas production from olive mill waste water
- 15.45-16.00 K. Tzathas, A. Vlysidis, G. Lyberatos, A. Vlyssides
Factorial design of phenolic extraction process from two phase olive mill waste
- 16.00-16.15 E. Carmona Garcia, M. Ortiz Sanchez, C. A. Cardona Alzate
Evaluation and analysis of the coffee cut stems as raw material for the production of sugars for ABE fermentation

- 16.15-16.30 L.J. Rodríguez, J.D. Gonzales, E. Carmona, C.A. Cardona, C.E. Orrego
Valorisation of agricultural residues from Andean fruits: case studies
- 16.30-16.45 M. Jeguirim, L. Limousy, K. Thabet, L. Josien, L. Michelin, C. Vaultot, S. Bennici
Effect of Mg and K inorganic species on the chars properties derived from grape marc pyrolysis
- 16.45-17.00 S. Van Hulle
Model based assessment of anaerobic digestion of lignocellulose containing waste materials
- 17.00-17.15 C. Marzo, J. Álvarez, A.B. Díaz, I. Caro, A. Blandino
Effect of alkaline peroxide pretreatment on fibre composition of various lignocellulosic residues
- 17.15-17.30 L. Cagnin, L. Favaro, V. Pizzocchero, F. Cotana, A. Nicolini, G. Cavalaglio, M. Basaglia, S. Casella
Novel yeast strains for the efficient conversion of steam-exploded lignocellulosic waste streams to bioethanol
- 17.30-17.45 N. Gronchi, L. Favaro, L. Cagnin, V. Pizzocchero, M. Basaglia, S. Casella
Novel industrial yeast strains for future consolidated bioprocessing of starchy byproducts to ethanol
- 17.45-18.00 M. Kyriakou, V. Chatziiona, C. Costa, L. Koutsokeras, G. Constantinides, M. Koutinas
Combining pyrolysis of biowaste to industrial bioprocesses: Enhancement of bioethanol production with the use of biochar-based biocatalysts
- 18.00-18.15 D. Mathioudakis, G.M. Lytras, D. Fotiou, C. Lytras, K. Papadopoulou, G. Lyberatos
Valorization of a Food Residue Biomass product in a two-stage anaerobic digestion system for the production of hythane
- 18.15-18.30 E. Montoneri, G. Fabbri, M. Negre
Valorization of Fermented Municipal Biowaste as Source of Value Added Chemical Specialities and Intermediates
- 18.30-18.45 J. Ibarri, I. Hernández
Production of value added food derived sub-products via solid state fermentation with *Rhizopus oryzae*
- 18.45-19.00 Z.-Y. Bai, S.-M. Zhang, X. Liu, S. Sheng, F.-A. Wu, J. Wang
Generation of α -linolenic acid emulsion droplet from silkworm pupae oil by microchips

ROOM 4

SESSION VIII

Management of Specific Waste Streams

Chair: A. Luciano, G. Iliopoulos, G. Mavrias

- | | |
|-------------|---|
| 15.00-15.15 | P. Vounatsos, G. Mavrias, P. Grammelis
Impurities analysis in ELT products deriving from mechanical recycling |
| 15.15-15.30 | N. Ferronato, M. Ragazzi, M. A. Gorrity Portillo, E. G. Guisbert Lizarazu, V. Torretta
Healthcare waste indicators for assessing the infectious waste management in the public hospitals of La Paz (Bolivia) |
| 15.30-15.45 | G. Mancini, A. Luciano, R. P. Viotti, N. Mankaa, M. Traverso, D. Fino
Life Cycle Assessment as a tool for addressing proper ASR management |
| 15.45-16.00 | G. Iliopoulos, M. Dimitropoulou, D. Bourkas, A. Bourka, V. Stergiou
Assessment of Sustainable Used Lead Acid Battery Collection and Recycling Scheme in Jordan |
| 16.00-16.15 | A. Gassner, J. Fellner
Subway Infrastructure: Waste Flows and Stock Changes in Refurbishment |
| 16.15-16.30 | A.A. Tsoumani, N.-M. Barkoula, T.E. Matikas
Chloride penetration and strength of recycled aggregate concrete |
| 16.30-16.45 | Meihan Yu, Siqin Xiong, Junping Ji, Xiaoming Ma
Forecast of retired electric vehicle lithium-ion batteries in China |
| 16.45-17.00 | R. Baciocchi, G. Costa, I. Verginelli
Characterization of road sweeping waste in view of developing specific strategies to enhance its valorisation |
| 17.00-17.15 | T. Phenrat, P. Mooheng
Acid-assisted Recycling of $\text{Fe}(\text{OH})_3$ Sludge as Coagulant for Metalworking Fluid Wastewater Treatment |

Poster session

1. Y. Fu, N.N. Lu, H.L. Jian
Study on the Stability of a Modified Banana Peel Coagulant
2. S. Afshar, M. Arezoumandi, S. Morteza Mousavi Bafrouie, M. Mahdi Sadeghi, N. Ramezani, M. Sadegh Pish Elmi
Bond performance of recycled aggregate concrete: an overview
3. M.N. Kumar, A. Bekatorou, A.-I. Gialleli, K. Pissaridi, A.A. Koutinas, M. Kanellaki, C. Kordulis, J. Tirkey
Porous cellulose from leaves/bark of *Shorea robusta* G. & *Mangnifera indica* L., and husk of *Oryza sativa* L., of Indian origin, for bioprocess applications: textural characterization
4. I. Pleioni, A.A. Koutinas, A. Bekatorou, M. Kanellaki, V. Karathanos, A. Chiou, A. Mallouchos
Innovative biorefinery development for valorisation of raisin finishing side-streams: Dry wine making process
5. J.P.S.Q Menezes, F. C. Jácome, R.L. Manfro, M.M.V.M Souza,
Evaluation of different Ni/Al₂O₃ catalysts in glycerol steam reforming for hydrogen production
6. A. Hossein Amoohosseini, M. Arezoumandi, M. Reza Aghabagheri, M. Sadegh Dehghan Neyestanaki, F. Bohloli
Mechanical properties of concrete with recycled concrete aggregates
7. M. Reza Aghabagheri, M. Arezoumandi, A. Amoohosseini, M. Sadegh Dehghan Neyestanaki, F. Bohloli
Mechanical properties of fly ash concrete
8. D. Allam, S. Bennici, S. Cheknoun, S. Hocine
Effect of La and Ce addition on the catalytic hydrogenation of carbon dioxide over CuO-ZnO/SiO₂-type catalysts
9. Nguyen Thi Thanh Truc, Byeong-Kyu Lee
Sustainable and Selective Separation of ABS/PC Plastics from Styrene Plastic Mixture in Electronic Waste Shredder Residue using Ultrasonication/ H₂O₂
10. F. Battista, D. Bolzonella
Exploitation of solar energy for ammonia sulfate recovery from digestate
11. T. Staněk, P. Sulovský, M. Boháč
Cementitious binders for immobilization of hazardous elements
12. S. Pavón, A. Fortuny, M.T. Coll, A.M. Sastre
REEs recovery from fluorescent lamp wastes improvement applying supported liquid membranes to the leaching solutions
13. M. Boháč, I. Chromková, T. Staněk
Improved chemical resistance of concrete by incorporation of industrial waste
14. H.Y. Shin, J.C. Yoo, S.W. Ji
A study on the characterization of the HFNP by using mineral carbonization method
15. K. Krajewski, K. Szczepański, S. Łaba, M. Świątkowska, R. Zabrocki, J. Oleksiejuk
Integrated assessment of solutions for the problem of waste facility in rural areas in Poland in the context of ensuring the energy safety of local communities and regional perspective
16. W. Korichi, M. Ibrahim, T. Bourdin, Y. Ouhdouch, S. Loqman, L. Lemee
Treatment of hospital wastewater of Marrakesh (Morocco) with actinomycetes to eliminate multi-resistant bacteria
17. D.P. Zagklis, C.A. Paraskeva
Preliminary Design of Phenols Purification Plant
18. S. Kocić-Tanackov, J. Pejin, Miloš Radosavljević, M. Pribić, D. Mladenović, A. Djukić-Vuković, L. Mojović
Brewing and malting technology by-products as raw materials in L-(+)-lactic acid fermentation

Poster session

19. D. Hidago, J.M. Martín-Marroquín, L. Garrote
Adding sustainability to the fruit and vegetable processing industry through solar-powered algal wastewater treatment
20. C. Chaabani, E. Weiss-Hortalaá, J.H. Ferrasse, O. Boutin, Y. Soudais,
Recovery of carbon fibres from composite waste by hydrolysis in subcritical water
21. G. Greco, G M. Capello, G. Cecchi, L. Cutroneo, S. Di Piazza, G. Vagge, M. Zotti
Mycoremediation of PAHs mixture by filamentous fungi
22. M.S. Chen, C.C. Ho
Risk Evaluation of Outsourced Biomedical Waste Disposal of Medical Institutions by Multi-criteria Decision Making Analysis to Improve Hospital Management Capability
23. M. M. Namadi, A. Jimoh, A.F. Abdullahi
Assessing the Biofuel Potential of Fresh Water Biomass
24. P. Hadjiyiannis, I. Pashalidis
Copper(II) Adsorption by Biochar Fibers prior and after MnO₂-coating
25. Y. Maiga, S. Roussos, A.S. Ouattara, H. Macarie
Valorisation of *Jatropha* seeds cakes by solid state fermentation
26. A. Nikolaou, G. Mitropoulou, Y. Kourkoutas, S. Roussos
Resident Microbial Dynamics during Natural Digestion of Olive Oil Mill Waste Waters in an Integrated Valorization System
27. R. Hamrouni, J. Molinet, M. Claeys-Bruno, N. Dupuy, A. Masmoudi, S. Roussos
Aeration influenced on the production of 6-pentyl-alpha-pyrones, spores and enzymes in solid state fermentation by *Trichoderma* strains
28. B. Kharbouch, A. Getto, S. Amat, J-L Pierson, N. Dupuy, S. Criquet, H. Lakhtar, A. El Mousadik, S. Roussos
Treatment and valorization of olive mill wastes trough vermicomposting using *Eisenia andrei*
29. Q. Carboué, I. Bombarda, M. Maresca, S. Roussos
Potential use of vine shoots as support to carry solid-state culture
30. R. Erhatic, L. Kutnjak, M. Vukobratović, Ž. Vukobratović, T. Peremin-Volf
The effect of compost on the growth and development of *Pelargonium* seedlings
31. A. A. Reheem, N. Yilmaz, M. Elhag
Consideration of Onion Solid By-Products Homogenate in Phenolics Decontamination of Olive Mill Waste Management
32. F.J. Carmona, J.A. Pascual, F. Fernández
Targeted Composting of Olive Mil Wastes. Comparison Between Three-Phase and Two-Phase Waste Composting
33. M.L. Elias, V.R. Amorim, M.A.G. Hinojosa, A.L.F.M. Conde, B.R. Quintaes, J.C. Campos
Co-disposition of sludge generated during leachate landfill treatment with household solid waste
34. C.S. Theóphilo, V.R. Amorim, M.A.G. Hinojosa, A.L.F.M. Conde, B.R. Quintaes, J.C. Campos
Evaluation of health care waste management of a hospital unit in Rio de Janeiro City, Brazil
35. B. R. Quintaes, J. C. Campos, A. L. F. M. Conde, M. A. G. Hinojosa, V. R. Amorim, J. T. Junior, J. C. J. França
Household solid waste composition in Rio de Janeiro city, Brazil: an historical view
36. R.G.S.M. Alfaia, M. M. P. do Nascimento, D. M. Bila, J. C. Campos
Evaluation of the fouling potential of landfill leachate treated by coagulation/flocculation in nanofiltration and reverse osmosis processes

Poster session

37. P. Calza, J. Di Sarro, G. Magnacca, E. Laurenti
Low-cost magnetic materials containing waste derivatives as catalyst for removal of organic pollutants
38. S. Tebib, A. Jada
Metal ions removal from water by Humic Acid particles
39. H. Bouchoum, D. Benmoussa, M. Tahiri, A. Jada, O. Cherkaoui
Efficient removal of ion chromium (VI) from aqueous solutions using functionalized acrylic fibers
40. D. Sakhi, Y. Rakhila, A. Elmchaouri, M. Abouri, S. Souabi, A. Jada
Optimization of the physicochemical treatment of an effluent from a textile industry with ferric chloride and polymer
41. E. Loginova, H.J.H. Brouwers
Relevance of MSWI fly ash total composition analysis: A case study of washing pretreatments
42. J.C. Solarte-Toro, J.M. Romero-García, J.C. Martínez-Patiño, E. Ruiz-Ramos, E. Castro-Galiano, C.A. Cardona-Alzate
Techno-economic evaluation of bioethanol production using optimized conditions for the sulfuric acid pretreatment of extracted olive tree biomass
43. J.C. Solarte-Toro, J. M. Romero-García, E. Ruiz-Ramos, E. Castro-Galiano, C.A. Cardona-Alzate
Prefeasibility assessment of the lignin, antioxidants and bioethanol production using a two-stage organosolv pretreatment and simultaneous saccharification and fermentation process
44. M. Calero, G. Blázquez, A. Pérez, A. Ronda, I. Iáñez, M.A. Martín-Lara
Characterization of the physical and chemical properties of olive cake for its use as fuel
45. L.Y. Lim, C.P.C. Bong, C.T. Lee, J.S. Lim, J.J. Klemeš
The Potential of Agricultural Vegetative Waste Management System in Smart Agriculture
46. A.R. Ferreira, P.E. Jensen, P. Guedes, E.P. Mateus, A.B. Ribeiro, N. Couto
Electrokinetic based technologies in cold climate conditions - remediation of contaminated polar soil
47. P. Guedes, V. Lopes, N. Couto, A. Ferreira, E.P. Mateus, C. Silva Pereira, A.B. Ribeiro
Influence of the spiking procedure on organic contaminants recovery from soil
48. G. Mercuri Quiterio, J. Matos Cruz, R. Nalin Montagnolli, E. Dino Bidoia
Comparison between biological and chemical approaches towards the biodegradation of diesel/biodiesel blends
49. C. Bogiatzidis, L. Zoumpoulakis
Mechanical behaviour of polymeric matrix composites based on thermosets filled with recyclable Construction and Demolition wastes
50. J. Ramon Pamies, J. Pablo Carreno
Obtaining a second generation biofuel by applying TMCP (Thermo-Mechanical Cracking Process) technology to waste management
51. B. Mayans, R. Camacho-Arévalo, C. García-Delgado, R. Antón, C. Escolástico, E. Eymar
Tetracyclines degradation by edible ligninolytic fungi
52. R. Camacho-Arévalo, B. Mayans, C. García-Delgado, R. Antón, C. Escolástico, E. Eymar
Spent mushroom substrates biofilters: degradation of antibiotics by ligninolytic fungi

Poster session

53. R. Antón, M. Alonso-Izquierdo, J. Cuevas, N. Carreras, B. Mayans, R. Camacho, E. Eymar
Effects of treated urban waste digestates on hydroponically grown tomato (*Solanum lycopersicon* L)
54. V.M. Mattos, J.P. Cedraz, Z.N. da Rocha, L.M. Queiroz, D.V. Vich, V.M. Zanta
Food waste stabilization and valorization by inorganic oxidative process
55. A. Anic Vucinic, S. Simunic, I. Grcic, I. Melnjak, L. Radetic
Possibility of recycling of waste LCD residues in concrete industry
56. J. Bacenetti
Heat and cold production from pruning residues of grapevine: Environmental assessment
57. J. Bacenetti, D. Lovarelli, G. Falcone
Consequential Life Cycle Assessment of electricity production from biogas in Italy
58. Xue-Jiao Zhou, Chang-Tong Zhu, Sheng Sheng, Fu-An Wu, Jun Wang
Aqueous two-phase extraction and enzymatic conversion of mulberry anthocyanins
59. L.-L. Zhu, C.-T. Zhu, C.-Q. Jin, S. Sheng, F.-A. Wu, J. Wang
Isoquercitrin synthesis from grapefruit peels using an immobilized enzyme microreactor
60. W.-J. Li, X. Liu, C.-T. Zhu, J.-X. Wu, S. Sheng, J. Wang, F.-A. Wu
Enzymatic preparation of structural lipids from mulberry seed oil and α -linoleic acid
61. A. K. Nowak, A. Jarosiński, Z. Wzorek, K. Gorazda
LCA analysis of environmental impact of Zn-Pb ores
62. K. Gorazda, B. Tarko, Z. Worek, A.K. Nowak, K. Kulczycka, M. Smol, A. Henclik
Polish Fertilizers from Ash (PolFerAsh technology) - assessment of technical and environmental conditions (BAT, BATNEEC, LCA)
63. C. Garcia, J.L. Moreno, J.A. Pascual, M Ros, F Bastida, T. Hernandez
Soils and organic wastes management: New strategies to increase their ecological capital
64. T. Hernandez, C. Chocano, C. Garcia
Composts as alternative to inorganic fertilization for cereal crops
65. J.C.G. da Silva, J.L.F. Alves, W.V.A. Galdino, R.F. de Sena, S.L.F. Andersen
Pyrolysis kinetics of coconut skin, husk and shell
66. A. Chalima, A. Karnaouri, E. Topakas
Utilization of volatile fatty acids for the production of omega-3 by *Cryptocodium cohnii*
67. M. Soltani, M. Arezoumandi, F. Sadeghi, M. Sadat Mousavi Pakzad, Z. Chenaparchi
Mechanical properties and durability of concrete with recycled asphalt and silica fume
68. M. Soledad Villaverde, M. Abdala, R. Candal, R. Girolami
Alternative solid fuel for cement kiln based in no special industrial solid waste
69. R. Antón, G. Peramato, B. Mayans, R. Camacho-Arévalo, C. García-Delgado, M.L. Segura, C. Escolástico, E. Eymar
Potential of edible fungi to degrade antibiotics present in different solid wastes
70. M. Soltani, M.i Arezoumandi, F. Sadeghi, M. Sadat Mousavi Pakzad, Z. Chenaparchi
Mechanical properties of silica fume concrete

Poster session

71. A.O. Adelopo, P. I. Haris, B. Alo, K. Huddersman, R. O. Jenkins, Production and characterization of activated carbon from landfill composites
72. D.C. Paz-Gómez, S.M Pérez-Moreno, G. Ríos, I. Ruiz-Oria, J.P. Bolívar Arsenic removal from sludge generated in copper electrolyte purification plant
73. D. Baldantoni, L. Morra, G. Saviello, A. Alfani Biowaste compost in long-term soil fertilization: nutrients and non-essential elements in crops
74. D. Baldantoni, E. Picariello, A. Bellino, R. Morelli, A. Alfani, F. De Nicola Soil microbial community during PAH degradation
75. E. Papaefstathiou, M. Stylianou, A. Agapiou, Exploring the side effects of vaping (electronic cigarette)
76. I. Erotokritou, M.A. Stylianou, A. Agapiou, S. Giannopoulos The potential resource value of coffee residues
77. Yan Rosen Enhancing the feasibility of ozonation pretreatment of lignocellulosic waste by reducing ozonation time
78. B. A. Karamanova, A. E. Stoyanova, M. Schipochka, R. K. Stoyanova Sustainable porous carbons on the basis of biomaterials for supercapacitors
79. P. Yang, G.-B. Shao, W.-X. Jiang Research and Preparation of a Degradable Material
80. F.R. Beltrán, M.U. de la Orden, E. Climent, J. Martínez Urreaga Effects of process conditions on the effectiveness of solid-state polymerization in the recycling of poly(lactic acid) waste.
81. J. Milic, M. Curcic, Z. Brnjas, H. Carapina, J. Randjelovic, K. Krinulovic, A. Jovovic The socio-economic impact timeline in Serbia for persistent organic pollutants (POPs)
82. J. Milić, G. Gojgić-Cvijović, T. Šolević Knudsen, M. Ilić, J. Avdalovic, M. Lješević, M. M. M. Vrvic Assessment of screening assays as tool for evaluation of bacterial potential for biodegradation of polycyclic aromatic hydrocarbons
83. J. Avdalović, A. Žeradjanin, S. Miletić, O. Božović, T. Šolević Knudsen, D. Stanković, J. Milić, M.M. Vrvic Investigation of the humic acids evolution during bioremediation of heavy residual fuel oil
84. C. L. B. M da Cruz, A.S. P. Santos, E. Ritter Study on the viability of incorporation of the water treatment plant sludge in the substrate for the production of native specie the Atlantic Forest (Brazil)
85. Kai-Chee Loh, Jingxin Zhang, Yen Wah Tong Fate of Bacterial Pathogens and Antibiotic Resistance Genes during Anaerobic Digestion of Food Waste by Incorporating Powdered Activated Carbon
86. T. Klammsteiner, A. Walter, C. Heussler, B. C. Schlick-Steiner, F. M. Steiner, H. Insam *Hermetia illucens* (Diptera: Stratiomyidae) larvae in waste valorization and diet-based shifts in their gut microbiome
87. M. Nagler, A. Jäger, B. Hupfauf, H. Insam, S. M. Podmirseg Defining the best pretreatment method for biomethanisation of sewage sludge and corn straw.
88. K. Triantafyllidis, P. Samaras, G. Palantzas, E. Tzamos, A. Zouboulis Application of the pyrolysis technology for industrial and hazardous waste management
89. S. Brivio, D. Papadrossou, M. Kondis Sustainable FGT solutions for WtE
90. A. Urueña, J.A. Conesa, D. Díez The influence of temperature and dolomite catalyst on the pyrolysis of corn stover

Poster session

91. A. Urueña, D. Díez, G. Antolín
New biofuel production technology to recover used frying oils and power the Seville's urban bus fleet
92. I. Goudeli, D. Palimeri, A. Vlysidis, A. Vlyssides
Anaerobic digestion of olive mill wastewater using a static granular sludge reactor followed by a plant remediation eco-system
93. M. Omirou, I. Anastopoulos, D. Fasoula, I. M. Ioannides
Soil nitrous oxide emissions in agricultural systems fertilized with livestock manure, compost and inorganic fertilizers
94. E. Ell Bestawy
Stimulatory And/ Or Inhibitory Effects of Heavy Metals-Contaminated Effluents on Biochemical Characteristics of Some Selected Cyanobacteria
95. S.M.R. Vendramel, S.L. Quiterio, J.J. Chastinet, D.M. Bila, G.L. Sant'Anna Jr.
Enzymatic hydrolysis of floatable fatty wastes from dairy and meaty food-processing industries and further anaerobic digestion
96. V. Diamanti, A. Papadaki, C. Pateraki, H. Papapostolou, D. Koulougliotis, E. Eriotou, N. Kopsahelis
Whey utilization by novel non-dairy industry derived probiotic strains for the production of starter cultures
97. M.J. San José, S. Alvarez, R. López
Thermal treatment of wastes of anaerobic digestion of grape skins by drying-combustion in a conical spouted bed reactor
98. C. Magro, J. Almeida, J.M. Paz-Garcia, E. P. Mateus, A. B. Ribeiro
Prospective energy savings in electro-based technologies – PEM fuel cell
99. A. Chrysargyris, O. Antoniou, A. Tzionis, N. Tzortzakis
Deployment of olive-mill waste as a substitute growing medium component in nurseries
100. A. Chrysargyris, E. Papakuriakou, P. Xylia, N. Tzortzakis
Modulation of copper uptake and toxicity by salinity stress in *Mentha spicata* plants
101. M. Prasad, N. Tzortzakis, M. Gaffney, S. Murphy
Development of a rapid and simple test for ammonium-N determination in anaerobic digestion
102. D. Díez, A. Urueña, G. Antolin
Steam reforming of biomass tar over hydrotalcite catalyst
103. D. Díez, A. Urueña, G. Antolin
Valorization of pig carcasses through their transformation into biofuels
104. Sv. Veleva, Sv. Ivanova, P. Polrolniczak, K. Wasinski, R. K. Stoyanova, A. E. Stoyanova
High-Efficient Magnesium Storage into Eco-Compatible Electrode Materials
105. K. Papadopoulou, K. Papanikola, I. Vaitzos, A. Peppas, C. Lytras, G.M Lytras, D. Mathioudakis, H. Pavlopoulos, G. Lyberatos
Valorization of a Food Residue Biomass product and green waste for the production of pellets
106. X. Liu, D. Peng, B. Tang, N. Zhang
A novel ecological sand stabilization material largely utilizing coal refuse: mechanical properties, microstructure and environmental friendly performance
107. E. Ell Bestawy
Efficiency of Immobilized Cyanobacteria in Heavy Metals Removal from Industrial Effluents
108. Yen Wah Tong, Jingxin Zhang, Kai-Chee Loh
Enhancing methane production in anaerobic co-digestion process by anaerobic co-pretreatment

Poster session

109. M. Basha, A.S. El-Gendy
Vermicomposting of Organic Waste – A Review
110. M. Stylianou, I. Gavriel, A. Zorpas, A. Agapiou
Native plants for the remediation of abandoned sulfide mines in Cyprus
111. R. Sirbu, E. Cadar, A. Tomescu, T. Negreanu Pirjol
Studies regarding polluting agents impact on marine algae biomass from Black Sea
112. J.-W. Koo, T.-M. Hwang, S. Lee
Membrane distillation for shale gas plant water treatment: Effect of membrane fouling
113. S. Rhouat, F. Dimane, M. S. El Youbi, K. Haboubi
Efficiency of a membrane and physico-chemical treatment of a non-stabilized leachate
114. J. Žaltauskaitė, M. Praspaliauskas, N. Striūgas
Cannabis sativa as a tool to assess sewage sludge and sewage sludge char suitability for soil fertilization
115. R. Dagiliūtė, M. Janionienė, J. Žaltauskaitė
The Impact of the Packaging Recycling on Environmental Impact Reduction from Energy use and GHG's Perspective
116. Huangang Shi, Wenyi Tan
Experimental investigation for solid oxide fuel cells integrated with pine sawdust gasification
117. A.D.O. Santos, M.T.L. Nascimento, D.G. Carvalho, J.A. Baptista Neto, D. M. Bila
Evaluation of the presence of Bisphenol A and microplastics in the bottom sediments of Guanabara Bay
118. P. Rusek, K. Borowik, M. Mikos-Szymańska, S. Schab
Development of a technology of innovative microbiologically enriched mineral fertilizers (BIO-FERTIL)
119. C.J. Cobo-Ceacero, C. G. Moreno-Merino, M.T. Cotes-Palomino, Fco. De A. Torres-Fernández, C. Martínez-García
Use of marble sludge waste in the manufacture of eco-friendly materials, applying the principles of the Circular Economy
120. D. Symeonides, P. Loizia, A. A. Zorpas
Tire Waste Management System in Cyprus. Barriers and Improvements using SWOT-PESTEL Models in the framework of circular Economy
121. A. Zdunek, K. Borowik, D. Kołodyńska, Z. Hubicki. M. Wieraszka
Removal of Fluoride from Aqueous Solutions Using Sewage Sludge Ash
122. P. Loizia, I. Voukkali, A. A. Zorpas
Why Environmental Management Systems (EMS) cannot be easily adopted from Small Medium Enterprises
123. B. Temporal-Lara, I. Gomez-Lucas, J. Navarro-Pedreño, A.A. Zorpas
Monitoring the composting process through respirometric techniques
124. A. Zdunek, K. Borowik, D. Kołodyńska, Z. Hubicki. K. Kilijanek
Removal of Fluoride from Aqueous Solutions Using Biomass Ash
125. M. Euthimou, S. Zorpa, A.A. Zorpas
Environmental Education in primary schools of Cyprus and the proposed of educational approach
126. P. Loizia, I. Voukkali, A. A. Zorpas
Why Environmental Management Systems (EMS) cannot be easily adopted from Small Medium Enterprises
127. O. Muter, I. Perkins, V. Bartkevics
Assessment of biochar as a carrier for biofilm formation and removal of pharmaceuticals from wastewaters
128. O. Muter, G. Khroustalyova, D. Kalderis, A. Sibirny, A. Rapoport
Tools for utilization of distillery industry waste-yeast biomass in bioremediation technologies
129. G. Adam, B. De Vos, A. Mottet, E. Trouvé, P. Delfosse
Ammonia nitrogen recovery and volume reduction of anaerobic digestates by vacuum evaporation without chemical additives
130. M. Teresa Santos, N. Nunes, Â. Martins
Removal of textile dyes with carbon produced from industrial food waste

Poster session

131. X.G. Ma, J. Tao, J.L. Chang, J. Yang, Q. Tang, T. Luo
Effect of substrate to inoculum ratio on biogas production and microbial community from hemi-solid state batch anaerobic co-digestion of rape straw and dairy manure
132. M.M. Parascanu, M. Puig-Gamero, P. Sánchez, G. Soreanu, J.L. Valverde, L. Sanchez-Silva
Environmental assessment of olive pomace valorisation through combustion processes for energy production
133. R.J. Galán-Arboledas, M.T. Cotes-Palomino, C. Martínez-García, S. Bueno
Ternary diagrams as a tool for developing eco-friendly materials. Relationship between technological properties and microstructure
134. E. Loupas, C. Chatzifotiades, O. Gkiata, A. Christodoulou, A. Vlachaki, N. Padeleiou, D. Konstantatou, M. E. Bibiza, A. Georgali Athanasiou, M. Nomikou
From Kapsali Bay, Kythira to Naxos
135. T. Prastitou Merdi
Marine litter: Is the EU legislator doing enough for curbing plastic waste and littering at sea?
136. V. Diamantis, M. D. Koskinari, E. Pallis, P. Charitidis, A. Eftaxias, A. Aivasidis
Biogas production from pressure sterilized organic wastes having a low- or high-lipid content
137. R. Dagiliūtė, K. Bagdonaitė, J. Žaltauskaitė, G. Sujetovienė
Medical waste generation and management: case of Lithuania
138. V. Valinčius, R. Kėželis, V. Grigaitienė, P. Valatkevičius
Behaviour of electric arc in plasma chemical reactor during hazardous waste treatment
139. T. Negreanu-Pirjol, B.S. Negreanu-Pirjol, M. Nastac, G.M. Paraschiv, R. Sirbu
Complex valorization of two waste biomasses as biosolid nutrient composite for improving soils quality
140. F.V. Andretti, J.A. Ferreira, C.F. Mannarino
Study of the art state in the analysis of techno economic feasibility of waste-to-energy plant in Rio de Janeiro
141. K. Lasaridi, E. Terzis, A. Georganti -Ntaliap, S. Fortatos, P. Panteli, Th. Manios
The LIFE Food for Feed Project – An Innovative Process for Transforming Hotel's Food Waste into Animal Feed
142. K. Lasaridi, Ph. Kyrkitsos, G. Protopapas, T. Charitopoulou, A. Dalamagka, M. Intzeler, Ch. Angelakopoulos
The LIFE REWEEE Project - Development and Demonstration of Waste of Electrical and Electronic Equipment Prevention and Reuse Paradigms
143. S.H. Nam, J.W. Koo, J.W. Sim, E.J. Kim, T.M. Hwang
Characterization of organic foulants in pressure retarded osmosis using fluorescence excitation-emission and PARAFAC
144. S.H. Nam, J.W. Koo, E.J. Kim, T.M. Hwang
Fluorescence Excitation-Emission and PARAFAC to monitor natural organic matter change in pilot scale UV/H₂O₂-GAC process
145. A. López-Uceda, J. Ayuso, A.P. Galvin, J.R. Jiménez
Dimensional changes of Recycled Aggregate from CDW at long term with different gypsum content
146. V. Oliveira, C. Horta, C. Dias-Ferreira
Fertilizing potential of struvite recovered from organic fraction of municipal solid waste
147. S. Siddique, K. Yates, J. Njuguna
Thermo-chemical characterisation of Oil Based Mud wastes
148. Choah Kwon, Seung Hyo Noh, Hoje Chun, Il Soon Hwang, Byungchan Han
First-Principles Computational Study on Spontaneous Reduction Reaction of Eu³⁺ in a LiCl-KCl Molten Salt

Poster session

149. C.P.C. Bong, L.Y. Lim, C.T. Lee, W.S. Ho, J.J. Klemeš
Sustainable supply-demand network for bio-waste management
150. I. M. Ioannides, I. Anastopoulos, M. Omirou
Citrus industry wastes shift the soil bacterial communities structure in soils
151. C. A. Rueda-Durán, A. R. Velasquez-Barrios, P. A. Marín-Valencia, J. C. Álvarez-Giraldo, E. G. Mogollón-Rincón, R. A. Cardona-Cabarcas, O. H. Giraldo-Osorio, C. A. Cardona-Alzate
Techno-economic evaluation of a polymerization process: impact of degradation potential on production costs of polypropylene using alternative additives
152. F. Aulenta, C. Cruz Viggi, C. Pastor¹, D. Montecchio, B. Erable, A. Bergel, M. Zeppilli, M. Villano³, M. Majone³, G. Lyberatos, I. Ntaikou, K. Papadopoulou, G. Antonopoulou, A. Tremouli, R. Lacroix, S. Da Silva, H. Chouchane, A.S. Masmoudi, A. Cherif
Sustainable Wastewater Treatment Coupled to Energy Recovery with Microbial Electrochemical Technologies: The WE-MET Project
153. D. Gusmini, P. Carminati, N. Frison, F. Fatone, E. Ficara
Turning wastewater into bioplastics through microalgal biomass
154. D. Lavouta, L. Zoumpoulakis, F. Zannikos, P. Georgiou
Energy efficiency of plastic waste
155. A. Pilatov, V. Baranov, K. Czajka, H. Viarshyna
Reduction of CO₂ environmental load of biomass thermochemical conversion system using pure oxygen in gasification and combustion
156. A. Mousavi, M. Razgon, V. Angadi, E. Katsou
Z-BRE4K: a novel predictive maintenance platform to eliminate unexpected-breakdowns and extend the life of production systems
157. A. Vlysidis, D. Tsivas, S. Maina, A. Papadaki, A. Koutinas
The LIFE CAB project: Biogas and digestate with controlled ammonia content by a virtuous biowaste cycle with integrated biological and chemical processes
158. S. Malamis, J. Kissler, S. Kappa, K. Moustakas, E. Katsou
HYDROUSA project – Recovering water, materials and energy from non-conventional water sources through nature-based technologies
159. A. Tremouli, I. Karydogiannis, K. Papadopoulou, G. Lyberatos
Stacking of Microbial Fuel Cells for Wastewater Treatment
160. Z. Aslam, A. Abbas, A. Asghar
Valorisation of fly ash: Zeolite synthesis and its application
161. A. Natsia, E. Tsouko, A. Sigianis, D. Ladakis, A. Papadaki, E. Eriotou, A. Kampioti, N. Kopsahelis
Bacterial cellulose production utilizing Zante currants' side-streams: A preliminary novel biorefinery concept
162. M. Almazrouei, S. Elagroudy, I. Janajreh
Kinetics Evaluation of Glycerol Pyrolysis and High Fidelity Numerical Simulation
163. J. L. Hao, W.S. Lu, Z. K. Chen, Z.K. Bao, F. Y. Guo, W.Q. Xing
Quantifying construction waste reduction through the application of prefabrication in China
164. M. Kasidoni, K.-J. Haralambous
Barriers to deployment of CCS
165. M. Kasidoni, M. Loizidou
Carbon emissions trading, carbon taxes, and direct regulations: theoretical considerations
166. M. Elhag, J. Bahrawi
Economic Evaluation of a Passive Solar Greenhouse Heating System in Crete, Greece
167. G. Palantzas, E. Tzamos, A. Zouboulis
Data, trends and perspectives for the management of ship-generated waste reception port facilities in Greece

8.00 - 9.00

Registration

9.00 - 11.00

ROOM 1

Keynote Speakers

Chair: A. Nzihou, I. M. C. Lo

Irene M. C. Lo, Hong Kong University of Science and Technology
"Integrated food waste management with renewable energy production"

David Bolzonella, University of Verona
"The biorefinery of household food waste"

Costas Velis, University of Leeds
"How cities manage waste all over the planet: A global overview through Wasteaware benchmark indicators"

Ange Nzihou, Ecole des Mines d'Albi
"Unravel the structure and reactivity of wood and biowaste biochars"

Mauro Majone, Sapienza University of Rome
"Turning urban biowaste into bioplastics: a half-term overview on RES URBIS project"

Spyros Pavlostathis, Georgia Institute of Technology
"Bioelectrochemical Upgrading of Anaerobic Digestion Biogas"

Stephen Smith, Imperial College London
"Potential transfers of organic contaminants to the human foodchain from the use of organic waste materials as fertilizers and soil improvers"

Hinrich Uellendahl, Aalborg University Copenhagen
"Anaerobic digestion – the method of choice for the treatment of organic waste and nutrient recovery"

11.00 - 11.15



Coffee Break

ROOM 1

SESSION IX

Bioprocesses, Biorefineries in waste management I

Chair: I. M. C. Lo, F. Cecchi, A. Koutinas

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| 11.15-11.30 | L. Mojović, D. Mladenović, A. Djukić-Vuković, S. Kocić Tanackov, J. Pejin
Two-stage lactic acid fermentation of distillery stillage |
| 11.30-11.45 | M. Patsalou, E. Protopapa, S. Stavrinou, A. Chrysargyris, N. Tzortzakis, I. Vyrides, M. Koutinas
Citrus peel waste valorization through a biorefinery strategy for the production of succinic acid, ethanol, methane and fertilizer |
| 11.45-12.00 | F. Baldi, I. Pecorini, E. Albini, R. Iannelli
Comparison of one-stage anaerobic digestion and two-stage fermentation process of food waste |
| 12.00-12.15 | Q.A. Nguyen, H-J. Bae
Integrated process produces valuable mannose oligosaccharides, mannose and ethanol from coffee residue waste |
| 12.15-12.30 | M. Ramos-Suarez, D. Puri, S. Heaven
Solubility enhancement of organic residual solids (ORS) from municipal solid waste (MSW) using enzymes and subsequent production of volatile fatty acids (VFA) and biogas |
| 12.30-12.45 | K. Aboudi, X. Gómez-Quiroga, C.J. Álvarez-Gallego, L.I. Romero-García
Acidification as a handicap in the anaerobic digestion of agro-industrial wastes:
The role of co-substrate in volatile fatty acids mitigation |
| 12.45-13.00 | J. Anderson Martínez-Ruano, D. L. Restrepo-Serna, E. Carmona, C. A. Cardona-Alzate
Effect of co-digestion of milk-whey and potato stem on heat and electricity generation using biogas as an energy vector |
| 13.00-13.15 | D. L. Restrepo-Serna, J. Anderson Martínez-Ruano, C. A. Cardona-Alzate
Energy Efficiency of Biorefinery Schemes Using Sugarcane Bagasse as Raw Material |
| 13.15-13.30 | C. Kennes, M.C. Veiga
Bioconversion of syngas into biofuels and chemicals |
| 13.30-13.45 | M.C. Ho, T.Y. Wu
Potential use of alkaline hydrogen peroxide in biomass pretreatment and valorization – a review |

13.45-14.00	A. Papadaki, E. Boviatsi, N. Kopsahelis, G.J. Nychas, J.A.C. da Silva, D.M.G. Freire, A.A. Koutinas Biolubricants production via enzymatic conversion of microbial oil produced through the valorisation of sugarcane molasses
14.00-14.15	A. Piasentin, L. Girotto, G. Moretto, F. Ardolino, F. Cecchi Integrated AcoD system of the organic fraction of MSW and sewage sludge: cases study
14.15-14.30	G. Kakouras, A. Papadaki, C. Pateraki, A. Koutinas Brewer's spent grain valorisation for the production of microbial oil via fermentation and extraction of value added co-products through biorefinery development
14.30-15.00	Lunch Break

ROOM 2

SESSION X

Tools in the field of waste management

Chair: G. Lyberatos, M. Majone, M. Baratieri

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| 11.15-11.30 | A. G. Capodaglio, M.V. Lopez, A. Callegari
LCA approach to the evaluation of urban waste sludge disposal options, including resources and materials recovery |
| 11.30-11.45 | A. F. Braña, G. Feijoo-Costa, C. Dias-Ferreira
Environmental considerations on MSW collection. A local case of study through LCA application |
| 11.45-12.00 | S. De Meester, A. Tuts, D. Seuntjens, B. Defloor, B. De Gusseme
Willingness to pay for environmental performance; the case of decentralised waste treatment systems |
| 12.00-12.15 | O. Skiadi, A. Pantazopoulos, A. Angelis-Dimakis, K. Tsakalou, K. Kutsikos, V. Angelis
A digital industrial solid waste reuse platform for the Balkan region |
| 12.15-12.30 | A. Bourka, M. Dimitropoulou, G. Iliopoulos, S. Spiliotakou
Rewarding recycling through a smart city application |
| 12.30-12.45 | M. Maniati, P. Karakasis
Why do waste management organizations always defend themselves when planning a project? A guide to overcome opposition and raise public involvement - a small island case study |
| 12.45-13.00 | I. Matino, T. A. Branca, B. Fornai, V. Colla, L. Romaniello
Improving the by-products reuse in integrated steelmaking facilities: scenario analyses through the combination of process modelling, simulation and optimization techniques |
| 13.00-13.15 | L.S. Cadavid-Rodríguez, C.E. Agudelo-Morales
Solid waste management in a Colombian University |
| 13.15-13.30 | N. Tofalli, C. Gavriil, C. Tofalli, I. Voukkali, S. Zorpa, A. A. Zorpas
Measuring environmental performance in primary and secondary schools. The case studies from Cyprus |
| 13.30-13.45 | A. Chabuk, N. Al-Ansari, A. Hazim, H. Musa Hussein, J. Laue, S. Knutsson, R. Pusch
Landfill Sites Selection using MCDM and Comparing Method of Change Detection for Babylon Governorate, Iraq |

ROOM 3

SESSION XI

Water-Energy efficiency: From practice to policy

Chair: P. Karanis, M. Papadopoulou, M. Zachariou-Dodou

11.15-11.30	P. Karanis Cryptosporidium in water and food
11.30-11.45	S. M. Miron, P. Dutournié, L. Limousy, A. Ponche Ultrafiltration of protein based solution.Study of membrane fouling
11.45-12.00	N.Yilmaz, C.H.Yardimci, M. Elhag Water Quality Assessment Based on the Phytoplankton Composition of Buyukcekmece Dam Lake and its Influent Streams (Istanbul), Turkey
12.00-12.15	S. Parmaki, I. Vyrides, M.I. Vasquez, I. Hadjiadamou, C.B.M. Barbeitos, F.C. Ferreira, C.A.M. Afonso, C. Drouza, M. Koutinas Valorization of alkaloid containing wastewater: Bioconversion of lupanine into added-value products by newly isolated microorganisms
12.15-12.30	Lijie Zhang, Haiyan Pei, Liqun Jiang, Qingjie Hou, Zhigang Yang, Ze Yu, Xiaodong Wang Can microalgae cultivated in modified mariculture wastewater become live feeds in aquaculture?
12.30-12.45	M.P. Papadopoulou, Z. Kalabaliki, V.K. Tsoukala Stress-weighted water footprint assessment of agricultural policies in a water scarce region
12.45-13.00	M. Tsangas, M. Jecourim, L. Limousy, A. A. Zorpas The application of Analytical Hierocracy Processes in combination with PESTEL-SWOT analysis to assess the hydrocarbons sectors in Cyprus
13.00-13.15	T. M. Massara, O. T. Komesli, O. Sozudogru, A. E. Yilmaz, S. Bakirdere, E. Katsou The effect of HRT and SRT in the treatment of domestic wastewater by MBR
13.15-13.30	V. Vasilaki, T. Mattias, V.C. Angadi, P. Sousa, A. Mousavi, E. Katsou Prediction of wastewater N ₂ O emissions using artificial Neural Networks
13.30-13.45	V. Vasilaki, V.C. Angadi, N. Frison, A. Mousavi, F. Fatone, E. Katsou Assessment of wastewater N ₂ O generation using multivariate techniques

ROOM 4

SESSION XII

LIFE Programme and Master-class on Horizon 2020: How to win funds for your innovative research projects?

The experience of Coordinators of H2020 & LIFE projects

Chair: P. Kolar, G. Protopapas

- 11.15-14.15 LIFE Programme - Call 2018 & Establishment and operation of the Greek LIFE Task Force
H2020: General Introduction, Legal & Financial Rules, Fast Track Innovation, SME Instrument, H2020 Prizes, Climate Change and Environment, Participant's Portal, Consortium Agreements and Partner Search Facilities
Success stories from specific H2020 consortiums & LIFE projects described by coordinators and partners

ROOM 1

SESSION XIII

Anaerobic Digestion

Chair: S. Pavlostathis, D. Bolzonella, H. Uellendahl

- 15.00-15.15 Ji Min, Zhang Bo, Wang Fen, Li Ruying, Zhao Yingxin
Enhancing Anaerobic Digestion of High-solid Sludge with Coupled Ultrasonic and Alkaline Pretreatment: Mechanism Research and a Full-Scale Experiment
- 15.15-15.30 B. Valverde-Pérez, A.Z. Zachariae, A.F. Kjeldgaard, Z. Rasouli, W. Xing, A. Palomo, M. D'Este, D. De Francisci, M.L. Pape, B.F. Smets, I. Angelidaki
Valorisation of Effluents from Anaerobic Digestion as Single Cell Protein – Focus on Safe Gas Supply
- 15.30-15.45 M.B. Benitez, G. Leite, P. Champagne
Growth of Algae and Microbiome Cultures on Anaerobic Digester Centrate
- 15.45-16.00 Y.K. Cheah, C. Vidal-Antich, J. Dosta, J. Mata-Álvarez
Study of the effects of temperature and pH on acidogenic fermentation process from organic fraction of municipal solid waste
- 16.00-16.15 A. Eftaxias, V. Chatzargyros, C. Michailidis, M.D. Koskinari V. Diamantis, A. Aivasidis
Trace element requirements for the anaerobic digestion of lipid-rich slaughterhouse wastes
- 16.15-16.30 Mimi Wang, Zhining Zhang, Zixiang Sun, Mengmeng Liu, Chen Sun, Weixing Cao
The chemical distributing characteristics and dynamics of iron, cobalt and nickel in 3 different anaerobic digestion digestates

16.30-16.45	M. Ahmad, C. Eskicioglu Fate of pharmaceuticals in single-stage anaerobic and sequential anaerobic/aerobic/anoxic sludge digestion
16.45-17.00	K. Haarstad Wastewater from biogas production
17.00-17.15	V. Pastor-Poquet, S. Papirio, J.P. Steyer; E. Trably, J. Rintala, R. Escudié, G. Esposito High-solids Anaerobic Digestion of the Organic Fraction of Municipal Solid Waste: From Experimental Setup to Model Development
17.15-17.30	C.M. Dykstra, S.G. Pavlostathis Bioelectrochemical Systems for Anaerobic Digester Biogas Upgrading
17.30-17.45	A. Eftaxias, M. D. Koskinari, P. Galimanis, A. Koumara, V. Diamantis, A. Aivasidis Use of poultry manure as emulsifier for biogas production from used cooking oil
17.45-18.00	D. Bacchi, E. Carnevale, F. Freire, G. Francini, L. Lombardi, P. Marques, I. Pecorini Environmental comparison of different scenarios of energy recovery from organic fraction of municipal solid waste and sewage sludge
18.00-18.15	Hyun-Jin Kang, Jeong-Hoon Park, Hee-Deung Park Development of a moving-bed carrier for stimulating direct interspecies electron transfer for improving anaerobic digestion
18.15-18.30	B. A. Alagöz, O. Yenigün, A. Erdinçler Valorization of maize silage and municipal wastewater sludges: Energy production enhanced by ultrasonic and microwave pre-treatments

ROOM 2

SESSION XIV

Policy, Prevention, Socio economic Issues and Management in Islands & Isolated Areas

Chair: T. Manios, C. Marouli, C. Dias-Ferreira

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| 15.00-15.15 | A. Anic Vucinic, I. Grcic, I. Melnjak, L. Radetic
Impacts of policy decision on municipal solid waste composition in Croatia |
| 15.15-15.30 | C. Tsompanidis, T. Lolos, E. Ieremiadi
Methodology for establishment of an integrated and financially self sustainable waste management system - the case study of Pelagonija, Southwest, Vardar and Skopje Regions |
| 15.30-15.45 | C. Marouli
Waste management in the European Union: Funding, policy priorities and scientific research |
| 15.45-16.00 | M. Donner, F. Fort, H. De Vries
How to design business models for a circular economy? |
| 16.00-16.15 | Mi Zhou, Tao Jiang, Songtao Yang, Xiangxin Xue
The effect of extraction of vanadium chromium slag adding on Cr-bearing vanadium and titanium sinter magnetite |
| 16.15-16.30 | Minhua Su, Lingjun Kong, Jinfeng Tang, Hongguo Zhang, Yu Liu, Diyun Chen
Utilization of Al-/Fe-/Si- Ceramic Matrices for Cadmium Detoxification in Wastes |
| 16.30-16.45 | G. Tavoularis, T. Manios, A. Maragkaki, F. Galliou, C. Tsompanidis
Innovative exploitation of Solar Energy for optimizing Waste Management |
| 16.45-17.00 | V. Sousa, C. Dias-Ferreira, I. Meireles
Benchmarking operational efficiency in waste collection: Discussion of current approaches and possible alternatives |
| 17.00-17.15 | A.A. Neves, M. Kasidoni, K. Moustakas, D. Malamis, I. Nunes, C. Dias-Ferreira
Pay-as-you-throw systems: a review of pilot research and implementation studies |
| 17.15-17.30 | G. Viniestra-González, V. del Rio-Guerra, M.I. Estrada-Alvarado, L.A. Cira-Chávez
The social and economic impact of agave waste utilization in Mexican liquor industries |
| 17.30-17.45 | C.C.G. Andrade, P.D.B. Coelho, L.C.G.M. Teixeira
Benefits of the selective collection in the public company Companhia Docas do Pará - CDP, in the Amazon / Brazil |

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| 17.45-18.00 | M. Struk
Financial Incentives and Municipal Solid Waste Expenditures |
| 18.00-18.15 | D. Hidago, F. López, F. Corona, J.M. Martín-Marroquín
A novel initiative for recovery and restoration of illegal dumps in rural areas |
| 18.15-18.30 | S. Lefèvre, O. Boutin, J.H. Ferrasse, C. Chubilleau, A. Viand
Wet air oxidation for the treatment of solid wastes generated on autarkic sites |
| 18.30-18.45 | P.-M. Stathatou, P. Dedousis, G. Arampatzis, H. Grigoropoulou, D. Assimacopoulos
Evaluating the Advantages of Combined Natural & Engineered Systems for Wastewater Treatment & Reuse: The WWTP of Antiparos Island, Greece |
| 18.45-19.00 | M. K. Doula, C. Kolovos, A. Papadopoulos
Irrigation water use in Mediterranean islands – Fresh water or Wastewater reuse? |
| 19.00-19.15 | A. Anic Vucinic, D. Perovic, H. Dokoza, V. Premur
The impact of tourism on separate waste collection in Zadar County, Republic of Croatia |
| 19.15-19.30 | I. Voukkali, J. Navarro-Pedreño, I. Gomez-Lucas, A. A. Zorpas
Measuring Metabolism of an Area |

ROOM 3

SESSION XV

**Food waste management, bioeconomy, food industry,
Source Separation schemes**

Chair: K. Abeliotis, E. Katsou, M. Kwapinska

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| 15.00-15.15 | T. Kritikou, D. Panagiotakos, K. Lasaridi
Determinants of food waste behaviour in Greek households |
| 15.15-15.30 | K. Papadopoulou, H. Pavlopoulos, P. Georgiou, A. Peppas, L. Zoumpoulakis, G. Lyberatos
Production of an adsorbent from dried and shredded Household Food Waste |
| 15.30-15.45 | C. Galletti, F.A. Deorsola, N. Russo, D. Fino
Removal of heavy metals from industrial waste on rice husk in an adsorbent reactor |
| 15.45-16.00 | K. Abeliotis, K. Lasaridi, C. Chroni, E. Terzis, F. Galliou, Th. Manios
Environmental impact assessment of a solar drying unit for the production of animal feed from food waste |
| 16.00-16.15 | K. Kaderides, L. Papaoikonomou, I. Patsopoulou, L. Sorovakou, A.M. Goula
Extract from pomegranate waste as an alternative natural antioxidant in foods |
| 16.15-16.30 | L. Papaoikonomou, K. Labanaris, K. Kaderides, A.M. Goula
Batch and continuous adsorption of phenolic compounds from olive mill wastewater using a novel low cost biosorbent |
| 16.30-16.45 | D. San Martin, M. Orive, E. Martinez, B. Iñarra, A. Estévez, R. Fenollosa, C. García, A.M. De Smet, J. Zufía
Valorisation of brewers' yeast and spent grain as second-generation feedstuff for aquaculture feed |
| 16.45-17.00 | L.J. Kong, M.N. Han, D.Y. Chen, K. Shih
Fishery derived bio-phosphate for uranium immobilization and its phase transformation |
| 17.00-17.15 | E. I. Sotiropoulou, M. Liouni, A. C. Calokerinos, E. T. Nerantzis
Single cell protein from grape pomace: Sustainability in the winery to value-added food |
| 17.15-17.30 | G. Mancini, A. Luciano, P. Viotti, D. Fino
Evaluation of ASR landfill impact through lysimetric tests |
| 17.30-17.45 | D. Perović, I. Sutlović, A. Lončarić-Božić, I. Mesić
Influence of Separate Collection of Recyclable Waste on Solid Recovered Fuel Production in the Planned Waste Management Center Biljane Donje, Zadar County, Croatia |

17.45-18.00	M. Kwapinska, D. A. Agar, J. J. Leahy Distribution of ash forming elements during pyrolysis of municipal wastewater sludge and sludge from milk processing factories
18.00-18.15	H.S. Jeswani, A. Apte, V. Cheernam, M. Kamat, S. Kamat, P. Kashikar Utilization of Kitchen Waste for Generation of Fuel
18.15-18.30	A. Siranossian, S. Bou Nassar, J. Khalil, J. Bou Nassar, C. Arida, C. Hajj, C. Bou-Mitri, S. Ghanimeh Treatment of olive mill wastewater using microbial fuel cell
18.30-18.45	V. Sousa, I. Meireles, V. Oliveira, C. Dias-Ferreira Prediction performance of separate collection of packaging waste yields using Support Vector Machines

ROOM 4

SESSION XVI

Waste & Resource Recovery II

Chair: A.G. Capodaglio, D. Fino, A. Karamanov


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| 15.00-15.15 | E. M. A. Hamzawy, A. Karamanov, H. Darwish, E. Karamanova
Effect of CaF ₂ addition on the densification and the foaming of sintered glass-ceramics by metallurgical slag |
| 15.15-15.30 | S. Safari, D. Egas, E. Katsou, S. Malamis
Removal of phosphate using fly ash and chemically modified zeolite |
| 15.30-15.45 | P. Gikas, S. Argyropoulos
Pacification of Fly Ash by Geochemical Processing |
| 15.45-16.00 | E. Karamanova, G. Avdeev, S. Atanasova-Vladimirova, A. Karamanov
Novel iron-rich tiling ceramic from copper flotation waste |
| 16.00-16.15 | G. Antonopoulou, I. Ntaikou, M. Alexandropoulou, A. Tremouli, C. Pastore, L. Bitonto, S. Bebelis, G. Lyberatos
Using household food waste as a source of energy in a single-chamber microbial fuel cell |
| 16.15-16.30 | J. Soussi, A. Jada, K. Jradi
Removal of calcium ions from water and its conversion to metal carbonate-cellulose nanofibers composites, by adsorption-complexation-precipitation method |
| 16.30-16.45 | M. Mikos-Szymańska, S. Schab, P. Rusek, K. Borowik
Preliminary study of a method for obtaining brown-coal and biochar based granular compound fertilizer |
| 16.45-17.00 | V. Conca, C. Da Ros, A.L. Eusebi, N. Frison, M. Tartini, L. Giroto, A. Piasentin, F. Fatone
Full-scale nitrogen removal and phosphorus recovery from reject water via SCENA system |
| 17.00-17.15 | M. Ribeiro de Jesus, P. R. M. Silva, P. P. Borges, E. de Robertis, L. N. Batista
Conversion of solid waste biomass to nitrogen rich biochar using aromatic amine |
| 17.15-17.30 | T.T. Shen, R.A. de Toledo, Y.Y. Tang, H. Shim
Sewage sludge derived biochar accelerates toluene removal by Pseudomonas plecoglossicida |
| 17.30-17.45 | C.P. Tavera, P. Gauthier-Maradei, M. Capron
Improvement of the production of aromatic compounds obtained from the pyrolysis of scrap tire rubber using heteropolyacids-based catalysts |

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| 17.45-18.00 | F. Palmieri, C. Giosuè, A.L. Eusebi, N. Frison, F. Fatone, F. Tittarelli
Use of recovered resources in construction industry: cellulose fibres from urban wastewater |
| 18.00-18.15 | Y. Zhou, M. Fan, E. Katsou
Valorisation of municipal wastes through development of recovered sludge cellulose/biopolymer composites |
| 18.15-18.30 | A. Botturi, N. Frison, C. Giosuè, A. L. Eusebi, F. Merzari, L. Fiori, F. Fatone
Innovative Treatment of Combined Sewer Overflow and prespective of hydrochar reuse for pollutants adsorption |

ROOM 1
SESSION XVII

Waste-to-Energy

Chair: K. Aravosis, M. Loizidou, S. Smith

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|-------------|--|
| 9.15-9.30 | M. Baratieri
Energetic Valorization of gasification by-products: Experiences from the NEXT project |
| 9.30-9.45 | D. Āriņa, R. Bendere, J. Kalnačs
Waste products – RDF or SRF as energy source in EU |
| 9.45-10.00 | F. Viganò, S. Sridharan, D. Di Bona
Advanced waste-to-energy plant design for enhanced electricity production |
| 10.00-10.15 | Y. S. Montenegro Camacho, G. Mancini, F. Deorsola, D. Fino
Role of the particle size on the yield of hazelnut shell pyrolysis products |
| 10.15-10.30 | C.H. Chihobo, Arindrajit Chowdhury, P.K. Kuipa, D. J. Simbi
Combustion kinetics of acid tar waste from crude benzol using thermogravimetric Analysis |
| 10.30-10.45 | Jingxin Zhang, Kai-Chee Loh, Yen Wah Tong
Optimization and Evaluation of an Integrated Anaerobic Digestion Waste-To-Energy System for Energy Recovery from Food Waste |
| 10.45-11.00 | Yong-Seong Jeong, Young-Kon Choi, Bo-Sung Kang, Joo-Sik Kim
Air and steam gasification of PE in a new-type three-stage gasifier with in-situ regeneration of activated carbon used as tar removal agent |
| 11.30-12.00 |  Coffee Break |
| 12.00-12.15 | C. De La Paz
LIFE: waste-to-energy good practices |
| 12.15-12.30 | M. Nasrullah, M. Lai, C. Ferraro, I. Schiavi, S. Tusacciu, E. Reggio
GreenPlasma: a disruptive small-scale concept of end-to-end waste-to-energy system for treating solid waste with plasma pyrolysis technology |
| 12.30-12.45 | M. Puig-Gamero, J. Argudo-Santamaria, J.L. Valverde, P. Sánchez, L. Sánchez-Silva
Simulation of methanol synthesis from syngas obtained through biomass gasification using Aspen Plus® |


12.45-13.00	B. D. Škrbić, V. B. Marinković, S. B. Spaić, V.J. Milanko, S. Lj. Branovački Emissions of polycyclic aromatic hydrocarbons from combustion and thermal decomposition of the poplar wood pellets and sawdust
13.00-13.15	N. Reyna-Bensusan, S.R. Smith, D.C. Wilson The global impact of uncontrolled burning of waste
13.15-13.30	A. Tamošiūnas, D. Gimžauskaitė, R. Uscila, M. Aikas A comparative study on syngas production from crude glycerol by utilizing DC arc plasma
13.30-13.45	E. Yilmaz, M. Wzorek, R. Junga Characterisation of thermal processing of olive mill wastes
13.45-14.00	M. Fernández-Delgado Juárez, G. Fabiani, T. Mazzier, M. Gómez-Brandón, H. Insam Reclamation of acid soils with biomass ashes from pyrolytic wood liquefaction
14.00-14.15	S. Hemidat, M. Saidan, A. Nassour, M. Nelles Potential of RDF production as Alternative Fuel for Cement Industries in Jordan
14.15-15.00	Lunch Break

ROOM 2

Recycling, Waste & Resource Recovery

Chair: J. Kisser, P. Gikas, V. Sousa

SESSION XVIII

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|-------------|--|
| 9.15-9.30 | Le Fang, Jiang-shan Li, Chi Sun Poon
Phosphorus recovery from incinerated sewage sludge ash (ISSA): a two step leaching method |
| 9.30-9.45 | F. Corona, D. Hidalgo, J.M. Martín-Marroquín, S. Sanz-Bedate, G. Antolín
Study of the crystallisation reaction behaviour to obtain struvite |
| 9.45-10.00 | R. Warrings
Iron and steel stock in Austria – Bottom up analysis |
| 10.00-10.15 | M. Notarnicola, M. Dalessandro, S. De Gisi, L. Romaniello, F. Todaro
Materials recovery from residues of integrated steel making process: experimental investigation on briquettes production |
| 10.15-10.30 | Na Zhang, Le Wu, Xiaoming Liu, Yihe Zhang
Hydration characteristics of silica-alumina based cementitious materials composed of steel slag |
| 10.30-10.45 | M.V.A. Florea, L.C. Quaas, H.J.H. Brouwers
Internal chloride binding of OPC pastes: modelling using binding isotherms |
| 10.45-11.00 | C.A. Young, A. Das
Mining Sustainability by Water Treatment, Tailings Repurposing and Slag Recycling |
| 11.00-11.15 | V. Funari, H. I. Gomes, M. Cappelletti, S. Fedi, E. Dinelli, M. Rogerson, W. M. Mayes
Bioleaching of fly ash and bottom ash from Municipal Solid Waste Incineration for metal recovery |
| 11.15-11.30 | G. Vassallo, C. Zehetbauer, J. Kisser, H. Gattringer
Greywater purification in prefabricated façade elements derived from construction and demolition waste |
| 11.30-12.00 |  Coffee Break |
| 12.00-12.15 | Xiuqing Li, Changhui Wang, Yuansheng Pei
Research on recycling of drinking water treatment residuals in environmental remediation: The past and future |
| 12.15-12.30 | Xiangxin Xue, Mi Zhou, Jinling Yang
A novel resourceful treatment of the high sodium content residue from sodium salt roasting-water leaching vanadium extraction technique |


12.30-12.45	Y. Fu, M.M. Su Hydrolysis characteristics of poly-Ti-Fe (M-PTF) coagulant from a solid waste and its contribution to coagulation effect
12.45-13.00	M. M. Fouad, T. M. A. Razek, A. S. El-Gendy Coagulants recovery from water works waste: sustainable implementation challenges
13.00-13.15	E. Pantazopoulou, A. Zouboulis Chromium recovery from tannery sludge and its ash based on hydrometallurgical leaching
13.15-13.30	C. Kwon, B. C. Han First-Principles computational study on the electrochemical recycling of used nuclear fuels through pyroprocessing technology in molten salt media
13.30-13.45	J. Raček, J. Ševčík, R. Komendová, J. Kučerík, P. Hlavínek Heavy metal fixation in biochar after microwave pyrolysis of sewage sludge
13.45-14.00	Mengge Dong, Xiangxin Xue Thermal neutron shielding performance and mechanism of a novel, low cost material: Boron-rich slag

ROOM 3

SESSION XIX

Bioprocesses, Biorefineries in waste management II

Chair: C. Cardona, P. Champagne, A. Djukic-Vukovic

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|-------------|---|
| 9.15-9.30 | Fan Zhang, Fang-Qin Wang, Jin-Zheng Wang, Chang-Tong Zhu, Jun Wang
Enzyme membrane reactor enhances isoquercitrin production by the conversion of rutin from grapefruit peel extract |
| 9.30-9.45 | J. Pejin, M. Radosavljević, M. Pribić, S. Kocić-Tanackov, D. Mladenović, A. Djukić-Vuković, L. Mojović
Usage of food industry by-products as raw materials in lactic acid fermentation |
| 9.45-10.00 | A. Djukić-Vuković, D. Mladenović, S. Lazović, S. Kocić-Tanackov, J. Pejin, L. Mojović
Low cost non-thermal plasma treatment of distillery wastewater for lactic acid fermentation |
| 10.00-10.15 | E. Carmona Garcia, J. A. Poveda Giraldo, C. A. Cardona Alzate
Thermochemical and Biochemical routes to produce energy from residues:
The case of Pinus patula as raw material for direct bioenergy and ethanol production |
| 10.15-10.30 | A. Sthefanía Caballero, J. Miguel Romero, E. Castro, C. Ariel Cardona
Application of supercritical fluids for polyphenolic compounds extraction from olive pomace |
| 10.30-10.45 | J.-Z. Wang, W.-M. Song, W.-J. Li, J. Wang, S. Sheng, F.-A. Wu
Microwave irradiation enhances enzymatic interesterification of fatty acids in silkworm pupae oil triglycerides |
| 10.45-11.00 | E. Nikolaivits, A. Agrafiotis, E. Baira, N. Fokialakis, E. Topakas
Potential of marine-derived mesophotic fungi for the Bioremediation of
2,4- dichlorophenol-contaminated wastewaters |
| 11.30-12.00 |  Coffee Break |
| 12.00-12.15 | V. Sdrallis, S. Maina, A. Vlysidis, D. Ladakis, S. Papanikolaou, A. Machado de Castro, A. Koutinas
Enhanced 2,3-butanediol production by Enterobacter ludwigii in fed-batch and continuous culture:
Substrate and product inhibition from sugarcane |
| 12.15-12.30 | S. Maina, D. Ladakis, S. Papanikolaou, A. M. Castro, A. Koutinas
Valorization of by-products from soybean-based biodiesel production plant for 1,3-propanediol production |


- 12.30-12.45 A. Velásquez-Barrios, C. Rueda-Duran, E. Mogollón, C. A. Cardona-Alzate
Analysis of the environmental impact using the Waste Reduction Algorithm WAR in polypropylene process production by applying grade Transitions strategies
- 12.45-13.00 Z. Noorimotlagh, N. Jaafarzadeh Haghighi, M. Ahmadi, S. Abbas Mirzaee, F. Rahim
The possible DNA damage induced by environmental organic compounds: a case of Nonylphenol
- 13.00-13.15 T. Phenrat, P. Teeratitayangkul
Phytoremediation of Illegally Dumped Petroleum Hydrocarbon-contaminated Wastewater Using Vetiver (*Vetiveria zizanioides* (L.) Nash)
- 13.15-13.30 T. M. Massara, O. T. Komesli, O. Sozudogru, A. E. Yilmaz, M. T. Yilmaz, E. Katsou
Investigation of the effectiveness of electrooxidation for the treatment of domestic wastewater
- 13.30-13.45 T. M. Massara, A. E. Yilmaz, O. T. Komesli, E. Katsou
Applications of electrochemical treatment for domestic wastewater: A review

ROOM 4

SESSION XX

Agricultural Waste Management

Chair: N. Gontard, N. Tzortzakis, M. Doula

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|-------------|---|
| 9.15-9.30 | J. Pesonen, P. Myllymäki, T. Hu, H. Prokkola, S. Tuomikoski
Use of calcined dolomite as chemical coagulant in the simultaneous removal of nitrogen and phosphorus |
| 9.30-9.45 | E. Hatzigiannakis, E. Tziritis, N. Katirani, A. Filippidis
The use of HEU-type zeolitic tuff in the management of agricultural nitrate load: Experimental study on soil and vadose zone leachates |
| 9.45-10.00 | B. Mayans, R. Camacho-Arévalo, C. Garcia-Delgado, R. Antón, C. Escolástico, M.L. Segura, E. Eymar
Removal of sulfonamides from urban wastewaters by fungi of genus <i>Pleurotus</i> |
| 10.00-10.15 | S. Kosmidis, M. K. Doula, A. Assimakopoulou, C. Kolovos, Y. Troyanos, A. Papadopoulos, P. Kostopoulos
Pepper cultivation on a substrate consisting of soil, natural zeolite and olive mill waste sludge-Changes in soil properties |
| 10.15-10.30 | A. Simon-Masseron, C. Raynaud, V. Simon
Valorization of agricultural by-products with zeolites |
| 10.30-10.45 | M. Casellas, A. Prorot, R. Farges, A. Gharzouni, S. Rossignol, P. Bressolier
Comparison of two valorization processes of wastes generated by fruit waste antioxidant compounds extraction |
| 10.45-11.00 | G.K. Lamprou, A. Vlysidis, A.G. Vlyssides
Extraction of polyphenols from olive leaves and hydrolysis of oleuropein for the production of 3-hydroxytyrosol |
| 11.00-11.15 | E. Anastasopoulou, A. Petrou, D. Makris, C. G. Biliaderis, I. Mourtzinou
Cyclodextrins as co-solvents for the extraction of polyphenols from olive leaf |
| 12.00-12.15 |  Coffee Break |
| 12.15-12.30 | R. Camacho-Arévalo, J. Gómez-Hernández, B. Mayans, R. Antón, C. Escolástico, C. Garcia-Delgado, E. Eymar
Organic wastes for biostimulation of <i>Agaricus bisporus</i> and <i>Pleurotus ostreatus</i> |

12.30-12.45	S. Sheng, J. Wang, S.-Y. Wu, J.-Z. Wang, F.-A. Wu, J. Wang Comparisons of pupae oil fatty acids composition and development parameters in a mulberry- and artificial diet- fed insect pest, <i>Spodoptera litura</i>
12.45-13.00	J.L. Rocha, C. Dias-Ferreira Phosphorus Flows in the Portuguese Livestock and Agriculture Systems: A Roadmap Towards Sustainability
13.00-13.15	K.H.D. Perera, H.S.M. Pieris A physico-chemical study of husks of different varieties of rice grown in Sri Lanka
13.15-13.30	K. Bhaskar One size does not fit all: Different types of biomass power plants in India
13.30-13.45	A. Krokou, M. Stylianos, A. Agapiou Environmental aspects of carob tree (<i>Ceratonia siliqua</i> L.)
13.45-14.00	M. Elhag, S. B. Boteva Conceptual Assessment of Energy Input-Output Analysis and Data Envelopment Analysis of Greenhouse Crops in Crete Island, Greece.

ROOM 1

SESSION XXI

Biofuels from Waste

Chair: A. Vlyssides, L. Lombardi, S. Vakalis

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| 15.00-15.15 | Zhao-Xin Liu, Bin-Peng Tang, Bo Wang, Sheng Sheng, Fu-An Wu, Jun Wang
Inositol enhances lipid production by Schizochytrium limacinum SR21 using defatted silkworm pupae hydrolysate |
| 15.15-15.30 | E. Babayigit, D. Atik, A. Erdinçler
Effect of Acid and Ultrasonic Pre-treatments on the Lipid Extraction from Petrochemical Industry and Sewage Sludges |
| 15.30-15.45 | E.J. Cho, H.-J. Bae
Transformation of Cheaper Mangosteen Pericarp Waste into Bioethanol and Chemicals |
| 15.45-16.00 | E. Ranieri, A. C. Ranieri, P. Gikas
Solid recovered fuel production from municipal solid waste: a tourist area plant case study |
| 16.00-16.15 | Y. Gerchman, H. Abu Tayeh, H. Azaizeh
Valorization Olive Mill Solid Waste to Ethanol by Microwave Pretreatment and Enzymatic Saccharification |
| 16.15-16.30 | L. di Bitonto, V. Locaputo, C. Pastore
Liquid fuel from sewage sludge through direct acid ethanolysis |
| 16.30-16.45 | H. Kamyab, S. Chelliapan, M.F. M. Din, S. Rezanian, T. Khademi, A. Kumar
Microalgae Cultivation using Various Sources of Organic Substrate for High Lipid Content |
| 16.45-17.00 | J. Raček, T. Chorazy, V. Novák, J. Čáslavský, P. Hlavínek
Energy efficiency from dry sewage sludge before and after low-temperature microwave pyrolysis |
| 17.00-17.15 | Zhigang Yang, Haiyan Pei, Changliang Nie, Qingjie Hou, Yuting Wang, Lijie Zhang, Shasha Zhang
Combining photosynthetic microbial fuel cell with photobioreactor for bioenergy recovery from anaerobically digested effluent from food waste |
| 17.15-17.30 | M. T. Santos, T. M. Cabrita
Biogas analysis of landfills in Portugal |
| 17.30-17.45 | A. Orfanoudaki, G. Makridakis, A. Maragkaki, M. Fountoulakis, T. Manios
Anaerobic co-digestion of liquid pig manure with coffee residues for enhanced biogas production |

18.30-19.00

CLOSING SESSION: Conclusions from each Session

ROOM 2
SESSION XXII

Hazardous Waste Management

Chair: K. Moustakas, G. Mancini, A. Jada

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|-------------|---|
| 15.00-15.15 | N. Russo, D. Fino, M. Piumetti, G. Mancini, G. Saracco
The use of the clinoptilolite for wastewater remediation |
| 15.15-15.30 | W. Hyk, K. Kitka
Heavy metal removal from wastewater by ferrogels |
| 15.30-15.45 | M. Elhag, A. A. M. Al-Ghamdi, H. K. Galal, A. Dahlan
Evaluation of Aloe vera L. as Phytoremediator of Heavy Metal Contaminated Soils in Arid Environments |
| 15.45-16.00 | I. Hachilif, A. Jada
Removal of metallic ions from water by use of PS-PEO diblock copolymer stabilized magnetite particles |
| 16.00-16.15 | R.N. Mutafela, W. Hogland, Physico-chemical Characterisation of Fine Fraction Materials from a Swedish Glassworks Dumpsite |
| 16.15-16.30 | K. Schollbach, Q. Alam, V. Caprai, S.R. van der Laan, C.J.G. van Hoek, H.J.H. Bouwers
Investigating the Mineralogy of Bottom Ash using XRD and PARC |
| 16.30-16.45 | H. Jung, B. C. Han
First principles computational study on hydrolysis of hazardous chemicals phosphorus trichloride and oxychloride (PCl_3 and $POCl_3$) catalyzed by molecular water clusters |
| 16.45-17.00 | R. Anwar, M. Ahmed, P. Ziemkiewicz, L.-S. Lin
Feasibility of Utilizing Acid Mine Drainage Sludge in an Innovative Iron-based Wastewater Treatment Process |
| 17.00-17.15 | G. Pavlidis, H. Karasali, M. Doula, E. Ploumistou, D. Malamis, K. Moustakas
Hazardous agricultural waste in Greece: Current status and future perspectives |
| 17.15-17.30 | U V Adegbotolu, K Yates, J Njuguna, K Matthews
Hazardous material sustainable management: Case study on spent oil based drilling fluid and cutting |
| 17.30-17.45 | N. Ardeleanu, G. Lazar, R. Ionce
Remediation of contaminated mining sites to halt the loss of biodiversity and ecosystem services |

- 17.45-18.00 A. Neoklis, A.A. Zorpas
Development of a protocol to defined end of waste criteria regarding the use of tire pyrolysis oil in the framework of energy recovery
- 18.00-18.15 Byeong-Kyu Lee, Ryeo Gyeong Youn, Sang Yong Jang, Yongsun Im
Proposed Waste Classification Criteria of Chemicals released from Chemical Accidents
- 18.15-18.30 E. S. Kocoglu, O. Sozudogru, O. T. Komesli, A. E. Yilmaz, T. Massara, E. Katsou, S. Bakirdere
Accurate and sensitive simultaneous determination of drug active compound, pesticides, hormones and endocrine disruptor compounds in wastewater samples using GC-MS after dispersive liquid-liquid microextraction

ROOM 3
SESSION XXIII

Characterisation of Waste Residues

Chair: L. Lemee, A. Zorpas

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| 15.00-15.15 | B. Abylkhani, R. Otarov, B. Aiymbetov, A. Yagofarova, D. Tokmurzin, C. Venetis, S. Pouloupoulos, Y. Sarbassov, V. Inglezakis
Astana city Municipal Solid Waste Characterization |
| 15.15-15.30 | P. Martel-Naquin, G. Jean, J. Lacour, R. Bayard
Characterization and quantification campaign of household waste from Cap-Haitien (Haiti), in order to size management channels |
| 15.30-15.45 | L. Lemee, C. Tu Vu, M. Soubrand, M. Casellas
Molecular characterisation of fertilizing materials of residual origin for a better understanding of interactions with pollutants |
| 15.45-16.00 | S. Rhouat, F. Dimane, M. S. El Youbi
Characterization of household waste |
| 16.00-16.15 | L. Luyckx, G.J. de Leeuw, J. Van Caneghem
Characterisation of poultry litter ash in view of its valorisation potential |
| 16.15-16.30 | M. Gómez, F. Corona, D. Hidalgo
Variations in the properties of leachate according to landfill age |
| 16.30-16.45 | J. Faitli, S. Nagy, R. Romenda, I. Gombkötő, L. Bokányi, L. Barna
Analysis of RMSW Deposited a Decade Ago for Later "Landfill Mining" |
| 16.45-17.00 | M. M. Namadi, A. Jimoh
Analysis of Institutional Solid Waste Generation and Disposal in Afaka Military Cantonment Kaduna |
| 17.00-17.15 | A. Qorbani Shahnajfi, M. Jalili Ghazizade
Generated waste management in iron melting industry: quantitative and qualitative identification, classification, coding and disposal (Case study: Isfahan iron melting plant) |
| 17.15-17.30 | R. Skvorčinskienė, N. Striūgas, K. Zakarauskas, R. Navakas, R. Paulauskas
Investigation of waste fishing gear pyrolysis |
| 17.30-17.45 | P. Scarponi, A. Costa Devoti, A. Volpi Ghirardini, C. Cavinato
Preliminary evaluation of Scenedesmus Obliquus growth on organic solid waste digestate, with different mechanical pretreatment |

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| 17.45-18.00 | G. Batalha, P. Horgue, R. Guibert, S. Pommier, G. Debenest
Effective Transport Parameters Determination for Dry Anaerobic Process |
| 18.00-18.15 | G. Cecchi, L. Cutroneo, S. Di Piazza, G. Greco, G. Vagge, M. Faga, M. Zotti, M. Capello
Fungi as potential tool of polluted port sediment remediation |
| 18.15-18.30 | L. El Fels, L. Lemee, M. Hafidi
Assessment of lignin compounds during composting of sewage sludge using pyrolysis-GC/MS |

ROOM 4

SESSION XXIV

Sludge Management

Chair: A. Zouboulis, F. Fatone, K.-J. Haralambous

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|-------------|---|
| 15.00-15.15 | Zehua Ji, Yuansheng Pei
Dynamic adsorption behaviors of Pb_{2+} under complex conditions in sludge-based biochar fixed-bed system: breakthrough curve characteristics and parameters |
| 15.15-15.30 | P. Hartwig
Efficient technology for the combined treatment of waste water and solid waste - the DUPLEX-Technology |
| 15.30-15.45 | L.H. Lee, T.Y. Wu, K.Y. Ng, K.P.Y. Shak, M.N. Nguyen, W.H. Teoh
Sustainable valorization of wastewater sludge into organic fertilizer through vermicomposting process |
| 15.45-16.00 | M. Jouini, T.V Rakotonimaro, M. Benzaazoua, T. Genty, C.M. Neculita
Stability of metal-rich solids from laboratory multi-step treatment system for ferriferous acid mine drainage |
| 16.00-16.15 | A. Cerutti, G. Campo, M.C. Zanetti, L. Polimeno, G. Scibilia, E. Lorenzi, B. Ruffino
Effect of the Hydraulic Retention Time (HRT) on the efficiency of a two-stage anaerobic digestion with intermediate treatments for Waste Activated Sludge (WAS) |
| 16.15-16.30 | N. Frison, V. Conca, C. Da Ros, A.L. Eusebi, M. Tartini, L. Giroto, A. Piasentin, F. Fatone
Scale-up of the P and PHA recovery from cellulosic sludge via SCEPPHAR system: first performances from Carbonera WWTP |
| 16.30-16.45 | S. De Gisi, A. Gherghel, G. Iannone, M. Notarnicola, C. Teodosiu
Evaluating the greenhouse gas emissions of a municipal wastewater treatment plant with sludge incineration |
| 16.45-17.00 | S. Werle
Thermal treatment of sewage sludge within a circular economy perspective: A Polish case study |
| 17.00-17.15 | D. Cingolani, A. Foglia, G. Cipolletta, N. Frison, A.L. Eusebi, F. Fatone
Integrated pilot-scale Anaerobic Membrane Bioreactor and acidogenic sludge fermentation to treat low-loaded municipal wastewater |

17.15-17.30	E. Samara, Th. Matsi, A. Zdragas, N. Barbayiannis Use of clay minerals for reducing sewage sludge's microbial load and nitrogen losses
17.30-17.45	V. Bobade, J. Christophe Baudez, G. Evans, N. Eshtiaghi Monitoring Rheology as a Tool for Measuring the Effective Shear Rate in the Bubble Columns
17.45-18.00	A. Singh, E. Aymerich, M. Sawant, M. Herlekar Sewage Sludge Management using Rotary Drum Composting
18.00-18.15	S. Aitlahyane, Z. Aityacine, H. Hafida, L. Brahim The effect of the agitation on the process of the BIO methanisation of sludge from station to purge



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