

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

## CONFERENCE PROGRAM



**September 18 – 21, 2019**

**Iasi, ROMANIA**



**ICEEM 10**



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

18 - 21 September 2019, Iasi, Romania

## ORGANIZERS:



**“Gheorghe Asachi” Technical University of Iasi, Romania**  
**Department of Environmental Engineering and Management**  
**Faculty of Chemical Engineering and Environmental Protection**

## ICEEM10 Supporting Partners:



**European Federation of Biotechnology**  
**Environmental Biotechnology Section**



**Romanian Academy**

**InterMEDIU** Information, Consultancy and DL Department, TUIASI, Romania  
**OAIMDD** Academic Organization for Environmental Engineering and Sustainable Development, Iasi, Romania

## SPONSORS:



**ROMANIAN MINISTRY OF RESEARCH AND INNOVATION**

ICEEM10 is partially funded by the Romanian Ministry Research and Innovation within the funding for scientific events program.



**ACVO Association of Apavital SA Iasi**



**Delphi Technologies**



**Salubris SA IASI**



**ICEEM 10**



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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> University of Minho, Portugal	<b>Prof.Dr. Maria Gavrilesco</b> "Gheorghe Asachi" Technical University of Iasi, Romania
<b>Prof.Dr. Cecilia Maria Villas Boas de Almeida</b> Universidade Paulista, Brazil	<b>Prof.Dr. Biagio Fernando Giannetti</b> Universidade Paulista, Brazil
<b>Prof.Dr., Dr.h.c. Adisa Azapagic</b> The University of Manchester, United Kingdom	<b>Assoc.Prof.Dr. Sabino de Gisi</b> Politecnico di Bari, Italy
<b>Assoc.Prof.Dr. Amit Bhatnagar</b> University of Eastern Finland, Finland	<b>Prof.Dr. Almudena Hospido</b> University of Santiago de Compostela, Spain
<b>Prof.Dr. Hans Bressers</b> University of Twente, The Netherlands	<b>Prof.Dr. Nicolae Hurduc</b> "Gheorghe Asachi" Technical University of Iasi, Romania
<b>Prof.Dr. Dan Cascaval</b> "Gheorghe Asachi" Technical University of Iasi, Romania	<b>Prof.Dr. Ovidiu Gabriel Iancu</b> "Alexandru Ioan Cuza" University Iasi, Romania
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<b>Prof.Dr., Dr.h.c. Philippe Xavier Corvini</b> University of Applied Sciences and Arts Northwestern, Switzerland	<b>Prof.Dr. Giorgio Mannina</b> University of Palermo, Italy
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<b>Prof.Dr., Dr.h.c. Gheorghe Duca</b> Academy of Sciences, Republic of Moldova	<b>Prof.Dr. Mircea Nicoara</b> "Alexandru Ioan Cuza" University, Iasi, Romania
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<b>Prof.Dr., Dr.h.c. Fabio Fava</b> Alma Mater Studiorum Università di Bologna, Italy	<b>Prof.Dr. Cristian Predescu</b> Politehnica University, Bucharest, Romania
<b>Prof.Dr. Silvia Fiore</b> Politecnico di Torino, Italy	<b>Prof.Dr., Dr.h.c. Ákos Rédey</b> Pannonia University, Veszprem, Hungary
<b>Prof.Dr., Dr.h.c. Anton Friedl</b> Vienna University of Technology, Austria	<b>Prof.Dr. Maria Reis</b> FCT, Universidade NOVA de Lisboa, Portugal





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<b>Prof.Dr. Joan Garcia</b> Universitat Politecnica de Catalunya, Spain	<b>Prof.Dr. Sebastien Royer</b> Université de Lille, France
<b>Prof.Dr. Maria Angeles Sanroman</b> University of Vigo, Spain	<b>Dr. Magdalena Urbaniak</b> University of Lodz, Polish Academy of Sciences
<b>Prof.Dr., Dr.h.c. Wilhelm Schabel</b> Karlsruhe Institute of Technology, Germany	<b>Prof.Dr., Dr.h.c. Angheluta Vadineanu</b> University of Bucharest, Romania
<b>Prof.Dr. Peter Schröder</b> Helmholtz Zentrum München, Germany	<b>Dr.ing. Ilie Vlaicu</b> SC AQUATIM SA Romania
<b>Acad.Prof.Dr., Dr.h.c. Bogdan C. Simionescu</b> "Gheorghe Asachi" Technical University of Iasi, Romanian Academy, Romania	<b>Prof.Dr. Irina Volf</b> "Gheorghe Asachi" Technical University of Iasi, Romania
<b>Assoc.Prof.Dr. Brindusa Sluser</b> "Gheorghe Asachi" Technical University of Iasi, Romania	

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## Conference Secretariat

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Dr. Brindusa Sluser	Dr. George Barjoveanu
Dr. Adela Buburuzan	Dr. Daniela Gavrilescu
Dr. Daniela Fighir	Dr. Corina Musteret
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Dr. Oana Plavan	Drd. Andreea Gherghel

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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 and accredited as institution of national interest in the RTD system. TUIASI develops programs for undergraduate, master, doctoral, postdoctoral studies and scientific research. 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 495 doctoral students.

The university is opened towards the European system of education and research values, joining the European dimensions of engineering education and developing international research collaboration in projects and PhD supervision. At the same time, the university is joining the mobility schemes, the integrated programs of study and quality assurance.

TUIASI has an important research dimension, having 23 accredited research/excellence centers, 1 accredited laboratory and 8 research groups, focused on creation and transfer of knowledge, especially in multi-disciplinary high-tech engineering areas. The overall research activities are carried out in different fields, within national and international grants, research contracts with industry or governmental organizations, their results placing our university in the Romanian top of scientific research, as recognized by the national and international rankings. During the last 5 years, 11 structural funded projects (POSDRU, POSCCE) were directed towards strengthening the research human resources, infrastructure and competitiveness at institutional level.

During the last 5 years, the increased trend has been noted in terms of: published papers in ISI ranked journals/conference proceedings (over 2790), books/books chapters (850) national/international research grants (696), patents (35), joint Pd.D supervision with well-known European universities. All the above activities contribute to the appreciation of our university as a successful research and innovation institution, able to provide proactive relationships with industry and public services, as well as a major contributor to regional and international development.

Dissemination of research results is supported also by the means of the TUIASI international journals: *Environmental Engineering and Management Journal* (ISI Impact Factor 1.186), and the *Bulletin of the Polytechnic Institute of Iasi*, a publication with 10 specialized sections.

### About the Department of Environmental Engineering and Management

The Department of Environmental Engineering and Management (DEEM) is part of the “Cristofor Simionescu” Faculty of Chemical Engineering and Environmental Protection (FICPM) of TUIASI. DEEM has been established under its actual structure in 1990 and it was ranked on the first place at the level of Romanian universities due to its performances in education and research in the field of environmental engineering. In order to ensure an integrative approach and continuous improvement of the education, research and visibility activities this department uses the following entities:

- **Research Center for Environmental Engineering and Impact Assessment (IMEI)**, established in 2000 (<http://erris.gov.ro/Centrul-de-Cercetare-Inginer-2>)
- **Laboratory for Environmental Control and Analysis (LACMED)**, established in 2013, accredited by the Romanian Association for Accreditation (RENAR) according to SR EN ISO/CEI 17025 standard, Certificate LI 1054/18.03.2019 ([www.lacmed.ro](http://www.lacmed.ro) ; <http://erris.gov.ro/www.lacmed.ro>)
- **INTERMEDIU Information and Consultancy Centre** established in 1999, and developed through the MATRA projects financed by the Dutch Ministry of Foreign Affairs.

DEEM includes 5 Professors, 7 Assoc. Professors, 7 Lecturers, 3 assistant professors, 8 Post-doc researchers, 42 Ph.D. students, 5 administrative staff and 16 constant external collaborators in research projects. Out of the staff members of DEEM, there are 5 PhD supervisors in the field of Environmental Engineering.





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The major activities of DEEM are related to:

- Environmental engineering and management studies, at the BSc and MSc level
- Doctoral and post-doc programmes in Environmental Engineering (since 2008 by means of projects with structural funding);
- Multidisciplinary and trans-disciplinary research collaborations at national and international level;
- Cooperation with industry and local/regional authorities;
- Support of environmental education and related trainings;
- Consolidation of human resources & research infrastructure.

The Department of Environmental Engineering and Management has established a strong network of cooperation at different levels:

- At national level, the department members coordinate the environmental engineering network, and have developed very strong cooperation relations in various research and educational projects with universities and research institutes throughout Romania: Politehnica University Bucharest, University of Bucharest, ICECHIM Bucharest, Technical University of Civil Engineering Bucharest, Politehnica University Timisoara, Babes-Bolyai University of Cluj Napoca, "Al.I. Cuza" University, Iasi, "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Transilvania University of Braşov, Ovidius University of Constanta, etc.
- At international level the research cooperation was developed as well, our staff members being involved in research projects, research mobilities, networking activities and visiting professor actions, mainly at international level (with universities/research institutes from: Austria, Spain, The Netherlands, Germany, Italy, Greece, France, United Kingdom, Belgium, Denmark, Poland, Sweden, Finland, Republic of Moldova, USA, Brazil, Canada, etc).

The visibility of the Department of Environmental Engineering and Management (DEEM) is developed mostly through the international cooperation, but also through the following specific activities:

- Organization of the **International Conferences on Environmental Engineering and Management**, ICEEM, an event which occurs every 2 years (since 2002) and has become a landmark for the international environmental scientific community. In 2019, the conference will be at its 10th edition (more information on [www.iceem.ro](http://www.iceem.ro))
- Publication of the **Environmental Engineering and Management Journal** <http://omicron.ch.tuiasi.ro/EEMJ/> (since 2002). EEMJ is an international ISI ranked peer-reviewed journal, with an ISI impact factor of 1.186 (2018).

## Addresses and Conference Venues

All ICEEM 10 sessions will take place at the "**Gheorghe Asachi**" Technical University of Iasi.

The opening ceremony and plenary lectures session will take place at the **Carmen Sylva Aula Magna of TUIASI** ("**Gheorghe Asachi**" Technical University of Iasi, Building A), **Bd. Carol I no. 11 A, Iasi.**

The key note lectures, oral and poster sessions will take place in the **Cristofor Simionescu Faculty of Chemical Engineering and Environmental Protection (FCEEP)**, **73 Prof.Dr.D. Mangeron Street, 700050 Iasi, Romania.**

Please check this program for information on the exact locations and time of the events.

## Registration and Conference Desk

The ICEEM10 registration will take place on **Wednesday, 18 September, 2019 from 13:00 to 15:00h at the Carmen Sylva Aula Magna of TUIASI**, and on **Thursday 19 September, 2019 from 8.00 to 9.00h at the Cristofor Simionescu 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.



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## Oral Presentations

The oral presentations are 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).

Video 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 ICEEM10 for the duration of each poster session, as presented in this conference programme, on the panels mounted in the Hall of the *Cristofor Simionescu* Faculty of Chemical Engineering and Environmental Protection.

Poster panels will be identified with the same number assigned to the presented 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, at the end of the afternoon sessions, until 17h.**

## 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 *Cristofor Simionescu* Faculty of Chemical Engineering and Environmental Protection.

## Conference social events:

**Welcome Cocktail** – Wednesday 18 September 2019, 17:00 – 19:00

**The “Lost steps Hall”**

(next to Carmen Sylva Aula Magna)

“Gheorghe Asachi” Technical University of Iasi

Building A, Bd. Carol I no. 11A Iasi

**Gala Dinner** – Thursday, 19 September 2019, 20:00

**Magnum Ballroom Hall**

Hotel International, Iasi,

5A Palat Street, 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 ICEEM10 materials at the conference desk. Further details will be available at the conference desk.





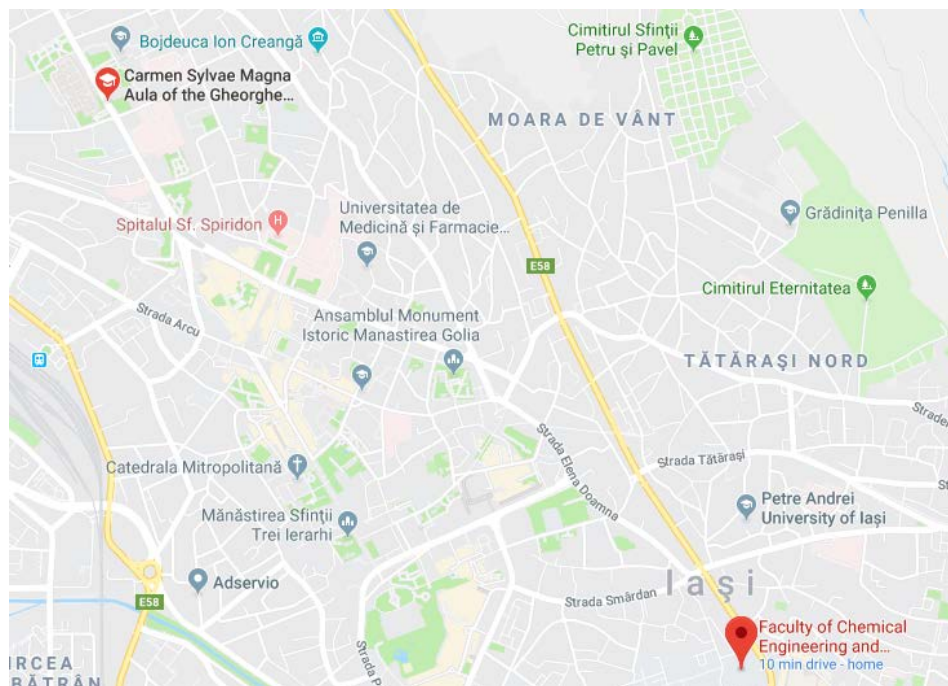
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## Shuttle service:

A shuttle service by minibus will be available for participants as follows:

- on **Wednesday, September 18** at 14:00 from Hotel Ramada to *Carmen Sylva Aula Magna*
- **Thursday, September 19** and **Friday, September 20, 2019** in front of Hotel Ramada at: **8.00h** and **08.30h**, to the *Cristofor Simionescu* Faculty of Chemical Engineering and Environmental Protection.



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## CONFERENCE SHORT PROGRAM

### Wednesday, 18 September 2019

13:00 - 15:00	Registration (Aula TUIASI, Bd. Carol I no. 11 A)
15:00 - 15:30	Opening ceremony & Welcome addresses (Aula TUIASI, Bd. Carol I no. 11 A)
15:30 - 16:00	<b>Plenary Lecture 1:</b> <i>Environmental assessment supporting Cleaner Production</i> Prof.Dr. Cecilia Maria Villas Boas de Almeida
16:00 - 16:30	<b>Plenary Lecture 2:</b> <i>Economic, environmental and processing challenges of battery technologies with a perspective 2030+ for future applications</i> Prof.Dr., Dr.h.c. Wilhelm Schabel
16:30 - 17:00	<b>Plenary Lecture 3:</b> <i>Circular Bioeconomy in Europe: needs and opportunities</i> Prof.Dr., Dr.h.c. Fabio Fava
17:00 - 19:00	Welcome Cocktail (Hall of the Lost Steps, Aula TUIASI, Bd. Carol I no. 11 A)

### Thursday, 19 September 2019

Time			
8:00 - 9:00	Registration, Orizont Hall (Faculty of Chemical Engineering and Environmental Protection - FCEEP)		
9:00 - 10:30	<b>PS 1.1. Environmental biotechnology</b> <b>Council Room</b> <b>Session with Keynote</b> <i>Lecture: Biofuels from Waste Streams: Is it a sustainable strategy?</i> <b>Prof.Dr. Antonio Marzochella</b>	<b>PS 1.2. Monitoring and modelling of environmental pollution</b> <b>CH II Room</b>	<b>PS 1.3. Waste management exploitation for chemical materials and energy</b> <b>CH III Room</b>
10:30 - 11:00	Coffee break / Poster sessions		
11:00 - 12:30	<b>PS 1.4. Novel materials for environmental and energy applications</b> <b>Council Room</b> <b>Session with Keynote</b> <b>Lecture:</b> <i>Nanolignin and possible applications</i> <b>Prof.Dr., Dr.h.c. Anton Friedl</b>	<b>PS 1.5. Water and wastewater cycles: technologies, recycling and valorisation</b> <b>CH II Room</b>	<b>PS 1.6. Sustainability assessments and eco-innovation</b> <b>CH III Room</b> <b>Session with Keynote</b> <b>Lecture:</b> <i>Life cycle assessment applied to wastewater treatment: main achievements and pending issues</i> <b>Dr. Lluís Corominas</b>
12:30 - 12:45	Official Photo session (in front of the <i>Cristofor Simionescu Faculty of Chemical Engineering and Environmental Protection</i> )		
12:45 - 14:00	Lunch / Poster sessions		
14:00 - 15:30	<b>PS 1.7. Monitoring and modelling of environmental pollution</b> <b>CH II Room</b> <b>Session with Keynote</b> <b>Lecture:</b> <i>Redox indicator in the management of the water quality</i> <b>Acad. Prof.Dr. Gheorghe Duca</b>	<b>PS 1.8. Water and wastewater cycles: technologies, recycling and valorisation</b> <b>Council Room</b>	<b>PS 1.9. Waste management and exploitation for chemicals, materials and energy</b> <b>CH III Room</b>



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Time		
15:30 - 16:00	Coffee break / Poster sessions	
16:00 - 16:45	<b>PS 1.10. Environmental education</b> Council Room	<b>PS 1.11. Monitoring and modelling of environmental pollution</b> CH III Room
20:00	Gala Dinner (Magnum Ballroom, INTERNATIONAL Hotel Iasi)	

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## Friday 20 September 2019

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Time		
8:00 - 9:00	Registration Orizont Hall (FCEEP)	
9:00 - 10:30	<b>PS 2.1. Waste management and exploitation for chemicals, materials and energy</b> Council Room <i>Session with Keynote Lecture:</i> <i>Sustainable Waste Electrical and Electronic Equipment Management</i> Prof.Dr., Dr.h.c. Silvia Fiore	<b>PS 2.2. Novel materials for environmental and energy applications</b> CH II Room
10:30 - 11:00	Coffee break / Poster sessions	
11:00 - 12:30	<b>PS 2.3. Water and wastewater cycles: technologies, recycling and valorisation</b> Council Room <i>Session with Keynote Lecture:</i> <i>Eco-innovations to enable transition to circular economy in urban water management</i> Prof.Dr. Francesco Fatone	<b>PS 2.4. Waste management and exploitation for chemicals, materials and energy</b> CH III Room
12:30 - 13:30	Lunch / Poster sessions	
13:30	ICEEM 10 CLOSING CEREMONY, CH II Room	

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## Saturday, 21 September 2019

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Time	
9:00 - 11:00	Workshops and Visits

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## DETAILED CONFERENCE PROGRAM

### Wednesday, 18 September 2019

Location: *Carmen Sylva Aula Magna* ("Gheorghe Asachi" Technical University of Iasi, Building A),  
Bd. Carol I no. 11 A, Iasi

13:00 - 15:00

Registration

#### Opening ceremony & Welcome addresses:

15:00 - 15:30 Prof.Dr. Dan Cascaval Rector of the "Gheorghe Asachi" Technical University of Iasi

Prof.Dr. Carmen Teodosiu ICEEM10 Conference President  
*ICEEM Conferences Overview*

Prof.Dr. Anton Friedl Vienna University of Technology, Austria

#### Plenary lectures session

Chairperson: Prof.Dr. Carmen Teodosiu

15:30 - 16:00 Prof.Dr. Cecilia Maria Villas Boas de Almeida **Plenary Lecture 1:**  
*Environmental assessment supporting Cleaner Production*

16:00 - 16:30 Prof.Dr. Wilhelm Schabel **Plenary Lecture 2:**  
*Economic, environmental and processing challenges of battery technologies with a perspective 2030+ for future applications*

16:30 - 17:00 Prof.Dr. Fabio Fava **Plenary Lecture 3:**  
*Circular Bioeconomy in Europe: needs and opportunities*

17:00 - 19:00 **Welcome Cocktail (Hall of the Lost Steps, Aula TUIASI, Bd. Carol I no. 11 A)**





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## Thursday, 19 September 2019

Location: *Cristofor Simionescu* Faculty of Chemical Engineering and Environmental Protection (FCEEP)

Time	Location
8:00 - 9:00	Registration, Orizont Hall

## Parallel Session 1.1. Environmental biotechnology

Thursday 19.09.2019, 9:00 – 10:30, FCEEP, Council Room

Chairpersons: Prof.Dr. Maria Gavrilesu & Prof.Dr. Phillippe Corvini

Time	Title	Authors
9:00 - 9:30	<b>Keynote Lecture:</b> Biofuels from Waste Streams: is it a sustainable strategy?	<b>Prof.Dr. Antonio Marzochella</b>
9:30 - 9:45	Analysis of metabolic potential of <i>Basfia succiniciproducens</i> for bio-based succinic acid production from renewable resources	Bartos Hunor, Miklóssy Ildikó, Balázs Márta, Bodor Zsolt
9:45 - 10:00	Commercial paraquat biodegradation by a microbial consortium in a horizontal packed-bed biofilm reactor	Davila-Ramos Ana Gloria, Ruiz-Ordaz Nora, Santoyo-Tepole Fortunata, Galíndez-Mayer Cutberto José Juvencio, Quintana-Cano Erika Teresa
10:00 - 10:15	Valorization of a food residue biomass product (FORBI) in a two-stage anaerobic digestion system for the production of hythane under thermophilic conditions	Dimitrios Mathioudakis, Georgios-Marios Lytras, Georgia Giannakopoulou, Konstantina Papadopoulou, Gerasimos Lyberatos
10:15 - 10:30		
10:30 - 11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.2. Monitoring and modelling of environmental pollution

Thursday 19.09.2019, 9:00 – 10:30, CH II Room

Chairpersons: Assoc.Prof.Dr. Brindusa Sluser & Assoc.Prof.Dr. Tatjana Juzsakova

Time	Title	Authors
9:00 - 9:30	A quality assessment tool for water resources management based on classification algorithm and water quality monitoring of Lake Nasser	Florin Leon, Roquia I. Rizk, Mohamed Ali Rawash, Silvia Curteanu, Tatjana Juzsakova, Viktor Sebestyén, Igor Cretescu
9:30 - 9:45	Water quality assessment of Arieş River catchment	Ana Moldovan, Oana Cadar, Maria-Alexandra Hoaghia, Iulia Torok, Marius Roman, Vanda Babalau-Fuss, Gheorghe Hognogi, Valer Micle





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Time	Title	Authors
9:45 - 10:00	The use of zebrafish ( <i>Danio rerio</i> ) model in risk scenarios regarding the toxicological effects of pesticides on fish communities	Stefan-Adrian Strungaru, Mircea Nicoara, Gabriel Plavan, Roxana Strungaru-Jijie
10:00 - 10:15	Assessment of water quality of several private wells from NW of Romania and its suitability for drinking based on water quality index	Carmen Roba, Ramona Bălc, Florina Creța, Denisa Andreica, Adriana Pădurean, Paula Pogăcean, Tudor Chertes, Floris Moldovan, Bogdan Mocan, Cristina Roșu
10:15 - 10:30	Bioaccumulation of heavy metals in turbot tissues from the Romanian Black Sea coast	Ira-Adeline Simionov, Victor Cristea, Stefan-Adrian Strungaru, Stefan-Mihai Petrea, Alina Mogodan, Gabriel Plavan, Emanuel Stefan Baltag, Mircea Nicoara
10:30 - 11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.3. Waste management and exploitation for chemicals, materials and energy

Thursday 19.09.2019, 9:00 – 10:30, CH III Room

Chairpersons: Prof.Dr. Silvia Fiore & Prof.Dr. Irina Volf

Time	Title	Authors
9:00 - 9:30	Fractionation of agricultural waste biomass by means of integrated biorefinery concept	Adrian Cătălin Puițel, Gabriel Dan Suditu, Mircea Nechita Teodor, Dan Gavrilesu
9:30 - 9:45	Extraction techniques as preparative tools for the isolation of scopolamine from <i>Datura innoxia</i> aerial parts	Georgiana Mardare (Balusescu), Valentina Iordan (Constantin), Teodor Malutan
9:45 - 10:00	Production of furanic derivatives from lignocellulosic biomass using deep eutectic solvents	Cornelius Basil Tien Loong Lee, Shen Khang Tnah, Ta Yeong Wu
10:00 - 10:15	A utilization of ultrasonication in aiding valorization of lignocellulosic biomass into bioenergy and bio-based product	Victor Zhenquan Ong, Ta Yeong Wu
10:15 - 10:30	Syngas fermentation: a modelling approach	Giacomo Ruggiero, Francesca Raganati, Maria Elena Russo, Antonio Marzocchella
10:30 - 11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	







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## Parallel Session 1.4. Novel materials for environmental and energy applications

Thursday 19.09.2019, 11:00 – 12:30, FCEEP, Council Room

Chairpersons: Prof.Dr. Wilhelm Schabel & Assoc.Prof.Dr. Adrian Ungureanu

Time	Title	Authors
11:00 - 11:30	<b>Keynote Lecture:</b> Nanolignin and possible applications	<b>Prof.Dr., Dr.h.c. Anton Friedl</b>
11:30 - 11:45	Innovative polymeric materials or composites for priority pollutants removal	Marcela Mihai, Stefania Racovita, Narcisa Marangoci, Silvia Vasiliu, Claudiu-Augustin Ghiorghita, Marius Zaharia, Florin Bucatariu
11:45 - 12:00	Ligand-functionalized polysaccharide-based composites as novel sorbents for removal of heavy metal ions	Maria Marinela Lazar, Ancuta Tapalaga, Ionel Adrian Dinu, Irina Elena Raschip, Victor Gavriluta, Luciana Ghiba, Maria Valentina Dinu
12:00 - 12:15	Nitrates removal from groundwater using nano zerovalent iron supported on anion exchange resin	Oanamari Daniela Orbuleț, Cristina Modrogan, Constantin Bobirică, Dăncilă Madelene, Cristina Orbeci, Liliana Bobirică
12:15 - 12:30	Environmental applications of ozone/air nanobubbles	Petroula Seridou, Nicolas Kalogerakis
12:30 - 12:45	<b>Official Photo Session</b> (in front of the <i>Cristofor Simionescu</i> Faculty of Chemical Engineering and Environmental Protection)	
12:45 - 14:00	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.5. Water and wastewater cycles: technologies, recycling and valorisation

Thursday 19.09.2019, 11:00 – 12:30, FCEEP, CH II Room

Chairpersons: Prof.Dr. Anca Duta & Assoc.Prof.Dr. Sabino de Gisi

Time	Title	Authors
11:00 - 11:15	Polysulfone-doped carbon nanotubes composite membranes for the removal of pharmaceutical effluents	Cristina Tuncel, Andreea Cătălina Iordache, Bianca Maria Bejan, Ștefan Ioan Voicu, Andreea Mădălina Pandeale, Cristina Orbeci, Cristina Modrogan, Annette Madelene Dăncilă
11:15 - 11:30	Adsorption of copper (II) from aqueous solution with alginate/clays beads	Andra Mihaela Predescu, Ecaterina Matei, Maria Râpă, Andreea Turcanu, Claudia Dragan, Cristian Pantilimon, Andrei Berbecaru, Cristian Predescu





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Time	Title	Authors
11:30 - 11:45	Carbon xerogels designed for water desalination	Gabriela Hristea, Andreea Topirlan
11:45 - 12:00	Boron-doped diamond based electrooxidation process for advanced treatment of anticancer drugs-containing waters	Claudia Delcioiu, Anamaria Baci, Sergiu Vasilie, Florica Manea, Rodica Pode
12:00 - 12:15	Lindane degradation by heterogeneous Fenton-like oxidation over iron oxide nanoparticles confined in SBA-15 mesoporous silica	Cezar Catrinescu, Adrian Ungureanu, Irina Mazilu, Carmen Ciotonea, Emil Dumitriu, Sébastien Royer
12:15 - 12:30	Water from domestic softeners: A new disinfection strategy ensures microbiological quality	Luca Bolelli, Elida Nora Ferri, Giuseppe Novelli, Stefano Sangiorgi, Stefano Girotti
<b>Official Photo Session</b>		
12:30 - 12:45	(in front of the Cristofor Simionescu Faculty of Chemical Engineering and Environmental Protection)	
<b>Lunch and Poster Sessions</b>		
12:45 - 14:00	Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.6. Sustainability assessments and eco-innovation

Thursday 19.09.2019, 11:00 – 12:30, FCEEP, CH III Room

Chairpersons: Prof.Dr. Cecilia Maria Villas Boas de Almeida & Dr. George Barjoveanu

Time	Presentation	Authors
11:00 - 11:30	<b>Keynote Lecture:</b> Life cycle assessment applied to wastewater treatment: main achievements and pending issues	<b>Dr. Lluís Corominas</b>
11:30 - 11:45	Clean energy use in African street food enterprises	Nthabi Mohlakoana, Hans Bressers, Jiska de Groot, Abigail Knox
11:45 - 12:00	Positive effects of green tea, vitamin C and E on hepatic and kidney disfunction induced by cadmium	Roquia I. Rizk, Rawash Mohamed Ali, Tatjana Juzsakova, Thamer Abdullah
12:00 - 12:15	Visual LISP library of fuzzy logic functions for developing eco-design expert systems in digital prototyping environments	Ion Antonescu, Dorina Isopescu, Ionel-Ciprian Alecu, Daniel Lepadatu, Iulian Cucos, Liviu Prună, Andrei Slonovschi
12:15 - 12:30	Hydrodynamic conditions in the near of damaged block ramps	Karol Plesiński, Artur Radecki-Pawlik
<b>Official Photo Session</b>		
12:30 - 12:45	(in front of the Cristofor Simionescu Faculty of Chemical Engineering and Environmental Protection)	
<b>Lunch and Poster Sessions</b>		
12:45 - 14:00	Ground floor and 1 <sup>st</sup> floor, FCEEP	





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## Parallel Session 1.7. Monitoring and modelling of environmental pollution

Thursday 19.09.2019, 14:00 – 15:30, FCEEP, CH II Room

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

Time	Title	Authors
14:00 - 14:30	<b>Keynote Lecture:</b> Redox indicator in the management of the water quality	<b>Acad. Prof.Dr., Dr.h.c. Gheorghe Duca</b>
14:30 - 14:45	Electrochemical detection of naphthalene on boron-doped diamond electrode	Aniela Pop, Florica Manea, Anamaria Baci, Claudia Delcioiu
14:45 - 15:00	Electrochemical detection of tetracycline as emergent pollutant in water using CoAl <sub>2</sub> O <sub>4</sub> modified carbon nanofiber-epoxy composite electrode	Sorina-Claudia Negrea, Anamaria Baci, Raluca Voda, Florica Manea
15:30 - 16:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 1.8. Water and wastewater cycles: technologies, recycling and valorisation

Thursday 19.09.2019, 14:00 – 15:30, FCEEP, Council Room

Chairpersons: Dr. Marcela Mihai & Prof.Dr. Francesco Fatone

Time	Title	Authors
14:00 - 14:15	Methylene blue removal from water using TiO <sub>2</sub> , CeO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> nanoparticles modified MWCNTs	Rashed Taleb Rasheed, Thamer Adnan Abdullah, Ali Dawood Salman
14:15 - 14:30	Combination of tertiary coagulation / flocculation methods and re-use adsorbent for treatment of wastewater in petroleum industry	Eman H. Khader, Thamer J. Mohammed, Ali Dawood Salman, Tatjana Juzsakova, Thamer Adnan Abdullah, Mohammad A. Al-Mayyahi
14:30 - 14:45	Spinning disc technology for textile wastewater treatment – characteristics, modeling and optimization study	Carmen Zaharia, Eugenia T. Iacob – Tudose
14:45 - 15:00	Removal of paraffin hydrocarbons from water using TiO <sub>2</sub> nanoparticles modified MWCNT	Thamer Adnan Abdullah, Tatjana Juzsakova, Rashed Taleb Rasheed, Le Phuoc Cuong
15:00 - 15:15	Phytoremediation treatment to increase wastewater reuse in agriculture. A case study in Italy	Sara Pennellini, Massimo Solaroli, Alessandra Bonoli
15:15 - 15:30	Modeling of the chlorine conveying process within a drinking water distribution network	Cristina-Mihaela Virlan, Daniel Toma, Florian Stătescu, Nicolae Marcoie
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 1.9. Waste management and exploitation for chemicals, materials and energy

Thursday 19.09.2019, 14:00 – 15:30, FCEEP, CH III Room

Chairpersons: Assoc. Prof.Dr. Lidia Favier & Dr. Daniela Gavrilescu

Time	Title	Authors
14:00 - 14:15	Use of aluminosilicate waste materials as precursors for geopolymer synthesis	Constantin Bobirică, Cristina Orbeci, Cristina Modrojan, Oanamari Daniela Orbuleț, Liliana Bobirică
14:15 - 14:30	Comparative study referring to physical and calorific properties of pellets obtained from grape biomass	Cosmin Spirchez, Aurel Lunguleasa, Liviu Gaceu
14:30 - 14:45	Study of the polyhydroxybutyrate (PHB) production mechanisms in cyanobacteria isolated from wastewater	Estel Rueda Hernández, María Jesús García-Galán, Joan García Serrano
14:45 - 15:00	Phosphorus fertilizer made from sludge originating from a municipal sewage plant and activated charcoal	Marek Kopecký, Ladislav Kolář, Petr Konvalina, Teodorescu Ruxandra Florina, Anna Maroušková, Otakar Strunecký, Jiří Peterka, Radka Váchalová, Jaroslav Bernas, Jan Moudrý jr, Filipov Feodor, Daniel Bucur
15:00 - 15:15	The effect of cucurbits cultivation and their plant secondary metabolite (syringic acid) on phytotoxicity mitigation of soil contaminated with MCPA	Mierzejewska Elżbieta, Urbaniak Magdalena, Tołoczko Wojciech

### Conference event

**20:00** **Gala Dinner**, International Hotel, Magnum Ballroom





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## Parallel Session 1.10. Environmental education

Thursday 19.09.2019, 16:00 – 16:45, FCEEP, Council Room

Chairperson: Prof.Dr. Camelia Lucia Draghici

Time	Title	Authors
16:00 - 16:15	Outcomes and impact of OER courses in environmental education: the TOX-OER and BIOAPI-OER projects	Stefano Girotti, Luca Ferrari, Michele Protti, Laura Mercolini, Roberto Mandrioli, Marco Nenzioni, Stefano Sangiorgi, Camelia Draghici
16:15 - 16:30	Challenges and opportunities for transdisciplinary integrated (level 2) University Curricula	Angheluta Vadineanu
16:30 - 16:45	Open educational resources for learning environmental quality monitoring	Ileana Manciulea, Cristina Salca Rotaru, Camelia Draghici

### Conference event

**20:00**      **Gala Dinner**, International Hotel, Magnum Ballroom

## Parallel Session 1.11. Monitoring and modelling of environmental pollution

Thursday 19.09.2019, 16:00 – 16:45, FCEEP, CH III Room

Chairperson: Dr. Adela Buburuzan

Time	Title	Authors
16:00 - 16:15	Analysis of erosion patterns caused by atmospheric phenomena in high-resolution scans of limestone-based exterior walls	Marius Gavrilescu
16:15 - 16:30	Microclimatic characteristics and air quality inside of the national archives of the Bihor county (Romania) for the long-term preservation of the documents and the health of the employees	Dorina Camelia Ilieș, Ovidiu Gaceu, Mihai Georgiță, Alexandru Ilies, Ștefan Baias, Liliana Indrie, Adina Albu, Iovan Ciprian, Grigore Herman, Claudia Târb, Raluca Buhas, Florin Marcu, Tudor Caciora
16:30 - 16:45	Modelling of trace material flow distributions in iron making processes based on thermodynamic multiphase equilibrium calculations	Andreas Spanlang, Bernhard Rummer, Elmar Schuster, Bernd Weiss, Walter Wukovits, Johann Wurm

### Conference event

**20:00**      **Gala Dinner**, International Hotel, Magnum Ballroom







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**Friday, 20 September 2019**

## **Parallel Session 2.1. Waste management and exploitation for chemicals, materials and energy recovery**

Friday 20.09.2019, 9:00 – 10:30, FCEEP, Council Room

Chairpersons: Prof.Dr. Carmen Teodosiu & Prof.Dr. Anton Friedl

Time	Title	Authors
9:00 - 9:30	<b>Keynote Lecture:</b> Sustainable waste electrical and electronic equipment management	<b>Prof.Dr., Dr.h.c. Silvia Fiore</b>
9:30 - 9:45	Agglomeration reduction in a SRF-fired fluidized bed waste-to-energy plant by means of dolomite: assessment of environmental, energy and operational effects	Sabino De Gisi, Agnese Chiarelli, Luca Tagliente, Michele Notarnicola
9:45 - 10:00	Challenges in agro-food-waste based production of bio-butanol	Walter Wukovits, Florian Kirchbacher, Ervin Saracevic, Anton Friedl
10:00 - 10:15	Recovery of rare earth elements from red mud	Ali Dawood Salman, Tatjana Juzsakova, Zoltán Bakonyi, Thamer Adnan Abdullah, Le Phuoc Cuong, Raimondas Buckus, Ákos Rédey
10:15 - 10:30	Design of a bioremediation system for a soil affected by anthropogenic sources	Teodora Alexandra Zotica, Irina Gostin, Valentin I. Popa, Irina Volf
10:30 - 11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## **Parallel Session 2.2. Novel materials for environmental and energy applications**

Friday 20.09.2019, 9:00 – 10:30, FCEEP, CH II Room

Chairpersons: Prof.Dr. Sebastien Royer & Assoc.Prof.Dr. Cezar Catrinescu

Time	Title	Authors
9:00 - 9:15	Zinc oxide-graphene oxide composite thin films for photocatalytic applications	Cristina Bogatu, Dana Perniu, Silvia Gheorghita, Cosmin Obreja, Octavian Buiu, Anca Duta
9:15 - 9:30	Composite metallic oxide-rGO thin films with controlled optical and photocatalytic properties	Maria Covei, Dana Perniu, Cristina Bogatu, Anca Duta, Ion Visa
9:30 - 9:45	Vis-active photocatalytic composites for advanced wastewater treatment	Ioana Tismanar, Cristina Bogatu, Maria Covei, Anca Duta
9:45 - 10:00	Improved efficiency of TiO <sub>2</sub> doped with noble metals for the removal of persistent organic compounds	Amalia Maria Sescu, Lidia Favier, Doina Lutic, Gabriela Ciobanu, Maria Harja



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Time	Title	Authors
10:00 - 10:15	VIS-active TiO <sub>2</sub> – graphene oxide composite thin film photocatalyst	Ioana Tismanar, Alexandru Cosmin Obreja, Octavian Buiu, Anca Duta
10:15 - 10:30	Phyllosilicate phases as precursors of supported metallic NPs	Carmen Ciotonea, Shuo Chen, Adrian Ungureanu, Emil Dumitriu, Sébastien Royer
10:30 - 11:00	<b>Coffee Break and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	

## Parallel Session 2.3. Water and wastewater cycles: technologies, recycling and valorisation

Friday 20.09.2019, 11:00 – 12:30, FCEEP, Council Room

Chairpersons: Prof.Dr. Carmen Teodosiu & Prof.Dr. Nicolas Kalogerakis

Time	Presentation	Authors
11:00 - 11:30	<b>Keynote Lecture:</b> Eco-innovations to enable transition to circular economy in urban water management	<b>Prof.Dr. Francesco Fatone</b>
11:30 - 11:45	Efficient separation and removal of dyes from single and binary systems by magnetite/silver/carbon nanoparticles	Simona Gabriela Muntean, Maria Andreea Nistor, Robert Ianoș, Cornelia Păcurariu, Aylin Căpraru
11:45 - 12:00	Humic acid removal from water by sorption and photocatalysis under VIS irradiation using α-Fe <sub>2</sub> O <sub>3</sub> nanomaterial	Sorina Motoc, Catalin Ianasi, Anamaria Baciu, Claudia Delcioiu, Florica Manea
12:00 - 12:15	Nitrogen cycle characterisation in wastewater: A waste stabilization pond study	Ionut Daniel Caraene, Kathryn Linge, Yolanta Gruchlik, Cornelia Wuchter, Marco Coolen, Alireza Zahedi Abdi, Cynthia Joll
12:15 - 12:30	Capacitive deionization as an interesting tool for total remediation of effluents	Aida María Díez, María Ángeles Sanromán, Marta Pazos
12:30 - 13:30	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	
<b>13:30</b>	<b>ICEEM10 Closing Ceremony (CH II Room)</b>	





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## **Parallel Session 2.4. Waste management and exploitation for chemicals, materials and energy recovery**

Friday 20.09.2019, 11:00 – 12:30, FCEEP, CH III Room

Chairperson: Prof.Dr. Laura Bulgariu

<b>Time</b>	<b>Presentation</b>	<b>Authors</b>
11:00 - 11:15	Shear strength of selected industrial waste	Andrzej Gruchot, Tymoteusz Zydrón
11:15 - 11:30	Root reinforcement models as a tool in management of forest areas and their protection against shallow mass movements	Tymoteusz Zydrón, Andrzej Gruchot, Piotr Wężyk, Jacek Stanisław
11:30 - 11:45	Production of furanic derivatives from lignocellulosic biomass using deep eutectic solvents	Cornelius Basil Tien Loong Lee, Shen Khang Tnah, Ta Yeong Wu
12:30 - 13:30	<b>Lunch and Poster Sessions</b> Ground floor and 1 <sup>st</sup> floor, FCEEP	
<b>13:30</b>	<b>ICEEM10 Closing Ceremony (CH II Room)</b>	





## 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 for each conference day until 17h.

### Thursday, 19 September 2019

#### Section Environmental Biotechnology

Thursday, 19 September 2019, FCEEP Hall

Chairperson: Dr. Georgiana-Diana Gabur

Poster Code	Title	Authors
S1P1	Zeolites absorption of aflatoxins from feed	Becze Anca, Simedru Dorina, Bolos Doru
S1P2	Algae growth optimization for biodiesel production	Alexandra Cristina Blaga, Lenuta Kloetzer, Alexandra Tucaliuc, Dan Cascaval, Anca Irina Galaction
S1P3	Biosorptive performances of main fraction of peat in heavy metals removal from aqueous effluents	Silvia Pruteanu, Laura Bulgariu, Maria Gavrilescu
S1P4	Efficient removal of heavy metal ions from aqueous media using alkaline treated soy waste biomass	Daniela Ionela Feřtu, Laura Bulgariu, Maria Gavrilescu
S1P5	Can statistical optimization of culture conditions of <i>Trametes pubescens</i> improve the biodegradation efficiency of a refractory water contaminant?	Lidia Favier, Claudia Popa (Ungureanu), Cătălin Tănase, Christophe Vial, Gabriela Bahrim
S1P6	Exploring and exploiting microbial and plant abilities and interactions in environmental bioremediation – a project for sustainable environment	Maria Gavrilescu
S1P7	Role of plant growth promoting rhizobacteria in plant development and growth under stress condition	Gyöngyvér Mara, Hilda-Mária Varga, Annamária Becze, Éva-Bogláárka Vincze
S1P8	Non-conventional techniques for separation of biosynthetic carboxylic acids – extraction and transport through liquid membranes	Lenuta Kloetzer, Roxana-Andreea Ilica, Madalina Postaru, Anca-Irina Galaction, Dan Cascaval



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## Section Water and wastewater cycles: technologies, recycling and valorisation

Thursday, 19 September 2019, FCEEP Hall

Chairperson: Dr. Daniela Fighir

Poster Code	Title	Authors
S2P1	Radionuclides removal using ionic liquids impregnated Florisil. Influence of the ionic liquid structure	Lavinia Lupa, Otniel Bivol, Mihaela Ciopec, Adina Negrea, Petru Negrea
S2P2	Electrochemical-based process for pesticide wastewater treatment	Abdelkarim Chaouiki, Igor Cretescu, Liliana Lazar, Rachid Salghi
S2P3	Treatment of corn stalk pulping effluent by electrocoagulation	Adrian Cătălin Puișel, Ana-Maria Cheșcă, Dan Gavrilăscu
S2P4	Kinetic modeling of copper cementation from chloride-based solution	Liliana Lazar, Maria Harja, Igor Cretescu
S2P5	Carboxylic acids recovery from fermented liquid biowaste by a solid phase extraction process	Elena Morselli, Sarah Notarfrancesco, Gonzalo A. Martinez, Joana M. B. Domingos, Dario Frascari, Davide Pinelli, Fabio Fava, Lorenzo Bertin
S2P6	Simultaneous removal of iron and manganese onto an activated natural zeolite	Anamaria Iulia Török, Emilia Neag, Claudiu Tănăsălia, Marin Șenilă, Doru Boloș, Ioan Aschilean
S2P7	Biological activity control of activated sludge in the wastewaters treatment from paper recycling	Petronela Nechita, Carmen Mariana Burtea, Vasilica Barbu

## Section Waste management and exploitation for chemicals, materials and energy

Thursday, 19 September 2019, FCEEP Hall

Chairperson: Dr. Petronela Cozma

Poster Code	Title	Authors
S3P1	Circular economy and regional intelligence specialization in construction and building materials industry	Ionel-Ciprian Alecu, Daniel Lepadatu, Dorina Isopescu, Iulian Cucos, Ion Antonescu
S3P2	Contributions on the centralized collection of the manure	Paula Cojocar, Florian Statescu, Gabriela Biali
S3P3	External carbon addition control for a municipal wastewater treatment plant	Melinda Várhelyi, Vasile-Mircea Cristea, Claudiu Tomoioagă, Marius Brehar







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S3P4	Advanced system control for hydrogen conversion with plasma of industrial hazardous recyclable liquid waste	Iulian Cucos, Ion Antonescu, Dorina Isopescu, Daniel Lepadatu, Vasile Caunii, Vlad-Catalin Cucos
S3P5	Hydrogen plasma conversion system of municipal recyclable waste in energy	Iulian Cucos, Ion Antonescu, Dorina Isopescu, Daniel Lepadatu, Vasile Caunii, Vlad-Catalin Cucos
S3P6	Concentration of carboxylic acids from acidogenic fermentation effluents by membrane processes	Joana M. B. Domingos, Gonzalo A. Martinez, Elena Morselli, Sarah Notarfrancesco, Serena Bandini, Fabio Fava, Lorenzo Bertin
S3P7	Phytoremediation of soils polluted with heavy metals using energetic willow	Ileana Manciualea, Dora Lucaci, Lucia Dumitrescu, Camelia Draghici
S3P8	Establish of optimum synthesis conditions on the base of thermal analysis for zeolitic materials synthesized from fly ash	Gabriela Buema, Gabriela Lisa, Olga Kotova, Gabriela Ciobanu, Liliana Ivaniciuc, Maria Harja
S3P9	An application of novel copper(II) chloride dihydrate deep eutectic solvent with alkaline hydrogen peroxide in delignification and sugar extraction of oil palm fronds	Mun Chun Ho, Ta Yeong Wu

## Section Sustainability assessments and eco-innovation

Thursday, 19 September 2019, FCEEP Hall

Chairperson: Dr. Irina Morosanu

Poster Code	Title	Authors
S4P1	Non-thermal plasma T-shaped reactor for activated water production	Radu Burlica, Dragos Astanei, Daniel Cretu, Iuliana-Delicia Dirlau, Oana Beniuga, Silvica Padureanu, Vasile Stoleru, Antoanela Patras
S4P2	Antioxidant capacity of fresh <i>Prunus spinosa</i> and <i>Rosa canina</i> fruits and leaves	Vanda Băbălău Fuss, Anca Becze, Ana Moldovan, Zamfira Dincă, Oana Bogdana Greblă, Daniela Scurtu, Marius Roman, Maria Tofană
S4P3	Study on the impact of extreme phenomena in sustainable urban development - case study metropolitan area Bacău	Nicolae Marcoie, Vasile Lucian Pavel, Tomi Alexandrel Hraniciuc, Valentin Boboc, Petronela Andriescu, Cătălin Dumitrel Balan





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S4P4	The potential of energy use of waste from the processing of hulled wheat species	Jaroslav Bernas, Daniela Vasilica Burghila, Petr Konvalina, Jan Moudrý Jr, Daniel Bucur
S4P5	Life cycle assessment of soil phytoremediation	Elena-Diana Comăniță, Cristina Ghinea, Petronela Cozma, Camelia Smaranda, Mihaela Roșca, Sebastian Ionut Vasilică, Maria Gavrilescu
S4P6	Environmental and energy assessment of drinking water treatment: analysis of three case studies	Doina Sirbu, Silvia Fiore, Carmen Teodosiu
S4P7	Carbon footprint from wastewater: normalized approach for real territorial assessment	Foglia Alessia, Marinelli Enrico, Piasentin Alberto, Giroto Luca, Mattiazzi Luca, Frison Nicola, Conca Vincenzo, Eusebi Anna Laura, Fatone Francesco

## Section Novel materials for environmental and energy applications

Thursday, 19 September 2019, FCEEP Hall

Chairperson: Dr. Petru Apopei

Poster Code	Title	Authors
S5P1	Environmental remediation of pesticide by mesoporous carbon-rich from wheat	Irina Gabriela Cara, Laura Bulgariu, Gerard Jitareanu
S5P2	Response surface methodology applied for obtaining new binding materials based on fly ash valorisation	Igor Cretescu, Carmen Teodosiu, Dorina Nicolina Isopescu, Olga Kotova, Maria Harja
S5P3	New Zinc oxide and hybrid Zinc oxide-graphene oxide nanomaterials obtained by hydrothermal synthesis	Carmen Paraschiv, Gabriela Hristea
S5P4	The use of new low-cost substrates for biosurfactant production	Rym Salah-Tazdaït, Djaber Tazdaït, Djura Delhoum, Samia Mouffok, Fatma Kabouche, Imene Keddou, Nadia Abdi, Hocine Grib, Nabil Mameri
S5P5	Purple kohlrabi peel, a natural material for eco-friendly silver and gold nanoparticles	Sorescu Ana-Alexandra, Nuta Alexandrina, Ion Rodica-Mariana, Grigore Madalina, Nistor Cristina-Lavinia





## Section Monitoring and modelling of environmental pollution

Thursday, 19 September 2019, FCEEP Hall

Chairperson: Dr. Oana Plavan

Poster Code	Title	Authors
S6P1	Monitoring and evaluation of the road traffic load in Bacau urban area, Romania	Mirela Panainte-Lehăduș, Narcis Barsan, Oana Irimia, Florin Marian Nedeff, Claudia Tomozei, Dana Chițimuș, Emilian Moșneguțu
S6P2	The process of GIS-based water erosion modelling in a water catchment area with high slopes	Gabriela Biali, Paula Cojocaru
S6P3	Assessing the performance of a new VOCs adsorption system from gaseous streams	Adela Marilena Buburuzan
S6P4	Phytotoxicity of Cd(II) ions on seed germination and growth of tested plants	Petronela Cozma, Mihaela Roșca, Elena-Diana Comăniță, Sebastian-Ionuț Vasilică, Mariana Minuț, Dana Asiminicesei, Mariana Diaconu, Maria Gavrilescu
S6P5	Surface water quality monitoring for River Nile	Roquia I. Rizk, Tatjana Juzsakova, Silvia Curteanu, Rawash Mohamed Ali, Le Phuoc Cuong, Igor Cretescu, Zsófia Kovács, Viktor Sebestyén, Ákos Rédey
S6P6	Preliminary study of micro- and nano-plastics behavior in drinking and waste water	Ionela Simona Dontu, Cristina Liana Popa, Elfrida Mihaela Carstea, Dan Savastru, Daniel Tenciu
S6P7	Assessment of heavy metals during winemaking processes	Georgiana-Diana Dumitriu (Gabur), Carmen Teodosiu, Irina Morosanu, Iulian Gabur Valeriu V. Cotea
S6P8	Determination of the flood defense embankment elevation crown, using advanced hydrodynamic modeling	Tomi Alexandrel Hrănciuc, Nicolae Marcoie, Cătălin Dumitrel Bălan
S6P9	Biomonitoring air quality in urban agglomerations using poplar leaves	Levente Levei, Vanda Babalau-Fuss, Oana Cadar, Alexandru Ozunu
S6P10	Trace metals in the hair of brown bear ( <i>Ursus arctos</i> ) from Vrancea County, Romania	Alin Tudorache, Constantin Marin, Iulia David, Laurențiu Rozyłowicz, Marius Matache



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18 - 21 September 2019, Iasi, Romania

Poster Code	Title	Authors
S6P11	The impact of the embankment and the recreational lake on capturing front with drilling wells	Nicolae Marcoie, Daniel Toaca, Tomi Alexandrel Hraniciuc, Catalin Dumitrel Balan, Petronela Andriescu, Valentin Boboc, Daniel Toma, Vasile Lucian Pavel
S6P12	Self-purification process in urban lakes	Cristina Liana Popa, Ionela Simona Dontu, Elfrida Mihaela Carstea, Dan Savastru, Daniel Tenciu, Erika Levei, Cristian Ioja, Ana Maria Popa, Mirela Miclean, Oana Cadar, Alexandra Hoaghia

## Friday, 20 September 2019, FCEEP Hall

### Section Environmental biotechnology

Friday, 20 September 2019, FCEEP Hall

Chairperson: Dr. Camelia Smaranda

Poster Code	Title	Authors
S1P9	Revitalisation of pesticide-polluted agricultural soil functions by microbiom transplantation	Kovacs Eموke Dalma, Rusu Teodor, Szajdak W. Lech, Tian Di, Roman Cecilia, Kovacs Melinda Haydee
S1P10	Separation of 7-aminocephalosporanic acid by synergic extraction	Madalina Postaru, Alexandra Tucaliuc, Alexandra Cristina Blaga, Dan Cascaval, Anca Irina Galaction
S1P11	Researches on technologies applied for environment protection of greenhouse vegetable crops	Oana Corduneanu, Vasile Stoleru, Radu Roşca, Petru Cârlescu, Marius Băetu, Ioan Ţenu
S1P12	Studies on the development performances of <i>Spirulina platensis</i> (Strain PCC 8005) in different selective media in context of sustainable environmental remediation	Mariana Diaconu, Gabriela Soreanu, Maria Ignat, Igor Cretescu
S1P13	The effects of an arbuscular mycorrhizal fungi and plant growth promoting rhizobacteria on the morphological, biochemical and yield on tomato	Inculet Carmen-Simona, Mihalache Gabriela, Sellitto Vincenzo Michelle, Butnariu Monica, Hlihor Raluca-Maria, Stoleru Vasile
S1P14	Hybrid fermentation-separation systems for carboxylic acids production	Alexandra Tucaliuc, Mădălina Poştaru, Mihaela Roşu, Dan Caşcaval, Anca Irina Galaction





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S1P15	Effect of heavy metal and salt tolerant PGPR on early stage of development of plants under stress conditions	Éva-Boglárka Vincze, Annamária Becze, Hilda-Mária Varga, Mara Gyöngyvér
S1P16	Selective recovery of Au(III) and Cu(II) ions from wastewater by biosorption on algae waste biomass	Mădălina Ghercă, Alina Roxana Lucaci, Dumitru Bulgariu, Laura Bulgariu

## Section Water and wastewater cycles: technologies, recycling and valorisation

Friday, 20 September 2019, FCEEP Hall

Chairperson: Dr. Corina Musteret

Poster Code	Title	Authors
S2P8	Water quality analysis from an mining area. Case study, Targu Ocna salt mine, Romania	Alina Cochiorca, Adriano Fiorucci, Valentin Nedeff, Narcis Bârsan, Emilian Florin Moşneguţu, Dana Chiţimuş
S2P9	Towards an integrated valorisation of olive mill wastewater	Sarah Notarfrancesco, Elena Morselli, Gonzalo Martinez, Joana M. B. Domingos, Fabio Fava, Lorenzo Bertin
S2P10	Influence of land reaction (pH) on behavior of the PAFSIN pipelines	Stătescu Florian, Cojocaru Gabriel, Cojocaru Paula, Pavel Vasile Lucian
S2P11	Filtering module for well water	Marius Roman, Emilia Neag, Anamaria Iulia Török, Marin Senila, Vanda Babalau-Fuss, Ana Moldovan, Ferenc Puskas
S2P12	Hybrid wastewater treatment system combining photo, sono and chemical methods	Suditu Gabriel Dan, Puiţel Adrian Cătălin, Drăgoi Elena Niculina, Nechita Mircea Teodor
S2P13	Physiological response of macrophytes to the conditions prevailing in the hybrid sequential biofiltration system	Anna Wyrwicka, Edyta Kiedrzyńska, Marcin Kiedrzyński, Anna Zywert
S2P14	Efficiency of coagulation flocculation applied to lake water treatment for drinking purposes	Ioana Roman, Corina-Petronela Musteret, Petru Apopei, Oana Jitar, Dan Popovici, Carmen Teodosiu
S2P15	Management strategies based on predictive control techniques to optimize performance and reduce energy consumption in wastewater pumping stations	M. Slăvoacă, S. Brad, G. Vlad, M. Murar, C. Bartha
S2P16	The efficiency of aeration tanks operated at the Iasi city wastewater treatment plant and related upgrading works	Prăjanu Costel-Cătălin, Stătescu Florian, Toma Daniel, Vîrlan Cristina-Mihaela, Francesco Tavella





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## Section Waste management and exploitation for chemicals, materials and energy

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Chairperson: Dr. Daniela Gavrilescu

Poster Code	Title	Authors
S3P10	Synthetic wood an artificial biomaterial with universal absorption potential of recycling waste	Daniel Lepadatu, Dorina Isopescu, Iulian Cucos, Ion Antonescu, Ionel-Ciprian Alecu, Loredana Judele
S3P11	Winery waste valorisation through the obtainment of amorphous biopolymer and antioxidant compounds: A potential alternative to ethanol recovery by distillation	Gonzalo A. Martinez, Joana M. B. Domingos, Fabio Fava, Lorenzo Bertin
S3P12	Comparison between two systems of separate waste collection in the city of Iasi – Romania: 2009 – 2019	Ana-Maria Şchiopu, Cătălin Neculau, Adela Marilena Buburuzan
S3P13	Infrared imaging of hydrogen plasma	Marius Telisca, Iulian Cucos, Rares-Eduard Hugianu, Dorina Nicolina Isopescu
S3P14	Oil palm frond as a promising feedstock in biorefinery to produce biochemical product and biofuel: a review	Shen Khang Tnah, Cornelius Basil Tien Loong Lee, Ta Yeong Wu
S3P15	Hydrothermal carbonization of spruce bark. The process analysis	Iuliana Bejenari, Constantin Carausu, Irina Volf
S3P16	Central composite experimental design for ultrasound assisted extraction of polyphenols from <i>Picea abies</i> bark wastes	Roxana Damaschin, Constantin Carausu, Catalina Peptu, Irina Volf
S3P17	Study of advanced recovery of calcium carbonate from fertilizer industry	Ivaniciuc Liliana, Sutiman Daniel, Ciocinta Ramona Carla, Favier Lidia, Liliana Lazar, Sendrea Georgiana, Maria Harja
S3P18	The application of green solvent in a biorefinery using lignocellulosic biomass as a feedstock	Eng Kein New, Ta Yeong Wu

## Section Sustainability assessments and eco-innovation

Friday, 20 September 2019, FCEEP Hall

Chairperson: Dr. George Barjoveanu

Poster Code	Title	Authors
S4P8	The system thinking approach to boost the transition towards circular economy in packaging applications	Eleonora Foschi, Chiara Magrini, Alessandra Bonoli







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S4P9	Environmental indicators in the assessment of municipal solid waste management systems. Case study: North East region, Romania	Georgeta Ropcean, Daniela Gavrilesu, Carmen Teodosiu, Silvia Fiore
S4P10	The environmental concern factors and the consumers' purchase decision on the local agri-food market	Maria Robu, Alexandru Dragoş Robu, Aurel Chiran, Carmen Luiza Costuleanu, Elena Leonte
S4P11	Assessment of priority pollutants and their impacts on water quality in the Siret River basin, Romania	Brindusa M. Sluser, Roxana Galan, Oana Plavan, Carmen Teodosiu
S4P12	Sustainability indicators framework for the assessment of water treatment systems	Carmen Teodosiu, Andreea Florina Gilca, Daniela Fighir, Silvia Fiore
S4P13	Investigating the toxic effects of lindane on white mustard ( <i>Sinapis alba</i> )	Sebastian Ionuţ Vasilică, Mihaela Roşca, Petronela Cozma, Elena-Diana Comăniţă, Camelia Smaranda, Mariana Diaconu, Cezar Catrinescu, Maria Gavrilesu
S4P14	Environmental life cycle assessment of micropollutants removal from wastewaters by rapeseed biosorbents	George Barjoveanu, Irina Morosanu, Carmen Teodosiu
S4P15	Greenhouse gas emissions and energy assessment of Iasi municipal wastewater treatment plant operation	Andreea Gherghel, Daniela Fighir, Daniela Gavrilesu, Carmen Teodosiu, Sabino De Gisi

## Section Novel materials for environmental and energy applications

Friday, 20 September 2019, FCEEP Hall

Chairperson: Dr. Adela Buburuzan

Poster Code	Title	Authors
S5P6	Preliminary study on the effect of low electric current on production of biosurfactant by <i>Pseudomonas aeruginosa</i>	Djaber Tazdait, Rym Salah, Fadila Guiddir, Nawal Temouche, Nadia Abdi, Hocine Grib, Nabil Mameri
S5P7	CdCr <sub>2</sub> O <sub>4</sub> : Synthesis, characterization and application in electrochemical detection of diclofenac	Raluca Vodă, Florica Manea, Sorina Negrea, Aniela Pop
S5P8	Testing efficiency of new sustainable materials synthesized by sulfuric attack over fly ash	Forminte (Litu) Loredana, Gómez De Castro Consuelo, Kotova Olga, Ciobanu Gabriela, Harja Maria
S5P9	Effective treatment of bacteria polluted wastewaters by heterostructuring nanoparticles of gold-silver and layered double hydroxides	Dorina Stanciulescu, Doina Lutic, Adina Coroaba, Gabriela Carja





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S5P10	Low-cost adsorbent materials obtained by functionalization of PET waste with phenolic compounds	Oana Ionela Ungureanu, Anca Mihaela Mocanu, Laura Bulgariu
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## Section Monitoring and modelling of environmental pollution

Friday, 20 September 2019, FCEEP Hall

Chairperson: Dr. Diana Comanita

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Poster Code	Title	Authors
S6P12	Effect of lindane on photosynthetic pigments in <i>Sinapis alba</i> leaves	Camelia Smaranda, Mihaela Roșca, Elena-Diana Comăniță, Mariana Minuț, Sebastian Vasilică, Petronela Cozma, Maria Gavrilescu
S6P13	Assessment of the present level of the main compounds of pollutant emissions, from inland water transport system in the Danube regions wetlands - GREEN DANUBE	Tudor Iuliana-Mihaela, Pipirigeanu Vasile, Burada Adrian, Tudor Marian, Ibram Orhan, Teodorof Liliana, Despina Cristina, Mierla Marian, Trifanov Cristian, Bota Diana, Anore Ciprian, Munteanu Doina, Cupsa Ovidiu Sorin, Vintila Mihaela, Budescu Natalia, Penchev Valeriu
S6P14	Determination of various physico-chemical parameters on soil samples from Racoș area, Romania	Liliana Avasilcăi, Mădălina Vieriu, Nela Bibire, Ionela-Daniela Morariu
S6P15	The impact of sludge storage on the soil - case study: Tomesti deposit (Iasi county), Romania	Georgiana Cezarina Bartic (Lazăr), Florian Stătescu, Orest Trofin, Daniel Toma, Vasile Lucian Pavel
S6P16	Study of CO <sub>2</sub> chemisorption in potassium carbonate solution promoted with different amines	Maria Harja, Ramona Tataru Farmus, Elisabeta Droniuc (Hultuana), Consuelo Gómez de Castro, Liliana Lazar
S6P17	An analysis on WEEE management strategies in Romania	Simona Cecilia Ghiga, Isabela Maria Simion, Raluca Maria Hlihor, Maria Gavrilescu
S6P18	Evaluation of human health risk associated with the presence of pesticides in fruits and vegetables	Mariana Minuț, Mihaela Roșca, Petronela Cozma, Raluca-Maria Hlihor, Maria Gavrilescu
S6P19	Evaluation of water pollution level in Natura 2000 protected areas: case study of Jijia River, Romania	Roxana Neamțu, Brîndușa Mihaela Slușer, Carmen Teodosiu

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Poster Code	Title	Authors
S6P20	Quality of effluent in Iasi city wastewater treatment plant	Prăjanu Costel-Cătălin, Stătescu Florian, Toma Daniel, Vîrlan Cristina-Mihaela, Francesco Tavella
S6P21	Cadmium ions removal from aqueous solution using <i>Bacillus megaterium</i> biofilm layer on zeolite support	Mihaela Roșca, Teresa Tavares, Maria Gavrilescu
S6P22	Researches regarding the pesticide residues content from vegetable raw material and some derived products and the evaluation of consumers' potential risks	Otilia Cristina Murariu, Elena Ișan, Teodor Robu, Liviu Irimia, Luminița Dicu, Florin Murariu





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# ICEEM 10



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