



LIFE12 ENV/CY/544: Sustainable management of livestock waste for the removal/recovery of nutrients



# CYPRUS 2016

4th International Conference  
on Sustainable Solid Waste Management

## agenda

23rd - 25th June 2016  
Limassol, Cyprus

[www.cyprus2016.uest.gr](http://www.cyprus2016.uest.gr)  
[www.livewaste.org](http://www.livewaste.org)



Cyprus University  
of Technology



National Technical  
University of Athens



Università degli  
studi di Verona



Universidade  
de Santiago  
de Compostela





# Welcome!

On behalf of the Scientific and Organising Committees, I am pleased to welcome you in Limassol, Cyprus and to the CYPRUS2016 4th International Conference on Sustainable Solid Waste Management (<http://www.cyprus2016.uest.gr>).

As in the cases of the ATHENS 2012 Conference ([www.athens2012.uest.gr](http://www.athens2012.uest.gr), June 2012), the ATHENS 2014 Conference ([www.athens2014.biowaste.gr](http://www.athens2014.biowaste.gr), June 2014) and the TINOS 2015 Conference ([www.tinos2015.uest.gr](http://www.tinos2015.uest.gr), July 2015), the **CYPRUS 2016 4th International Conference** aims to make a step forward in the field of solid waste management through the promotion of innovative technologies and effective practices.

We are happy to identify that the series of our conferences started in 2012 keeps attracting the attention of the academics and private and public sector, a fact proved by the gradual increase in the number of participants, the participating countries and the papers presented during the conferences.

It is true that we make significant efforts to increase the quality of the papers and keep high standards, as proved by the increase of the papers finally published in scientific journals of high reputation. At the same time, we do our best to provide the participants of the conferences with high services and managed to do so without having to pay registration fees until now.

The CYPRUS2016 Conference aims to stimulate the interest of the scientific community, the competent authorities and the public and inform them about the latest developments and achievements in the field of solid waste management with emphasis on municipal solid waste. Biological Treatment (composting & anaerobic digestion), the treatment at central facilities, waste prevention, separation at source & recycling also constitute priority subjects of the conference agenda. Special attention will be drawn on circular economy and industrial symbiosis, as well as to biofuels and biobased products and the stream of agricultural waste.

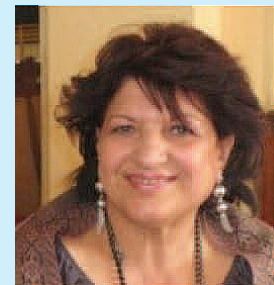
The Conference will provide an opportunity to bring together scientists & professionals from government departments, Municipalities, private institutions, research & education institutions, by being a forum for the exchange of the most recent ideas, techniques & experiences in all areas of solid waste management.

A special Session will focus on solid waste management in Cyprus and the role of Local Authorities & Municipalities for taking advantage of both recyclable materials and biowaste. Last but not least, the intention of the Conference is to seek and promote networking opportunities through a session devoted to Environment-related Competitive EU Programmes.

The Conference is organized within the LIFE+ LIVEWASTE project (LIFE12 ENV/CY/000544) ([www.livewaste.org](http://www.livewaste.org)) dealing with the development, demonstration and evaluation of an innovative decentralized approach for sustainable management of livestock waste achieving environmental protection and climate change mitigation. The LIVEWASTE project is coordinated by the Cyprus University of Technology and Professor Costas Costa is the coordinator and Co-Chair of the CYPRUS 2016 Scientific Committee. It is important to note that two more LIFE+ projects, WASTE2BIO ([www.waste2bio.eu](http://www.waste2bio.eu)) and AGROSTRAT ([www.agrostrat.gr](http://www.agrostrat.gr)), have contributed to organizing a fruitful conference event.

The Conference agenda is dense and rich, offering a considerable variety of topics presented with its more than 275 presentations within the twenty one sessions on 23rd - 25th June 2015 at Atlantica Miramare Beach Hotel in Limassol.

We hope you will find the CYPRUS2016 Conference useful and successful and that you will enjoy staying in Cyprus, the third largest island in the Mediterranean, where Aphrodite made her home. I am very happy that this fourth conference takes place in Cyprus, my birthplace.



Maria Loizidou, Professor NTUA  
Co-Chair of the Scientific Committee

# The Committees

## Scientific

Maria Loizidou  
NTUA, Co-Chair

Costas Costa  
Cyprus University of Technology, Co-Chair

Agapios Agapiou  
University of Cyprus

Aleksandra Djukic-Vukovic  
University of Belgrade

Anastasia Zabaniotou  
Aristotle University of Thessaloniki

Anastasios Zouboulis  
Aristotle University of Thessaloniki

Andreas Andreopoulos  
Hellenic Solid Waste Management  
Association

Ange Nzihou  
Ecole des Mines d'Albi

Apostolos Vlyssides  
NTUA

Barbara Ruffino  
Politecnico di Torino

Celia Dias-Ferreira  
University of Aveiro

Chew-Tin Lee  
University Technology of Malaysia

Christopher Cheeseman  
Imperial College

Costas Velis  
University of Leeds

David Bolzonella  
University of Verona

Dolores Hidalgo  
CARTIF

Dimitrios Malamis  
NTUA

Evina Katsou  
Brunel

Francesco Fatone  
University of Verona

Francisco Omil  
Universidad de Santiago de  
Compostela

Franco Cecchi  
University of Verona

Florian Amlinger  
European Compost Network

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Ioannis Pashalidis  
University of Cyprus

Ioannis Skiadas  
Technical University of Denmark

Jiri Hrebicek  
Masaryk University

Katia Lasaridi  
Harokopio University

Katherine - Joanne Haralambous  
NTUA

Konstantinos Aravossis  
NTUA

Konstantinos Makris  
Cyprus University of Technology

Luben Tzankov  
Technical University of Sofia

Maria Zachariou-Dodou  
Institute of Environment &  
Sustainable Development

Michalis Kornaros  
University of Patras

Nick Voulvoulis  
Imperial College

Nikolaos Tzortzakis  
Cyprus University of Technology

Omar Assobhei  
University of Fez

Paul Christakopoulos  
Lulea University of Technology

Petros Gikas  
Technical University of Crete

Rafael Luque  
University of Cordoba

Spyros Pavlostathis  
Georgia Tech

Stephen Smith  
Imperial College

Vassilis Inglezakis  
Nazarbayev University

Zorana Naunovic  
University of Belgrade

Weiguo Shen  
Wuhan University of Technology

## Organizing

Konstantinos Moustakas  
NTUA

Christodoulos Theologides  
CUT

Petros Savva  
CUT

Charoula Piskopianou  
CUT

Georgios Olympiou  
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Barbara Constantinou  
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Vasiliki Chatziiona  
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Andreas Athanasiades  
Department of Environment,  
Cyprus

Chrystalla Stylianou  
Department of Environment

Aggelos Sotiropoulos  
NTUA

Petros Gikas  
Technical University of Crete

# Social Events

Wednesday, 22nd June 2016



## Conference Welcome Cocktail

Time: 20.00 – 22.30

Venue: Atlantica Miramare Beach Hotel

All conference participants and speakers are invited to a Welcome Cocktail, held in the conference venue.

Thursday, 23rd June 2016



## Gala Dinner

Time: 20.00 – 23.30

Venue: Aphrodite Hills

During the Conference Gala Dinner, you will have the chance to taste traditional Cypriot food, as well as local delicatessen.

Saturday, 25th June 2016



## Excursion – Site Visit

Time: 14.00 – 19.30

The excursion will include lunch and visit to the Colossi Castle and the Curium Theatre.





8.00 - 9.15

Registration

9.15 - 9.45

**ROOM 1**

### Welcome Speeches

*Nicos Kouyialis, Minister of Agriculture, Rural Development and Environment*

*Evangelos Kapetanios, General Secretary, General Secretariat for Waste Management Coordination, Ministry of Interior-Administrative Reform & eGovernance*

*Carmen Mena Abela, Head of Sector Eco-Innovation, European Commission, EASME*

*Ioanna Panayiotou, Environment Commissioner*

*Andreas Anayiotos, Rector, Cyprus University of Technology*

*Andreas Boudouvis, Dean, School of Chemical Engineering, National Technical University of Athens*

### Keynote Speakers

**Chair: M. Loizidou, C. Costa**

Carmen Mena Abela, European Commission, EASME  
"Compliance promotion within the circular economy"

David Newman, International Solid Waste Association  
"Exploring circular economy"

9.45 - 11.15

Christopher Cheeseman, Imperial College  
"Innovation in waste processing to achieve circularity"

Maria Loizidou, National Technical University of Athens  
"Alternative ways for managing urban organic waste: Current practices and future trends"

Mauro Majone (Sapienza University of Rome), Nathalie Gontard (INRA)  
"Turning agricultural waste into ecological and economic assets: ECOBIOCAP experience and NoAW ambition"

Costas Costa, Cyprus University of Technology  
"Sustainable management of livestock waste for the removal / recovery of nutrients"

11.15 - 11.30



Coffee Break

**ROOM 1**

**SESSION I**

**Municipal waste management**

(session targeting at local authorities)

**Chair: M. Loizidou, D. Bolzonella**

11.30 - 11.45	Costas Hadjipanayiotou, Department of Environment National Waste Management Plan of Cyprus 2016-2021
11.45 - 12.00	T. Prastitou Merdi Improving municipal waste management in Cyprus from a legal perspective: A long way to go until 2020?
12.00 - 12.15	Panagiotis Damianou, Union of Cyprus Communities Solid waste management in Cyprus Communities
12.15 - 12.30	G. Konstantzos, D. Malamis, K. Moustakas, M. Loizidou Effective solid waste management at municipality level
12.30 - 12.45	Charis Tsagarides, Municipality of Aglantzia Aglantzia's Pay as you throw: The eco-social approach to Waste collection pricing
12.45 - 13.00	A. Mattioli, D. Boscaro, F. Dalla Venezia, F. Correale Santacroce, A. Pezzuolo, L. Sartori, D. Bolzonella Biogas from residual grass: a territorial approach for sustainable bioenergy production
13.00 - 13.15	D. Nikolaidis, S. Grimes, S. R. Smith A Renewable Energy Strategy for the Republic of Cyprus and the Potential Contribution from the Solid Waste Management Sector
13.15 - 13.30	D. Malamis, K. Moustakas, M. Loizidou Good practices in the field of solid waste management
13.30 - 13.45	C. De La Paz The LIFE Programme: Over 20 years improving waste management in the EU
13.45 - 14.15	Discussion - Conclusions
14.15 - 15.15	 Lunch Break

**ROOM 2**

**Circular Economy & Symbiosis**

**SESSION II**

**Chair: C. Cheeseman, D. Newman**

11.30 - 11.45	J. Soukopová, J. Hřebíček, V. Valentinov A Road Map to the Circular Economy for Municipalities
11.45 - 12.00	M. Lindemann, H. Giani, R. Geurts, M. Quaghebeur, T. Pretz Modelling of industrial solid waste treatment processes
12.00 - 12.15	C. Marouli Moving towards a Circular Economy: The Need to Educate – Why and How?
12.15 - 12.30	D. Kallidromitou, K. Korizi, K. Aravossis Industrial Waste Strategy for Greece
12.30 - 12.45	M. Struk, J. Soukopová Age Structure and Municipal Waste Generation and Recycling – New Challenge for the Circular Economy
12.45 - 13.00	P.I. Maraboutis, E.E. Nikolaou, N. I. Poulimenou Key tasks for EU waste classification according to the new legislative framework
13.00 - 13.15	A.V. Georgiou, S.J. Pantazopoulou Use of Waste Fly Ash from Power Plants for Use in Cementitious Composites for Structural Elements
13.15 - 13.30	Z. Horsák, J. Hřebíček, M. Straka Plastic Waste and Circular Economy
13.30 - 13.45	E. Iacovidou, P. Purnell, C. A. Velis, J. N. Hahladakis, J. Busch The use of metrics in guiding transformation in resource recovery systems
13.45 - 14.00	Discussion - Conclusions



**ROOM 3****SESSION III****Management of specific waste streams****Chair: A. Agapiou, M. Valiantis**

11.30 - 11.45	J.A. Vilán, P. Izquierdo, P. Yañez, A. Segade, E. Casarejos Design and development of a pilot plant for WEEE-computers reusing
11.45 - 12.00	L. Somakos, K. Aravossis, E. R. Chasapidi- Mavroeidi, S. Papanika Innovative 3D training platform for recycling of waste coming from Electric and Electronic Devices – RECDEV
12.00 - 12.15	K. Lasaridi, C. Chroni, K. Abeliotis, M. Intzeler, Ch. Angelakopoulos The LIFE REWEEE Project - Development and Demonstration of Waste of Electrical and Electronic Equipment Prevention and Reuse Paradigms
12.15 - 12.30	G. Linaraki, S. Falida, M. Skarvelakis Integrated Management of Ship-Generated Waste and Marine Environment Protection Services
12.30 - 12.45	T. Manoloudis, L. Karagiannidis, S. Crossett, J. Crossett Developing an EU standardised approach to vocational qualifications in healthcare waste management
12.45 - 13.00	P. Halazonitis Hospital waste in Greece: Management and inspection issues
13.00 - 13.15	E. Tesfahun, A. Kumie, A. Beyene Developing models for the prediction of hospital healthcare waste generation rate
13.15 - 13.30	M. Ali, W. Wang, N. Chaudhry Comparing administration of hospital wastes using social network analysis
13.30 - 13.45	E. Tesfahun Situational analysis of healthcare waste management system in the hospitals of Ethiopia
13.45 - 14.00	S.M. Elgizawy K. Nassar, S.M. El-Haggar Quantification of Construction Waste: Egypt Case study
14.00 - 14.15	H. Nguyen Tran, S.-J. You, H.-P. Chao Characterization of Activated Carbons from Golden Shower (Cassia Fistula) upon Chemical Activation with Potassium Carbonate by Different Methods
14.15 - 14.30	A. Agapiou The volatile fraction of green food waste

**ROOM 4**

**Wastewater / Water**

**SESSION IV**

**Chair: M. Zachariou-Dodou, M. Antoniou**

11.30 - 11.45	Sandeep Chhabra, Sudhir Kumar, V.K. Dwivedi Enhancing the productivity of a novel solar still by shading the secondary condensing cover
11.45 - 12.00	M. Poudyal, S. Babel Evaluating the effectiveness of the banana ( <i>Musa spp.</i> ABB cv. Kluai Namwa) peel for the removal of fluoride from water
12.00 - 12.15	R. Hofman-Caris, A. Ahmad, W. Siegers, O. van der Kolk Application of iron sludge pellets for the removal of arsenic or phosphate from water
12.15 - 12.30	Sandeep Chhabra, Sudhir Kumar, V.K. Dwivedi Enhancing the productivity of modified solar still by cooling the secondary condensing cover
12.30 - 12.45	A. Esmaili, N. Tavanaye Farahi The efficiency of a novel bioreactor employing bacteria and chitosan-coated magnetic nanoparticles
12.45 - 13.00	P. Singh, A. Borthakur, R. Singh, D. Tiwary, P.K. Mishra Biochar prepared from refuse floral waste of temple for adsorption of dye from waste water, an approach towards sustainable waste management: A case study in Varanasi, India
13.00 - 13.15	A.A. Adeyi, A.M. Adeyemi Characterization and Leaching Assessment of Toxic Metals in Municipal Solid Wastes in Southwest, Nigeria
13.15 - 13.30	G. Bartzas, D. Zaharaki, K. Komnitsas Evaluation of groundwater vulnerability in Aegina island, Greece, using GIS-based methods
13.30 - 13.45	Discussion - Conclusions

**ROOM 1****SESSION V****Composting****Chair: S. Smith, D. Malamis, T.Y. Wu**

15.00 - 15.15	A.M. Ksheem, D.L. Antille The effect of sawdust addition on nutrient composition and losses during composting of chicken manure
15.15 - 15.30	D. Orthodoxou, T.R. Pettitt, S.R. Smith Physicochemical and microbiological parameters influencing the small-scale in-vessel composting of food waste
15.30 - 15.45	E. Kalatzi, E. Sazakli, H.K. Karapanagioti, M. Leotsinidis Composting of brewery sludge mixed with different bulking agents
15.45 - 16.00	M. Canditelli, N. Faustini, M. Gravagno, P.G.Landolfo, F. Musmeci, G.Sagnotti Characterization of community composters
16.00 - 16.15	Z. Sun, Y. Wu An integrated crop-vermiculture system for treating organic waste on farmland
16.15 - 16.30	D. Zhang Enhancing composting efficiency by promoting indigenous cellulose decomposing microorganisms
16.30 - 16.45	M. Grigatti, L. Cavani, S. Mancarella, L. Sciubba, C. Ciavatta, C. Marzadori Factors affecting the water extractable phosphorus from compost
16.45 - 17.00	A. G. Vlyssides, G. Lambrou, Ch. Tsiodra, G. Seintis Compost from solid and liquid olive mill wastes used in cultivation of Olive trees for the increase of the plant phenolic profile: A sustainable approach
17.00 - 17.15	K. Chassapis, M. Roulia, E. Kontzaki, M. Exarhakou Green innovative biodegradation of polyphenols in oil mill wastewaters to produce first class soil conditioner
17.15 - 17.30	Ta Yeong Wu, Ze Xian Low, Pei Nie Lim Reuse of powdered eggshells in vermicomposting of acidic waste
17.30 - 17.45	C. Tsiodra, A. G. Vlyssides A novel respirometer for determination of compost stability

17.45 - 18.00	M.P. Maladaki, D. Mallini, M.Minoglou, A.V. Petalas, C.Poultsidis, A.L. Sanitsas, F.N. Tsagas, G.Vogiatzis POMIS Project: experience and good practice of home-composting in the Region of Eastern Macedonia and Thrace (REMTH), Greece
18.00 - 18.15	Z. Sun, Y. Wu Vermicomposting agricultural waste into value-added products: 30-years' R & D in China
18.15 - 18.30	A. Asimakopoulou, O. Vlachou, A. Kondylis Motivating citizens to participate in home composting program in Municipality of Agios Dimitrios

**ROOM 2**

**Waste Valorisation I**

**SESSION VI**

**Chair: A. Nzihou, M. Goula**

15.00 - 15.15	V. Sklivaniti, P.E. Tsakiridis, N.S. Katsiotis, D. Velissariou, N. Pistofidis, M. Beazi Valorization of Woody Biomass Bottom Ash in Portland Cement: A Characterization and Hydration Study
15.15 - 15.30	K. Kochova, K. Schollbach, H.J.H. Brouwers Use of alternative organic fibres in cement composites
15.30 - 15.45	A. Jiménez Rivero, J. García Navarro Characterization of recycled gypsum
15.45 - 16.00	V. Vytlačilová Evaluation of the potential of the use of recycled aggregate for concrete production
16.00 - 16.15	L. Evangelista, J. de Brito Permeability properties of fine recycled aggregate concrete
16.15 - 16.30	S.D. Mavridou, P.P. Banti Development of new environmental-friendly concrete types
16.30 - 16.45	P. Tang, M.V.A. Florea, H.J.H Brouwers Production of Artificial Aggregate Using MSWI Bottom Ash Fines (0-2 mm) Applying The Cold Bonding Pelletizing Technique
16.45 - 17.00	B. Verbinnen, J. Van Caneghem, P. Billen, C. Vandecasteele Stabilization of Sb in MSWI bottom ash in view of its recycling as construction material
17.00 - 17.15	P.M.F. van de Wouw, M.V.A. Florea, H.J.H. Brouwers Material Distribution in Treated MSWI Bottom Ash Fractions

17.15 - 17.30	L. Duarte Corrêa, A. M. Paim Camardelo, N. L. Rech Stedile Environmental Education as Technique to Reduction of Solid Waste and Natural Resources
17.30 - 17.45	W. Fernando, A. Dixon Sustainable Waste Management System for Abertay University
17.45 - 18.00	G. Perkoulidis, C. Karkanias, A. Malamakis, S. Kontogianni, N. Moussiopoulos A technical assessment of different food waste treatment technologies in campus dining hall from the perspective of global warming and resource recovery: An implementation in the Aristotle University Thessaloniki
18.00 - 18.15	N.D. Charisiou, S. Savvidis, P. Halder, M.A. Goula A study of Greek university student attitudes and behavior towards waste prevention, re-use and recycling

**ROOM 3**

**Approaches on MSW management**

**SESSION VII**

**Chair: N. Voulvoulis, D. Hidalgo, A.A. Zorpas**

15.00 - 15.15	K. Abeliotis, P. Konstadinidis, K. Lasaridi, C. Chroni Local waste management plans in Attica municipalities - Perspectives and constraints
15.15 - 15.30	D. Hidalgo, F. Corona, J.M. Martín-Marroquín Municipal waste management in remote areas of Spain: islands and rural communities
15.30 - 15.45	G. Mancini, F.G. Nicosia, A. Luciano, P. Viotti, D. Fino An approach to islands' self-contained waste management system with the goal of maximizing the recovery while limiting transportation costs
15.45 - 16.00	R. Bayard, H. Benbelkacem, R. Gourdon Characterization of Municipal Solid Waste fraction to estimate biodegradability for mechanical biological pretreatment and landfilling
16.00 - 16.15	A. A. Zorpas, K. Lasaridi, I. Voukkali, C. Chroni, P. Loizia The impact of social attitude in waste prevention programs
16.15 - 16.30	H.B. Insam, M. Probst, C.Ebner, T. Pümpel, A. Knapp, A. Walter, S.M. Podmirseg, M. Fernandez-Delgado Juarez, M. Gómez-Brandón, B. Wet Microbes in waste management make our blue planet greener

16.30 - 16.45	I. Kliopova, K. Makarskienė, E. Jurovickaja Possibilities of Increasing Resource Efficiency by Optimal Management of Solid Biodegradable Waste from Food and Beverage Production Industry
16.45 - 17.00	F. Jones, A. Sager The EU-project WASTECOSMART - Optimisation of Integrated Solid Waste Management Strategies for the Maximisation of Resource Efficiency
17.00 - 17.15	J.P. Paredes-Sánchez Biomass Energy Potential for Bio-smart Metropolitan Area (BMA) in Southern Europe
17.15 - 17.30	K. Lasaridi, K. Boikou, C. Chroni, G. Obersteiner, R. Ramusch, A.A. Zorpas, K. Abeliotis Assessing the informal recycling of aluminium beverage cans in Athens (Greece)
17.30 - 17.45	D. Damigos, A. Benardos, M. Menegaki, D. Kaliampakos, S. Papagrighoriou, Z. Gaitanarou, S. Stasinou Assessing the economic viability of landfill mining projects in Greece
17.45 - 18.00	V. Oliveira, J. Rodrigues, P. Lopes, C. Dias-Ferreira Characterization of waste materials originating from restaurants and an assessment of recycling potential
18.00 - 18.15	R.M.S. Radin Mohamed, A.A. Al-Gheethi, H.K. Amir Health Risk Associated with Management and Treatment of Solid Wastes in Malaysia
18.15 - 18.30	K. Sandhu Who wins and who loses? Impact of Privatization of Municipal Solid Waste Management Services on stakeholders

**ROOM 4**

**Sludge Management**

**SESSION VIII**

**Chair: F. Fatone, K.-J. Haralambous, P. Savva**

15.00 - 15.15	P. Fetsis The LIFE Programme: Over 20 years improving waste-to-energy management in the EU
15.15 - 15.30	E. Pantazopoulou, A. Zouboulis Chromium stabilization of tannery sludge by co-treatment with ladle furnace slag
15.30 - 15.45	A. Alshehhi, I. Janajreh Anaerobic Digestion of Oil Sludge and Waste Water Treatment Sludge



15.45 - 16.00	E. Yilmaz, M. Wzorek, S. Akcay Co-pelletization of sewage sludge and agricultural wastes
16.00 - 16.15	A. Kylili, P.A. Fokaides, D. Nicolaidis, P. Polycarpou, A. Dalias Alternative Sewage Sludge Management Routes in Cyprus
16.15 - 16.30	P. Guedes, N. Couto, E. Mateus, L. M. Ottosen, A. B. Ribeiro Electrodialytic valorisation of sewage sludge and its ashes – potential of phosphorus recovery
16.30 - 16.45	M. Collard, B. Teychené, L. Lemée Comparison of the impact of three drying processes on the characteristics of wastewater sludge
16.45 - 17.00	D. Crutchik, N. Frison, A. Jelic, F. Fatone Phosphorus recovery and VFAs production from sewage sludge fermentation
17.00 - 17.15	V. Pérez, J.M. Murillo, A. Pascual Characterization of sewage sludge for thermochemical conversion
17.15 - 17.30	P. Hlavinek, J. Raclavsky, P. Hlustik, T. Macsek, J. Lzicar Microwave induced pyrolysis of sewage sludge
17.30 - 17.45	L. Lijó, N. Voulvoulis, N. Frison, S. González-García, S. Malamis, M. Teresa Moreira, E. Katsou Comparative environmental analysis of anaerobic mono-digestion and co-digestion of organic waste
17.45 - 18.00	V. Pérez, J.M. Murillo, A. Pascual Gasification of sewage sludge using different gasifying agents
18.00 - 18.15	Leong Hwee Lee, Ta Yeong Wu, Su Lin Lim Recent overview on reuse and biotransformation of industrial sludge into organic fertilizer through vermicomposting
18.15 - 18.30	Discussion - Conclusions

## Poster Presentation

V. Ibáñez-Forés, H.R. de Medeiros-Garcia, C. Coutinho-Nóbrega, M.D. Bovea, R. Barreto-Lins, J. L. Feitosa-Virgolino,  
*Proposal of indicators to evaluate the social performance of waste management systems in developing countries: case study*

A. Kantifedaki, V. Kachrimanidou, S. Papanikolaou, A. Mallouchos, C.S.K. Lin, A.A. Koutinas  
*Biotechnological production of pigments from residues of orange processing using the filamentous fungi *Monascus purpureus* and *Penicillium purpurogenum**

M.V.A. Florea, L.C. Quaas, H.J.H. Brouwers  
*Immobilization of MSWI fine by-products*

C. Magro, G. Kirkelund, P. Guedes, P. Jensen, L. Ottosen, A. Ribeiro  
*Electrodialytic pre-treatment for the applicability of fly ash and APC residues as substitute for cement in mortar*

M. Stylianou, V. Inglezakis, G. Itskos, A. Jetybayeva, M. Loizidou, A. Agapiou  
*Characterization of natural silicate minerals utilised in environmental applications*

A. Chrysargyris, A. Stamatakis, N. Tzortzakis  
*Cucumber seedlings production using compost by municipal solid wastes as growing medium component*

I. Normatov, M. Idiev, N. Shermatov, P. Normatov, A. Zokirov,  
*Production of Hydrogen by Electrolysis of water and Plasmochemical Treatment of the Gascondensates-Waste of the Gas Industry*

M. Samoraj, K. Chojnacka  
*Micronutrient fertilizers based on blackcurrant seeds - evaluation of utilitarian properties in field conditions*

P. Tanikkul, N. Pisutpaisal  
*Comparative Granular Characteristics of Mesophilic and Thermophilic UASB Treating Palm Oil Mill Effluent*

A.A. Adeyi, V.E. Ojeabulu  
*Leaching Assessment of Toxic Metals in Solid Wastes Generated in Tertiary Institutions in Ibadan, Nigeria*

M. Djogo, D. Ubavin, I. Mihajlovic, M. Brboric, B. Tot  
*The status of leachate monitoring programmes on selected landfill sites in Serbia*

M.D. Bovea, V. Pérez-Belis, P. Quemades-Beltrán  
*Attitude of the stakeholders involved in the reuse of small electrical and electronic wastes from an end-of-life perspective*

I. Janajreh, I. Adeyemi  
*Co-Firing of Refinery and Wood Waste Streams in an Entrained Flow Gasifier: The Case of Petroleum Coke and Construction/Demolition Wood*

G. M. R. Ferreira, J. F. Pires, R. F. Schwan, L. R. Batista, C. F. Silva  
*Otimization of Cd, Zn and Pb removal by *Serratia marcescens* isolated of coffee processing wastewater in multicontaminates medium*

A. Borthakur, M. Govind  
*Challenges in the Management of Electronic Waste in India: Some Primary Observations*

J.F. Pires, R. F. Schwan, L.R. Batista, C. F. Silva  
*Pre-selection of microbial isolates for pollutants degradation in coffee processing wastewater*

I. Liatsou, I. Pashalidis  
*Radio-environmental impacts and uranium radiochemistry in phosphogypsum disposed at a coastal area in Cyprus*

P. Kamaterou, A. Zabaniotou  
*Evaluation of biochar derived from slow pyrolysis of sunflower meal biorefinery waste streams*

V L. Lijó, E. Katsou, M. T. Moreira, S. González-García  
*Impact assessment of alternative management food waste schemes in a small community from a life cycle perspective*

E. Lakioti, K. Moustakas, D. Komilis, V. Karayannis  
*Socio-economic aspects of innovation in solid waste management*

B. Tot, G. Vujić, D. Ubavin, S. Vujović, M. Živančev  
*Integration of significant social aspects in waste management system of Republic of Serbia*

V. Vasilaki, I. Noya, S. González-García, M. Moreira Vilar, E. Katsou  
*Moving towards the development of a dairy waste biorefinery*

T. Dahou, P. Dutournié, L. Limousy, M. Jeguirim, N. Perea  
*Unavoidable energy recovery from cogeneration unit by biomass drying*

M. Samanis, S. Fotiou, M. Hadfield, A. Chrysargyris, N. Tzortzakis, M. G. Antoniou  
*Removal of cyanobacterial scum from surface waters with a tangential flow separator*

V. J. Inglezakis, K. Moustakas, G. Khamitova, D. Tokmurzin, R. Rakhmatulina, B. Serik, Y. Abikak, S. G. Pouloupoulos  
*Analysis of Current Situation regarding Municipal Solid Waste Management and Implementation of Decision Support Software in two cities of Kazakhstan: Astana and Almaty*

M. Živančev, B. Batinić, S. Vujović, N. Stanisavljević, Č. Ribić  
*Possibilities for improvement of municipal waste collection system in transition countries*

A. Nuri Kursunlu, E. Güler  
*The detection and removal of Al(III) by a novel fluorescent material based-on Bodipy-Anthraquinone*

A. Nuri Kursunlu, E. Şahin, E. Güler  
*The detection and removal of Cr(III) ion with the fluorescent dual-Bodipy*

S. Vujović, N. Stanisavljević, B. Tot, D. Ubavin, L. Lepojević  
*Biodegradable waste treatment as opportunity for phosphorous recovery in Serbia*

T. M. Massara, O. T. Komesli, O. Sözüdogru, S. Komesli, E. Katsou  
*Benchmarking of low environmental footprint biological processes for the treatment of industrial waste streams*

ZZ. Miroslavljevic, S. Vujovic, D. Štrbac  
*Input-output examples for a glass container management in Serbia*

Yee Van Fan, Chew Tin Lee, Chee Woh Leow  
*Evaluation of Effective Microorganisms on Small Scale Food Waste Composting*

S. Vakalis, M. Boschiero, K. Moustakas, A. Sotiropoulos, D. Malamis, S. Zerbe, M. Baratieri  
*Statistical entropy analysis of heavy metals from combustion of agricultural waste in a commercial boiler*

C. Panayiotou, D. Stivaridis  
*Restoration and monitoring of Agia Marinouda landfill*

8.00 - 9.15

Registration

**Keynote Speakers**

**Chair: C. Costa, R. Luque**

Siegfried Vlaeminck, University of Antwerp

"Resource-efficient nutrient management in waste streams"

Francesco Fatone, University of Verona

"Resource recovery from waste streams: from LIFE LIVEWASTE to H2020 SMART-Plant"

Stephen Smith, Imperial College

"No Compromise on Quality is Critical to Solid Recovered Fuel Production in Cyprus"

9.00 - 10.45

Francisco Omil, Universidad de Santiago de Compostela

"Bioreactors for a sustainable management of gaseous emissions in waste and wastewater treatment plants"

Rafael Luque, Universidad de Córdoba

"Waste to wealth: benign by design strategies for the valorisation of industrial waste"

CP. M. Nigay, R. Sani, D. Pham Minh, A. Nzihou, W. Soboyejo, C. White, Ecole des Mines d'Albi

"Composites and hybrid materials from gasification biochar and clay"

Nick Voulvoulis, Imperial College London

"From waste management to resource recovery: the waste management sector in the circular economy"

10.45 - 11.00



Coffee Break

**ROOM 1**

**Anaerobic Digestion**

**SESSION IX**

**Chair: M. Majone, B. Ruffino**

11.00 - 11.15

D. Hidalgo, J.M. Martín-Marroquín, F. Corona

Co-digestion of meat-processing by-products, manure and residual glycerin

11.15 - 11.30

I. A. Fotidis, H Wan, I. Angelidaki

Bioaugmentation of ammonia tolerant enriched methanogenic cultures: A microbiological process to efficiently digest ammonia-rich biomasses

11.30 - 11.45

R. Teixeira Franco, R. Bayard, P. Buffière

Optimizing agricultural wastes storage before anaerobic digestion: impact of ensiling on methane potential of lignocellulosic biomass

11.45 - 12.00	P. Charalambous, I. Vyrides Anaerobic co-digestion of Fats, Oils and Grease (FOG) with Sewage Sludge: Effect of pre-treatment methods on FOG for enhanced biogas production
12.00 - 12.15	N. Frison, F. Fatone, D. Bolzonella Nutrients recovery from anaerobic digestate of agro-waste: techno-economic assessment of full scale applications
12.15 - 12.30	J.J. Chávez-Fuentes, F. M. Ruiz Merino, M. Czölderová, M. Hutňan, Anaerobic co-digestion of poultry litter and raw glycerol as a sustainable tool for the waste management of a Slovak poultry farm and to reduce its energy consumption
12.30 - 12.45	B. Ruffino, M.C. Zanetti, G. Campo, A. Cerutti, G. Scibilia, E. Lorenzi, G. Genon Enhancement of Waste Activated Sludge (WAS) anaerobic digestion by means of pre-treatments and intermediate treatments
12.45 - 13.00	M. Schroyen, S.W.H. Van Hulle, H. Vervaeren, K. Raes Impact of enzymatic pretreatment on biogas production and inhibiting phenolic compounds
13.00 - 13.15	J.J. Montoya, F. Alatraste-Mondragón, D.K. Villa-Gómez Evaluation of pretreatment methods for the anaerobic digestion of bean straw
13.15 - 13.30	T. M. Cabrita, M. T. Santos Biochemical methanogenic potential applied to solid wastes - review
13.30 - 13.45	S. Hoasagul, N. Pisutpaisal Biogas Production from Banana Peel and Glycerol by Co-Digestion Process
13.45 - 14.00	I. Michalopoulos, D. Chatzikonstantinou, D. Mathioudakis, I. Vaiopoulos, A. Tremouli, M. Georgiopoulou, K. Papadopoulou, G. Lyberatos Evaluating livestock manure for biogas and electricity production
14.00 - 14.15	C. Nathao, N. Pisutpaisal Biological Hydrogen and Methane Production from Organic Waste in Two Stage Process

**ROOM 2****SESSION X****Waste management tools and methods****Chair: K. Aravossis, A. Clausen**

11.00 - 11.15	G. Bartzas, D. Zaharaki, K. Komnitsas Life cycle analysis of pistachio production in Greece
11.15 - 11.30	A. Clausen, T. Pretz, Linking unit processes to generic process chains for comparative carbon footprint modelling of residual MSW treatment systems
11.30 - 11.45	M. Georgiopoulou, G. Lyberatos Life Cycle Assessment of the use of alternative fuels in Cement Kilns. a case study
11.45 - 12.00	S. Hemidat, A. Nassour, M. Nelles Minimizing Operational Cost for Solid Waste Collection through Route Optimization
12.00 - 12.15	L. Lombardi, E. Carnevale, B. Mendecka Evaluation of municipal solid waste energy recovery scenarios by LCA
12.15 - 12.30	D. San Martin, M. Orive, E. Martínez, B. Iñarra, N. Gonzalez, A. Guinea de Salas, A. Vázquez, J. Zufía GIS & Multi-criteria based help-decision tool for food waste valorisation in the Basque Country (Spain)
12.30 - 12.45	K. Abeliotis, K. Lasaridi, C. Chroni A review on LCAs of shopping bags alternatives for waste prevention
12.45 - 13.00	S. Vakalis, U. Senechal, R. Schneider, B. Solomo, M. Kurz, K. Moustakas, A. Sotiropoulos, D. Malamis, M. Baratieri, T. Zschunke Thermodynamic modelling of potassium in the after-burner of a biomass gasifier
13.00 - 13.15	R.D. Drudi, K.C.R. Drudi Predicting the heating value of Municipal Solid Waste: a computational approach
13.15 - 13.30	M. Elhag, J. A. Bahrawi Spatial Assessment of Landfill Sites Based on Remote Sensing and GIS Techniques in Tagardes, Greece
13.30 - 13.45	X. I. Loizidou, M. I. Loizides Decision-Support in Waste Management: The DeCyDe-4-Sustainability Case



- 13.45 - 14.00 J. Hřebíček, J. Kalina, J. Soukopová  
Forecasting Waste Generation Model based on DPSIR Framework
- 14.00 - 14.15 A. Anthouli, N. Mavropoulou, Y. Benhaddou, M.J. Sora  
The use of Social Platforms as a part of a strategy for improving collection and recycling rates in local communities
- 14.15 - 14.30 E. A. Nanaki, C. J. Koroneos  
Comparative Analysis of Municipal Solid Waste Treatment Technologies – the case study of Western Macedonia

**ROOM 3**

**SESSION XI**

**Innovative processes & recovery**

**Chair: F. Omil, P. Champagne**

- 11.00 - 11.15 E. Iacovidou, P. Purnell  
Smart technologies: Enablers of construction components reuse?
- 11.15 - 11.30 K.I. Dermentzis, D.I. Marmanis, A.K. Christoforidis, N.C. Kokkinos, D.K. Stergiopoulos  
Recovery of metallic nickel from waste sludge produced by electrocoagulation of nickel bearing electroplating effluents
- 11.30 - 11.45 Ö. Kaplan, K. Korucu, M. K. Gullu, O. Buyuk  
Using of SVM Sound Recognition Technique in Source Separation of Packaging Wastes: A New Approach for Reverse Vending Machines
- 11.45 - 12.00 H. Giani, R. Fidalgo Estevez, S. Kaufeld, M. Althaus, T. Pretz  
Technical-economic evaluation of an advanced MBT process to enrich biomass as renewable fuel
- 12.00 - 12.15 E. Coskun, A. Feil, T. Pretz, L. Bruggmoser, M. Reiser, M. Kraner  
Energy efficiency in mechanical biological treatment plants
- 12.15 - 12.30 S. Papagrigoriou, S. Stasinou, D. Damigos, E.N. Makrykosta, Z. Gaitanarou, V. Andrea  
LIFE Reclaim: A Landfill Mining case study in Greece
- 12.30 - 12.45 G. Denafas, A. Bučinskis, J. Burlakovs, E. Dace, K. Bazienė, M. Horttanainen, J. Havukainen, T. Kaartinen, R.M. Rosendal, M. Kriipsalu, Y. Jani, W. Hogland  
Investigation for landfill mining feasibilities in the Nordic and Baltic countries: overview of project results
- 12.45 - 13.00 F.R. Beltrán, V. Lorenzo, J. Acosta, M.U. de la Orden, J. Martínez-Urreaga  
Effect of simulated mechanical recycling processes on the properties of poly (lactic acid)

13.00 - 13.15	J. Kisser, T. Rosenkranz, M. Puschenreiter, H. Gattringer, A. Zraunig, Veronika Reinberg, M. Iordandopoulos-Kisser Biomining - an innovative strategy to recover metals from secondary resources
13.15 - 13.30	C. Gan, P. Champagne, G. Hall Evaluation of passive treatment technologies for the treatment of septic tank septage under temperate climate conditions
13.30 - 13.45	A. Arenas, F.R. Beltrán, V. Alcázar, M.U. de la Orden, J. Martínez-Urreaga Fluorescence labeling of polymers for automatic identification in mixed plastic waste streams. Thermal and photochemical stability.
13.45 - 14.00	S. Leroi, A. Kahn, Wet Separation techniques (Soil Washing) From Niche Recovery to Common Application for Solid Waste Recovery
14.00 - 14.15	Discussion - Conclusions

**ROOM 4**

**SESSION XII**

**Master-Class on Environment-related Competitive EU Programmes:**

**How to win funds through "HORIZON 2020" & "LIFE"**

**Chair: C. Mena Abela, G. Protopapas**

11.00 - 13.30	P. Papazoglou, P. Ignatiadis H2020: General Introduction and Structure, Funding Mechanisms, Proposal Preparation and Support M. Papastavrou LIFE: General Introduction and Structure, Funding Mechanisms, Proposal Preparation and Support Discussion - Conclusions
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**ROOM 1**

**SESSION XIII**

**Biofuels & Biobased Products/The WASTE2BIO project**

**Chair: M. Loizidou, D. Kekos, C. Ariel Cardona Álzate**

15.00 - 15.15	A. Sotiropoulos, D. Alamanou, D. Malamis, D. Kekos, M. Loizidou The WASTE2BIO project
15.15 - 15.30	M. Noorul Hussain, I. Janajreh Numerical Modelling of Sonicated, Continuous Transesterification and Evaluation of Reaction Kinetics for Optimizing Biodiesel Reactor Design

15.30 - 15.45	L. Lombardi, E. Carnevale, B. Mendecka Energy recovery from used cooking oil
15.45 - 16.00	A.G. Capodaglio, A. Callegari, M.V. Lopez, D. Dondi Feedstock properties' influence on the production of biodiesel from waste urban sludge
16.00 - 16.15	M. Puri Utilising waste biomass for establishing an algal biorefinery for producing biofuels and bioactives
16.15 - 16.30	Caoxing Huang, Juan He, Qiang Yong, Hasan Jameel, Hou-min Chang Coproducton of ethanol and lignosulfonate from Moso bamboo residues
16.30 - 16.45	M. M. Elsamadony, A. M. Mostafa Enhancement effect of nonionic surfactant and enzymatic pretreatment on bio-H <sub>2</sub> potential from kitchen waste residues
16.45 - 17.00	V. Aristizabal M., Á. Gómez Peña, C. Ariel Cardona Álzate Potential of sugar cane bagasse for octane production through catalytic transformation technologies
17.00 - 17.15	M. Ramos, A. P. Soares Dias, M. T. Santos, S. Santos, J. F. Puna, J. F. Gomes, J. C. Bordado Calcium rich food wastes based catalysts for biodiesel production
17.15 - 17.30	Yu-Loong Loow, Ta Yeong Wu, Jamaliah Md. Jahim, Abdul Wahab Mohammad Transformation of oil palm fronds into pentose sugars using copper (II) sulfate pentahydrate with the assistance of chemical additive
17.30 - 17.45	C. Sun, R. Liu, G. Qin, K. Li Optimization of Sodium Hydroxide Pretreatment Conditions to Improve Biogas Production from Asparagus Stover
17.45 - 18.00	M. Patsalou, M. Vasquez, C. Drouza, M. Koutinas Bioprocess development for the production of succinic acid from orange peel waste
18.00 - 18.15	A. Djukić-Vuković, D. Mladenović, J. Pejin, L. Mojović Strategies for valorisation of wastes from bioethanol production– lactic acid and probiotics as added value products
18.15 - 18.30	N.D. Charisiou, D.G. Avraam, M.A. Goula A hydrogen future? An economic assessment of glycerol utilization derived from the biodiesel process for hydrogen production.

- 18.30 - 18.45 A. Vlysidis, D. Ladakis, A. Sakellariou, M. Alexandri, I. Kookos, A. Koutinas  
Sustainability assessment for the production of bio-based products using by-product streams derived from the pulp and paper industry
- 18.45 - 19.00 Q. Jia, H. Xiong, H. Wang  
Production Of Polyhydroxyalkanoates From Sludge Fermentation Liquid At Laboratory And Pilot Scales

**ROOM 2**

**Waste Valorization II**

**SESSION XIV**

**Chair: A. Zouboulis, M.V.A. Florea**

- 15.00 - 15.15 Q. Alam, K. Schollbach, M. V. A Florea, H. J. H Brouwers  
Investigating washing treatment to minimize leaching of chlorides and heavy metals from MSWI bottom ash
- 15.15 - 15.30 M. Rolewicz, P. Rusek, K. Borowik, M. Dawidowicz, S. Schab  
Obtaining granular fertilizers based on ashes from combustion of waste residues and ground bones using phosphorous solubilization with bacteria *Bacillus megaterium*
- 15.30 - 15.45 S.C. Lana, G.J.B.Silva, R.A.F. Peixoto  
Pozzolanic activity evaluation of slate waste
- 15.45 - 16.00 D.V. Lopes, R.C. Martins, R.M. Quinta-Ferreira, J.R.Frade, M.J. Quina  
Zero-valent iron from iron wastes for environmental applications
- 16.00 - 16.15 S. D. Mavridou, E. N. Kaisidou  
Examination of bituminous mixtures made of conventional aggregates and recycled materials
- 16.15 - 16.30 V. Caprai, K. Schollbach, M.V.A. Florea, H.J.H. Brouwers  
Investigation of Bottom Ash Mechanical Performance Based on the Amount of Reactive Compounds
- 16.30 - 16.45 A. Malamakis, S. Kontogianni, G. Perkoulidis, N.Moussiopoulos, J. Velasco, A. Perez  
Environmental protection through utilization of recycled glass as fluxing agent in the structural ceramics industry
- 16.45 - 17.00 E. Georgakopoulos, R. M. Santos, Y.W. Chiang, V. Manovic  
Value-added upgrading of blast furnace slag into varied mineral products
- 17.00 - 17.15 T. Luukkonen, E.T. Tolonen, H. Runtti, K. Kemppainen, U. Lassi  
Development of efficient adsorbents by alkali-treatment of high-calcium-content fly ash from paper industry

17.15 - 17.30 Y. Fu, M.M. Su  
A new water treatment agent prepared from a "waste acid filter cake"

17.30 - 17.45 Sue-Huai Gau, Chang-Jung Sun, Ming-Guo Li  
Restrain the Evaporation of Heavy Metals during Sintering of MSWI Fly Ash by Milling with Proper Additives

17.45 - 18.00 K. Schollbach, Q. Alam, H.J.H Brouwers  
Mineralogical Analysis of MSWI Bottom Ash

**ROOM 3**

**Experiences & Case Studies**

**SESSION XV**

**Chair: K. Lasaridi, C. Dias-Ferreira, P. Gikas**

15.00 - 15.15 Ch. Eleftheriadis  
Integrated installations for the management of municipal solid waste regions of Larnaca-Famagusta

15.15 - 15.30 V. Manasaki, I. Palogos, K. Tsfantakis, P. Gikas  
Techno-economic evaluation for energy production from the landfill in Heraklion, Greece

15.30 - 15.45 A. Severin, C. Panayiotou  
New integrated installations for the management of Municipal Solid Waste at Pentakomo Community Council, Region of Limassol, Cyprus

15.45 - 16.00 F. Tsagas, K. Liolios, A. Paschalidis  
Specific waste generation rate of recyclable materials in households: Time-series of eighteen (18) months for three (3) households in Greece

16.00 - 16.15 M. Struk, J. Hřebíček, Z. Horsák  
Experiences of Czech municipalities with introducing biowaste collection

16.15 - 16.30 V. Oliveira, J. M. Vaz, C Dias-Ferreira,  
The challenge of increasing source segregated waste collection in the Central region of Portugal

16.30 - 16.45 I. Teibe, R. Bendere, D. Arina,  
How to achieve the goal set for reduction of bio-waste disposal at landfills by 2020: the Baltic States' experience

16.45 - 17.00 J. Miliute-Plepiene, A. Plepys  
Drivers and barriers for household waste recycling behavior in the Baltic region. Lessons from Lithuania

17.00 - 17.15	P. Bansith, K. Krell Phitsanulok Energy Park – introducing MBT with AD and RDF production in Thailand
17.15 - 17.30	J.F. Seixas, V. Sousa, M.L. Silva, F. Lobo, S.I.R.S Santos Asset management in the urban waste sector in Portugal: The role and contribution of the regulator
17.30 - 17.45	V. Panaretou, E. Ploumistou, E. Katsou, D. Tsoukleris, D. Hidalgo, K. Moustakas, D. Malamis, M. Loizidou Development of innovative, integrated waste recycling schemes for remote areas
17.45 - 18.00	M. Soto Chalhoub Technology and Public Policy Options for Solid Waste Management: Application to Recent Cases in the East Mediterranean
18.00 - 18.15	S. Tampakis, V. Andrea, P. Karanikola, Z. Karali Assessment of municipal waste management policies by the citizens of Orestiada, Greece
18.15 - 18.30	A.S. Ussenova, K. Orazgeldievna Nurgalieva Creation of the waste-processing cluster in Almaty Region as main factor of improving ecological situation in Almaty Region
18.30 - 18.45	S. W. Mburu The impacts of solid wastes on health of Kibera slum residents.



Saturday, 25 June  
2016

**ROOM 1**

**Thermal Treatment & Energy Recovery**

**SESSION XVI**

**Chair: E. Voutsas, Z. Naunovic**

- 9.00 - 9.15 N. Reyna Bensusan, D. C. Wilson, S. R. Smith  
Open burning of municipal solid waste in developing countries: the case of Huejutla, Mexico
- 9.15 - 9.30 F. Riedel  
Waste to Energy with Zero Residues
- 9.30 - 9.45 B. Bevan Nyakuma  
Effect of Hydropretreatment and Mechanical Fractionation on the Solid Biomass Fuel Properties of Rice Husks under Pyrolysis conditions
- 9.45 - 10.00 E. Voutsas  
Treatment and energy utilization of municipal and industrial solid wastes with the plasma gasification technology
- 10.00 - 10.15 C. A. Tsiliyannis, I. L. Fotinopoulou, M. Georgiopoulou, G. Lyberatos  
Use of secondary fuels in cement manufacturing: a case study
- 10.15 - 10.30 M. Prasad, N. Tzortzakis  
Biochar, chemical characterization, nutrient dynamics and preliminary plant growth tests
- 10.30 - 10.45 K. Haddad, C. Guizani, M. Jeguirim, S. Jellali, L. Limousy, R. Gadiou  
Effect of potassium and sodium on the Cypress sawdust pyrolysis through thermogravimetric analysis
- 10.45 - 11.00 A. Nikolic, M. Mikic, Z. Naunovic  
The first municipal solid waste incinerator project in Southeast Europe
- 11.00 - 11.15 ☕ Coffee Break
- 11.15 - 11.30 B.D. Škrbić, N. Đurišić-Mladenović, J. Cvejanov  
Chemometric assessment of syngas produced by thermochemical conversion of various wastes
- 11.30 - 11.45 C. Ruscescu Iordan  
Alternative fuels from waste – Special recipe for cement kilns: Case study
- 11.45 - 12.00 M. Jeguirim, A. Zorpas, N. Kraiem, M. Lajili, Y. Leva, L. Limousy  
Chemometric analysis for the relationship between mineral contents and particle matter distribution during pellets combustion

12.00 - 12.15	S. Rao Chennamaneni, S. Ayyadurai, V. Kumar Kandasamy, Y.-C. Seo Tar-free Gasification Technology of Municipal Solid Waste-RDF
12.15 - 12.30	L. Gaggero, V. Caratto, C. Belfortini, L. Musi, M. Ferretti LIFE12 ENV IT 000295 FIBERS "Fibers innovative burning and reuse by Self-propagating High temperature Synthesis (SHS)
12.30 - 12.45	J. Haydary Modelling of Gasification of Refuse-derived fuel (RDF) based on laboratory experiments
12.45 - 13.00	S. Vakalis, A. Sotiropoulos, K. Moustakas, D. Malamis, F. Patuzzi, M. Baratieri Measurement and analysis of tar compounds from thermal valorization of food waste
13.00 - 13.15	A. Smoliński, N. Howaniec Chemometric modelling of experimental data on co-gasification of bituminous coal and biomass to hydrogen-rich gas

**ROOM 2**

**Waste Valorization III**

**SESSION XVII Chair: E. Diamadopoulos, A. Vlyssides, A.M. Goula**

9.00 - 9.15	A. Zerva, L.-M. Papaspyridi, G. Mousavi, P. Christakopoulos, E. Topakas Isolation of $\beta$ -glucans from selected Basidiomycetes strains grown in olive oil mill wastewater
9.15 - 9.30	M. Ververi, K. Kaderides, A. M. Goula Pomegranate peel and orange juice by-product as new biosorbents of phenolic compounds from olive mill wastewaters
9.30 - 9.45	M. Dicko, F. Lamari, G. Lepesant, P. Silar, C. Bilodeau, M. Cohen Biomolecules from olive pruning waste in Sierra Mágina
9.45 - 10.00	D.V. Lopes, I.A. Pinho, S.S. Santos, R.C. Martins, M.J. Quina Germination index as a tool to assess phytotoxicity of olive mill solid wastes
10.00 - 10.15	L. Papaoikonomou, K. Kaderides, A. M. Goula, K. Adamopoulos Optimization of polyphenols extraction from pomegranate peels – drying, enzymatic pretreatment, extraction method, operating conditions
10.15 - 10.30	S. Chanioti, P. Siamandoura, C. Tzia Application of natural deep eutectic solvents for extraction of polyphenolics from olive oil by-products using microwaves

10.30 - 10.45	K. Kaderides, G. Karanatsidis, A. M. Goula, K. G. Adamopoulos Combination of two food wastes - pomegranate peel and orange juice by-product - into one multipurpose functional food
10.45 - 11.00	E. I. Sotiropoulou, M. Liouni, E. T. Nerantzis, G. Boskou, M. Christea Utilization of grape seed oil and grape seed flour in food industry
11.00 - 11.15	 Coffee Break
11.15 - 11.30	I.I. Manolikaki, A. Mangolis, E. Diamadopoulos Phosphorus release from biochars prepared from rice husks, grape pomace and olive tree prunings
11.30 - 11.45	I. Drevelegka, K. Kaderides, A. M. Goula, A comparative study on different extraction techniques to recover polyphenols from winery waste
11.45 - 12.00	K. Chojnacka, M. Samoraj, I. Michalak Valorization of biomass into micronutrient fertilizers
12.00 - 12.15	M. Neznakomova, L. Tzankov, S. Boteva, M. Elhag Investigation the possibility of using non-woven materials from recycled fibers for open oil spills clean up
12.15 - 12.30	V. Antoniadis, T. Polyzois, S. Petropoulos, E.E. Golia, A. Dimirkou The effect of manure, zeolite and soil aging in the dynamics of hexavalent chromium in <i>Cichorium spinosum</i>
12.30 - 12.45	A.Cifarelli, I. Cigognini, L. Bolzoni, A. Montanari Cutin isolated from tomato processing by-products: extraction methods and characterization
12.45 - 13.00	A. Moschona, M. Liakopoulou - Kyriakides Comparative study of valorization of pomegranate and wine wastes-Added value products and biological activities
13.00 - 13.15	Ge Hao Yang, Ta Yeong Wu, Yu-Loong Loow Application of deep eutectic solvents in biomass valorization
13.15- 13.30	E.E. Golia, G. Fuleky, A. Dimirkou, G. Gizas Influence of zeolite and <i>Posidonia oceanica</i> (L.) in reduction of Cadmium uptake by tobacco ( <i>Nicotiana tabacum</i> ) plants of Central Greece

**ROOM 3**

**Agricultural Waste / The Agrostrat Project**

**SESSION XVIII Chair: K. Komnitsas, M. Doula, N. Tzortzakis**

9.00 - 9.15	I. Noya, S. Feijoo, L. Lijo, S. González-García, G. Feijoo, M.T. Moreira Comparative assessment of different cow manure valorisation technologies from an environmental perspective
9.15 - 9.30	P. Dalias, D. Sparaggis Mineralization of nitrogen after incorporation in soil of the main types of animal manure produced in Cyprus
9.30 - 9.45	J.J. Chávez-Fuentes, M. Hutňan Manure from our agricultural animals: A quantitative and qualitative analysis focused on biogas production
9.45 - 10.00	M. T. Santos, J. F. Puna, A. M. Barreiros Agricultural wastes for wastewater treatment
10.00 - 10.15	D.P. Zagklis, C.A. Paraskeva Isolation of organic compounds with high added values from agro-industrial solid wastes
10.15 - 10.30	C. Andrés García, Á. Gómez Peña, R. Betancourth, C. Ariel Cardona Álzate Environmental comparison of thermochemical and biochemical ways for producing energy from agricultural solid residues: The cut coffee stems case
10.30 - 10.45	L. Lijó, S. González-García, G. Feijoo, M.T. Moreira Environmental impacts of different options for management of livestock waste in Cyprus
10.45 - 11.00	L. Mojović, A. Djukić-Vuković, D. Mladenović, J. Pejin Lactic acid fermentation of a combined agro-food waste substrate
11.00 - 11.15	 Coffee Break
11.15 - 11.30	LIFE Ecocitric project consortium Obtaining biomass, essential oils and animal feed from citric pruning waste
11.30 - 11.45	M.K. Doula, N.S. Papadopoulos, A. Hliaoutakis, A. Kydonakis, L. Argyriou, A. Sarris Monitoring agricultural waste disposal by local and regional authorities
11.45 - 12.00	H.M. Omar, S.M. El Hagggar Proposed Sustainable Rural Community Framework

12.00 - 12.15	M. Ranic, A. Konic-Ristic, M. Glibetic, S. Dimitrijevic Brankovic Effects of black spent coffee extracts on blood platelet function
12.15 - 12.30	Ali O. Adigüzel, M. Tunçer Production of endoxylanase from novel Actinomadura geliboluensis by using agricultural wastes
12.30 - 12.45	M. K. Doula LIFE-Agrostrat-What new brings to Mediterranean Agricultural Environment
12.45 - 13.00	K. Komnitsas The environmental footprint of pistachio production in Aegina island, Greece
13.00 - 13.15	N. Papadopoulos, A. Hliaoutakis Web GIS-based application for agricultural areas management – the case of pistachio cultivation
13.15 - 13.30	S. Theocharopoulos Development and implementation of GIS Land Information Systems for waste reuse on soil

**ROOM 1**

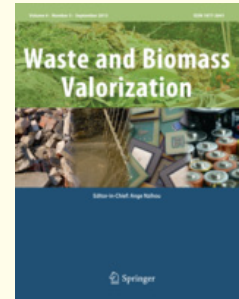
**CLOSING  
SESSION**

**Chair: M. Loizidou, C. Costa, M. Majone, S. Smith, R. Luque, N. Voulvoulis,  
A. Zouboulis, F. Omil, F. Fatone, E. Diamadopoulos, K. Lasaridi, C. Ariel  
Cardona Álzate, K. Aravossis**

13.30 - 13.45	Synopsis of the CYPRUS 2016 conclusions with the active participation of all Chair Persons
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# Publishing

The best papers of the CYPRUS 2016 Conference will be published after review in a Special Issue of Waste & Biomass Valorization (Guest Editor: M. Loizidou) and a Special Issue of Journal of Environmental Management (Guest Editors: P. Gikas, S. Malamis, K. Moustakas, E. Ranieri).

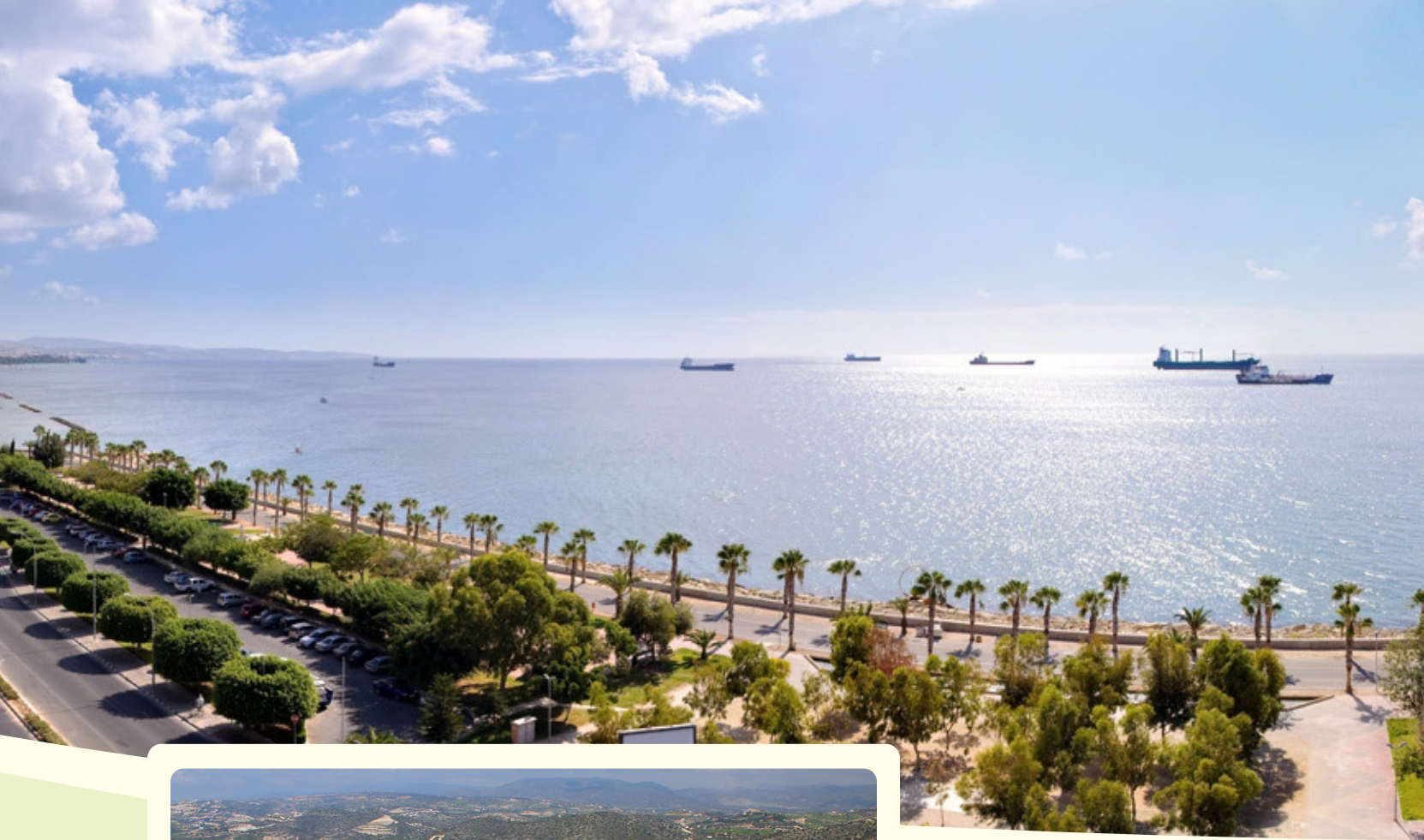


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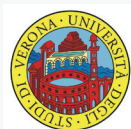
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