



9th INTERNATIONAL CONFERENCE ON
ENVIRONMENTAL ENGINEERING AND MANAGEMENT
Circular Economy and Environmental Sustainability
6 - 9 September 2017, Bologna, Italy

CONFERENCE PROGRAM



September 6 – 9, 2017
Bologna, ITALY



9th INTERNATIONAL CONFERENCE ON
ENVIRONMENTAL ENGINEERING AND MANAGEMENT
Circular Economy and Environmental Sustainability
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ORGANIZERS

**“Gheorghe Asachi” Technical University of Iași,
Romania**

*Department of Environmental Engineering
and Management*



In collaboration with

**Alma Mater Studiorum – University of Bologna,
Bologna, Italy**



**European Federation of Biotechnology
Environmental Biotechnology Section**



ICEEM09 is an event under the aegis of:

The Romanian Academy



PARTNERS

**Academic Organization for Environmental Engineering
and Sustainable Development (OAIMDD), Iași, Romania**

*InterMEDIU – Information, Consultancy and DL
Department, TUIASI, Romania*

DEDALTUR Iași





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Conference Chairpersons

Prof.dr., dr.h.c. Carmen Teodosiu

Gheorghe Asachi Technical University of Iasi, Romania

Prof.dr., dr.h.c. Fabio Fava

Alma Mater Studiorum – Università di Bologna, Bologna, Italy

Prof. dr., dr.h.c. Philippe Corvini

FHNW & European Federation of Biotechnology (EFB)

– Environmental Biotechnology section

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GENERAL INFORMATION

The *International Conference on Environmental Engineering and Management (ICEEM)* was initiated and organized every 2 years, since 2002, by the **Department of Environmental Engineering and Management**, Faculty of Chemical Engineering and Environmental Protection from the “*Gheorghe Asachi*” Technical University of Iasi (TUIASI), Romania. The declared objectives of all ICEEM conference editions were to bring together international researchers, academics, professionals and students, activating in the fields of environmental engineering and management and to support knowledge exchange and dissemination of specific research and educational programmes.

“*Gheorghe Asachi*” **Technical University of Iasi (TUIASI)** is a prestigious Romanian university, classified as a *university for advanced research and education*, according to the Ministry of Education and Research Order (MECTS nr. 5262/2011) being also a relevant component of the research and development system of national interest according to ANCS Decision No. 9708/29.07.2009. TUIASI develops programs for undergraduate, master, doctoral, postdoctoral studies and scientific research in 14 research areas, out of which 10 areas were classified in the category A, according to Law 1/2011 and HG 789/2011. The doctoral activity is organized within 10 doctoral schools including 13 doctoral fields developed according to national and international research priority areas.

The 9th **International Conference on Environmental Engineering and Management, ICEEM09** which will be take place between 6th and 9th of September 2017, in Bologna, Italy. This event is organized by the Department of Environmental Engineering and Management of “*Gheorghe Asachi*” Technical University of Iasi, in collaboration with **Alma Mater Studiorum Università di Bologna, Italy** and the **Environmental Biotechnology Section of the European Federation of Biotechnology (EFB)**.

Founded in 1088, the **Alma Mater Studiorum – Università di Bologna** is known as the oldest University of the western world. Nowadays, it still remains one of the most important institutions of higher education across Europe and the second largest university in Italy with 11 Schools, 33 Departments and more than 84,000 students. *Alma Mater Studiorum Università di Bologna* is a multicampus university based in Bologna, Cesena, Forlì, Ravenna, and Rimini. According to National indicators, the University of Bologna is the most internationalised among the Italian Universities and among the first institutions in Europe for the number of bilateral agreements and EU funded educational projects.

Address and Conference Venues

ICEEM 09 will be organised at the **Alma Mater Studiorum University of Bologna, Italy**.

The opening ceremony and welcome cocktail on September 6th will take place in the Complesso Belmeloro - Room A, via Belmeloro 14, Bologna.

The conference sessions from 7th to 9th September will take place in the Complesso Terracini, Rooms TA-01, TA-02 and TA03, School of Engineering and Architecture, via Terracini 28, Bologna.

Registration and Conference Desk

The ICEEM09 registration will take place **Wednesday, 6 September from 13:30 to 15:00** in the **Complesso Belmeloro** and **Thursday, 7 September** in **Complesso Terracini**. All participants are invited to register and collect the conference materials at the conference desk.

Oral Presentations

The oral presentations program is structured in parallel sessions, which are held according to this conference program. Time allocation for plenary/keynote lectures is 30 minutes (including discussions) and for oral communications is 15 minutes (including discussions).



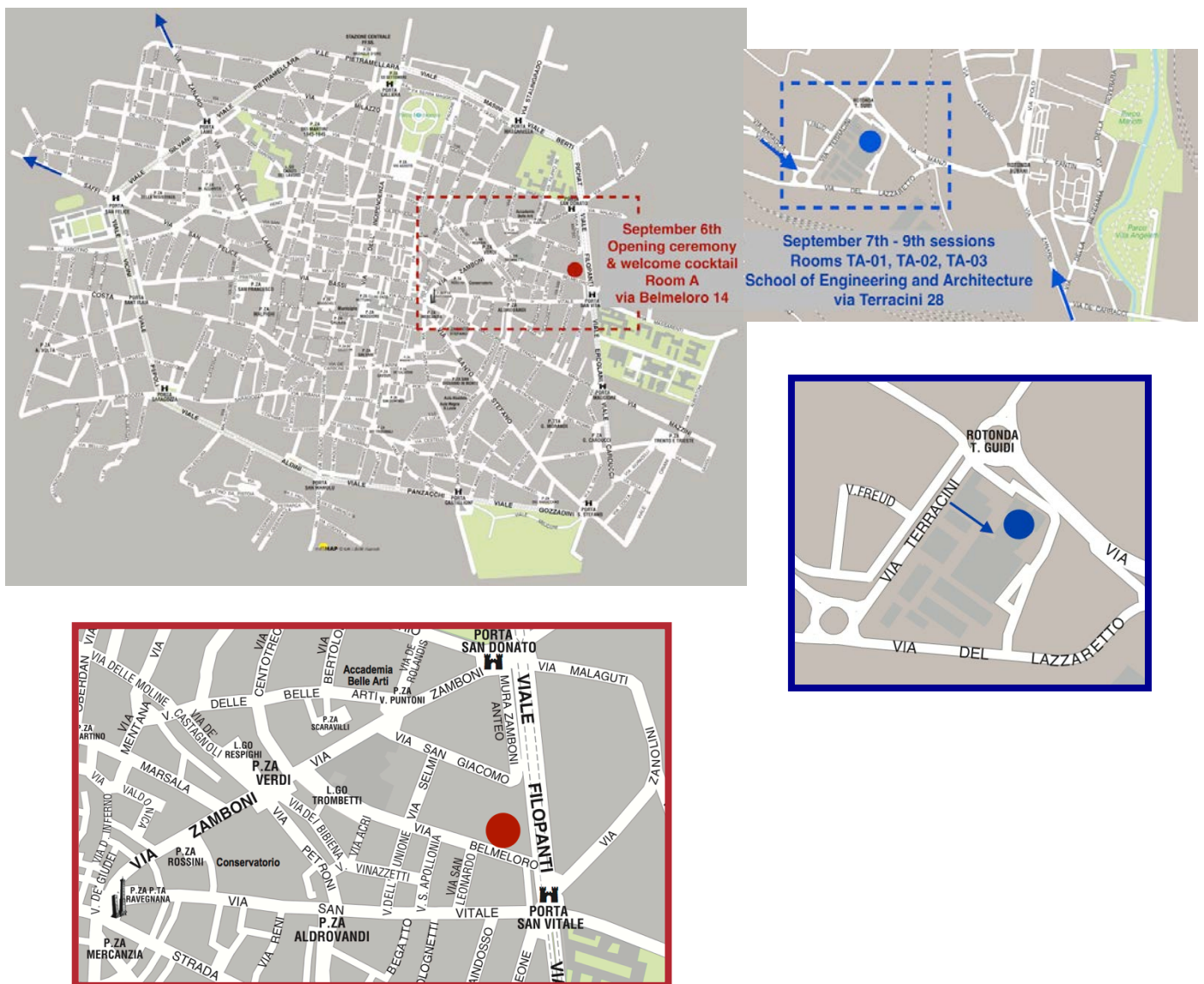
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LDC projectors and a PC (Windows, MS Office, Adobe Acrobat) will be available in the session rooms. Authors are invited to upload their presentations on the PCs of each room well in advance of the beginning of the scheduled session, in order to avoid last minute problems. Uploading will exclusively be done via USB-drives. **Overhead projectors will not be available.**

Authors are also invited to reach the session room 10 minutes before the beginning and to introduce themselves to the sessions Chairpersons.



Posters

Posters may be displayed at ICEEM09 for the duration of each poster session, as presented in this conference programme, on the panels mounted in Complesso Terracini, Rooms TA-01, TA-02 and TA-03, School of Engineering and Architecture, via Terracini 28, Bologna.



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Poster panels will be identified with the same number assigned to the poster in the Conference Program. Materials for posters display will be available at the conference desk. Posters will be mounted on and removed from the supporting panels by the authors. Mounting on will be possible with the start of the respective poster session and authors are required to dismount their posters when the session ends. **Please note that the Poster sessions coincide with lunches and coffee breaks. Posters should be removed each day, no later than 17:00 h.**

Coffee Breaks, Lunches

Coffee Breaks and Lunches are included in the conference fee. Coffee Breaks and Lunches will take place in Complesso Terracini, beside the session Rooms, School of Engineering and Architecture, via Terracini 28, Bologna.

Conference events:

Welcome Cocktail – Wednesday 6 September 2017,
17:00

Complesso Belmeloro - Room A, via Belmeloro 14,
Bologna

Gala Dinner – Thursday, 7 September 2017, 20:00

Palazzo Isolani, Corte Isolani 5, entrance from
Santo Stefano square
<http://www.isolani.it/palazzo-isolani/>

Invitations are necessary to attend the Cocktail and the Gala Conference Dinner for conference delegates as well as for the accompanying persons. Invitations will be handed to the delegates together with the ICEEM09 materials at the conference desk. Further details will be available at the conference desk.



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CONFERENCE PROGRAM

Wednesday, 6 September 2017

Time	VENUE: Alma Mater Studiorum – Università di Bologna (UNIBO) Complesso Belmeloro, via Belmeloro 14, Bologna – ROOM A
13:30-15:00	Registration
15:00-15:30	Opening Ceremony
15:30-16:00	Plenary conference 1
16:00-16:30	Plenary conference 2
16:30-17:00	Plenary conference 3
17:00-19:00	Welcome Cocktail

Thursday, 7 September 2017

Time	VENUE: Alma Mater Studiorum – Università di Bologna (UNIBO) Complesso Terracini, School of Engineering and Architecture, via Terracini 28, Bologna		
08:00-09:00	Registration, Room TA-05		
	Complesso Terracini, Room TA-01	Complesso Terracini, Room TA-02	Complesso Terracini, Room TA-03
09:00-10:30	Parallel Session 1.1 Environmental biotechnology in the circular economy <i>(with Key note lecture)</i>	Parallel Session 1.2 Monitoring and modelling of environmental pollution	Parallel Session 1.3 Sustainability assessments and eco-innovation
10:30-11:00	Coffee Break and Poster Sessions		
11:00-12:30	Parallel Session 1.4 Sustainable waste management and exploitation for chemicals, materials and energy recovery	Parallel Session 1.5 Water and wastewater cycles: technologies, recycling and valorization <i>(with Key note lecture)</i>	Parallel Session 1.6 Sustainable waste management and exploitation for chemicals, materials and energy recovery
12:30-14:00	Lunch and Poster Sessions / EFB – EB Meeting		



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Time	VENUE: Alma Mater Studiorum – Università di Bologna (UNIBO) Complesso Terracini, School of Engineering and Architecture, via Terracini 28, Bologna		
	Complesso Terracini, Room TA-01	Complesso Terracini, Room TA-02	Complesso Terracini, Room TA-03
14:00-15:30	Parallel Session 1.7 Water and wastewater cycles: technologies, recycling and valorization	Parallel Session 1.8 Sustainability assessments and eco-innovation	Parallel Session 1.9 Sustainable waste management and exploitation for chemicals, materials and energy recovery (with Key note lecture)
15:30-16:00	Coffee Break and Poster Sessions		
16:00-17:30	Parallel Session 1.10 Monitoring and modelling of environmental pollution	Parallel Session 1.11 Water and wastewater cycles: technologies, recycling and valorization	Parallel Session 1.12 Sustainable waste management and exploitation for chemicals, materials and energy recovery
20:00	Gala Dinner Palazzo Isolani		

Friday, 8 September 2017

Time	VENUE: Alma Mater Studiorum – Università di Bologna (UNIBO) Complesso Terracini, School of Engineering and Architecture, via Terracini 28, Bologna		
	Complesso Terracini, Room TA-01	Complesso Terracini, Room TA-02	Complesso Terracini, Room TA-03
09:00-10:30	Parallel Session 2.1 Sustainability assessments and eco-innovation (with Key note lecture)	Parallel Session 2.2 Environmental biotechnology in the circular economy	Parallel Session 2.3 Sustainable waste management and exploitation for chemicals, materials and energy recovery
10:30-11:00	Coffee Break and Poster Sessions		
11:00-12:30	Parallel Session 2.4 Sustainable waste management and exploitation for chemicals, materials and energy recovery	Parallel Session 2.5 Novel materials for environmental and energy applications	Parallel Session 2.6 Monitoring and modelling of environmental pollution (with Key note lecture)
12:30-14:00	Lunch and Poster Sessions		



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Time	VENUE: Alma Mater Studiorum – Università di Bologna (UNIBO) Complesso Terracini, School of Engineering and Architecture, via Terracini 28, Bologna		
	Complesso Terracini, Room TA-01	Complesso Terracini, Room TA-02	Complesso Terracini, Room TA-03
14:00- 15:30	Parallel Session 2.7 Water and wastewater cycles: technologies, recycling and valorization	Parallel Session 2.8 Novel materials for environmental and energy applications <i>(with Key note lecture)</i>	Parallel Session 2.9 Monitoring and modelling of environmental pollution
15:30- 16:00	Coffee Break and Poster Sessions		
16:00- 17:30	Parallel Session 2.10 Water and wastewater cycles: technologies, recycling and valorization		

Saturday, 9 September 2017

Time	VENUE: Alma Mater Studiorum – Università di Bologna (UNIBO) Complesso Terracini, School of Engineering and Architecture, via Terracini 28, Bologna		
	Complesso Terracini, Room TA-01	Complesso Terracini, Room TA-02	Complesso Terracini, Room TA-05
09:00- 11:00	Workshop: New Horizon2020 opportunities and successful EU projects presentations		IAMAW Workshop
11:00- 11:30	Coffee Break		
11:30- 12:30	Successful EU projects presentations	EIT-RM event: best PhD EIT- RM related presentations award	IAMAW Workshop
12:30- 13:00	ICEEM09 Official closing Complesso Terracini, Room TA-01		



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DETAILED CONFERENCE PROGRAM

Wednesday, 6 September 2017

Time	Activity
13:30-15:00	Registration, UNIBO , Complesso Belmeloro, via Belmeloro 14, Bologna.

Opening Ceremony and Plenary Sessions

Wednesday, 06.09.2017, 15:00 – 17:00,
 Complesso Belmeloro - Room A, via Belmeloro 14, Bologna.

Time	Activity
	OPENING CEREMONY
	Prof.dr. Francesco Ubertini Rector of <i>Alma Mater Studiorum</i> Università di Bologna
15:00-15:30	Prof.dr. Carmen Teodosiu “ <i>Gheorghe Asachi</i> ” Technical University of Iasi, ICEEM09 Chairperson
	Prof.dr. Lorenzo Bertin <i>Alma Mater Studiorum</i> Università di Bologna
	Prof.dr. Phillipe Corvini Chair of the Environmental Section of the European Federation of Biotechnology, ICEEM09 Chairperson
	PLENARY SESSION 1 Chairperson: Prof.dr. Carmen Teodosiu
15:30-16:00	<i>Sustainability assessment and management in the context of circular economy</i> Prof.dr. Adisa Azapagic , The University of Manchester, United Kingdom
	PLENARY SESSION 2 Chairperson: Prof.dr. Phillipe Corvini
16:00-16:30	<i>What innovative ecotech microbiology is needed for the next decade?</i> Prof.dr. Willy Verstraete , University of Ghent, Belgium
	PLENARY SESSION 3 Chairperson: Prof.dr. Lorenzo Bertin
16:30-17:00	<i>Bio-based solutions to combat pollution in the marine environment</i> Prof.dr. Nicolas Kalogerakis , Technical University of Crete, Greece
17:00-19:00	Welcome Cocktail



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Thursday, 7 September 2017

Parallel Session 1.1: Environmental biotechnology in the circular economy

Thursday, 07.09.2017, 09:00 – 10:30, Complesso Terracini, Room TA-01

Chairpersons: Prof.dr. Maria Gavrilescu & Prof.dr. Fabio Fava

Time	Title	Authors
09:00-09:30	Key note lecture <i>Environmental biotechnologies in the circular economy</i>	Prof.dr. Nathalie Gontard NIAR, France
09:30-09:45	The mycoremediation approach to restore an historically contaminated dredged sediments: BIORESNOVA project	Giovanna Siracusa, <u>Simone Becarelli</u> , Ilaria Chicca, Monica Ruffini Castiglione, Roberto Lorenzi, Giulio Petroni, Alessandro Gentini, Gualtiero Masini, Simona Di Gregorio
09:45-10:00	Selection of marine bacteria with potential ability to produce polyunsaturated fatty acids	<u>Noura Raddadi</u> , Roberta Romano, Lucia Giacomucci, Fabio Fava
10:00-10:15	ERC advanced grant "EcOology – Microbial life in oil"	<u>Rainer U. Meckenstock</u>
10:15-10:30	New microalgae and processes for a circular bioeconomy	<u>Spiros N. Agathos</u> , Borhane Samir Grama, Clayton Jeffryes
10:30-11:00	Coffee Break and Poster Sessions	

Parallel Session 1.2: Monitoring and modelling of environmental pollution

Thursday, 07.09.2017, 09:00 – 10:15, Complesso Terracini, Room TA-02

Chairpersons: Prof.Dr. Alina Catrinel Ion & Dr. Adela Buburuzan

Time	Title	Authors
09:00-09:15	Applying of a new method based on the ICF algorithm to the water quality evaluation of the Hungarian-Romanian cross-border rivers	<u>Zsófia Kovács</u> , Éena Jakó, Igor Cretescu, Endre Domokos
09:15-09:30	Identifying the weakness of large centralized wastewater treatment plants operating in a critical area: the case study of Regi Lagni (Southern Italy)	Raffaele Pica, <u>Sabino De Gisi</u> , Patrizia Casella, Gianpaolo Sabia, Michele Notarnicola
09:30-09:45	Natural remediation of the main affluents of Trotuş river affected by heavy metals pollution	<u>Gabriel-Alin Iosob</u> , Maria Prisecaru, Florin Prisecaru, Iuliana-Mihaela Lazăr
09:45-10:00	Representation of dynamic parameters from multivariate climate data and potential applications in pollutant transport and dispersion	<u>Marius Gavrilescu</u>
10:00-10:15	Aqueous phytoremediation modeling of red mud pollution based on artificial neural networks	Vasile-Mircea Cristea, <u>Alexandra Csavdari</u> , Horia Hangan, Norbert-Botond Mihály, Paul Şerban Agachi
10:30-11:00	Coffee Break and Poster Sessions	



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Parallel Session 1.3: Sustainability assessments and eco-innovation

Thursday, 07.09.2017, 09:00 – 10:30, Complesso Terracini, Room TA-03

Chairpersons: Prof.dr. Alessandra Bonoli & Assoc.Prof.dr. Brindusa Sluser

Time	Title	Authors
09:00-09:15	The use of agricultural by-products in the development of an agro-energy chain	<u>Pezzolla Daniela</u> , Venanzi Sonia, Sordi Alessio, Cecchini Lucio, Ricci Anna, Torquati Bianca Maria, Gigliotti Giovanni
09:15-09:30	Life cycle evaluations of pilot-scale ultrafiltration for wastewater reuse	<u>George Barjoveanu</u> , Carmen Teodosiu, Daniela Fighir, Dan Popovici
09:30-09:45	Evaluating the effects of carbon compensation in water footprint	Laura Roibás, Antonio Cuevas, María Eugenia Vázquez, Marta Vilas, <u>Almudena Hospido</u>
09:45-10:00	Interactive assessment of the governance context for sustainable river management	<u>Hans Bressers</u> , Nanny Bressers
10:00-10:15	Risk Assessment and Life Cycle Assessment application for a sustainable remediation of contaminated sites	<u>Sara Zanni</u> , Alessandra Bonoli
10:15-10:30	A methodology for the environmental impact assessment of the substitution of hazardous chemicals	<u>Semih Oguzcan</u> , Jolita Kruopien, Jolanta Dvarioniene
10:30-11:00	Coffee Break and Poster Sessions	

Parallel Session 1.4: Sustainable waste management and exploitation for chemicals, materials and energy recovery


Thursday, 07.09.2017, 11:00 – 12:30, Complesso Terracini, Room TA-01

Chairpersons: Prof. Dr.Akos Redey & Dr. Giulio Zanaroli

Time	Title	Authors
11:00-11:15	Cistus ladanifer as a feedstock for the mediterranean biorefineries	Júnia Alves-Ferreira, <u>Maria C. Fernandes</u> , Luís C. Duarte, Alfredo Martínez, Helena Pereira, Florbela Carvalheiro
11:15-11:30	Protein influence on dark fermentation of waste from cheese and ricotta production	<u>Ciro Vasmara</u> , Rosa Marchetti, Anna Orsi, Lucia Monti, Giovanna Contarini, Riccardo Aleandri
11:30-11:45	Phytoremediation potential of Miscanthus x giganteus and Spartina pectinata cultivated on sites contaminated with heavy metals	<u>Jacek Krzyżak</u> , Marta Pogrzeba, Szymon Rusinowski, Anja Hebner
11:45-12:00	Revalorization of olive oil wastes by the extraction of bioactive compounds	<u>Guillermo Rodríguez Gutiérrez</u> , Fátima Rubio-Senent, Juan Fernández-Bolaños Guzmán, María Africa Fernandez Prior,




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Time	Title	Authors
		Alejandra Bermudez Oria
12:00-12:15	REE4EU: integrated high temperature electrolysis (HTE) and Ion Liquid Extraction (ILE) for a strong and independent European Rare Earth Elements Supply Chain	Patrizia Circelli, <u>Silvia Colella</u> , Nader Akil, Emanuele Festa, Valentina Cinti
12:15-12:30	Screening and ranking methodology applied to biochars aimed at soil improvement	<u>Mónika Molnár</u> , Viktória Feigl, Emese Vaszita, Katalin Gruiz, Éva Farkas
12:30-14:00	Lunch and Poster Sessions / European Federation of Biotechnology – Environmental Biotechnology (EFB – EB) Meeting	 EUROPEAN FEDERATION OF BIOTECHNOLOGY

Parallel Session 1.5: Water and wastewater cycles: technologies, recycling and valorization

Thursday, 07.09.2017, 11:00 – 12:30, Complesso Terracini, Room TA-02
Chairpersons: Prof.dr. Carmen Teodosiu & Prof.dr. Maria A. Sanromán

Time	Title	Authors
11:00-11:30	Key note lecture <i>Municipal wastewater treatment to deliver circular economy in the water sector</i>	Assoc.Prof.dr. Francesco Fatone University of Verona, Italy
11:30-11:45	A pilot scale constructed wetland as tertiary treatment of wastewater for the removal of pathogens and antibiotic resistant bacteria	Andreas Kaliakatsos, Stavros Christophilopoulos, Kassandra Koumaki, Iosifina Gounaki, Nicolas Kalogerakis, <u>Danae Venieri</u>
11:45-12:00	Plant growth promoting bacteria: a sustainable tool to boost water footprint in agriculture	Francesca Mapelli, Valentina Riva, Ameer Cherif, Redouane Choukr-Allah, Ahmed Rashed, <u>Sara Borin</u>
12:00-12:15	Discover the mechanism of sulfonamide biodegradation in wastewater treatment plants, in situ and on a molecular level	<u>Kevin Kroll</u> , Alexander Timm, Rafael Peschke, Marius Majewsky, Hans-Peter E. Kohler, Boris A. Kolvenbach, Philippe F.X. Corvini
12:15-12:30	Removal of bisphenol A in aqueous solutions using different carbon nanomaterials (CNM)	I. Ion, R. M. Senin, <u>A. C. Ion</u>
12:30-14:00	Lunch and Poster Sessions / European Federation of Biotechnology – Environmental Biotechnology (EFB – EB) Meeting	 EUROPEAN FEDERATION OF BIOTECHNOLOGY




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Parallel Session 1.6: Sustainable waste management and exploitation for chemicals, materials and energy recovery

Thursday, 07.09.2017, 11:00 – 12:30, Complesso Terracini, Room TA-03

Chairpersons: Prof.dr. Anton Friedl & Prof.dr. Antonio Marzocchella

Time	Title	Authors
11:00-11:15	Influence of different hydrothermal pretreatments on the olive mill solid waste characterization and its anaerobic digestion	María José Fernández Rodríguez, David de la Lama Calvente, <u>Antonia Jiménez Rodríguez</u> , Rafael Borja Padilla, Bárbara Rincón Llorente
11:15-11:30	The effect of red mud on the soil biota in sandy soils – a microcosm experiment	<u>Viktória Feigl</u> , Ivett Kerekes, Éva Farkas, Mónika Molnár
11:30-11:45	Potential for critical raw materials (bio)recovery from Hungarian red mud	Éva Ujaczki, Yannick S. Zimmermann, Christoph A. Gasser, Mónika Molnár, Viktória Feigl, <u>Markus Lenz</u>
11:45-12:00	Evaluation of SRF production from biodegradable municipal solid waste: a metropolitan city approach-Izmir, Turkey	<u>Ayşenur Bölükbaş</u> , Görkem Akinci
12:00-12:15	Synergistic effects of the major simple phenols recovery from olive oil wastes as an antioxidants and new phyto-regulation approach	<u>Guillermo Rodríguez Gutiérrez</u> , Fátima Rubio-Senent, Juan Fernández-Bolaños Guzmán, María Africa Fernandez Prior, Alejandra Bermudez Oria
12:15-12:30	Health impacts attributed to the operation of a municipal solid waste-to-energy facility in the greater Thessaloniki area, Greece	<u>Christos Vlachokostas</u> , Georgios Tsegas, Charisios Achillas, Nicolas Moussiopoulos
12:30-14:00	Lunch and Poster Sessions / European Federation of Biotechnology – Environmental Biotechnology (EFB – EB) Meeting	 <small>EUROPEAN FEDERATION OF BIOTECHNOLOGY</small>

Parallel Session 1.7: Water and wastewater cycles: technologies, recycling and valorization

Thursday, 07.09.2017, 14:00 – 15:45, Complesso Terracini, Room TA-01

Chairpersons: Prof.dr. Florica Manea & Dr. Sabino De Gisi

Time	Title	Authors
14:00-14:15	Sustainable kaolinite adsorption-Fenton and electro-Fenton regeneration applied to coloured water treatment	<u>Emilio Rosales</u> , Delia Anasie, Marta Pazos, Iuliana Lazar, M. Angeles Sanromán
14:15-14:30	Convenience of Fenton-based technologies for the removal of pollutants from different environments	Marta M. Pazos, Emilio Rosales, M ^a Asunción Longo, <u>María A. Sanromán</u>
14:30-14:45	Dual use of boron-doped diamond electrode in antibiotics-containing water treatment and process control	Nicoleta Lungar, <u>Florica Manea</u> , AnaMaria Baciú, Aniela Pop, Ramona Magurean



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Time	Title	Authors
14:45-15:00	Spatial dynamics of PCDDs/Fs and dl-PCBs in the river continuum and possibilities for their removal using ecohydrology approach	<u>Magdalena Urbaniak</u>
15:00-15:15	Efficient degradation of a persistent pharmaceutical compound through an advanced oxidation process via a statistical optimization approach	<u>Lidia Favier</u> , Andrei Ionut Simion, Lacramioara Rusu, Cristina-Gabriela Grigoras, Yassine Kadmi, Raluca Hlihor, Dominique Wolbert
15:15-15:30	A Life Cycle Assessment application to evaluate environmental issues in saving and reusing water at domestic level	<u>Alessandra Bonoli</u> , Martina Mastroddi
15:30-15:45	A novel photosynthetic-EBPR process: a low-cost system to remove phosphorus without aeration	<u>Virginia Carvalho</u> , Elisabete Freitas, Paulo Silva, Joana Fradinho, Maria Reis, Adrian Oehmen
15:30-16:00	Coffee Break and Poster Sessions	

Parallel Session 1.8: Sustainability assessments and eco-innovation

Thursday, 07.09.2017, 14:00 – 15:45, Complesso Terracini, Room TA-02

Chairpersons: Prof.dr. Hans Bressers & Dr. George Barjoveanu

Time	Title	Authors
14:00-14:15	Urban land use of Humor catchment Romania over the last two centuries and its environmental impact	<u>Brindusa Mihaela Sluser</u> , Mihai Gabriel Balan, Eugen Rusu, Catalin Balan
14:15-14:30	Biological remediation of soil contaminated by hydrocarbons	<u>Spina Federica</u> , Spini Giulia, Poli Anna, Romagnolo Alice, Zanellati Andrea, Bentivegna Giuseppe Nicolò, El-Nazhari Najoi, Regnier Tiffanie, Blieux Anne-Laure, Echairi Abdelwahad, Prigione Valeria, Puglisi Edoardo, Varese Giovanna Cristina
14:30-14:45	Sustainability of the packaging waste management systems in Eastern European countries	<u>Daniela Cailean (Gavrilescu)</u> , George Barjoveanu, Carmen Teodosiu
14:45-15:00	Indicators for knowledge transfer from university to industry for life cycle extending in the context of circular economy	<u>Petronela Cozma</u> , Teofil Câmpean, Ariadna Negruț, Mihaela Roșca, Isabela Maria Simion, Elena-Diana Comaniță, Simona Cecilia Ghiga, Camelia Smaranda, Raluca Maria Hlihor, Maria Gavrilescu
15:00-15:15	Sustainability and quality assessments regarding an innovative seed drying method with less negative effect on the environment due to lower energy consumption	<u>Vlad Nicolae Arsenoaia</u> , Petru Marian Cârlescu, Radu Roșca, Ioan Țenu
15:15-15:30	Life cycle analysis of processes and products manufactured from production waste based on eco-innovation and eco-design principles	<u>Isabela Maria Simion</u> , Elena-Diana Comaniță, Petronela Cozma, Cristina Ghinea, Teofil Câmpean, Raluca Hlihor, Mihaela Roșca, Simona Ghiga, Camelia Smaranda, Maria Gavrilescu
15:30-15:45	On the costs of circularity strategies: environmental life cycle costing of glass bottle	Luca La Giglia, <u>Monia Niero</u> , Alessandra Bonoli, Stig I. Olsen



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Time	Title	Authors
15:30-16:00	Coffee Break and Poster Sessions	

Parallel Session 1.9: Sustainable waste management and exploitation for chemicals, materials and energy recovery

Thursday, 07.09.2017, 14:00 – 15:30, Complesso Terracini, Room TA-03

Chairpersons: Prof.dr. Silvia Fiore & Dr. Dario Frascari

Time	Title	Authors
14:00-14:30	Key note lecture <i>Sustainable production of materials, chemicals and energy from biomass and biowaste</i>	Prof.dr. Anton Friedl Vienna University of Technology, Austria
14:30-14:45	Agro-residues sustainable management in silicate materials	Fernanda Andreola, <u>Luisa Barbieri</u> , Teresa Cotes Palomino, Romina D. Farias, Isabella Lancellotti, Carmen Martínez García
14:45-15:00	Phenols recovery and biomethanization from olive mill solid waste after steam-explosion pre-treatment	Antonio Serrano, Fernando G. Feroso, Bernabé Alonso-Fariñas, Guillermo Rodríguez-Gutiérrez, Juan Fernández-Bolaños, <u>Rafael Borja</u>
15:00-15:15	Perspectives on the use of agro-food wastes and green solvents pretreatment to meet bio-butanol demand in Europe	<u>Alessandra Procentese</u> , Francesca Raganati, Giuseppe Olivieri, Marco de la Feld, Maria Elena Russo, Antonio Marzocchella
15:15-15:30	Application of statistical methods for the optimization of the composition of feedstock mixtures for anaerobic digestion processes	Giorgia Liberati, Mohammadali Mozafarian, Gonzalo A. Martinez, Joana M. Bendada Domingos, Fabio Fava, <u>Lorenzo Bertin</u>
15:30-16:00	Coffee Break and Poster Sessions	

Parallel Session 1.10: Monitoring and modelling of environmental pollution

Thursday, 07.09.2017, 16:00 – 17:15, Complesso Terracini, Room TA-01

Chairpersons: Prof.dr. Igor Cretescu & Prof.Dr.Akos Redey

Time	Title	Authors
16:00-16:15	Reclamation of chromium polluted saline soils using quinoa	<u>Cicatelli Angela</u> , Guarino Francesco, Karina B. Ruiz, Biondi Stefania, Castiglione Stefano
16:15-16:30	Managing pesticide residues in sour cherries: a human health risk assessment approach	<u>Raluca Maria Hlihor</u> , Manuela Olga Pogăcean, Petronela Cozma, Isabela Maria Simion, Vasile Stoleru, Maria Gavrilescu



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Time	Title	Authors
16:30-16:45	Plant bioconcentration and translocation factors of heavy metals in an area under the influence of a thermal power station	<u>Görkem Akinci</u> , Gulden Gok, Melayib Bilgin
16:45-17:00	Monitoring of mercury content in the main environmental components caused by lignite combustion in Turceni power plant (Romania)	<u>Delia Nica-Badea</u> , Iuliana Gabriela Breaban, Igor Cretescu, Catalina Stan
17:00-17:15	Assessment of social vulnerability in a rural area with flood hazard	<u>Roxana Tincu</u> , Maria-Ema Faciu, Iuliana Lazar

Parallel Session 1.11: Water and wastewater cycles: technologies, recycling and valorization

Thursday, 07.09.2017, 16:00 – 17:45, Complesso Terracini, Room TA-02

Chairpersons: Prof.dr. Silvia Fiore & Prof.dr. Nicolas Kalogerakis

Time	Title	Authors
16:00-16:15	Carboxylates and biogas production from olive mill wastewater: kinetic studies	Gonzalo Martinez, <u>Sarah Notarfrancesco</u> , Salvatore Puccio, Lorenzo Bertin, Davide Pinelli, Dario Frascari
16:15-16:30	Anaerobic oxidation of groundwater contaminants with a novel bioelectrochemical reactor configuration	<u>Enza Palma</u> , Matteo Daghigho, Andrea Franzetti, Marco Petrangeli Papini, Federico Aulenta
16:30-16:45	Effect of pretreatments on biosorption of divalent cobalt by Lemna sp.	Jessica Lizeth Reyes-Ledezma, Allan Eduardo Ramirez-Rodriguez, <u>Liliana Morales-Barrera</u> , Eliseo Cristiani-Urbina
16:45-17:00	Biosorptive removal of Acid orange 74 dye by HCl-pretreated Lemna sp.	Jessica Lizeth Reyes-Ledezma, <u>Daniel Uribe-Ramirez</u> , Liliana Morales-Barrera, Eliseo Cristiani-Urbina
17:00-17:15	3D Printing of Anammox Biofilms	<u>Damian Hausherr</u> , Boris Alexander Kolvenbach, Patrick Shahgaldian, Philippe F.-X. Corvini
17:15-17:30	Enhanced selection of PHA storing biomass via nitrite during the treatment of anaerobic supernatant	<u>Arianna Cherubin</u> , Nicola Frison, Anna Laura Eusebi, Francesco Fatone
17:30-17:45	Optimized effluent quality control for improved energy use in wastewater treatment plants	<u>Elfrida M. Carstea</u> , Cristina Liana Popa, Simona Dontu, Dan Savastru



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Parallel Session 1.12: Sustainable waste management and exploitation for chemicals, materials and energy recovery

Thursday, 07.09.2017, 16:00 – 17:30, Complesso Terracini, Room TA-03

Chairpersons: Prof.dr. Nathalie Gontard & Prof.dr. Fabio Fava

Time	Title	Authors
16:00-16:15	Potato peel as a feedstock for biobutanol production	<u>María Hijosa-Valsero</u> , Ana Isabel Paniagua-García, Rebeca Díez-Antolínez
16:15-16:30	Immobilization of lipase from agro-food by-products on glass wastes as environmentally sustainable alternative in heterogeneous biocatalysis	Luisa Barbieri, Isabel Belo, Leonardo Bertani, <u>Elena Bursi</u> , Luca Forti, Isabella Lancellotti, Felisbela Oliveira, Armando Venâncio
16:30-16:45	Effects of sewage sludge biochar in mixture with traditional Romanian compost on soil properties	<u>Elena Goldan</u> , Iuliana Lazar, Xavier Domene
16:45-17:00	The effect of biochar combined with PGPR and compost on an acidic sandy soil – a pot experiment	Mónika Molnár, Virág Kordisz, <u>Emese Vaszita</u> , Nikolett Uzinger, Márk Rékási, József Kutasi, Viktória Feigl, Mária Tolner, Katalin Gruiz, Éva Farkas
17:00-17:15	Potential use of pure and diluted choline chloride-based deep eutectic solvent in delignification of oil palm fronds	Eng Kein New, <u>Ta Yeong Wu</u> , Yu-Loong Loow, Zi Yet Poon, Luther Yang Wei Foo
17:15-17:30	Winery waste: a source of high added value biomolecules, exploitable within the H2020 NOAW project	Maura Ferri, Micaela Vannini, Paola Marchese, <u>Annamaria Celli</u> , Annalisa Tassoni



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Friday, 8 September 2017

Parallel Session 2.1: Sustainability assessments and eco-innovation

Friday, 08.09.2017, 09:00 – 10:30, Complesso Terracini, Room TA-01

Chairpersons: Prof.dr. Adisa Azapagic & Prof.dr. Carmen Teodosiu

Time	Title	Authors
09:00-09:30	Key note lecture <i>LCA as a useful tool for supporting the definition of a sustainable wastewater treatment plant</i>	Assoc.Prof.dr. Almudena Hospido University of Santiago de Compostela, Spain
09:30-09:45	Carbon footprint evaluation of novel technologies of detection of waterborne pathogens – the wider impact of the AQUAVALENS project	<u>Carmen M. Torres-Costa</u> , Francesc Castells, Maria José Figueras
09:45-10:00	Sustainability assessment of urban water use: from building to urban scale	Emanuela Di Fusco, Giovanni Buroni, Giada Felisa, Iaria Lauriola, Tonino Liserra, Valentina Ciriello, <u>Vittorio Di Federico</u>
10:00-10:15	Two-stage vs. single stage acid gas treatment systems: a performance assessment based on economic and environmental indices	<u>Alessandro Dal Pozzo</u> , Daniele Guglielmi, Giacomo Antonioni, Alessandro Tugnoli
10:15-10:30	Evaluation of eco-efficiency by multicriteria decision analysis. Case study of eco-innovated and eco-designed products from recyclable waste	<u>Elena-Diana Comăniță</u> , Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, Maria Gavrilescu
10:30-11:00	Coffee Break and Poster Sessions	

Parallel Session 2.2: Environmental biotechnology in the circular economy

Friday, 08.09.2017, 09:00 – 10:15, Complesso Terracini, Room TA-02

Chairpersons: Prof.dr. Philippe Corvini & Dr. Giulio Zанaroli

Time	Title	Authors
09:00-09:15	Impact of fish farming activity on the population of heterotrophic bacteria in the water column and pond sediment	<u>Isabelle Metaxa</u> , Aida Vasile, Petrea Ștefan Mihai, Alina Mogodan, Săndița Plăcintă
09:15-09:30	Microbial fuel cell biosensors based on environmental electroactive consortia for freshwater quality monitoring	<u>Valeria Agostino</u> , Valentina Margaria, Giulia Massaglia, Matteo Gerosa, Guido Saracco, Marzia Quaglio
09:30-09:45	Multiple dehalogenating capabilities in marine OHRB and identification of RDase genes	<u>Marco Rocca</u> , Andrea Nuzzo, Maria Elena Antinori, Fabio Fava, Giulio Zанaroli



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Time	Title	Authors
	and identification of RDase genes	Antinori, Fabio Fava, Giulio Zanaroli
09:45-10:00	Effect of polymer-encapsulated sophorolipids and cyclodextrins on the bioavailability and anaerobic biodegradation of crude oil hydrocarbons in marine sediments	<u>Antonella Rosato</u> , Giulio Zanaroli, Laura Sisti, Paola Fabbri, Annamaria Celli, Danny Reible, Fabio Fava
10:00-10:15	Evaluation of the biodegradability of different petroleum-derived plastics by aerobic bacteria	<u>Lucia Giacomucci</u> , Noura Raddadi, Michelina Soccio, Nadia Lotti, Fabio Fava
10:15-10:30	Evaluation of new low-cost substrate (amurca) in production of biosurfactant by pseudomonas aeruginosa isolated from fuel-contaminated soil	<u>Djaber Tazdaït</u> , Rym Salah, Djura Delhoum, Samia Mouffok, Fatma Kabouche, Imene Keddou, Nadia Abdi, Hocine Grib, Nabil Mamerihas
10:30-11:00	Coffee Break and Poster Sessions	

Parallel Session 2.3: Sustainable waste management and exploitation for chemicals, materials and energy recovery

Friday, 08.09.2017, 09:00 – 10:30, Complesso Terracini, Room TA-03
Chairpersons: Prof.dr. Anton Friedl & Dr. Daniela Gavrilescu

Time	Title	Authors
09:00-09:15	Technical evaluation of biogas production from cosmetics industrial waste	<u>Francesca Demichelis</u> , Maurizio Onofrio, Silvia Fiore
09:15-09:30	Feasibility study of integrating EAOP reactor and MFC to achieve simultaneous efficient sludge stabilization and direct electricity generation	<u>Hamed Rasouli Sadabad</u> , Gagik Badalians Gholikandi
09:30-09:45	Nutrients limitation and permanent light as strategies to improve metabolites production in wastewater-borne cyanobacteria	<u>Dulce Arias</u> , Enrica Uggetti, Maria Jesús García-Galán, Joan García
09:45-10:00	Microcosm incubation study for monitoring the mid-term effects of biochar on acidic sandy soil	<u>Éva Farkas</u> , Viktória Feigl, Éva Ujaczki, Ildikó Fekete-Kertész, Mária Tolner, Emese Vaszita, Katalin Gruiz, Mónika Molnár
10:00-10:15	Bioconversion of citrus wastes into lipids by Zygomycetes	<u>Eleonora Carota</u> , Maurizio Petruccioli, Anna M. Gallo, Silvia Crognale, Alessandro D'Annibale
10:15-10:30	High-performance thermal remediation of PAH – contaminated soils based on microwave irradiation	<u>Guido De Guidi</u> , Pietro Falciglia, Alfio Catalfo, Federico G.A. Vagliasind
10:30-11:00	Coffee Break and Poster Sessions	



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Parallel Session 2.4: Sustainable waste management and exploitation for chemicals, materials and energy recovery

Friday, 08.09.2017, 11:00 – 12:30 Complesso Terracini, Room TA-01

Chairpersons: Prof.dr. Maria Gavrilescu & Prof.dr. Lorenzo Bertin

Time	Title	Authors
11:00-11:15	Carboxylates recovery by solid phase extraction and their employment for polyhydroxyalkanoate production	Salvatore Puccio, <u>Gonzalo Martinez</u> , Davide Pinelli, Dario Frascari, Lorenzo Bertin
11:15-11:30	Poplar-assisted bioremediation of a multi-contaminated area in Southern Italy	<u>Valeria Ancona</u> , Anna Barra Caracciolo, Paola Grenni, Claudia Campanale, Ida Rascio, Martina Di Lenola, Martina Cardoni, Giuseppe Bagnuolo, Giuseppe Mascolo, Angelo Massacci, Vito Felice Uricchio
11:30-11:45	Pervaporation for effective in-situ butanol recovery in ABE fermentation	<u>Martin Miltner</u> , Florian Kirchbacher, Antonia Rom, Walter Wukovits, Michael Harasek, Anton Friedl
11:45-12:00	OFMSW for bioplastics production (polyhydroxyalkanoates)	<u>Bianca Colombo</u> , Barbara Scaglia, Francesca Favini, Tommy Pepè Sciarria, Giuliana D'Imporzano, Fabrizio Adani
12:00-12:15	BIORIZON, the way to aromatics	<u>Ludo Diels</u>
12:15-12:30	Hydrogen production and nutrients recovery from digestate using microbial electrochemical technologies (METs)	<u>Tommy Pepè Sciarria</u> , Giovanni Vacca, Fulvia Tambone, Fabrizio Adani
12:30-14:00	Lunch and Poster Sessions	

Parallel Session 2.5: Novel materials for environmental and energy applications

Friday, 08.09.2017, 11:00 – 12:30, Complesso Terracini, Room TA-02

Chairpersons: Prof.dr. Dana Perniu & Prof.dr. Igor Cretescu

Time	Title	Authors
11:00-11:15	Removal of organic pollutants using cyclodextrin-based adsorbents	<u>Irina Fierascu</u> , Radu Claudiu Fierascu, Raluca Somoghi, Sorin Marius Avramescu, Alina Elena Olaru, Corina Bradu, Angel Nica
11:15-11:30	Catalysts for selective catalytic reduction of NO _x emission	Tatjana Juzsakova, Zsofia Ifju, Noor Al-Jammal, Igor Cretescu, Endre Domokos, Jozsef Nemeth, Viktor Sebestyén, <u>Akos Redey</u>
11:30-11:45	Synthesis and characterization of Zn ₂ TiO ₄ used in desulphurisation processes of waste gases with H ₂ S content	<u>Madelene Annette Dancila</u> , Simona Caprarescu, Violeta Purcaru, Eugeniu Vasile, Cristina Modrogan, Alina Melinescu
11:45-12:00	Nanoparticles of silver/layered double hydroxides as	<u>Diana Gilea</u> , Mihaela Vizitiu, Doina Lutic,



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Time	Title	Authors
	nanoarchitectonics with solar photocatalytic response in environmental catalysis	Gabriela Carja
12:00-12:15	Magnetic eco-systems based on chitosan substrate used for Cr (VI) removal from waters	Ecaterina Matei, <u>Andra Mihaela Predescu</u> , Maria Răpă, Cristian Pantilimon, Claudia Drăgan, Cristian Predescu
12:15-12:30	Development of adsorbent from dealuminated Jordanian zeolitic tuff in oil spills clean-up (production, efficiency, utilization)	Noor Al-Jammal, Tatjana Juzsakova, <u>Viktor Sebestyen</u> , Ákos Redey, Domokos Endre
12:30-14:00	Lunch and Poster Sessions	

Parallel Session 2.6: Monitoring and modelling of environmental pollution

Friday, 08.09.2017, 11:00 – 12:30, Complesso Terracini, Room TA-03

Chairpersons: Prof.dr. Camelia Draghici & Prof.dr. Florica Manea

Time	Title	Authors
11:00-11:30	Key note lecture <i>Process evaluation of biological processes based on the removal and transformation of emerging contaminants</i>	Prof.dr. Thomas Ternes Federal Institute of Hydrology (BfG), Koblenz, Germany
11:30-11:45	Monitoring the fate of a genetically modified microorganism in a wastewater treatment plant	<u>Salvatore Puccio</u> , Andrea Nuzzo, Claudio Martina, Gonzalo Martinez, Fabio Fava, Lorenzo Bertin, Giulio Zanaroli
11:45-12:00	Bioluminescence application to control microbial contamination	<u>Mariia A. Kirillova</u> , Elena N. Esimbekova, Valentina A. Kratasjuk
12:00-12:15	Adaptive response of six marine bacterial strains to diatom polyunsaturated aldehydes toxicity	<u>Milva Pepi</u> , Hermann J. Heipieper, Cecilia Balestra, Marco Borra, Elio Biffali, Raffaella Casotti
12:30-14:00	Lunch and Poster Sessions	

Parallel Session 2.7: Water and wastewater cycles: technologies, recycling and valorization

Friday, 08.09.2017, 14:00 – 15:30, Complesso Terracini, Room TA-01

Chairpersons: Assoc.Prof.dr. Brindusa Sluser & Prof.dr. Francesco Fatone

Time	Title	Authors
14:00-14:15	Isotherm models and kinetics of zinc adsorption by using gellan-gum/graphene oxide beads	<u>Cristina Modrogan</u> , Pandele Andreea Madalina, Dancila Madelene, Orbuluț Oanamari Daniela, Orbeci Cristina
14:15-14:30	Functioning and control of A.S. WWTPS under inflow variations due to a combined drainage system	<u>Maurizio Mancini</u> , Carmine Fiorentino



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Time	Title	Authors
14:30-14:45	Evaluation of a constructed wetland for wastewater treatment, with emphasis on the removal of emerging organic contaminants and antibiotic resistant bacteria	<u>Stavros Christofilopoulos</u> , Andreas Kaliakatsos, Konstantina Triantafyllou, Styliani Voutsadaki, Nikolaos Nikolaidis, Venieri Danae, Nicolas Kalogerakis
14:45-15:00	WWTP model calibration based on different optimization approaches	<u>Vasile-Mircea Cristea</u> , Melinda Várhelyi, Marius Brehar, Abhilash Nair
15:00-15:15	Efficiency of living <i>Bacillus megaterium</i> in cadmium removal from aqueous solutions	<u>Mihaela Rosca</u> , Raluca Maria Hlihor, Mariana Diaconu, Teresa Tavares, Maria Gavrilescu
15:15-15:30	Olive mill wastewater valorisation through polyphenols adsorption and subsequent anaerobic digestion	<u>Giorgia Rubertelli</u> , Davide Pinelli, Dario Frascari
15:30-16:00	Coffee Break and Poster Sessions	

Parallel Session 2.8: Novel materials for environmental and energy applications

Friday, 08.09.2017, 14:00 – 15:30, Complesso Terracini, Room TA-02

Chairpersons: **Prof.dr. Ecaterina Matei & Prof.dr. Lidia Favier**

Time	Title	Authors
14:00-14:30	Key note lecture <i>Novel 2D composite thin layers for sustainable wastewater treatment</i>	Prof.dr. Dana Perniu Transilvania University of Brasov, Romania
14:30-14:45	Adaptive response of six marine bacterial strains to diatom polyunsaturated aldehydes toxicity	<u>Milva Pepi</u> , Hermann J. Heipieper, Cecilia Balestra, Marco Borra, Elio Biffali, Raffaella
14:45-15:00	Development of microemulsified multiwall carbon nanotubes (μ E-CNT) as adsorbent for oil spills clean-up	Tatjana Juzsakova, Noor Al-Jammal, Zsofia Ifju, <u>Viktor Sebestyen</u> , Domokos Endre, Akos Redey
15:00-15:15	Flexible design of cellular Al_2TiO_5 and $Al_2TiO_5-Al_2O_3$ composite monoliths by reactive firing	<u>Eleonora Lalli</u> , Nuno M. D. Vitorino, Carla A. M. Portugal, João G. Crespo, Cristiana Boi, Jorge R. Frade, Andrei V. Kovalevsky
15:15-15:30	Clean technology developments in the chemical industry	Tatjana Juzsakova, Igor Cretescu, Noor Al-Jammal, Endre Domokos, Jozsef Nemeth, Viktor Sebestyen, <u>Akos Redey</u>
15:30-16:00	Coffee Break and Poster Sessions	



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Parallel Session 2.9: Monitoring and modelling of environmental pollution

Friday, 08.09.2017, 14:00 – 15:15, Complesso Terracini, Room TA-03

Chairpersons: Prof.dr. Camelia Draghici & Dr. Sabino de Gisi

Time	Title	Authors
14:00-14:15	Assessment of the water quality of the Danube river, Romania, using water quality indices technique	<u>Alhassan H. Ismail</u> , Diana Robescu, Laura Stanescu
14:15-14:30	Assessment of soil erosion using Fournier indexes to estimate rainfall erosivity	<u>Alina Maria Coman</u> , Georgiana Lacatusu, Ana Maria Macsim, Gabriel Lazar
14:30-14:45	New applications of behavioral survey in the monitoring of pollutants effects upon freshwater fish study case: acute toxicity of methylmercury(II) chloride in zebrafish model	<u>Stefan-Adrian Strungaru</u> , Mircea Nicoara, Madalina Andreea Robea, Elena Todirascu-Ciornea, Gabriel Plavan
14:45-15:00	Na-Tech accident risk analysis of two hazmat storage facilities affected by floods	<u>Iulia Crăciun</u> , Andrei Radovici, Alexandra Kovacs, Alexandru Mereuță, Zoltán Török, Viorel Arghiuș, Alexandru Ozunu
15:00-15:15	Impact of risks on resource management for a road pavement system using Monte Carlo simulation	<u>Raluca Arba</u> , Lucia Rusu, Dan Sitar-Taut, Sergiu Jecan
15:30-16:00	Coffee Break and Poster Sessions	

Parallel Session 2.10: Water and wastewater cycles: technologies, recycling and valorization

Friday, 08.09.2017, 16:00 – 17:45, Complesso Terracini, Room TA-01

Chairpersons: Prof.dr. Vittorio Di Federico & Dr. Daniela Fighir

Time	Title	Authors
16:00-16:15	Biosorption of Metanil yellow dye from aqueous solutions by the entire water hyacinth plant (<i>Elchornia crassipes</i>) and its vegetative organs	<u>Imelda Guerrero-Coronilla</u> , Eliseo Cristiani-Urbina
16:15-16:30	Energy balance of microalgae-based wastewater treatment plants	<u>Joan García</u> , Fabiana Passos, Raquel Gutiérrez, Enrica Uggetti, Marianna Garfi, Ivett Ferrer
16:30-16:45	Biosorption of nickel(II) and zinc(II) ions from single and binary metal solutions by eucalyptus (<i>Eucalyptus camaldulensis</i>) bark	Marcos López-Nuñez, <u>Gabriela Pineda-Camacho</u> , Eliseo Cristiani-Urbina
16:45-17:00	Packed-bed column studies of hexavalent chromium removal and total chromium biosorption by <i>Quercus crassipes</i> acorn shell	<u>Erick Aranda-García</u> , Eliseo Cristiani-Urbina
17:00-17:15	A novel two-phase bioreactor for treating industrial wastewater and recovering valuable components	<u>M. Concetta Tomei</u> , Domenica Mosca Angelucci, Valentina Stazi, Andrew J. Daugulis
17:15-17:30	How much is sustainable producing low-cost adsorbents for wastewater treatment? A comparative evaluation	<u>Sabino De Gisi</u> , Michele Notarnicola
17:30-17:45	The management of TPH contaminated leachates: an innovative biotechnological strategy using fungi	<u>Giovanna Siracusa</u> , Simone Becarelli, Ilaria Chicca, Alessandra Bardi, Roberto Lorenzi, Qiuyan Youan, Giulio Munz, Alessandro Gentini, Gualtiero Masini, Simona Di Gregorio



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Saturday, 9 September 2017

Workshop: New Horizon2020 opportunities and EU successful projects presentations

Saturday, 09.09.2017, 09:00 – 11:00, Complesso Terracini, Room TA-01

Chairpersons: Prof.dr. Lorenzo Bertin

Time	Title	Authors
09:00-10:00	H2020 SC2/SC3/SC5 programmes	Dr. Andrea Rausa, Ciaotech , PNO Italy Prof. Fabio Fava , University of Bologna
10:00-11:00	Brokerage event: selected pitch presentations addressing the presented H2020 opportunities	Dr. Andrea Rausa, Ciaotech PNO Italy
11:00-11:30	Coffee Break	

Workshop of International Association of Mediterranean Agro-industrial Wastes (IAMAW): "Agro-industrial wastes as profitable sources for bioproducts production, their valorization and energy generation"

Saturday, 09.09.2017, 09:00 – 12:30, Complesso Terracini, Room TA-05

Chairpersons: Dr. Milva Pepi & Prof.dr. Maurizio Petruccioli

Successful EU projects presentations

Saturday, 09.09.2017, 11:30 – 12:30, Complesso Terracini, Room TA-01

Chairperson: Prof.dr. Fabio Fava

Time	Title	Authors
11:30-12:30	Why and how to write ERC proposals?	Prof. dr. Rainer Meckenstock University of Duisburg-Essen, Germany
	CIRC-05-2016: "Unlocking the potential of urban organic waste (RES URBIS)"	Prof. dr. Mauro Majone University "La Sapienza", Rome, Italy
	WASTE-7-2015: "Ensuring sustainable use of agricultural waste, co-products and by-products (NoAW)"	Prof. dr. Nathalie Gontard INRA, Montpellier, France
	WATER-1b-2015: "Scale-up of low-carbon footprint material recovery techniques in existing wastewater treatment plants (SMART-plant)"	Prof. dr. Francesco Fatone Università Politecnica delle Marche, Ancona, Italy
	BBI VC3.F1 – 2014: "Flagship demonstration of an integrated biorefinery for dry crops sustainable exploitation towards biobased materials production (First2Run)"	Dr. Giulia Gregori Novamont, Italy



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EIT-RM event: Best PhD EIT-RM related presentations award

Saturday, 09.09.2017, 11:30 – 12:30, Complesso Terracini, Room TA-02

- EIT-RM presentation
- Highlights of the selected PhD EIT-RM presentations
- Best presentations award ceremony

Closing Ceremony

Saturday, 09.09.2017, 12:30–13:00, Complesso Terracini, Room TA-01

Time	ICEEM09 CLOSING CEREMONY	
12:30-13:00	Prof.dr. Carmen Teodosiu	<i>Gheorghe Asachi Technical University of Iasi, ICEEM09 Chairperson, Guest editor for the ICEEM09 Special issues of <i>Process Safety and Environmental Protection & Sustainable Production and Consumption</i></i>
	Prof.dr. Fabio Fava	<i>Alma Mater Studiorum - University of Bologna, Italy, ICEEM09 Chairperson, Deputy Chair of the Environmental biotechnology in the circular economy section EFB</i>
	Prof.dr. Phillippe Corvini	<i>University of Applied Sciences and Arts Northwestern, Switzerland, ICEEM09 Chairperson, Guest editor for the ICEEM09 Special issue of <i>New Biotechnology</i></i>
	Prof.dr. Maria Gavrilescu	<i>Gheorghe Asachi Technical University of Iasi, Guest editor for the ICEEM09 Special issues of <i>Environmental Engineering and Management Journal</i></i>



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POSTER SESSIONS

- Posters may be displayed in dedicated panels, which will be located beside the Session Rooms. Authors are kindly requested to respect the Poster sessions presented below.
- Organizers strongly encourage poster discussions during coffee and lunch breaks. Poster panels will be identified with the same number assigned to the poster in this Conference Program. Posters will be mounted on and removed from the supporting panels by the authors, considering the planning in this conference program.
- *Authors are required to dismount their poster each day, at the end of their respective poster session.*

Thursday, 7 September 2017

Section I. Environmental biotechnology in the circular economy

Thursday, 7 September 2017

Chairperson: Dr. Giulio Zanaroli

Poster Code	Title	Authors
S1P01	Screening of different adsorbent materials for bio-butanol separation	Francesca Raganati, Alessandra Procentese, Giuseppe Olivieri, Maria Elena Russo, Antonio Marzocchella
S1P02	Green alternatives in biorefining process for spruce bark waste valorisation	<u>Oana-Alexandra Pătrăuțanu</u> , Mihai Brebu, Valentin I. Popa, Irina Volf
S1P03	A critical assessments of some macroalgae biomass for mine polluted water remediation	<u>Gabriela Ungureanu</u> , Sílvia Santos, Irina Volf, Cidália Botelho
S1P04	Characterization of a lead-resistant bacterial strain isolated from polluted sediments of Sarno River moottuth, Campania, Italy, and its possible use in bioremediation of native sediments	<u>Milva Pepi</u> , Cecilia Balestra, Stella Tamburrino, Mario Sprovieri, Maria Saggiomo, Marco Borra, Elio Biffali, Raffaella Casotti
S1P05	Biodegradation and detoxification of Basic blue 41 by <i>Pichia kudriavzevii</i> isolated from textile dye effluent	<u>Roșu Crăița Maria</u> , Mihaela Avădanei, Daniela Gherghel, Cosmin Mihai, Marius Mihășan, Gabriela Vochița
S1P06	Influence of growth conditions on microalgae cultivation systems for biofuels	<u>Alexandra Tucaliuc</u> , Alexandra Cristina Blaga, Lenuta Kloetzer, Dan Cascaval, Anca Irina Galaction
S1P07	Inovative technologies for fertilization and irrigation in protected spaces, in order to diminish soil pollution	<u>Ioan Țenu</u> , Oana Corduneanu, Radu Roșca, Vasile Stoleru, Petru Cârlescu, Gheorghe Șovăială
S1P08	The influence of storage condition on some bioactive compounds and health promoting properties of fruit berry	<u>Otilia Murariu</u> , Alin C. Dîrțu, Dragoș Robu, Liviu Irimia, Florin Murariu, Teodor Robu



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Section II. Water and wastewater cycles: technologies, recycling and valorisation

Thursday, 7 September 2017

Chairperson: Dr. Daniela Fighir

Poster Code	Title	Authors
S2P01	Optimizing design of an aerobic granular sludge bioreactor using numerical simulation	Corina Boncescu, Adriana Mierloiu, <u>Lacramioara Diana Robescu</u>
S2P02	Air bubble dynamics modelling and simulation in the water column	<u>Corina Boncescu</u> , Lacramioara Diana Robescu
S2P03	Particulate matter in wastewaters: size distribution and types, advanced solid/water separation techniques and its estimated impact on treatability	<u>Carmen Zaharia</u>
S2P04	An assessment of bottom sediment as a source of plant nutrients and an agent for improving soil properties	Agnieszka Baran, Marek Tarnawski, <u>Magdalena Urbaniak</u>
S2P05	Photocatalytic activities of pure anatase and brookite TiO ₂ nanoparticles in 4-chlorophenol oxidation	Petru Apopei, Carmen Teodosiu, <u>Daniela Fighir</u> , Cezar Catrinescu, Sébastien Royer
S2P06	The phosphorus dynamics in integrated multi-trophic aquaculture systems	<u>Stefan-Mihai Petrea</u> , Alina Mogodan, Isabelle Metaxa, Săndița Plăcintă, Mihaela Aida Vasile
S2P07	Sequencing batch biosorption of micropollutants from aqueous effluents: equilibrium and optimization studies	<u>Irina Morosanu</u> , Carmen Teodosiu, Carmen Paduraru, Corina Petronela Musteret
S2P08	Evaluation of the effect of pendimethalin herbicide on the biodegradation of the fungicide tebuconazole using a packed-bed reactor	Joseph Trujillo García, Paola Chargoy Cruz, Emanuel Mejía Jiménez, Deifilia Ahuatzí Chacón, Oswaldo Ramos Monroy, Nora Ruiz Ordaz, Juvencio Galíndez Mayer, <u>Cleotilde Juárez Ramírez</u>
S2P09	Emerging pharmaceutical pollutant degradation by heterogeneous electro-fenton process	<u>Emilio Rosales</u> , Silvia Diaz, Marta Pazos, M. Angeles Sanromán
S2P10	Photo- and biocatalytic treatment of selected fungicides in wastewater samples	<u>Monika Čvančarová</u> , Nicolas Kalogerakis, Danae Venieri, Luc Girardin, Philippe F.-X. Corvini

Section III. Sustainable waste management and exploitation for chemicals, materials and energy recovery

Thursday, 7 September 2017

Chairperson: Dr. Liliana Lazar

Poster Code	Title	Authors
S3P01	The role of E. coli for the upgrade of lignocellulosic biomass	Patricia Moniz, Talita Silva-Fernandes, Ivone Torrado, Júnia Alves-Ferreira, <u>Maria C. Fernandes</u>



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Poster Code	Title	Authors
S3P02	Synthesis and characterisation of fly ash-based geopolymer cement using a Romanian by-product from thermal power plant	Men Fei Chok, Igor Crețescu, Carmen Teodosiu, <u>Dorina Nicolina Isopescu</u> , Maria Harja, Brindusa M. Sluser, Mohamad Amran Mohd Salleh
S3P03	Dimensional and quantitative analysis of production wastes from packaging industry for their revaluation. The case study of a Romanian manufacturer	<u>Igor Cretescu</u> , Teofil Câmpean, Teodor Constantin Nechita, Adrian Catalin Puitel, Teodor Malutan, Dan-Alexandru Gavrilăscu, Camelia Smaranda, Petronela Cozma, Maria Gavrilăscu
S3P04	Perspectives on waste electrical and electronic equipment management system in Romania	Simona Cecilia Ghiga, <u>Raluca Maria Hlihor</u> , Isabela Maria Simion, Maria Gavrilăscu
S3P05	A life cycle approach on food waste management in the frame of circular economy	Cristina Ghinea, Elena Diana Comanita, <u>Maria Gavrilăscu</u>
S3P06	Indicator mapping tool for the complex knowledge space model	Viktor Sebestyén, Jozsef Nemeth, Endre Domokos, Tatjana Juzsakova, Miklos Bulla, <u>Akos Redey</u>
S3P07	Sustainable valorization of by-products from medicinal and aromatic plants industry into value-added products - SusMAPWaste	<u>Alina Orta</u> n, Irina Fierascu, Radu Claudiu Fierascu, Daniela Ionescu, Milen Georgiev
S3P08	Extraction of phenolic acids from wheat bran within the BBI AGRIMAX project	<u>Maura Ferri</u> , Giulio Zanaroli, Annamaria Celli, Laura Sisti, Annalisa Tassoni
S3P09	REE4EU, INDUS3ES and MEMERE innovative projects	<u>Patrizia Circelli</u> , Marco Molica Colella, Andrea Rausa, Valentina Cinti
S3P10	Effect of operational parameters in the continuous anaerobic fermentation of cheese whey on titers, yields, productivities, and microbial community structures	<u>Joana M. B. Domingos</u> , Gonzalo A. Martinez, Alberto Scoma, Serena Fraraccio, Frederiek-Maarten Kerckhof, Nico Boon, Maria A. M. Reis, Fabio Fava, Lorenzo Bertin
S3P11	Production of 2,3-butanediol from glucose by <i>Bacillus licheniformis</i> ATCC9789: effect of oxygen mass transfer	<u>Stefano Rebecchi</u> , Davide Pinelli, Dario Frascari, Fabio Fava, Giulio Zanaroli
S3P12	Sorption of lead onto chemically modified biochar produced from urban organic waste digested sludge	<u>Suchanya Wongrod</u> , Yoan Pechaud, Piet N. L. Lens, David Huguenot, Gilles Guibaud, Eric D. van Hullebusch

Section IV. Sustainability assessments and eco-innovation

Thursday, 7 September 2017

Chairperson: Dr. Carmen Maria Torres-Costa

Poster Code	Title	Authors
S4P01	Challenges of circular economy: eco-innovation and eco-design in manufacturing sector	Teofil Câmpean, Raluca-Maria Hlihor, Isabela Maria Simion, Elena-Diana Comăniță, Petronela Cozma, Camelia Smaranda, Mihaela Roșca, Dan-Alexandru Gavrilăscu, Cristina Ghinea, <u>Maria Gavrilăscu</u>



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Poster Code	Title	Authors
S4P02	Sustainable development appraisal for industrial systems toward circular economy: case study of corrugated board and packaging manufacturing	<u>Camelia Smaranda</u> , Teofil Câmpean, Cristina Ghinea, Petronela Cozma, Teodor Măluțan, Igor Crețescu, Adrian Cătălin Puițel, Elena-Diana Comăniță, Isabela Maria Simion, Raluca-Maria Hlihor, Dan-Alexandru Gavrilescu
S4P03	New concept of urban agriculture based on biotechnology and complementary ecoinnovations	Jan W. <u>Dobrowolski</u> , Dong Renjie, Małgorzata Koncewicz-Baran, Tomasz Czech, Florian Gambuś, Jerzy Wieczorek, Justyna Kobylarczyk, Robert Mazur, Aleksandra Wagner
S4P04	Bridging the gap between environmental pressures and tourism development: an approach to promote sustainable tourism based on life cycle assessment	<u>Alexandra V. Michailidou</u> , Christos Vlachokostas, Nicolas Moussiopoulos
S4P05	Using ISO standards to creating a risk procedure, which establishes the goals, links and components functioning for integrated environmental management systems of Romanian industrial companies	<u>Vasile N. Popa</u> , Luminița I. Popa, Anca Iuga
S4P06	Evaluating different responsibility sharing approaches for the Galician carbon emissions	<u>Laura Roibás</u> , Eléonore Loiseau, Almudena Hospido

Section VI. Monitoring and modelling of environmental pollution

Thursday, 7 September 2017

Chairperson: Assoc.Prof. Dr. Carmen Zaharia

Poster Code	Title	Authors
S6P01	Profiles of vocational interests favorable for the integration of environmental engineering students	Carmen Cătălina Ioan, Ileana Maria Carcea, Andrei Dumencu, <u>Brindusa Mihaela Sluser</u>
S6P02	Performance of dynamic VOCs adsorption onto hypercrosslinked polymeric resins compared to activated carbon	<u>Adela Marilena Buburuzan</u>
S6P03	Sources apportionment of ambient air pollutant PM10 in Iasi city	<u>Ana-Maria Șchiopu</u> , Ion Apostol, Adela Buburuzan
S6P04	Studies on physical absorption of CO ₂ in water in airlift reactors (ALRs)	Petronela Cozma, Ioan Mămăligă, <u>Manuela Olga Pogăcean</u> , Raluca-Maria Hlihor, Camelia Smaranda, Maria Gavrilescu
S6P05	Environmental assessment of surface waters based on monitoring data and neuro-evolutive modelling	Elena Dragoi, <u>Zsafia Kovacs</u> , Tatjana Juzsakova, Igor Cretescu
S6P06	Validation of a multiresidue method for pesticides determination in fruit and vegetables by gas chromatography coupled with mass spectrometry with flight time	<u>Manuela Olga Pogăcean</u> , Raluca-Maria Hlihor, Lidia Favier, Maria Gavrilescu
S6P07	Studies on organic pollutants transport and diffusion in various environmental compartments	<u>Camelia Smaranda</u> , Petronela Cozma, Ioan Mămăligă, Adrian Catalin Puitel, Teodor Malutan, Maria Gavrilescu



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Poster Code	Title	Authors
S6P08	Kinetic modelling of pesticide degradation in apples	Raluca Maria Hlihor, <u>Petronela Cozma</u> , Manuela Olga Pogăcean, Isabela Maria Simion, Laura Carmen Apostol, Maria Gavrilescu
S6P09	Analysis of pesticide fate and behavior in fruit and vegetables and associated human health risks	Raluca Maria Hlihor, <u>Isabela Maria Simion</u> , Petronela Cozma, Manuela Olga Pogăcean, Mihaela Roșca, Maria Gavrilescu
S6P10	The seasonal impact of precipitation and air temperature on the variations in groundwater levels	<u>Georgiana Lacatusu</u> , Alina-Maria Coman, Ana-Maria Macsim, Iuliana-Mihaela Lazar
S6P11	Ecotoxicological evaluation of persistent organic pollutants on plant-associated microorganisms for environmental bioremediation	<u>Laura Carmen Apostol</u> , Maria Gavrilescu
S6P12	Photo-Fenton degradation of organic compounds by iron(II)-embedded activated carbon composites	M.S. Secula, A. Vajda, <u>L. Lazar</u> , I. Mamaliga

Friday, 8 September 2017

Section II. Water and wastewater cycles: technologies, recycling and valorisation

Friday, 8 September 2017

Chairperson: Dr. Irina Morosanu

Poster Code	Title	Authors
S2P11	PCB-contaminated sewage sludge and sediment affect chlorophyll content and cause changes in the antioxidative system of cucumber tissue	<u>Anna Wyrwicka</u> , Magdalena Urbaniak
S2P12	New multiple criteria decision making technique in the development of waste water treatment facilities	Jozsef Nemeth, Endre Domokos, Viktor Sebestyen, Tatjana Juzsakova, <u>Akos Redey</u>
S2P13	Fate of antibiotic resistance genes in biological nutrient removal wastewater treatment plants	Serkan Kucukunsal, <u>Bulent Içgen</u>
S2P14	Emissions of greenhouse gases from full scale biological treatment of landfill leachate	Anna Laura Eusebi, <u>Matteo Spinelli</u> , Mattia Pierpaoli, Nicola Frison, Diego Cingolani, Francesco Fatone
S2P15	Degradation of parabens by heterogeneous electro-Fenton process	Ciprian Sandu, Marius Popescu, Emilio Rosales, Marta Pazos, Gabriel Lazar, <u>Maria Angeles Sanromán</u>
S2P16	Non-thermal plasma mini-reactors for water treatment	<u>Radu Burlica</u> , Iuliana-Delicia Dirlau, Dragos Astanei
S2P17	Green chemistry extraction method for recovery of gold ions from cyanide wastewaters	<u>Madalina Gherca</u> , Dumitru Bulgariu, Anca Mihaela Mocanu, Laura Bulgariu



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Poster Code	Title	Authors
S2P18	Metal pollutant concentrations monitoring of mine waters for reducing water pollution degree using microporous sorbents	<u>Andrei Szollosi-Moța</u> , Maria Prodan, Constantin Lupu, Angelica Călămar, Irina Nălboc
S2P19	Ibuprofen biodegradation by bioaugmented wastewater sludge	Jiménez-Silva Vanessa Abigail, <u>Santoyo-Tepole Fortunata</u> , Ruíz-Ordaz Nora, Juvencio Galíndez Mayer

Section III. Sustainable waste management and exploitation for chemicals, materials and energy recovery

Friday, 8 September 2017

Chairperson: Dr. Isabela Simion

Poster Code	Title	Authors
S3P13	Dehalococcoidia phylotypes dehalogenate aromatic and aliphatic organohalides in two sediments from Adriatic Sea	Andrea Nuzzo, Marco Rocca, Maria Elena Antinori, Fabio Fava, <u>Giulio Zanaroli</u>
S3P14	Mathematical model selection for ABE fermentation from glucose using <i>Clostridium beijerinckii</i> ATCC 55025	<u>Manuel Aguado Ramos</u> , Yolanda Núñez Rodríguez, Elena Maganto Burgos, Daniel Hernández Mateo, Daniella Zaharieva Petrova, Jenifer Doblado Ferrón
S3P15	The use of up-flow percolation test to assess the environmental properties of raw and treated fly ash	<u>Vladana N. Rajakovic-Ognjanovic</u> , Milica Karanac, Jasna Smolar, Ana Petkovsek, Maja Đolić, Jovan Despotovic
S3P16	Succinate production by <i>Actinobacillus succinogenes</i> : packed bed bioreactor tests	Alessandro Ragini, Luca Longanesi, Cecilia Spagni, Heleen DeWever, Dario Frascari, <u>Davide Pinelli</u>
S3P17	Effect of ultrasonic irradiation in improving delignification of oil palm fronds together with the use of deep eutectic solvent	<u>Ta Yeong Wu</u> , Eng Kein New, Yu-Loong Loow, Cornelius Basil Tien Loong Lee, Nicholas Wei Ren Cheong, Luther Yang Wei Foo
S3P18	Technical, economic and environmental analysis of lactic acid and biogas production from kitchen waste	<u>Francesca Demichelis</u> , Silvia Fiore, Daniel Pleissner, Joachim Venus
S3P19	Comparative evaluation of greenhouse gas emissions resulted from e-waste management systems in Italy and Romania	Daniela Cailean (Gavrilescu), <u>Dumitrita Ibanescu</u> , Carmen Teodosiu, Silvia Fiore
S3P20	New valorization routes of dihydroxyacetone, a glycerol derivative, to obtain bio-based polymers	<u>Maria Barbara Banella</u> , Marc von Czapiewski, Annamaria Celli, Michael Meier
S3P21	Modelling of bio-hydrogen production in stirred fermenters by computational fluid dynamics	<u>Francesco Maluta</u> , Giuseppina Montante, Alessandro Paglianti
S3P22	Microbial population shifts in ozone pre-treated single-stage anaerobic digesters	Asli Gumus, <u>Bulent Içgen</u>
S3P23	Experimental investigation concerning ex-situ bioremediation of petroleum hydrocarbons contaminated soils	<u>Valer Micle</u> , Ioana Monica Sur, Adriana Criste, Marin Șenilă, Erika Levei, Eugenia Gamenț, Carmen Cristorean, George Călin Rogozan



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Poster Code	Title	Authors
S3P24	Interfacial adhesion improvement of "all wastes" composites by interfacial functionalization	<u>Mihaela Cosnita</u> , Cristina Cazan, Anca Duta

Section IV. Sustainability assessments and eco-innovation

Friday, 8 September 2017

Chairperson: Dr. Petronela Cozma

Poster Code	Title	Authors
S4P07	Circular economy and LCA to perform green public procurement for organic waste	<u>Francesco Baldoni</u> , Valeria Bettini, Luca Pesaresi, Nicola Dalla Torre, Gianpaolo Bonmassari
S4P08	Life cycle assessment of a drinking water production system	<u>Andreea-Florina Gilcă</u> , George Bârjoveanu, Carmen Teodosiu, Ioana Roman, Silvia Fiore
S4P09	Sustainable engineering by using life cycle assessment (LCA) in process design	<u>Daniel Koch</u> , Anton Friedl, Bettina Mihalyi
S4P10	Harmonized internet system for life cycle assessment: expert systems approach	<u>Semih Oguzcan</u> , Daina Kliaugaitė, Alessandro Tugnoli, Jolanta Dvarionienė
S4P11	Sustainability and circular economy in education	<u>Madlena Nen</u> , Mihaela Harmanescu, Ecaterina Stefan, Crina Radulescu, Cristina Salca Rotaru

Section V. Novel materials for environmental and energy applications

Friday, 8 September 2017

Chairperson: Dr. Gabriela Soreanu

Poster Code	Title	Authors
S5P01	Removal of Cr(VI) from aqueous solution by low-cost keratinous waste	Igor Cretescu, Ingrid Buciscanu, Tudorel Balau, <u>Tudor Lupascu</u> , Gheorghe Duca, Constantin Luca, Gabriela Soreanu
S5P02	A new approach to obtain aerogels for gas safety applications	Corneliu S. Stan, <u>Gabriela Soreanu</u> , Marcel Popa, Petronela Horlescu, Tudor Lupascu, Igor Cretescu
S5P03	New TiO ₂ -Ag nanoparticles used for organic compound degradation	Consuela Gómez de Castro, Catalina Nuțescu Duduman, Maria Harja, <u>Doina Lutic</u> , Tatjana Juzsakova, Igor Cretescu
S5P04	Drones in environmental monitoring	Tatjana Juzsakova, Tamas Frater, Igor Cretescu, Endre Domokos, <u>Akos Redey</u>
S5P05	Catalytic ozonation of organic pollutants using apatitic materials	<u>Radu Claudiu Fierascu</u> , Irina Fierascu, Bogdan Trica, Sorin Marius Avramescu, Corina Bradu, Alina Elena Olaru, Angel Nica
S5P06	Alkali pre-treatment and enzymatic hydrolysis of Arundo donax for single cell oil production	<u>Stefano Cianchetta</u> , Stefania Galletti



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Poster Code	Title	Authors
S5P07	Eco-materials and eco-products in novel solar thermal facades	Ion Visa, <u>Dana Perniu</u> , Anca Duta
S5P08	TiO ₂ -supported powder and granular activated carbon for humic acid removal from water	<u>Corina Orha</u> , Florica Manea, Carmen Lazau, Rodica Pode
S5P09	The potential application of mineral sorbents for the simultaneous removal of disparate originating pollutants	Maja Đolić, Vladana Rajaković-Ognjanović, Milica Karanac, Ljiljana Janković-Mandić, Antonije Onjia, Ljubinka Rajaković

Section VI. Monitoring and modelling of environmental pollution

Friday, 8 September 2017

Chairperson: Dr. Camelia Smaranda

Poster Code	Title	Authors
S6P13	Kinetics study on catalytic oxidation of aromatic volatile organic compounds over V ₂ O ₅ -WO ₃ /TiO ₂ catalyst	<u>Liliana Lazar</u> , Heinz Koeser
S6P14	Simultaneous and selective electrochemical detection of Paraquat and Carbaryl pesticides from water on BDD electrode	<u>Aniela Pop</u> , Florica Manea, Lacrima Ighian, Rodica Pode
S6P15	Ecotoxicity of foaming agent conditioned soils on two terrestrial organisms	<u>Emanuela Galli</u> , Valerio G. Muzzini, Antonio Finizio, Pietro Fumagalli, Paola Grenni, Anna Barra Caracciolo, Jasmin Rausedo, Luisa Patrolecco
S6P16	The effect of environmental monitoring on the environmental legislative process	Cristina Salcă Rotaru, Ileana Manciulea, <u>Camelia Drăghici</u>
S6P17	Massive open on-line courses in open educational resources for toxicology learning, drugs and persistent organic pollutants as xenobiotics	Ileana Manciulea, Stefano Girotti, Luca Ferrari, Michele Protti, Laura Mercolini, Lucia Dumitrescu, Anca Vasilescu, <u>Camelia Drăghici</u>
S6P18	Road inspection using image processing and acquisition prototype	Bogdan Cramariuc, Lucia Rusu, <u>Dan Andrei Sitar-Tăuț</u>
S6P19	Influencing factors in urban lake water quality monitoring	Cristina Liana Popa, <u>Elfrida M. Carstea</u> , Erika Levei, Cristian I. Ioja, Roxana Savastru
S6P20	SO ₂ removal from residual gases by solid adsorbents	<u>Oanamari Daniela Orbulet</u> , Cristina Modrogan, Pandeale Andreea Madalina, Cristina Orbeci, Dancila Madelene, Constantin Bobirica
S6P21	A computer modeling of aquatic pollutant dispersion in order to establish the water quality upstream and downstream of household settlements	<u>Toth Lorand</u> , Călămar Angela, Kovacs Marius, Simion Sorin, Simion Alexandru
S6P22	Analysis of pesticide fate and behavior in fruit and vegetables and associated human health risks	Raluca Maria Hlihor, <u>Isabela Maria Simion</u> , Petronela Cozma, Manuela Olga Pogăcean, Mihaela Roșca, Maria Gavrilescu



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S6P23	Inquiry on pesticides residues in plant based products at national and international level	<u>Mihaela Rosca</u> , Raluca Maria Hlihor, Isabela Maria Simion, Petronela Cozma, Maria Gavrilesu
S6P24	IPS infestation – a global problem for coniferous	<u>Simona Andrei</u> , Bran-Elena Petronela, Gabriel-Octavian Lazăr

EIT-RM Poster Section

Friday, 8 September 2017

Chairperson: Prof.dr. Lorenzo Bertin

Poster Code	Title	Authors
EIT01	Evaluation of eco-efficiency by multicriteria decision analysis. Case study of eco-innovated and eco-designed products from recyclable waste	<u>Elena-Diana Comăniță</u> , Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, Maria Gavrilesu
EIT02	Life cycle cost analysis of alternatives for closing the loop in a manufacturing sector based on eco-innovation and ecodesign	<u>Elena-Diana Comăniță</u> , Isabela Maria Simion, Petronela Cozma, Camelia Smaranda, Raluca Maria Hlihor, Cristina Ghinea, Simona Cecilia Ghiga, Mihaela Roșca, Maria Gavrilesu
EIT03	Efficiency of two phosphorous scale inhibitors on calcium carbonate precipitation from reclaimed wastewater used for irrigation in a golf course	<u>H. Benlouali</u> , I. Karmal, M. Fallah, M.C. Harrouni, M. Hamdani, R. Choukrallah
EIT04	Nanoparticles of silver/layered double hydroxides as nanoarchitectonics with solar photocatalytic response in environmental catalysis	<u>Diana Gilea</u> , Mihaela Vizitiu, Doina Lutic, Gabriela Carja
EIT05	Self-assemblies of nanoparticles of gold/layered double hydroxides as efficient photocatalysts for the selective photoreduction of CO ₂	<u>Diana Gilea</u> , Elena Seftel, Gabriela Carja
EIT06	Feasibility study of integrating EAOP reactor and MFC to achieve simultaneous efficient sludge stabilization and direct electricity generation	<u>Hamed Rasouli Sadabad</u> , Gagik Badalians Gholikandi
EIT07	Clean technology developments in the chemical industry	Tatjana Juzsakova, Igor Cretescu, Noor Al-Jammal, Endre Domokos, Jozsef Nemeth, Viktor Sebestyen, Akos Redey
EIT08	Development of adsorbent from dealuminated Jordanian zeolitic tuff in oil spills clean-up (production, efficiency, utilization)	Noor Al-Jammal, Tatjana Juzsakova, Viktor Sebestyen, Akos Redey, Domokos Endre



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LIST OF PARTICIPANTS

Name	Affiliation	Email Address
A		
Oana Acatrinei-Insuratelu	“Vasile Alecsandri” University of Bacau, Romania	oanaacatrinei88@gmail.com
Spiros Agathos	Université Catholique de Louvain, Earth & Life Institute, Belgium; Yachay Tech University, Ecuador	spiros.agathos@uclouvain.be; sagathos@yachaytech.edu.ec
Valeria Agostino	Center For Sustainable Future Technologies @Polito, Istituto Italiano Di Tecnologia, Italy	valeria.agostino@iit.it
Manuel Aguado	Tomsa Destil, S.L., Spain	manuel.aguado@tomsadestil.es
Gorkem Akinci	Dokuz Eylul University Engineering Faculty, Turkey	gorkem.akinci@deu.edu.tr
Valeria Ancona	Istituto di Ricerca Sulle Acque del CNR, Italy	valeria.ancona@ba.irsra.cnr.it
Simona Andrei	“Vasile Alecsandri” University of Bacau, Romania	simonaa_andrei@yahoo.com
Laura Carmen Apostol	Universitatea Stefan cel Mare Suceava, Romania	laura.apostol@fia.usv.ro
Erick Aranda García	Instituto Politécnico Nacional - Escuela Nacional de Ciencias Biológicas, Mexico	aranda241@hotmail.com
Raluca Arba	Babes-Bolyai University of Cluj-Napoca, Romania	raluca.arba@econ.ubbcluj.ro
Dulce María Arias	Universitat Politècnica de Catalunya, Spain	dulce.maria.arias@upc.edu
Vlad Nicolae Arsenoaia	University of Agricultural Sciences and Veterinary Medicine, Iasi, Romania	vlad_arsenoaia@yahoo.com
Federico Aulenta	Water Research Institute (IRSA), National Research Council (CNR), Italy	aulenta@irsra.cnr.it
Adisa Azapagic	University of Manchester, United Kingdom	adisa.azapagic@manchester.ac.uk
B		
Francesco Baldoni	ESALEX srl, Italy	baldoni@esalex.eu
Maria Barbara Banella	University of Bologna, Italy	mariabarbara.banell2@unibo.it
Luisa Barbieri	UNIMORE, Italy	luisa.barbieri@unimore.it
George Barjoveanu	“Gheorghe Asachi” Technical University of Iasi, Romania	gb@tuiasi.ro
Hajar Benlouali	Hassan II Institute of Agronomy and Veterinary Medicine, Agadir, Morocco	h.benlouali@gmail.com
Lorenzo Bertin	University of Bologna, Italy	lorenzo.bertin@unibo.it
Ayşenur Bölükbaş	Dokuz Eylul University, Turkey	aysenur.bolukbas@deu.edu.tr
Corina Boncescu	University Politehnica of Bucharest, Romania	corina.boncescu@gmail.com
Alessandra Bonoli	University of Bologna, Italy	alessandra.bonoli@unibo.it
Sara Borin	University of Milan, Italy	sara.borin@unimi.it
Rafael Borja	Instituto de la Grasa (CSIC), Spain	rborja@cica.es
Hans Bressers	University of Twente, The Netherlands	hans.bressers@utwente.nl
Adela Marilena Buburuzan	“Gheorghe Asachi” Technical University of Iasi, Romania	adelahaleta@ch.tuiasi.ro
Radu Burlica	“Gheorghe Asachi” Technical University of Iasi, Romania	rburlica@tuiasi.ro
Elena Bursi	University of Modena and Reggio Emilia, Italy	elena.bursi@unimore.it



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Name	Affiliation	Email Address
C		
Daniela Cailean (Gavrilescu)	"Gheorghe Asachi" Technical University of Iasi, Romania	dcaile@ch.tuiasi.ro
Petru Carlescu	University of Agricultural Sciences and Veterinary Medicine Iasi, Romania	pcarlescu@uaiasi.ro
Eleonora Carota	Tuscia University, Italy	carota@unitus.it
Elfrida Carstea	National Institute of Research and Development for Optoelectronics, Romania	elfrida.carstea@inoe.ro
Virginia Carvalho	UCIBIO-REQUIMTE, Universidade NOVA de Lisboa, Portugal	virginiaccarvalho@gmail.com
Tercan Catakli	Middle East Technical University, Ankara, Turkey	tcatakli@metu.edu.tr
Annamaria Celli	University of Bologna, Italy	annamaria.celli@unibo.it
Arianna Cherubin	University of Verona, Italy	arianna.cherubin@univr.it
Stavros Christofilopoulos	K1.122 MHPER Polytechnioupoli, Chania, Crete, Greece	stavros_christof@yahoo.gr
Stefano Cianchetta	Council for Agricultural Research and Economics, Research Center for Agriculture and Environment, Italy	stefano.cianchetta@crea.gov.it
Angela Cicatelli	University of Salerno, Italy	acicatelli@unisa.it
Patrizia Circelli	CiaoTech PNO, Italy	v.cinti@ciaotech.com, p.circelli@ciaotech.com
Silvia Colella	CiaoTech PNO, Italy	infociaotech@ciaotech.com
Bianca Colombo	Università degli Studi di Milano, Italy	bianca.colombo@unimi.it
Alina Maria Coman	"Vasile Alecsandri" University of Bacau, Romania	coman_alina_maria@yahoo.com
Elena-Diana Comanita	"Gheorghe Asachi" Technical University of Iasi, Romania	comanita_elena_diana@yahoo.com
Philippe Corvini	University of Applied Sciences Northwestern Switzerland, Switzerland	philippe.corvini@fhnw.ch
Petronela Cozma	"Gheorghe Asachi" Technical University of Iasi, Romania	petronela_cozma@tuiasi.ro
Iulia Crăciun	Babeş-Bolyai University, Romania	iulya_craciun@yahoo.com
Igor Cretescu	"Gheorghe Asachi" Technical University of Iasi, Romania	icre@tuiasi.ro
Vasile-Mircea Cristea	Babeş-Bolyai University, Romania	mcristea@chem.ubbcluj.ro
Alexandra Csavdari	Babeş-Bolyai University, Romania	acsavdari@chem.ubbcluj.ro
Monika Cvancarova	University of Applied Sciences Northwestern Switzerland, Switzerland	monika.cvancarova@fhnw.ch
Tomasz Czech	University of Agriculture in Krakow, Poland	Tomasz.Czech@ur.krakow.pl
D		
Alessandro Dal Pozzo	Università di Bologna, Italy	alessandro.dalpozzo3@unibo.it
Madelene Annette Dancila	Politehnica University of Bucharest, Romania	dancila.madelene@yahoo.com
Sabino De Gisi	Politecnico di Bari, Italy	sabino.degisi@poliba.it
Guido De Guidi	Università di Catania, Italy	gdeguidi@unict.it
Valeria De Petris	EIT-RM, Italy	valeria.depétris@eitrawmaterials.eu
Francesca Demichelis	Politecnico di Torino, Italy	francesca.demichelis@polito.it



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Name	Affiliation	Email Address
Vittorio Di Federico	Università di Bologna, Italy	vittorio.difederico@unibo.it
Ludo Diels	VITO, Belgium	ludo.diels@vito.be
Maja Djolic	Vinca Institute of Nuclear Sciences, Serbia	mirkovic.maja@gmail.com
Joana Domingos	Università di Bologna, Italy	joana.bendada@unibo.it
Camelia Draghici	Transilvania University of Brasov, Romania	c.draghici@unitbv.ro
F		
Éva Farkas	Budapest University of Technology and Economics, Hungary	farkas.eva@mail.bme.hu
Francesco Fatone	Università Politecnica delle Marche, Ancona, Italy	f.fatone@univpm.it
Fabio Fava	Alma Mater University of Bologna, Italy	fabio.fava@unibo.it
Lidia Favier	Ecole Nationale Supérieure de Chimie de Rennes, France	lidia.favier@ensc-rennes.fr
Viktoria Feigl	Budapest University of Technology and Economics, Hungary	vfeigl@mail.bme.hu
Maria Fernandes	Centro de Biotecnologia Agrícola e Agro-Alimentar do Alentejo, Portugal	maria.fernandes@cebal.pt
María José Fernández Rodríguez	Instituto de la Grasa (CSIC), Spain	brlloren@cica.es
Maura Ferri	University of Bologna, Italy	maura.ferri@unibo.it
Irina Fierascu	The National Institute for Research & Development in Chemistry and Petrochemistry-ICECHIM, Romania	dumitriu.irina@yahoo.com
Radu Claudiu Fierascu	The National Institute for Research & Development in Chemistry and Petrochemistry-ICECHIM, Romania	radu_claudiu_fierascu@yahoo.com
Daniela Fighir	"Gheorghe Asachi" Technical University of Iasi, Romania	daniela.arsene@tuiasi.ro
Silvia Fiore	Politecnico di Torino, Italy	silvia.fiore@polito.it
Dario Frascari	University of Bologna, Italy	dario.frascari@unibo.it
Anton Friedl	Vienna University of Technology, Austria	anton.friedl@tuwien.ac.at
Nicola Frison	University of Verona, Italy	nicola.frison@univr.it
G		
Emanuela Galli	IBAF – CNR, Italy	emanuela.galli@ibaf.cnr.it
Joan García	Universitat Politècnica de Catalunya-BarcelonaTech, Spain	joan.garcia@upc.edu
Marius Gavrilescu	"Gheorghe Asachi" Technical University of Iasi, Romania	mariusgav42@yahoo.com
Maria Gavrilescu	"Gheorghe Asachi" Technical University of Iasi, Romania	mgav@tuiasi.ro
Madalina Gherca	"Gheorghe Asachi" Technical University of Iasi, Romania	madagherca@yahoo.com
Cristina Ghinea	"Stefan cel Mare" University of Suceava, Romania	cristina.ghinea@fia.usv.ro
Lucia Giacomucci	University of Bologna, Italy	lucia.giacomucci2@unibo.it
Andreea-Florina Gilca	"Gheorghe Asachi" Technical University of Iasi, Romania	andreea.gilca@tuiasi.ro
Diana Gilea	"Gheorghe Asachi" Technical University of Iasi, Romania	gilea.diana91@gmail.com
Elena Goldan	„Vasile Alecsandri” University of Bacau, Romania	goldanelena@yahoo.com



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Name	Affiliation	Email Address
Nathalie Gonthard	INRA, Montpellier, France	nathalie.gontard@univ-montp2.fr
Giulia Gregori	Novamont, Italy	giulia.gregori@novamont.com
Imelda Guerrero	Instituto Politécnico Nacional-Escuela Nacional de Ciencias Biológicas, Mexico	imeldacb@hotmail.com
H		
Damian Hausherr	University of Applied Sciences Nothwestern Switzerland, Switzzlerland	damian.hausherr@fhnw.ch
María Hijosa-Valsero	Instituto Tecnológico Agrario de Castilla y León (ITACyL), Spain	hijvalma@itacyl.es
Raluca Maria Hlihor	Gheorghe Asachi Technical University of Iasi, Romania	raluca.hlihor@ch.tuiasi.ro
Almudena Hospido	Universidade de Santiago de Compostela, Spain	almudena.hospido@usc.es
I		
Dumitrita Ibanescu	Gheorghe Asachi Technical University of Iasi, Romania	dumitrita.ibanescu@tuiasi.ro
Bulent Icgen	Middle East Technical University, Turkey	bicgen@metu.edu.tr
Alina Catrinel Ion	University Politehnica of Bucharest, Romania	ac_ion@yahoo.com
Gabriel-Alin Iosob	„Vasile Alecsandri” University of Bacau, Romania	iosob.gabriel@gmail.com
Alhassan Ismail	University Politehnica of Bucharest, Romania	hassan19851988@yahoo.com
Dorina Nicolina Isopescu	"Gheorghe Asachi" Technical University of Iasi, Romania	dorina_isopescu@yahoo.co.uk
J		
Cleotilde Juarez Ramirez	Instituto Politecnico Nacional, Mexico	cleotildejr@prodigy.net.mx
K		
Nikolas Kalogerakis	Technical University of Crete, Greece	nicolas.kalogerakis@enveng.tuc.gr
Maria Kirillova	Siberian Federal University, Russia	kirillva@mail.ru
Daniel Koch	TU Wien, Institute of Chemical Engineering, Austria	daniel.koch@tuwien.ac.at
Zsófia Kovács	Institute of Environmental Engineering, University of Pannonia, Hungary	zsofiakovacs@almos.uni-pannon.hu
Kevin Kroll	FHNW, Switzerland	kevin.kroll@fhnw.ch
Jacek Krzyżak	Institute for Ecology of Industrial Areas, Poland	j.krzyzak@ietu.pl
L		
Floriana La Marca	EIT-RM, Italy	floriana.lamarca@eitrawmaterials.eu
Georgiana Lacatusu	„Vasile Alecsandri” University of Bacau, Romania	georgi.rosu@gmail.com
Eleonora Lalli	University of Bologna, Italy	eleonora.lalli2@unibo.it
Liliana Lazar	Gheorghe Asachi Technical University of Iasi, Romania	lillazar@ch.tuiasi.ro
Markus Lenz	FHNW, Inst. for Ecopreneurship, Switzerland	Markus.Lenz@fhnw.ch
Constantin Luca	Gheorghe Asachi Technical University of Iasi, Romania	cluca@ch.tuiasi.ro
Tudor Lupascu	Institute of Chemistry, Academy Science of Repulbic of Moldova	lupascu@gmail.com
M		
Mauro Majone	University “La Sapienza”, Rome, Italy	mauro.majone@uniroma1.it
Francesco Maluta	University of Bologna, Italy	francesco.maluta2@unibo.it



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Name	Affiliation	Email Address
Maurizio Mancini	University of Bologna, Italy	maurizio.mancini@unibo.it
Florica Manea	Politehnica University of Timisoara, Romania	florica.manea@upt.ro
Gonzalo Martinez	University of Bologna, Italy	gonzalo.martinez3@unibo.it
Antonio Marzocchella	Università degli Studi di Napoli Federico II, Italy	marzocch@unina.it
Ecaterina Matei	University Politehnica of Bucharest, Romania	ecaterinamatei@yahoo.com
Rainer Meckenstock	University of Duisburg-Essen, Germany	rainer.meckenstock@uni-due.de
Isabelle Metaxa	Dunarea de Jos University of Galati, Romania	imetaxa@ugal.ro
Alexandra Michailidou	Aristotle University of Thessaloniki, Greece	amichail@aix.meng.auth.gr
Valer Micle	Technical University of Cluj-Napoca, Romania	valer.micle@imadd.utcluj.ro
Bettina Mihalyi	TU Wien, Institute of Chemical Engineering, Austria	bettina.mihalyi@tuwien.ac.at
Martin Miltner	Vienna University of Technology, Institute of Chemical Engineering, Austria	martin.miltner@tuwien.ac.at
Cristina Modrogan	University Politehnica of Bucharest, Romania	c_modrogan@yahoo.com
Mónika Molnár	Budapest University of Technology and Economics, Hungary	mmolnar@mail.bme.hu
Liliana Morales-Barrera	Instituto Politécnico Nacional, Mexico	lilianamb10@gmail.com
Irina Morosanu	"Gheorghe Asachi" Technical University of Iasi, Romania	irina.morosanu@tuiasi.ro
Otilia Murariu	"Ion Ionescu de la Brad" University of Agriculture Science and Veterinary Medicine, Romania	otiliamurariu@yahoo.ro
Corina Musteret	"Gheorghe Asachi" Technical University of Iasi, Romania	corina_musteret@ch.tuiasi.ro
N		
Andrea Negroni	University of Bologna, Italy	andrea.negroni4@unibo.it
Madlena Nen	Military Technical Academy, Romania	madlenanen@yahoo.com
Delia Nica-Badea	"Constantin Brancusi" University, Romania	nicabadeadelia@yahoo.com
Monia Niero	Technical University of Denmark, Denmark	monni@dtu.dk
Sarah Notarfrancesco	University of Bologna, Italy	sarah.notarfrancesc2@unibo.it
O		
Semih Oguzcan	Kaunas University of Technology, Lithuania	semih201387@gmail.com
Oanamari Daniela Orbulet	University Politehnica of Bucharest, Romania	oanamari2001@yahoo.com
Corina Orha	National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania	haiduccorina@yahoo.com
Alina Ortan	University of Agronomic Sciences and Veterinary Medicine, Romania	alina_ortan@hotmail.com
Enza Palma	Water Research Institute (IRSA), National Research Council (CNR), Italy	
P		
Oana-Alexandra Pătrăuțanu	„Gheorghe Asachi” Technical University of Iasi, Romania	oana.patratanu@tuiasi.ro
Tommy Pepè Sciarria	University of Milan, Italy	tommy.pepe@unimi.it
Milva Pepi	Stazione Zoologica Anton Dohrn, Italy	milva.pepi@szn.it



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Name	Affiliation	Email Address
Dana Perniu	Transilvania University of Brasov, Romania	danaperniu@gmail.com
Stefan Mihai Petrea	„Dunărea de Jos” University, Romania	stefan.petrea@ugal.ro
Maurizio Petruccioli	Tuscia University, Italy	petrucci@unitus.it
Daniela Pezzolla	University of Perugia, Italy	daniela.pezzolla@unipg.it
Gabriela Pineda	Instituto Politécnico Nacional-Escuela Nacional de Ciencias Biológicas, Mexico	gabypinedacamacho@hotmail.com
Davide Pinelli	University of Bologna, Italy	davide.pinelli@unibo.it
Manuela Olga Pogăcean	Gheorghe Asachi Technical University of Iasi, Romania	manuelapogacean@yahoo.com
Aniela Pop	Politehnica University of Timisoara, Romania	aniela.pop@upt.ro
Vasile Popa	Regional Department for Defense Resources Management Studies, Romania	vasilepopa2001@yahoo.com
Liana Popa	National Institute of Research and Development for Optoelectronics, Romania	
Andra Predescu	University Politehnica of Bucharest, Romania	ecaterinamatei@yahoo.com
Alessandra Procentese	Istituto di Ricerche sulla Combustione (IRC-CNR), Italy	procentese@irc.cnr.it
Salvatore Puccio	University of Bologna, Italy	salvatore.puccio2@unibo.it
R		
Noura Raddadi	University of Bologna, Italy	noura.raddadi@unibo.it
Francesca Raganati	Università degli Studi di Napoli Federico II, Italy	francesca.raganati@unina.it
Vladana Rajakovic-Ognjanovic	Faculty of Civil Engineering, University of Belgrade, Serbia	vladana@grf.rs
Hamed Rasouli Sadabad	Shahid Beheshti University, A.C., Tehran, Iran	ha_rasouli@sbu.ac.ir
Andrea Rausa	Ciaotech, PNO Italy	a.rausa@ciaotech.com
Stefano Rebecchi	University of Bologna, Italy	stefano.rebecchi3@unibo.it
Akos Redey	Institute of Environmental Engineering, University of Pannonia, Hungary	redey.akos@gmail.com
Lacramioara Diana Robescu	University Politehnica of Bucharest, Romania	diana.robescu@upb.ro
Marco Rocca	University of Bologna, Italy	marco.rocca6@unibo.it
Guillermo Rodriguez Gutierrez	Instituto de la Grasa-CSIC, Spain	guirogu@ig.csic.es
Laura Roibás	Universidade de Santiago de Compostela, Spain	laura.roibas.cela@usc.es
Emilio Rosales Villanueva	University of Vigo, Spain	emilirov@uvigo.es
Antonella Rosato	University of Bologna, Italy	antonella.rosato2@unibo.it
Mihaela Rosca	“Gheorghe Asachi” Technical University of Iasi, Romania	m.rosca@ch.tuiasi.ro
Craita-Maria Rosu	Institute of Biological Research Iasi, Romania	craita2002@yahoo.com
Giorgia Rubertelli	University of Bologna, Italy	giorgia.rubertelli2@unibo.it
Cristina Salca Rotaru	Transilvania University of Brasov, Romania	rotaruc@unitbv.ro
S		
M ^a Angeles Sanroman	University of Vigo, Spain	sanroman@uvigo.es
Fortunata Santoyo Tepole	Instituto Politécnico Nacional, Mexico	fsantoyo@ipn.mx



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Name	Affiliation	Email Address
Ana-Maria Schiopu	Salubris S.A. Iasi, Romania	anamariaschiopu@yahoo.com
Viktor Sebestyen	University of Pannonia, Hungary	sebestyenv@almos.uni-pannon.hu
Ilie Siminiceanu	"Gheorghe Asachi" Technical University of Iasi, Romania	isiminic@ch.tuiasi.ro
Isabela Maria Simion	"Gheorghe Asachi" Technical University of Iasi, Romania	teslaru.isabel@ch.tuiasi.ro
Giovanna Siracusa	University of Pisa, Italy	giovanna.siracusa@biologia.unipi.it
Andrei Sitar-Taut	Babes Bolyai University, Romania	dan.sitar@econ.ubbcluj.ro
Brindusa Mihaela Sluser	"Gheorghe Asachi" Technical University of Iasi, Romania	brobu@ch.tuiasi.ro
Camelia Smaranda	"Gheorghe Asachi" Technical University of Iasi, Romania	betianuc@tuiasi.ro
Gabriela Soreanu	"Gheorghe Asachi" Technical University of Iasi, Romania	gsor@tuiasi.ro
Federica Spina	University of Torino, Italy	federica.spina@unito.it
Matteo Spinelli	Università Politecnica delle Marche, Italy	
Stefan-Adrian Strungaru	"Alexandru Ioan Cuza" University of Iasi, Romania	stefan.strungaru@uaic.ro
Andrei Szollosi-Moța	INCD INSEMEX Petrosani, Romania	andrei.szollosi@insemex.ro
T		
Carmen Teodosiu	"Gheorghe Asachi" Technical University of Iasi, Romania	cteo@ch.tuiasi.ro
Thomas Ternes	Federal Institute of Hydrology (BfG), Koblenz, Germany	ternes@bafg.de
Roxana Tincu	"Vasile Alecsandri" University of Bacau, Romania	roxanaticnu@gmail.com
Maria Concetta Tomei	Istituto di Ricerca Sulle Acque – CNR, Italy	tomei@irsa.cnr.it
Carmen Maria Torres Costa	Universitat Rovira i Virgili, Spain	carmenmaria.torres@urv.cat
Lorand Toth	INCD INSEMEX Petrosani, Romania	lorand.toth@insemex.ro
Alexandra Tucaliuc	Gheorghe Asachi" Technical University of Iasi, Romania	tucaliucalexandra@gmail.com
U		
Magdalena Urbaniak	European Regional Centre for Ecohydrology of the Polish Academy of Sciences, Poland	m.urbaniak@unesco.lodz.pl
Daniel Uribe-Ramirez	Instituto Politecnico Nacional, Mexico	daniel.uriberam@gmail.com
V		
Ciro Vasmara	CREA – ZA, Italy	ciro.vasmara@crea.gov.it
Emese Vaszita	Budapest University of Technology and Economics, Hungary	emvaszita@mail.bme.hu
Danae Venieri	Technical University of Crete, Greece	danae.venieri@enveng.tuc.gr
Willy Verstraete	University of Ghent, Belgium	Willy.Verstraete@UGent.be
Christos Vlachokostas	Aristotle University Thessaloniki, Greece	vlahoco@auth.gr
W		
Suchanya Wongrod	Université Paris-Est, France	suchanya.wongrod@u-pem.fr
Ta Yeong Wu	Monash University, Malaysia	wu.ta.yeong@monash.edu
Anna Wyrwicka	University of Lodz, Lodz, Poland	anna.wyrwicka@biol.uni.lodz.pl



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Name	Affiliation	Email Address
Z		
Carmen Zaharia	'Gheorghe Asachi" Technical University of Iasi, Romania	czah@ch.tuiasi.ro
Giulio Zanaroli	University of Bologna, Italy	giulio.zanaroli@unibo.it
Sara Zanni	University of Bologna, Italy	sara.zanni7@unibo.it



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