

**8<sup>th</sup> INTERNATIONAL CONFERENCE ON  
ENVIRONMENTAL ENGINEERING  
AND MANAGEMENT**

**CONFERENCE PROGRAM**



**September 9 – 12, 2015**

**Iasi, ROMANIA**



# 8<sup>th</sup> INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING AND MANAGEMENT

9 - 12 SEPTEMBER 2015, IASI - ROMANIA

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## ORGANIZERS

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

***Department of Environmental Engineering and  
Management***

**Faculty of Chemical Engineering and  
Environmental Protection**



## PARTNERS

**European Federation of Biotechnology  
Environmental Biotechnology Section**



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

**InterMEDIU Information, Consultancy and ODL Centre,  
TUIASI, Romania**



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## Conference Chairperson

**Prof.dr., dr.h.c. Carmen Teodosiu**  
"Gheorghe Asachi" Technical University of Iasi, Romania

## International Scientific Committee

<b>Prof.dr, dr.h.c. Maria Madalena dos Santos Alves</b> <i>University of Minho, Portugal</i>	<b>Prof.dr. Ion Giurma</b> <i>Technical University of Iasi, Romania</i>
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<b>Prof.dr., dr.h.c. Adisa Azapagic</b> <i>The University of Manchester, UK</i>	<b>Prof.dr. Ovidiu Gabriel Iancu</b> <i>Al.I.Cuza University Iasi, Romania</i>
<b>Prof.dr. Hans Bressers</b> <i>University of Twente, The Netherlands</i>	<b>Prof.dr., dr.h.c. Michael Jørgensen</b> <i>Aalborg University, Denmark</i>
<b>Prof.dr. Han Brezet</b> <i>Delft University of Technology, The Netherlands</i>	<b>Prof.dr. Nikolas Kalogerakis</b> <i>Technical University of Crete, Greece</i>
<b>Prof.dr. Dan Cascaval</b> <i>Technical University of Iasi, Romania</i>	<b>Prof.dr. Emmanuel G. Koukios</b> <i>National Technical University of Athens, Greece</i>
<b>Prof.dr. Francesc Castells Piqué</b> <i>University of Rovira i Virgili Tarragona, Spain</i>	<b>Prof.dr. Gabriel Lazar</b> <i>Vasile Alecsandri University of Bacau, Romania</i>
<b>Prof.dr., dr.h.c. Yusuf Chisti</b> <i>Massey University, New Zealand</i>	<b>Prof.dr., dr.h.c. Thomas Lindhqvist</b> <i>IIIEE, Lund University, Sweden</i>
<b>Prof. dr. Philippe Corvini</b> <i>University of Applied Sciences and Arts Northwestern, Switzerland</i>	<b>Prof.dr. Florica Manea</b> <i>Politehnica University Timisoara, Romania</i>
<b>Prof.dr. Cristina Costache</b> <i>Politehnica University, Bucharest, Romania</i>	<b>Prof.dr. Antonio Marzocchella</b> <i>University Federico II, Naples, Italy</i>
<b>Prof.dr. Igor Cretescu</b> <i>Technical University of Iasi, Romania</i>	<b>Prof.dr. Mircea Nicoara</b> <i>Al.I.Cuza University Iasi, Romania</i>
<b>Prof.dr. Camelia Draghici</b> <i>Transilvania University of Brasov, Romania</i>	<b>Prof.dr. Alexandru Ozunu</b> <i>Babeş Bolyai University, Cluj, Romania</i>
<b>Prof.dr., dr.h.c. Fabio Fava</b> <i>Alma Mater Studiorum-University of Bologna, Bologna, Italy</i>	<b>Prof.dr. Carmen Postolache</b> <i>University Politehnica of Bucharest, Romania</i>
<b>Prof.dr. Sorin Filipescu</b> <i>Babeş Bolyai University, Cluj Napoca, Romania</i>	<b>Prof.dr., dr.h.c. Ákos Rédey</b> <i>Pannonia University, Veszprem, Hungary</i>
<b>Prof.dr., dr.h.c. Anton Friedl</b> <i>Viena University of Technology, Austria</i>	<b>Prof.dr., dr.h.c. Wilhelm Schabel</b> <i>Karlsruhe Institute of Technology, Germany</i>
<b>Prof.dr. Maria Gavrilescu</b> <i>Technical University of Iasi, Romania</i>	<b>Acad.prof.dr. Bogdan Simionescu</b> <i>Technical University of Iasi, Romania</i>

## Conference Secretariat

<b>Dr. George Barjoveanu</b>	<b>Dr. Brindusa Robu</b>
<b>Dr. Adela Buburuzan</b>	<b>Dr. Daniela Gavrilescu</b>
<b>Dr. Catalin Balan</b>	<b>Dr. Camelia Smaranda</b>
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**Drd. Irina Morosanu**

**Drd. Diana Comanita**

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## GENERAL INFORMATION

### About the “Gheorghe Asachi” Technical University of Iasi

The “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) and 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, with a total of 478 doctoral students co-ordinated by 78 doctoral Ph.D. supervisors. TUIASI participated in the last 3 years as coordinator or partner in several structural funded programs such as: 38 POSDRU projects (doctoral, post-doctoral, improvement of B.Sc. or M.Sc. curricula, etc), 5 POSCCE projects and 1 POR project.

TUIASI has an important research dimension, with 23 accredited research/excellence centers and laboratories (out of which 1 laboratory accredited by RENAR) focused on creating and transferring knowledge, especially in multi-disciplinary high-tech engineering areas. These centers/laboratories activate within national & international research grants or contracts with industry and governmental organizations, their activities and results placing TUIASI in the Romanian top of scientific research.

The activity in the area of scientific research, innovation and technology transfer in multi- and trans-disciplinary fields in the last three years (2012-2014) was materialized in: 110 research grants as coordinator and 42 grants as partner, won by national competitions, 37 grants won by international competitions, 154 research contracts realized on the basis of industrial requests and contracts. All these research activities were made visible through the publication of more than 1740 papers in ISI ranked journals, 1211 papers published in journals indexed in international databases (BDI), 494 books and books chapters published at international and national level, 36 awarded patents (OSIM) and 142 requests for patents.

Dissemination of research results is supported also by the means of the TUIASI international journals: *Environmental Engineering and Management Journal* (ISI Impact Factor 1.258), and the *Bulletin of the Polytechnic Institute of Iasi*, a publication with 10 specialized sections. Also, TUIASI provides administrative support, human resources, research infrastructure, the informational basis of the university's Library, consulting and monitoring needed to adequately develop and implement all the scientific research projects.

### Address and Conference Venue

All ICEEM 08 sessions will take place at the “Gheorghe Asachi” Technical University of Iasi. The key note lectures and the parallel sessions will take place in the Faculty of Chemical Engineering and Environmental Protection. Please check this program for information on the exact locations of events.



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**Faculty of Chemical Engineering and Environmental Protection (FCEEP), 73 Prof.Dr.D. Mangeron Street, 700050 Iasi, Romania.**

## **Registration and Conference Desk**

The ICEEM08 registration will take place on **Wednesday, 9 September from 16:30 to 19:30** and on **Thursday 10 September from 8.00 to 9.00** at the **Faculty of Chemical Engineering and Environmental Protection, Orizont Hall (Ground Floor)**. All participants are invited to register and collect the conference materials at the conference desks.

## **Oral Presentations**

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

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 ICEEM08 for the duration of each poster session, as presented in this conference programme, on the panels mounted in the Hall of the Faculty of Chemical Engineering and Environmental Protection.

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 no later than Friday afternoon (11.09.2015), by 16:00 h.**

## **Coffee Breaks, Lunches**

Coffee Breaks and Lunches are included in the conference fee. Coffee Breaks and Lunches will take place in the Hall of the Faculty of Chemical Engineering and Environmental Protection.

## **Conference events:**



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**Cocktail** – Thursday 10 September 2015, 19:00

**Magnum Ballroom Hall**  
INTERNATIONAL HOTEL  
-1 Floor  
5A Palat Street, Iasi,  
700028 Iasi

**Gala Dinner** – Friday, 11 September 2015, 19:00

**Chopin Ballroom Hall**  
PALAS, Iasi,  
Second Floor  
7A Palas Street,  
700028 Iasi

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 ICEEM08 materials at the conference desk. Further details will be available at the conference desk.






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## CONFERENCE PROGRAM

### Wednesday, 9 September 2015

Time	Location
16:00-19:30	<b>Registration</b> , Orizont Hall, Ground floor, Faculty of Chemical Engineering and Environmental Protection (FCEEP)


### Thursday, 10 September 2015

Time	<b>VENUE: FACULTY OF CHEMICAL ENGINEERING AND ENVIRONMENTAL PROTECTION (FCEEP)</b>		
8:00-9:00	<b>Registration</b> , Orizont Hall, Ground floor		
9:00-9:30	<b>Opening Ceremony</b> , <i>Ilie Matei</i> Amphitheatre (CHII), 1 <sup>st</sup> Floor		
9:30-10:00	<b>Plenary conference 1</b> , <i>Ilie Matei</i> Amphitheatre (CHII), 1 <sup>st</sup> Floor		
10:00-10:30	<b>Plenary conference 2</b> , <i>Ilie Matei</i> Amphitheatre (CHII), 1 <sup>st</sup> Floor		
10:30-11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP		
11:00-11:30	<b>Plenary conference 3</b> , <i>Ilie Matei</i> Amphitheatre (CHII), 1 <sup>st</sup> Floor		
11:30-12:00	<b>Plenary conference 4</b> , <i>Ilie Matei</i> Amphitheatre (CHII), 1 <sup>st</sup> Floor		
12:00-12:30	<b>Plenary conference 5</b> , <i>Ilie Matei</i> Amphitheatre (CHII), 1 <sup>st</sup> Floor		
12:30-13:30	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP		
	<b>CH III Room</b>	<b>CH IV Room</b>	<b>Council Hall</b>
13:30- 15:30	<b>Parallel Session 1.1</b> Water and wastewater treatment and management	<b>Parallel Session 2.1</b> Environmental management and sustainability assessments	<b>Parallel Session 3.1</b> Environmental Biotechnology and Bio-economy  EUROPEAN FEDERATION OF BIOTECHNOLOGY
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP		
16:00-17:30	<b>Parallel Session 1.2</b>	<b>Parallel Session 2.2</b>	<b>Parallel Session 3.2</b> EFB – EB Meeting



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	<b>Environmental pollution and monitoring</b>	<b>Environmental management and sustainability assessments</b>	 <b>EUROPEAN FEDERATION OF BIOTECHNOLOGY</b>
19:00	<b>Cocktail</b> International Hotel, Magnum Ballroom		

## Friday, 11 September 2015

Time	VENUE: FACULTY OF CHEMICAL ENGINEERING AND ENVIRONMENTAL PROTECTION (FCEEP)		
9:00-9:30	<b>Plenary conference 6, Ilie Matei Amphitheatre (CHII), 1<sup>st</sup> Floor</b>		
9:30-10:00	<b>Plenary conference 7, Ilie Matei Amphitheatre (CHII), 1<sup>st</sup> Floor</b>		
10:00-10:30	<b>Plenary conference 8, Ilie Matei Amphitheatre (CHII), 1<sup>st</sup> Floor</b>		
10:30-11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP		
	<b>CH III Room</b>	<b>CH IV Room</b>	<b>Council Hall</b>
11:00-12:30	<b>Parallel Session 1.3 Water and Wastewater Treatment and Management</b>	<b>Parallel Session 2.3 Environmental Pollution and Monitoring</b>	<b>Parallel Session 3.3 Sustainable Production and Consumption</b>
12:30 – 13:30	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP		
13:30-15:30	<b>Parallel Session 1.4 Air Pollution, Prevention and Treatment</b>	<b>Parallel Session 2.4 Environmental Pollution and Monitoring</b>	<b>Parallel Session 3.4 Waste Management for Resources and Energy Recovery</b>
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP		
16:00-16:30	<b>ICEEM08 Closing Ceremony</b>		
19:00	<b>Conference Dinner</b> Chopin Ballroom, Palas Mall		



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## Saturday, 12 September 2015

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Regiosim Workshop
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Laboratory visits
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## DETAILED CONFERENCE PROGRAM

### Wednesday, 9 September 2015

Time	
16:00-19:30	<b>Registration</b> , Orizont Hall, Ground floor, Faculty of Chemical Engineering and Environmental Protection (FCEEP)

### Thursday, 10 September 2015

Time	
8:00-9:00	<b>Registration</b> , Orizont Hall, Ground floor, Faculty of Chemical Engineering and Environmental Protection (FCEEP)

## Opening Ceremony and Plenary Sessions

**Thursday 10.09.2015, 9:00 – 12:30, FCEEP, Ilie Matei Amphitheatre (CH II)**

Time	Activity
	<b>OPENING CEREMONY</b>
	<b>Prof.dr. Carmen Teodosiu</b> Vice Rector of Research, <i>Gheorghe Asachi</i> Technical University of Iasi, ICEEM08 Chairperson
	<b>HE eng. Gratiela Gavrilescu</b> Minister of the Environment, Waters and Forests Ministry
9:00-9:30	<b>Acad. Prof. dr. Bogdan C. Simionescu</b> Vice-president of the Romanian Academy
	<b>Prof.dr. Dan Cascaval</b> Dean of the Faculty of Chemical Engineering and Environmental Protection, TUIASI
	<b>Prof.dr. Phillippe Corvini</b> Chair of the Environmental Section of the European Federation of Biotechnology
	<b>PLENARY SESSION 1</b>
	<b>Chairperson: Prof.dr. Carmen Teodosiu</b>
9:30-10:00	Sustainable Production and Consumption: Sustainability Issues in the Energy-Food-Water Nexus <b>Prof.dr. Adisa Azapagic,</b> The University of Manchester, United Kingdom
10:00-10:30	Reclamation of Urban Wastewater for Industrial Use: A LCA Case Study <b>Prof.dr. Francesc Castells</b> Universita Rovira I Virgili, Spain
10:30-11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP
	<b>PLENARY SESSION 2</b>
	<b>Chairperson: Prof.dr. Anton Friedl</b>



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11:00-11:30	25 years of Extended Producer Responsibility – What Is It Today and Where Are We Heading?	<b>Prof.dr. Thomas Lindhqvist</b> , IIIEE, Lund University, Sweden
11:30-12:00	<i>Minotaurus</i> – An European Initiative on the Application of Environmental Biotechnology for Groundwater and Sewage Treatment	<b>Prof.dr. Philippe Corvini</b> University of Applied Sciences and Arts, Northwestern, Switzerland
12:00-12:30	Designing an Integrated Technological Platform to Recover Organic Waste and Obtain Multiple Bioproducts – What Could Be Learned from the Concept of “Circular Economy”	<b>Prof.dr. Massimo Monteleone</b> University of Foggia, Italy
12:30-13:30	<b>Lunch and Posters Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.1: Water and Wastewater Treatment and Management

Thursday 10.09.2015, 13:30 – 15:30, FCEEP, CH III Room

Chairpersons: Prof.dr. Sébastien Royer & Assoc.prof.dr. Cezar Catrinescu

Time	Title	Authors
13:30-13:45	Self-Assemblies of Nanoparticles of Fe <sub>2</sub> O <sub>3</sub> /Layered Double Hydroxides as Efficient Photocatalysts for the Selective Photoreduction of CO <sub>2</sub> to CO	Ken-Ichi Katsumata, Kei Ikeda, Anca Mocanu, Gabriela Carja
13:45-14:00	The Effect of Toda as Stabilizer on Nanostructured TiO <sub>2</sub> Inks	Cristina Bogatu, Dana Perniu, Anca Duta
14:00-14:15	Synthesis, Characterization and Functionalization of MCM-41 for Removal of Organic Compounds from Wastewaters	Cristina Orbeci, Rodica Stanescu, Viorica Parvulescu, Daniela Negoescu
14:15-14:30	Modeling of COD and Ammonia Removal in a Photobioreactor Treating Saline Wastewater Using Bacterial – Microalgae Consortia	Margarita Petoussi, Panagiota Babatsouli, Nikos Paranychianakis, Nicolas Kalogerakis
14:30-14:45	DSA Electrodes for Pharmaceutical Wastewater Treatment by Advanced Oxidation Processes	Monica Ihos, Florica Manea, Aniela Pop, Carmen Lazau, Rodica Pode
14:45-15:00	New Mesoporous Titanium Oxide-Based Photoactive Materials for Organic Wastewaters Treatment	Doina Lutic, Vasilica-Ancuta Simion, Cristina-Giorgiana Coromelci, Constantin Luca, Igor Cretescu
15:00-15:15	Surface Chemistry Characterization of Thermally Treated Red Mud	Ákos Rédey, Jozsef Kovacs, Tatjana Juzsakova, Cuong Le Phuoc, Cezar Marcu, Laszlo Diossy, Istvan Raduly



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15:15-15:30	Optimization of Dairy Wastewater Treatment Using Microalgae-Activated Sludge System	Olga Tiron, Costel Bumbac, Ion Viorel Patroescu, Nicolae Ionut Cristea, Carmen Postolache
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

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## Parallel Session 1.2: Environmental Pollution and Monitoring

Thursday 10.09.2015, 16:00 – 17:30, FCEEP, CH III Room

Chairpersons: Prof.dr. Ákos Rédey & Prof.dr. Dan Gavrilescu

Time	Title	Authors
16:00-16:15	The Environmental Impact of Water Vapor Treatment on Properties of Powder Materials	Florentina Potecasu, Mihaela Marin, Octavian Potecasu, Gina Istrate
16:15-16:30	Assessment of Electrocoagulation Process Application in Arsenic Removal from Drinking Water	Aniela Pop, Anamaria Baciú, Gyongyke Wanko, Katalin Bodor, Ilie Vlaicu, Florica Manea
16:30-16:45	Synthesis of Well-Defined Pt Nanoparticles with Controlled Morphology in the Presence of New Types of Thermosensitive Polymers	Mariana Scurtu, Cornel Munteanu, Mircea Teodorescu, Ioan Balint, Anca Vasile
16:45-17:00	Mobile Data Acquisition System for Road Inspection	Bogdan Cramariuc, Lucia Rusu
17:00-17:15	Estimation of Volatile Organic Compounds from Road Traffic and their Risk to Human Health in an Urban Area	Mihaela Rosca, Raluca Maria Hlihor, Elena Diana Comanita, Isabela Maria Simion, Cristina Ghinea, Maria Gavrilescu
17:15-17:30	Researches on NO <sub>x</sub> Emissions at Startup of the Gas Turbine - Afterburner Assembly	Ene Barbu, Mihaiella Cretu, Victoria Teleaba, Valeriu Vilag, Jeni Popescu

## Parallel Session 2.1: Environmental Management and Sustainability Assessments

Thursday 10.09.2015, 13:30 – 15:30, FCEEP, CH IV Room

Chairpersons: Prof.dr. Francesc Castells & Assoc.prof.dr. Brindusa Robu

Time	Presentation	Authors
13:30-13:45	Ecosystem Service Assessment in Braila Islands Long-Term Socio-Ecological Research Site	Constantin Cazacu, Cristian Mihai Adamescu, Georgia Lavinia Cosor, Relu Constantin Giuca, Tudor Racoviceanu, Angheluta Vadineanu
13:45-14:00	Adoption of Solar Water Heating Systems: An Exploratory Analysis of Relevant Stakeholders in the Lebanese Renewable Energy Market	Houda El Mustapha, Thomas Hoppe, Hans Bressers
14:00-14:15	Forty Years of Surface Water Policy: A Longitudinal Assessment of Effectiveness and Efficiency in Waste Water Policy and Implications for Contemporary Issues	Hans Bressers, Kris Lulofs



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14:15-14:30	The Environmental Rating of Sun Shades for Office Buildings in Israel: Evaluating Operational Energy Use with Photovoltaic Systems via Eco-Indicator 99	Svetlana Pushkar, Oleg Verbitsky
14:30-14:45	Flood Management in Jijia River Basin	Aurelian Florentin Draghia, Radu Mircea Damian, Radu Drobot
14:45-15:00	Eco-Design of Nappies: Development of Alternative Bonding Techniques to Reduce the Use of Energy and Glue	S.A. Popa, J.M. Mendoza, F. D'Aponte, D. Gualtieri, A. Azapagic
15:00-15:15	Comparative Risk Analysis of Ammonium Nitrate Explosions using Different TNT Equivalents	Zoltan Torok, Alexandru Ozunu
15:15-15:30	Environmental Security - Part of National Security Strategy	Francisc Toba
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 2.2: Environmental Management and Sustainability Assessments

Thursday 10.09.2015, 16:00 – 17:15, FCEEP, CH IV Room

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

Time	Presentation	Authors
16:00-16:15	Circular Economy and the Governance of Innovation: "Golddigging by Sewage Mining?"	Kris Lulofs, Hans Bressers
16:15-16:30	e-LAC Project: Pro-active Operation of Cascade Reservoirs in Extreme Conditions (Floods and Droughts) using a Comprehensive Decision Support Systems (CDSS). Case Study: Jijia Catchment	Paul Serban Agachi, Alexandra Csavdari, Radu Drobot, Mary-Jeanne Adler, Marius Matreata, Ciprian Corbus, Marius Rata, Ioana Stoian, Tudor Blidaru
16:30-16:45	Life Cycle Assessment and Life Cycle Cost of a Nearly Zero Energy Residential Building	Iosif Boros, Cristina Tanasa, Valeriu Stoian, Daniel Dan
16:45-17:00	The Influences of the Climate Changes on Insurance/Reinsurance Industry	Ryan Savitz, Marius Dan Gavriletea
17:00-17:15	Economic Size of Farms and Sustainable Value in Romania	Camelia Burja, Vasile Burja

## Parallel Session 3.1: Environmental Biotechnology and Bio-economy



Thursday 10.09.2015, 13:30 – 15:30, FCEEP, Council Hall





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**Chairpersons: Prof.dr. Fabio Fava & Prof.dr. Phillipe Corvini**

Time	Presentation	Authors
13:30-13:45	Renewable Feedstocks for Biobutanol Production by Fermentation	Alessandra Procentese, Francesca Raganati, Giuseppe Olivieri, Marco De La Feld, Antonio Marzocchella
13:45-14:00	Multi-Purpose Biorefinery of Agro-Industrial Wastes: Valorization of Olive Mill Wastewaters, Cheese Whey and Grape Pomaces for the Production and Recovery of Polyphenols, Volatile Fatty Acids and Polyhydroxyalkanoates	Gonzalo Martinez, Joana Domingos, Stefano Rebecchi, Lorenzo Bertin, Fabio Fava
14:00-14:15	Bioremediation of Radioactivity in Contaminated Environmental Media	Sara Zanni, Alessandra Bonoli
14:15-14:30	Biotechnology as Tool for Sustainability in Textile Field	Michaela Dina Stanescu
14:30-14:45	Cu <sup>2+</sup> and Zn <sup>2+</sup> Activated Natural Sorbents and Their Antimicrobial Activity	Maja Đolić, Vladana Rajakovic-Ognjanovic, Branislava Jovanovic, Antonije Onjia, Ljubinka Rajakovic
14:45-15:00	Reclamation of Cr Contaminated Soil using <i>Helianthus Annuus L.</i> : Is It Really and Always Efficient in Phytoremediation Practices?	Stefano Castiglione, Francesco Guarino, Claudia Nittolo, Serena Parrella, Angela Cikatelli
15:00-15:15	Management and Environmental Impact of Food Waste from Households in Lithuania	Jolita Kruopiene, Monika Raugevičiūtė, Carl Jensen
15:15-15:30	New Aspects in Biomass Wastes Valorization: Spruce Bark as Plants Growth Regulators	Adina Iulia Talmaciu, Corneliu Tanase, Csilla Iuliana Bara, Irina Volf, Valentin I. Popa
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 3.2: European Federation of Biotechnology – Environmental Biotechnology (EFB – EB) Meeting



Thursday 10.09.2015, 16:00 – 17:30, FCEEP, Council Hall

Chairperson: Prof.dr. Phillipe Corvini

(EFB-EB members and invited persons will participate)



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## Conference event

19:00      **Cocktail**, International Hotel, Magnum Ballroom



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**Friday, 11 September 2015**

## PLENARY SESSION 3

**Friday, 11.09.2015, 9:00 – 10:30, FCEEP, Ilie Matei Amphitheatre (CH II)**

**Chairperson: Prof.dr. Carmen Teodosiu & Prof.dr. Antonio Marzocchella**

Time		
9:00-9:30	The Production of Hydrogen Using Solar Energy	<b>Prof.dr., dr.h.c. Joop Schoonman</b> Delft University of Technology, The Netherlands
9:30-10:00	Lignocellulose Biorefineries – Production of Materials, Chemicals and Energy	<b>Prof.dr., dr.h.c. Anton Friedl</b> Vienna University of Technology, Austria
10:00-10:30	Advances in the Synthesis of Nanocrystalline Perovskites, and Their Properties in Heterogeneous Catalytic Processes	<b>Prof.dr. Sébastien Royer</b> Universite Poitiers, France
10:30-11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.3: Water and Wastewater Treatment and Management

**Friday 11.09.2015, 11:00 – 12:45, FCEEP, CH III Room**

**Chairpersons: Prof.dr. Florica Manea & Prof.dr. Nicolas Kalogerakis**

Time	Presentation	Authors
11:00-11:15	On the Possibility of Using Green Macroalgae Biomass as Sorbent for Antimony from Aqueous Solutions	Gabriela Ungureanu, Sílvia Santos, Bogdan Chelaru, Rui Boaventura, Irina Volf, Cidália Botelho
11:15-11:30	Detection of Fish Canning Industry Wastewater Main Pollution Sources by Cluster Analysis	Raquel O. Cristóvão, Victor M.S. Pinto, Antonio Gonçalves, Ramiro J.E. Martins, Jose M. Loureiro, Rui A.R. Boaventura
11:30-11:45	Simulation of Jijia River Catchment using Efficient Full Dynamic and Diffusive Wave Model	Pham T.Hoa, Mihai L. Mogos-Kirner, Mircea V. Cristea, Csavdari Alexandra, Paul S. Agachi
11:45-12:00	Mitigation of Hazardous Air Pollutant Emissions: Vacuum vs. Conventional Sewer System	Iulia Carmen Ciobotici (Terry), Andreea Cocarcea, Gabriel Lazar
12:00-12:15	Ammonium Adsorption on Exfoliated Graphite Nanoplatelets	Daniela Bogdan, Al-Ogaidi Ahmed Jassim Muklive, Ion Ion, Alina Catrinel Ion



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12:15-12:30	Biosorptive Removal of Nickel(II) Ions from Aqueous Solutions by Hass Avocado ( <i>Persea Americana Mill</i> Var. Hass) Shell, as an Effective and Low-Cost Biosorbent	Gabriela Pineda-Camacho, Diana E. Vázquez-Palma, Eliseo Cristiani-Urbina
12:30-12:45	Hemp to Decontaminate Polymetallic Aqueous Solutions	J. Bugnet, N. Morin-Crini, C. Cosentino, C. Bradu, G. Crini
12:30-13:30	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.4: Air Pollution, Prevention and Treatment

Friday 11.09.2015, 13:30 – 15:15, FCEEP, CH III Room

Chairpersons: Dr. Adela Haleta & Dr. Tatiana Juzshakova

Time	Presentation	Authors
13:30-13:45	Analyzing PM Air Pollution Effects on Human Health with Knowledge based Systems	Mihaela Oprea, Daniel Dunea, Hai-Ying Liu
13:45-14:00	PM Forecasting by using Artificial Neural Networks	Mihaela Oprea, Elia Georgiana Dragomir
14:00-14:15	Case Study on Estimating CO <sub>2</sub> Emissions Generated by School Buses	Marius Kovacs, George Artur Gaman, Emilian Ghicioi, Angelica Calamar, Daniel Pupăzan
14:15-14:30	A Top-Down Approach to Assess PM <sub>2.5</sub> Impact on Respiratory Health in Targoviste City	Daniel Dunea, Stefania Iordache
14:30-14:45	Multi-Criteria Assessment of Coal and Natural Gas Life Cycle for Electricity Production	Cristian Dinca, Adrian Badea
14:45-15:00	Evaluation of Policy Instruments regarding Climate Change Mitigation and Co-Benefits in the Transport Sector of Bandung City, Indonesia	Helmi Gunawan, Thomas Hoppe, Hans Bressers
15:00-15:15	Toluene Degradation by Activated Sludge - Absorption in a Biodegradable Organic Solvent	Imane Bechokra, Annabelle Couvert, Abdeltif Amrane
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 2.3: Environmental Pollution and Monitoring

Friday 11.09.2015, 11:00 – 12:30, FCEEP, CH IV Room

Chairpersons: Prof.dr. Igor Cretescu & Assoc. prof.dr. Iuliana Lazar

Time	Presentation	Authors
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11:00-11:15	Alternative Utilization of Zn(II)-Loaded Algae Biomass to Improve the Quality of Soils	Iulia Simona Badescu, Lacramioara Negrita, Dumitru Bulgariu, Doru Juravle, Constantin Rusu, Laura Bulgariu
11:15-11:30	Surfactant-Enhanced Solubilization and Simultaneous Degradation of Hydrocarbons in Real Soils by Electro-Fenton Treatment	Elvira Bocos, Emilio Rosales, Marta Pazos, M. Ángeles Sanromán, Ciprian Sandu, Marius Popescu, Gabriel Lazar
11:30-11:45	Transfer of Heavy Metals and Gamma Global Radioactivity from Soil to <i>Artemisia Absinthium L.</i>	Mioara (Sandulache) Rachieru, Ioana Stefanescu, Dumitra Raducanu, Maria-Ema Faciu, Azlan Kamari, Adriana Finaru, Marius Stamate, Iuliana Lazar
11:45-12:00	Surface Modeling Distribution of Gamma and Beta Radioactivity for an Old Ash Site Deposit near Bacau, Romania	Florin Popa, Ana Maria Maccsim, Maria-Ema Faciu, Laura Rusai, Ioana Stefanescu, Marius Stamate
12:00-12:15	Impact Assessment of Heavy Metal Pollution on Soil Mite Communities from Zlatna Depression – Transilvania	Minodora Manu, Marilena Onete, Raluca Ioana Bancila, Virgil Iordache
12:15-12:30	Researches Regarding the Reduction of Pesticide Soil Pollution in Vineyards	Andreea Diaconu, Ioan Tenu, Radu Rosca, Petru Carlescu
12:30-13:30	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 2.4: Environmental Pollution and Monitoring

Friday 11.09.2015, 13:30 – 15:30, FCEEP, CH IV Room

Chairpersons: Prof.dr. Camelia Draghici & Prof.dr. Gabriel Lazar

Time	Presentation	Authors
13:30-13:45	River Margins Plant Species Assessment - A Prioory Knowledge for River Engineering. Case Study: Aries River Floodplain (Transylvania)	Marilena Onete, Roxana Ion, Minodora Manu, Larisa Florescu, Virgil Iordache
13:45-14:00	Heavy Metals (Cu, Cd, Ni, Pb, Cr) Pollution Biomonitoring in the Black Sea's Cross-Border Area (Romania-Ukraine) - Integrating the Sentinel Organisms through Environmental Forensic Techniques	Stefan-Adrian Strungaru, Mircea Nicoara, Dragos Micu, Gabriel Plavan
14:00-14:15	Electrochemical Detection of Fluoxetine in Water on Silver Modified Zeolite-Carbon Nanofiber Electrode	Magdalena Ardelean, Florica Manea, Aniela Pop, Rodica Pode, Joop Schoonman
14:15-14:30	Assessment of Groundwater and Surface Water Contamination by Landfill Leachate: A Case Study in Neamt County	Lacramioara Rusu, Mirela Suceveanu, Daniela Suteu, Lidia Favier, Maria Harja



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14:30-14:45	Measurement of Pollution Levels of N-nitroso Compounds of Health Concern in Water Using Ultra-performance Liquid Chromatography-tandem Mass Spectrometry	Yassine Kadmi, Lidia Favier, Andrei Ionut Simion, Mariana Liliana Pacala, Lacramioara Rusu, Dominique Wolbert
14:45-15:00	Water Quality in Danube Delta Lakes: An Assessment Using Aquatic Macroinvertebrates Community	Orhan Ibram, Iuliana Mihaela Tudor, Marian Tudor, Liliana Teodorf, Cristina Despina, Adrian Burada, Dana Odor Seceleanu, Cosmin Spiridon
15:00-15:15	GIS Tehnique used in Assessing Heavy Metals Pollution of a Certain Area	Gabriela Biali, Florian Statescu, Paula Cojocar
15:15-15:30	Simultaneous Voltammetric Detection of Ammonium and Nitrite from Groundwater at Silver-Electrodecorated Carbon Nanotubes Electrode	Anamaria Baciu, Florica Manea, Aniela Pop, Rodica Pode, Joop Schoonman
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 3.3: Sustainable Production and Consumption

Friday 11.09.2015, 11:00 – 12:00, FCEEP, Council Hall

Chairpersons: Prof.dr. Maria Gavrilescu & Prof.dr. Joop Schoonman

Time	Presentation	Authors
11:00-11:15	Contribution of Returned Products Handling Scenarios to Life Cycle Environmental Impacts	Tomasz Nitkiewicz
11:15-11:30	Alumina Matrix with Controlled Morphology for Colored Spectrally Selective Coatings	Luminita Isac, Lavinia Nicoara, Ramona Panait, Dana Perniu, Anca Duta
11:30-11:45	Synthesis of N-Octyl-O-Sulfate Chitosan and Its Potential as Environmental Friendly Medium for Water-Insoluble Pesticide Formulations	Azlan Kamari, Nurul Farhana Ahmad Aljafree, Mohd Sahli Muda, Gabriel Lazar
11:45-12:00	Eco-Innovation, a Business Approach towards Sustainable Products and Services	Aida Szilagyi
12:30-13:30	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 3.4: Waste Management for Resources and Energy Recovery

Friday 11.09.2015, 13:30 – 15:15, FCEEP, Council Hall

Chairpersons: Assoc.prof.dr. Irina Volf & Dr. Daniela Gavrilescu



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Time	Presentation	Authors
13:30-13:45	Techno-Economic Analysis of a Butanol Recovery Process Based on Gas Stripping	L. Salemmé, G. Olivieri, F. Raganati, P. Salatino, A. Marzocchella
13:45-14:00	Industrial Waste – Red Mud as Catalyst for Hydro-Dealkylation	Tatjana Juzsakova, Ákos Rédey, Tamás Fráter, Alexandra Csavdári, István Ráduly, János Lauer
14:00-14:15	The Possibility of Red Mud Neutralization by PVC	Alexandra Csavdari, Tamas Lovasz, Emese Gal, Tatjana Juzsakova
14:15-14:30	The Influence of CaO Addition and Processing Temperature on the Mechanical Properties of Recycled Rubber, Pet and Wood Based Composites	Mihaela Cosnita, Cristina Cazan, Anca Duta
14:30-14:45	An Assessment of Romanian Solid Waste Management System Based on Sustainable Development Indicators	Daniela Cailean (Gavrilescu), Ovidiu Ghiuzan, Carmen Teodosiu
14:45-15:00	The Properties of Wood Briquettes with Hollow Made of Coniferous Wood Waste	Cosmin Spirchez, Aurel Lunguleasa
15:00-15:15	Exhausted Cooking Oil Valorization for Raw Material and Energy Recovery	Alessandra Bonoli, Francesco Lalli, Sara Zanni
15:30-16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Closing Ceremony

Friday 11.09.2015, 16:00 – 16:30, Faculty of Chemical Engineering and Environmental Protection, CH III Room

Time	ICEEM08 CLOSING CEREMONY	
16:00-16:30	<b>Prof.dr. Carmen Teodosiu</b>	Vice Rector of Research, <i>Gheorghe Asachi</i> Technical University of Iasi, ICEEM08 Chairperson, Guest editor for the ICEEM08 Special issue of <i>Process Safety &amp; Environmental Protection</i>
	<b>Prof.dr. Phillippe Corvini</b>	<i>University of Applied Sciences and Arts Northwestern, Switzerland</i> , Guest editor for the ICEEM08 Special issue of <i>New Biotechnology</i>
	<b>Prof.dr. Maria Gavrilescu</b>	<i>Gheorghe Asachi</i> Technical University of Iasi, Editor in Chief, <i>Environmental Engineering and Management Journal</i>
	<b>Prof.dr. Fabio Fava</b>	<i>Alma Mater Studiorum - University of Bologna</i> , Bologna, Italy, Deputy Chair of the Environmental Biotechnology section EFB



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19:00

**Conference Dinner**

Chopin Ballroom, Palas Mall

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## POSTER SESSIONS

Posters may be displayed in the main hall of the Faculty of Chemical Engineering and Environmental Protection. 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 at the end of their respective poster session.

**Thursday, 10 September 2015**

### Section Environmental Pollution and Monitoring

Thursday, 10 September 2015, FCEEP Hall  
Chairperson: Assoc.prof.dr. Laura Bulgariu

Poster Code	Title	Authors
S1P1	Corn Cobs as Biosorbent for Hazardous Pollutants	Nicoleta Mirela Marin, Luana Florentina Pascu, Gabriela Vasile, Ioana Stanculescu, Ovidiu Iordache, Irinel Adriana Badea
S1P2	Research Regarding the Estimated Relationship between Soil Salinity Indices	Maria Catalina Pastia, Florian Statescu, Vasile Lucian Pavel, Laura Bulgariu, Sabina Ioana Cojocar
S1P3	Nanosized Copper Catalysts Supported on Ordered Mesoporous Silica: Synthesis and Application in Hydrogenation Reactions	Irina Mazilu, Carmen Ciotonea, Alexandru Chirieac, Constantin Rudolf, Brindusa Dragoi, Adrian Ungureanu, Sébastien Royer, Emil Dumitriu
S1P4	Polymer-Carbon Dots Composites with pH Sensitive Fluorescent Emission	Cristina Albu, Corneliu Stan, Daniel Sutiman
S1P5	Adaptive Management for the Sustainable Development of Lake Amara	Ofelia Axinte, Irina Volf, Laura Bulgariu



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S1P6	Electro-Kinetic Fenton Applied to The Removal of Model Pollutants in a Low Permeability Clay: Experimental and Numerical Approach	Emilio Rosales, Marta Pazos, M. Ángeles Sanromán, Marius Popescu, Ciprian Sandu, Gabriel Lazar
S1P7	Simultaneous HPLC-ICP-MS Speciation Analysis of Antimony (Sb) and Arsenic (As): Application in Environmental Monitoring	Dana Luminita Sobariu, Maria Gavrilescu, Markus Lenz
S1P8	The Influence of Soil Matrix on Suction Curve and the Hydraulic Characteristics	Florian Statescu, Dorin Cotiusca-Zauca, Vasile Lucian Pavel, Gabriela Biali, Paula Cojocar
S1P9	Research for Ecological Restoration of Wetlands in the Holbina-Dunavat Region, Danube Delta Biosphere Reserve/Romania	Marian Tudor, Iuliana Mihaela Tudor, Orhan Ibram, Liliana Teodor, Cristina Despina, Adrian Burada, Dana Odor Seceleanu, Cosmin Spiridon
S1P10	Method to Determine the Community Noise Annoyance through Questionnaires and Monitoring in Vicinity of Iasi Airport	Adina Cristina Toma, Luminita Ioana Dragasanu, Marius Deaconu, Truls Gjestland, Dan Tofan
S1P11	Assessment of Transport and Mobility of the Organic Pollutants in Soil	Camelia Smaranda, Maria-Cristina Popescu, Dumitru Bulgariu, Teodor Malutan, Maria Gavrilescu
S1P12	Potentially Toxic Elements in Urban Soils: A Case Study from Iasi, Romania	Cristian Vasilica Secu, Iuliana Gabriela Breaban, Doru Toader Juravle, Madalina Paiu, Dan Cristian Lesenciuc, Costica Mihai, Kalliopi Ntanou, Teodora Koos-Morar, Ioan Manuel Ciomasu
S1P13	Occurrence of 18 Pharmaceuticals in Danube River and Three Major Tributaries from Romania	Jana Petre, Toma Galaon, Vasile Ion Iancu, Elena Stanescu
S1P14	Geochemical Distribution of Mobile Forms of Minor Elements in the Top Stratum of an Abandoned Waste Mine Dump from Giumalau Mts., Romania	Madalina Paiu, Ovidiu Gabriel Iancu, Iuliana Gabriela Breaban
S1P15	An Experimental Model for Phenols Removal from Wastewater	Violeta Niculescu, Ramona Zgavarogea, Ramona Ene, Iosif Tempea, Viorica Parvulescu
S1P16	Ecological State of the Main Rivers from Siret Hydrographic Basin, Romania	Roxana Nechifor, Maria-Ema Faciu, Roxana Tincu, Irina Ifrim, Camelia Ureche, Iuliana Lazar
S1P17	Pollution Prognosis in the Area of the Industrial Waste	Mihail Luca, Razvan-Paul Balan, Anca Balan, Nicolae Marcoie



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S1P18	Heavy Metals Accumulation and Distribution from Sediments to <i>Phragmites Australis</i> and <i>Typha Angustifolia</i> , in Predeltaic Area of Danube Delta	Liliana Teodorof, Adrian Burada, Daniela Seceleanu Odor, Cristina Despina, Mihaela Tudor, Orhan Ibram, Marian Tudor
S1P19	Weather Risk Phenomena Produced in Moldova Region in 2013 Early Summer Season	Georgiana Lacatusu, Marinela Dragomir, Maria-Ema Faciu



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## Section Water Supply and Wastewater Treatment

Thursday, 10 September 2015, FCEEP Hall

Chairperson: Dr. Aniela Pop & Dr. Petru Apopei

Poster Code	Title	Authors
S2P1	Chestnut Shells a Low-Cost Adsorbent for Pesticides Removal	Marta Cobas, Jessica Meijide, Emilio Rosales, M. Ángeles Sanromán, Marta Pazos
S2P2	Optimization of Potato Starch Wastewater Bioconversion to Alcohol and Lactic Acid	Moza Maria Iasmina, Monica Mironescu
S2P3	Catalytic Wet Hydrogen Peroxide Oxidation of 2,4-dichlorophenol from Wastewaters over Romanian Montmorillonite Based-Catalysts	Daniela Arsene (Fighir), Cezar Catrinescu, Andreea Chelba, Carmen Teodosiu
S2P4	Development of Versatile Water Quality Index for Water Supply Applications	Ioana Dascalescu, Florina Ungureanu, George Barjoveanu, Marius Minea, Carmen Teodosiu
S2P5	Hardness Removal from Drinking Water by Crystal-Right CR100 Zeolite-Kinetic Model	Liliana Lazar, Bogdan Bandrabur, Carmen Teodosiu
S2P6	Removal of Pb(II) Ions from Aqueous Solutions by Sorption on Rapeseed	Irina Morosanu, Carmen Paduraru, Lavinia Tofan, Carmen Teodosiu
S2P7	Innovative Intake for Sand-less Water Solution for River Management	Andrei Voinea, Lucian Mandrea, Gabriela Oprin, Corina Babutanu
S2P8	Comparative Study of Orange 16 Dye Removal on Activated and Non-Activated Sawdust	Gabriela Nacu, Gabriela Lisa, Mariana Diaconu, Maria Cristina Popescu, Laura Bulgariu
S2P9	Water Consumption Management: Sustainable Company for Sustainable Development. Experience of an International German Company Active in Romania	Marian Sisu, Cezar Scarlat
S2P10	New Solid Phase Extraction (SPE) of Phenol Residues from Environmental Aqueous Samples for High Performance Liquid Chromatography (HPLC) Analysis	Amin Shams, Seyyed Ahmad Mirbagheri, Hadi Shams
S2P11	Aeration Control of Wastewater Treatment Plant	Dan-Aureliu Sbarcea, Amira-Valentina Gogoanta, Dan Niculae Robescu, Diana Robescu, Elena Elisabeta Manea
S2P12	Optimizing Biological Process for an Industrial Wastewater Treatment Plant	Lacramioara Diana Robescu, Elena Elisabeta Manea



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S2P13	An Experimental Investigation on the Performance of a Very Low Head Cross Flow Turbine	Daniela Popescu, Constantin Popescu, Abel Hernandez-Guerrero
S2P14	Titanium Dioxide-Modified Activated Carbon for Advanced Drinking Water Treatment	Corina Orha, Rodica Pode, Florica Manea, Carmen Lazau, Cornelia Bandas
S2P15	Bioremoval of the Azo Dye Acid Red 27 (Amaranth Dye) by <i>Cryptococcus Liquefaciens</i>	Nayda Karina Berber-Villamara, Cesar-Mateo Flores-Ortizb, Janet Jan-Robleroc, Eliseo Cristiani-Urbinaa
S2P16	Copper(II) Adsorption onto Hydroxyapatite	Ana Maria Mateiuc, Gabriela Ciobanu, Ana Simona Barna, Constantin Luca, Forin Al. Luca
S2P17	Cu <sup>2+</sup> Removal from Wastewaters by Using Compost	Ileana Manciulea, Cristina Bogatu, Lucia Dumitrescu, Camelia Draghici, Anca Duta

## Section Environmental Biotechnology

Thursday, 10 September 2015, FCEEP Hall

Chairperson: Dr. Camelia Smaranda

Poster Code	Title	Authors
S4P1	Kinetic Studies on Aerobic Lipids Biodegradation from Olive Mill Wastewaters with <i>Bacillus spp.</i> Cells	Ramona-Mihaela Matran, Alexandra-Cristina Blaga, Alexandra Tucaliuc, Dan Cascaval, Anca-Irina Galaction
S4P2	Rhizobacteria and Plants Symbiosis in Cd(II) Uptake and Its Implications for Soil Bioremediation	Dana Luminita Sobariu, Mariana Diaconu, Lucian Vasile Pavel, Raluca-Maria Hlihor, Markus Lenz, Maria Gavrilescu
S4P3	Anaerobic Biodegradation of Pyridine in a Stationary Basket Bioreactor with Immobilized <i>Bacillus spp.</i> Cells	Anca-Irina Galaction, Marius Alexandru Turnea, Lenuta Kloetzer, Madalina Postaru, Dan Cascaval
S4P4	Immobilization of Laccase of <i>Pycnoporus Sanguineus</i> CS43	Luis Arturo González, Marta Cobas, Emilio Rosales, Magdalena Rostro, Roberto Parra, Marta Pazos, M. Ángeles Sanromán
S4P5	Removal of Pb(II) Ions from Aqueous Media by Biosorption onto Soy Biomass	Daniela Ionela Fertu, Bogdan Istrate, Mihaela Rosca, Laura Bulgariu, Raluca-Maria Hlihor, Maria Gavrilescu



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S4P6	Heavy Metals Tolerance of Some Microorganisms and Plants: Consequences and Potential Applications to Environmental Bioremediation	Mariana Diaconu, Lucian Vasile Pavel, Raluca Maria Hlihor, Dana Luminita Sobariu, Daniela Ionela Tudorache Fertu, Markus Lenz, Maria Gavrilescu
S4P7	Enrichment of Anaerobic Marine Communities with Potential for Synthetic Plastics Biodegradation	Noura Raddadi, Lucia Giacomucci, Michelina Soccio, Nadia Lotti, Fabio Fava
S4P8	Research on the Influence Regulation Works on Habitat Rivers Area Slupsk Poland	Anca Balan, Mihail Luca, Krystian Obolewski, Igor Cretescu

## Section Environmental management and sustainability assessments

Thursday, 10 September 2015, FCEEP Hall

Chairperson: Dr. Simona Popa & Dr. Raluca Hlihor

Poster Code	Title	Authors
S5P1	Wetlands Ecosystem Services Assessment and Valuation – Literature Review	Tudor Racoviceanu, Constantin Cazacu, Mihai Adamescu, Georgia Cosor, Relu Giuca, Sergiu Cristofor
S5P2	Noise Map – Decision Factor For Spatial Sustainable Development In Urban Areas	Anca Maria Moscovici, Oana Grecea
S5P3	Innovative Framework for Sustainability Assessment of Vocational Education and Training Providers	Liviu Moldovan
S5P4	Sustainability Analysis of Romanian Listed Companies under the Influence of Environmental Reporting	Costel Istrate, Leontina Pavaloaia, Ioan-Bogdan Robu, Ionut Viorel Herghiligiu
S5P5	Groundwater Reaction to the Climate Changes in Eastern Romania	Ionut Minea, Adina-Eliza Croitoru
S5P6	An Exploratory Analysis of EMS in order to Improve Its Implementation and Operation Quality through Fractal Design	Ionut Viorel Herghiligiu, Mihaela Luminita Lupu, Gabriel Iatco
S5P7	Biomass Role in Electricity Generation. A Comparative Study Based on the Data from Poland and Romania	Grabara Janusz, Kot Sebastian, Robu Brindusa, Igor Cretescu
S5P8	Environmental Care for Romanian Oil Paintings. Technical Examination of Degradation Phenomena in Canvas Textiles	Maria Geba, Teodor Malutan, Corina Malutan, Lacramioara Stratulat, Daniela Salajan, Minola Iutis, Valentina Drutu, Lenuta Chirita
S5P9	Environmental Taxes in Romania after EU Integration - Comparative Assessment	Nicolae Bobitan, Diana Dumitrescu, Carmen Luiza Costuleanu



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S5P10	Risk Management Model for Road Maintenance Projects	Oana Dines, Dan Benta, Lucia Rusu
S5P11	Humprod Model for Avoiding Romanian Agricultural Collapse, Generated by the Destruction of Humus as a Natural Resource	Mihai Berca, Valentina-Ofelia Robescu, Roxana Horoias, Gabriel Croitoru
S5P12	Consumer Views on the Future Trend for Organic Food Production and Acquisition in Conjunction with Environmental and Development. Case Study: Sibiu	Bardasuc Leila, Domnica Monica Delia, Udrea Marcel Nicusor, Ioana Talmacean
S5P13	Technical Solutions of using Available Wave Energy which Have as an Effect the Active Protection of Shores	Gabriela (Kulava) Lungescu, Viorel Serban
S5P14	Postclosure Influence of Emissions Resulted from Municipal Waste Deposit: Case Study North-Eastern Region of Romania	Brindusa Mihaela Robu, Ana Maria Schiopu, Catalin Balan, Marian Pruteanu, Ion Apostol
S5P15	Determination of Coastal Area Suitability for Developing the Aquaculture Farming using Fuzzy Multi-Criteria Decision Making Model- A Case Study in South of Iran (Coastal Area of Oman Sea)	Vahid Hadipour, Freydoon Vafaie, Abouzar Hadipour
S5P16	Remote Sensing Procedure for Assessing and Mapping the Windthrow Vulnerability in Apuseni Mountains	Paula Furtuna, Ionel Haidu, Mircea Alexe, Iulian Holobaca
S5P17	Urban Adaptive Governance of Marginal Social Environments	Mirela Paraschiv, Ioan Ianos, Irina Saghin, Andrei Schvab

**Friday, 11 September 2015**

## Section Environmental Pollution and Monitoring

**Friday, 11 September 2015, FCEEP Hall**

**Chairperson: Dr. Gabriela Soreanu**

Poster Code	Title	Authors
S1P20	Outdoor Exposure to Ultrafine and Fine Particulate Matter and Associated Heavy Metals in Ploiesti City	Stefania Iordache, Daniel Dunea, Cornel Ianache
S1P21	Cr(VI) Removal from Aqueous Solution by Dead and Living <i>Arthrobacter Viscosus</i> Biomass	Raluca Maria Hlihor, Hugo Figueiredo, Teresa Tavares, Maria Gavrilescu
S1P22	Bioaccumulation and Effects of Aluminium Content in Alleato 80WG Fungicide on Some Lumbricidae Species ( <i>Oligochaeta-Lumbricidae</i> )	Gheorghita Brinzea, Alina Paunescu, Maria Cristina Ponepal, Monica Popescu, Irina Fierascu, Radu Claudiu Fierascu, Alexandru Gabriel Marinescu



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S1P23	Diversity and Spatial Distribution of Zooplankton Communities of Danube Delta Lakes	Larisa Florescu, Laura Parpala, Ioana Enache, Alina Dumitrache, Mirela Moldoveanu, Cristina Sandu
S1P24	Blue-Green Algal Crust as Ecological Indicator of Moist Soils in Rivers Field of Moldavian Plateau with Gilgai Micro-Relief	Feodor Filipov, Eugen Ulea, Florin Daniel Lipsa, Andreea Mihaela Balau, Evelina Cristina Morari
S1P25	Diversity of Soil Bacteria as Indicators of Soils Pollution in Moldavia Region, Romania	Eugen Ulea, Florin Daniel Lipsa, Andreea Mihaela Balau, Feodor Filipov, Evelina Cristina Morari
S1P26	A Review of Recent Research on Sand Dunes Formation	Eugen Dimofte, Florin Popescu, Ion V. Ion
S1P27	Research upon Quantification of the Effect Made by the Extraction of Mineral Aggregates towards the Water Bodies	Paula Cojocaru, Florian Statescu, Gabriela Biali
S1P28	Soil Erosion Evolution in the Woodland of the Siret River Hydrographic Basin since 2010 to 2013	Stelian Cartacuzencu, Alina Coman, Dorel Ureche, Gabriel Lazar
S1P29	Effect of Local Environment on the Catalytic Properties of Bimetallic CuNi Nanoparticles Supported on LDH and Mesoporous Supports	Alexandru Chiriac, Carmen Ciotonea, Brindusa Dragoi, Adrian Ungureanu, Sébastien Royer, Emil Dumitriu
S1P30	Thermal Desorption Installation Parameters Optimization in order to Reduce Gas Emissions in the Environment	Angelica Calamar, George Artur Gaman, Marius Kovacs, Daniel Pupazan
S1P31	Investigations Concern to Establishment Soil and Climatical Restriction of <i>Paulownia Tomentosa</i> Thunb (Steud) Growing and Temperate Continental Areas	Alexandru Dragos Robu, Feodor Filipov, Teodor Robu
S1P32	Some particularities of soil sampling from greenhouses or high plastic tunnels	Feodor Filipov, Esmeralda Chiorescu, Eugen Enculescu
S1P33	Anthropogenic Influence on the Superior Hydrographic Basin of Bistrita River Correlated with the Local Population's Health	Alexandrina Cruceanu, Stefan-Adrian Strungaru, Gabriel Plavan, Liliana Dumitrache, Ionel Muntele
S1P34	Modeling Equilibrium Data for the Cd (II) Sorption by Peat Using Non-Linear Regression Analysis	Catalin Balan, Brindusa Robu, Petru Bulai, Doina Bilba
S1P35	Effects of Conversion from Grassland to Cropland on Nitrogen Biogeochemical Cycle	Andreea Csolti, Florina Botez, Carmen Postolache
S1P36	Water Quality Assessment for the Mountain Region of Eastern Romanian	Andrei Enea, Oana-Elena Hapciuc, Marina Iosub, Ionut Minea, Gheorghe Romanescu
S1P37	Level of Heavy Metals in Fish Tissue with Commercial Value of the Danube Delta Biosphere Reserve	Adrian Burada, Liliana Teodorof, Cristina Despina, Daniela Seceleanu-Odor, Mihaela





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Tudor, Orhan Ibram, Ion  
Navodaru, Marian Tudor

## Section Water Supply and Wastewater Treatment

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Chairperson: Dr. Corina Musteret & Dr. Daniela Fighir

Poster Code	Title	Authors
S2P18	Nanocomposites of Plasmonic Gold/Layered Double Hydroxides with Enhanced Photocatalytic Performances for Phenol Degradations	Elena Florentina Grosu, Ken-Ichi Katsumata, Kei Ikeda, Mihaela Vizitiu Doina Sibiescu, Gabriela Carja
S2P19	Performance Improvement Adsorption using the Organic Solid Support Impregnated with Ionic Liquid in the Removal Process of TI(I) from Aqueous Solutions	Lavinia Lupa, Adriana Popa, Ecaterina Stela Dragan, Mihaela Ciopec, Adina Negrea, Petru Negrea
S2P20	Assessment of Water Quality from Accumulation Stanca-Costesti	Gabriel Vasile Hoha, Ionut Bogdan Pagu, Emanuel Magdici, Catalin Emilian Nistor, Lenuta Pinzariu, Benone Pasarin
S2P21	Microbial Activity in The Bioreactor- Mathematical Modeling	Amira-Valentina Gogoanta, Dan Aureliu Sbarcea, Dan Niculae Robescu
S2P22	Removal of Chlorophenols from Aqueous Effluents by Nanofiltration: Assessment of Operational Parameters	Corina-Petronela Musteret, Carmen Teodosiu
S2P23	Contaminant Transport across the Capillary Fringe	Mihaela Amalia Diminescu, Liana Ioana Vuta, Gabriela Elena Dumitran, Diana Mariana Cocarta, Anca Marina Marinov
S2P24	Low-Cost Sorbents for the Removal of Acid Dyes from Textile and Tannery Wastewater	Igor Cretescu, Tudor Lupascu, Ingrid Buciscanu, Tudorel Balau, Gabriela Soreanu
S2P25	Equilibrium Studies for Crown Ether Impregnated Solid Support Used in the Removal Process of Nd(III), La(III), Sr(II), TI(I), Eu(III)	Corneliu Mircea Davidescu, Andreea Gabor, Adriana Popa, Adina Negrea, Mihaela Ciopec, Lavinia Lupa, Petru Negrea
S2P26	Novel Ni Ferrite/Clay Composite with Possible Applications in the Removal of Methylene Blue from Water	Stefana Cojocaru, Vasy Mykhailovych, Anca Mihaela Dumitrescu, Iuliana Gabriela Breaban, Alexandra Raluca Iordan, Mircea Nicolae Palamaruc



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S2P27	Selective Dissolution of TiO <sub>2</sub> Crystalline Phases: Physical-Chemical Characterization and Photocatalytic Activity	Petru Apopei, Cezar Catrinescu, Carmen Teodosiu
S2P28	Green Macroalgae from the Romanian Coast of Black Sea: Physico-Chemical Characterization and Future Perspectives on their Use as Metal Anions Biosorbents	Catalina Filote, Gabriela Ungureanu, Rui Boaventura, Sílvia Santos, Irina Volf, Cidalia Botelho
S2P29	Water Pollution Status of Siret River in Pascani Town Area due to Different Domestic and Wastewater Treatment Activities (Winter Season)	Carmen Zaharia, Claudia Jufa
S2P30	Decentralized Wastewater Treatment Systems: Efficiency and Its Estimated Impact Against Onsite Natural Water Pollution Status	Carmen Zaharia
S2P31	The Development of the Methods for the Treatment and Purification of the Mine Wastewater Loaded with Toxic Metal Pollutants using Natural Zeolites	Andrei Szollosi-Mota, Constantin Lupu, Maria Prodan, Irina Nalboc
S2P32	Monitoring of Fluoride in Well Water from Dobrogea County	Simona Dobrinas, Viorica Popescu, Alina Soceanu, Luana Zaharia
S2P33	The Variation of Content of Nitrates in Groundwater in the Catchment Area of Geru River, in Galati County	Alina Badila (Simionica)

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## Section Air pollution, Prevention and Treatment

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Chairperson: Dr. Liliana Lazar

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S3P2	Characterization of a Split-channel Rectangular Airlift Reactor for Application in Efficient Decontamination of Gaseous Effluents	Petronela Cozma, Mihaela Rosca, Camelia Smaranda, Raluca Maria Hlihor, Ioan Mamaliga, Maria Gavrilescu
S3P3	Dynamic Equilibrium of Toluene Vapours Adsorption onto Hypercrosslinked Polymeric Resins and Granular Activated Carbon Systems	Adela Buburuzan
S3P4	Modeling of Volatile Organic Compounds Concentrations in Rooms due to Electronic Devices	Catalin Teodosiu, Viorel Ilie, Raluca Teodosiu

## Section Sustainable Production and Consumption

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Chairperson: Dr. Cristina Ghinea

Poster Code	Title	Authors
S6P1	Impact of Tillage Operations for Autumn Wheat Crop Set Up over Some Soil Properties	Ioan Tenu, Radu Rosca, Petru Carlescu, Constantin, Liviu Butnaru
S6P2	Gamma Pre-Irradiation Effects on Natural Dyeing Performances of Proteinic Blended Yarns	Ioana Stanculescu, Laura Chirila, Alina Popescu, Mihalis Cutrubinis
S6P3	Flammability of Vegetal Oils on Hot Surface	Constantin Georgescu, Liviu Catalin Solea, Lorena Deleanu
S6P4	Investigation on Genetic Diversity of <i>Phaseolus Genus</i> in Order To Select The Most Valuable Breeding Resources for Sustainable Production, Clean Environment and Food Security	Creola Brezeanu, Teodor Robu, Petre Marian Brezeanu, Silvica Ambarus
S6P5	The Use of Pozzolan Addition on the Physico-Chemical and Mechanical Properties of Environmental Mortars based on Cement Resistant to Sulfate (CRS)	Belagraa Larbi, Bouzid Abderrazak, Noui Ammar, Rouabah Yacine, Belguendouze Antar



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S6P6	A Possible Distribution of the Nitrogen Compounds during Natural Mineral Waters Disinfection Treatment	Daniela Bogdan, Ion Ion, Alina Catrinel Ion
S6P7	Computing Bright Rooftops for Solar PV Applications in Karachi, Pakistan	Jibran Khan
S6P8	Co/SBA-15 Materials as Chemoselective Catalysts for the Hydrogenation of C=O bond in Unsaturated Aldehydes	Brindusa Dragoi, Alexandru Chirieac, Carmen Ciotonea, Adrian Ungureanu, Sébastien Royer, Emil Dumitriu
S6P9	Corrugated Board - A Sustainable Material for Romanian Packaging Sector	Dan Gavrilescu, Teofil Campean, Florin Grad

## Section Waste management for resources and energy recovery

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Chairperson: Dr. Catalin Balan

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S7P2	Evolutionary Trends Evaluation of Carbon Stocks on Humor Basin in the Last 100 Years	Mihai-Gabriel Balan, Eugen Rusu
S7P3	Romania in front of the European Imperative of Recycling	Eugenia Grecu, Mirela-Ionela Aceleanu, Andreea-Claudia Serban
S7P4	Using Waste Bark Obtaining from Wood Processing as Renewable Fuel	Aurel Lunguleasa, Cosmin Spirchez
S7P5	Forecasting Municipal Solid Waste Generation Using Prognostic Tools and Regression Analysis	Cristina Ghinea, Elena Niculina Dragoi, Elena-Diana Comanita, Silvia Curteanu, Maria Gavrilescu
S7P6	Valorisation of Soy Waste Biomass as Biosorbent for Heavy Metals Removal from the Environment	Daniela Ionela Fertu, Bogdan Istrate, Laura Bulgariu, Dumitru Bulgariu, Maria Gavrilescu
S7P7	Comparative Evaluation of Environmental Impacts for Plastic Production Processes using Life Cycle Assessment (LCA): Petroleum-based polyvinyl chloride (PVC) vs. Biologically-based polyhydroxyalkanoates (PHAs)	Elena-Diana Comanita, Cristina Ghinea, Camelia Smaranda, Lidia Favier, Irina Gostin, Maria Gavrilescu



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## Section Environmental Education

Friday, 11 September 2015, FCEEP Hall

Chairperson: Assoc. prof.dr. Carmen Catalina Ioan

Poster Code	Title	Authors
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S8P2	Environmental Education of Citizens aiming Sustainable Transport in Romania	Gabriela Mitran, Sorin Ilie
S8P3	Effect of Dwellings Placement on Street Canyon Flow: An Educational Perspective	Maria-Ema Faciu, Marius Nadejde, Elena Goldan, Oana Acatrinei, Petronela Bran, Elena Sarghe, Ciprian Sandu, Marius Popescu, Irina Ifrim, Adriana Finaru, Iuliana Lazar
S8P4	SWOT Analysis defining Environmental Engineering Curricula and a Better Alignment with the Labour Market in the North-East Region of Romania	Maria-Ema Faciu, Luminita Lupu, Carmen Teodosiu, Venera Mihaela Cojocariu, Iuliana Caraman, Emilian Mosnegutu, Marius Stamate, Gabriel Lazar
S8P5	The Integration of Robotic Technology into Environmental Education	Gabriela Gladiola Andruseac, Corina Cheptea, Cristian Rotariu, Madalina Postaru, Anca Irina Galaction
S8P6	Study on Competitive Advantage through Innovation and Creativity in Private Universities	Leila Bardasuc, Jose Luis Martinez Rubio, Monica Delia Domnica, Marcel Nicusor Udrea
S8P7	Vocational Dimension of Students' Option for the Environmental Engineering Curricular Area	Carmen Catalina Ioan, Ileana Maria Carcea



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## NOTES



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