

**12th INTERNATIONAL CONFERENCE ON
ENVIRONMENTAL ENGINEERING
AND MANAGEMENT**

PRELIMINARY CONFERENCE PROGRAM



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September 13 – 16, 2023

Iasi, Romania

ORGANISERS



12th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING AND MANAGEMENT

Circular Economy and Sustainability

13 - 16 September 2023, Iasi, Romania

	<p>“Gheorghe Asachi” Technical University of Iasi, Romania</p> <p>“Cristofor Simionescu” Faculty of Chemical Engineering and Environmental Protection</p> <p>Department of Environmental Engineering and Management</p>
	<p>Politecnica delle Marche University, Ancona, Italy</p> <p>Department of Science and Engineering of Materials, Environment and Urban Planning</p>
	<p><i>with the support of:</i></p>
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	<p>Romanian Chemical Society</p>

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12th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING AND MANAGEMENT

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Address and Conference Venue

The activities of ICEEM12 will be organised at the Gheorghe Asachi Technical University of Iasi, Romania at the following locations:

- TUIASI Aula and Hall of the lost steps, 11A Carol I Blvd, (**Opening ceremony and cocktail on September 13th**), [map here](#).
- „Cristofor Simionescu” Faculty of Chemical Engineering and Environmental Protection, 73 D. Mangeron, Iasi (**Conference sessions on September 14th and 15th**), [map here](#).

The opening ceremony will take place on September 13th, 2023 followed by the conference parallel sessions (PS) on the 14th and 15^h September, all activities being organised **onsite at the designated locations**.

Registration

The ICEEM12 registration will take place on **Wednesday, 13th September** at the TUIASI Aula (Carol I Blvd) and on **Thursday, 14th September** at „Cristofor Simionescu” Faculty of Chemical Engineering and Environmental Protection (73 D. Mangeron Blvd).

All participants will receive the conference materials (ICEEM12 Programme and Book of abstracts) in a stick in their registration folders.

Oral and Poster Presentations

The oral presentations program is structured in plenary or parallel sessions (PS), which are held according to this conference program. LDC projectors and a PC (Windows, MS Office, Adobe Acrobat) will be available in the session rooms for presentations. Authors are invited to upload their presentations on the PCs of each room in advance of the beginning of the scheduled session, to avoid last minute problems. Uploading will exclusively be done via USB-drives.

Posters presented each day will be removed by their authors at the end of the poster session.

Important notes:

- Time allocation for **Plenary/Keynote lectures** is 30 minutes (including discussions)
- Every **oral communication** will be presented in a 15 minutes frame, including discussions. Participants are encouraged to use the presentation template available on the conference website (link here: **Downloads section**).
- **Posters** will be presented in a dedicated session during which participants will present their poster and will have the opportunity for discussions. Participants are encouraged to use the poster template available on the conference website (link here: **Downloads section**).
- **Technical support (TS)** from ICEEM12 secretariate members is available for all sessions
- All phones should be muted during the ICEEM12 sessions.
- **The time schedule in this programme follows Romanian time.**



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SHORT CONFERENCE PROGRAM

Wednesday, 13 September 2023

TUIASI Aula , Bd. Carol I no. 11 A, Iasi

14:00 - 15:00	Participants Registration , Hall of the Lost Steps, Aula TUIASI, Bd. Carol I no. 11 A
15:00 – 15:30	Opening ceremony & Welcome addresses
15.30 – 16.00	Plenary Lecture 1: Exploring the potential of cyanobacterial microbiomes for sustainable bioproducts, Prof.dr. Joan Garcia
16.00 - 16.30	Plenary Lecture 2: Leveraging the potential of data and smart digital technologies for the water sector: return of experience in five European cities: Paris, Berlin, Copenhagen, Milan and Sofia, Dr. Nicolas Caradot
16.30 – 17.00	Plenary Lecture 3, Decentralized wastewater management and resource recovery: experiences, challenges and opportunities, Prof.dr. Simos Malamis
17.00 - 19.00	Welcome Cocktail Hall of the Lost Steps, Aula TUIASI, Bd. Carol I no. 11 A

Thursday, 14 September 2023

8:00 - 9:00	Participants Registration - Orizont Hall, Faculty of Chemical Engineering and Environmental Protection – FCEEP, 73 D.Mangeron Blvd., Iasi		
9:00 - 10:30	PS 1. Waste management in the context of circular (bio)economy	PS 2. Water and wastewater cycles in the context of circular (bio)economy	PS 3. Novel materials for environmental and energy applications
10:30 - 11:00	Coffee break		
11:00 - 12:45	PS 4. Waste management in the context of circular (bio)economy	PS 5. Water and wastewater cycles in the context of circular (bio)economy	PS 6. Novel materials for environmental and energy applications
12.45 - 14:00	Photo session & Lunch break		
14:00 – 15.30	PS 7. Sustainability assessment & eco-innovation	PS 8. Novel materials for environmental and energy applications	PS 9 Environmental biotechnology
15.00 – 17.00	Coffee break & Posters Session		
19.00	Gala dinner, Location to be confirmed		

Friday 15 September 2023

Time			
9:00 - 10:30	PS 10. Sustainability assessment & eco-innovation	PS 11. Environmental biotechnology	PS 12. Monitoring and modelling of environmental pollution
10.30 – 11.00	Coffee break		
11:00 – 13:00	PS 13. Monitoring and modelling of environmental pollution	PS 14. Workshop Romanian Association of Environmental Experts	
12.30- 13.30	ICEEM 12 Closing ceremony		



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PRELIMINARY DETAILED CONFERENCE PROGRAM

Wednesday, 13 September 2023

Opening ceremony and Plenary conference presentations

Location: TUIASI Aula , Bd. Carol I no. 11 A, Iasi

Chairpersons: Prof.dr. Carmen Teodosiu, Prof.dr. Francesco Fatone, Assoc.Prof.dr. Brindusa Sluser

14:00 - 15:00	Participants Registration
15:00 – 15:30	Opening ceremony & Welcome addresses
15.30 – 16.00	Plenary Lecture 1: Exploring the potential of cyanobacterial microbiomes for sustainable bioproducts, Prof.dr. Joan Garcia
16.00 - 16.30	Plenary Lecture 2: Leveraging the potential of data and smart digital technologies for the water sector: return of experience in five European cities: Paris, Berlin, Copenhagen, Milan and Sofia, Dr. Nicolas Caradot
16.30 – 17.00	Plenary Lecture 3, Decentralized wastewater management and resource recovery: experiences, challenges and opportunities, Prof.dr. Simos Malamis
17.00 - 19.00	Welcome Cocktail Hall of the Lost Steps, Aula TUIASI, Bd. Carol I no. 11 A

Thursday, 14 September 2023

Paralel session 1. Waste management in the context of circular (bio)economy, Thursday 14.09.2023, 09.00- 10.30

Location: **To be confirmed (FCEEP CH III)**

Chairpersons: Prof.dr. Irina Volf and Dr. Giovanni Gadaletta

Time	Code	Title	Authors
9.00 - 9.30	CO.1.1.	Keynote lecture: Treatment technologies for post-consumer cellulosic bio-plastics in the municipal solid waste cycle: Challenges and opportunities	Dr. Sabino de Gisi
9.30 - 9.45	CO.1.2.	Preparing the assessment of students' perception and attitude towards solid waste management in university campuses	Mădălina Rotaru, Maria Gavrilescu
9.45 - 10.00	CO.1.3.	Wastes and additives used for minimization environmental pollution	Vrabie Mihai, Ioan Damian, Harja Maria
10.00 - 10.15	CO.1.4.	Reducing the carbon footprint using waste-derived sustainable materials	Mihaela Caftanachi, Ioan-Alexandru Cotofan, Maria Harja
10.15 - 10.30	CO.1.5.	Single-use beverage packaging waste quantification and sustainability assessment in the romanian context	Bogdan-Constantin Seto, Daniela Gavrilescu, Carmen Teodosiu
10.30-11.00		Coffee break	



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Paralel session 2. Water and wastewater cycles in the context of circular (bio)economy, Thursday 14.09.2023, 09.00- 10.30

Location: **To be confirmed (FCEEP Council Room)**

Chairpersons : Prof.dr. Carmen Teodosiu, Prof.dr. Francesco Fatone

Time	Code	Title	Authors
9.00 - 9.30	CO.2.1.	Keynote lecture - Water and wastewater cycles in the context of the circular (bio)economy: Emerging electrochemical processes for water circularity.	Prof. Florica Manea
9.30 - 9.45	CO.2.2.	Increasing the productivity of aquaponic systems using oxygen nanobubbles	Quartus Paulus Botha, Nicolas Kalogerakis*
9.45 - 10.00	CO.2.3.	Ultra-dispersible small magnetic Fe ₃ O ₄ nanoparticles as reliable adsorbents for congo red dye removal	Gabriela Buema*, Nicoleta Lupu, Horia Chiriac, Daniel Gherca, George Stoian, Anca Emanuela Minuti, Dumitru-Daniel Herea*
10.00 - 10.15	CO.2.4.	Flocculation of Feo and TiO ₂ particles by cationic Pullulan derivatives	Maria-Magdalena Năfureanu*, Marieta Constantin, Luminița Ghimici
10.15 - 10.30	CO.2.5.	Evaluation of the safety and viability of microalgae grown on wastewater as a potential biofertilizer	Enrica Uggetti, Ana Álvarez-González, Lydia Serrano, Gil Gorchs, Eva Gonzalez-Flo, Rubén Díez-Montero
10.30-11.00		Coffee break	

Parallel Session 3. Novel materials for environmental and energy applications, Thursday 14.09.2023, 09.00- 10.30

Location: **To be confirmed (FCEEP CH IV)**

Chairpersons: Prof.dr. Dana Perniu, Prof.Dr. Lidia Favier

Time	Code	Title	Authors
9.00 - 9.30	CO.3.1.	Keynote lecture - Polyelectrolyte-based composite materials for targeted environmental applications,	Dr. Marcela Mihai
9.30 - 9.45	CO.3.2.	Zwitterionic polymeric beads as sorbents for heavy metal ions from Tarnita surface water: fluidized bed column studies	Marius-Mihai Zaharia, Ana-Lavinia Vasiliu, Florin Bucatariu*, Marcela Mihai
9.45 - 10.00	CO.3.4.	Separation and water cleaning by composites of polyelectrolytes and inorganic microparticles	Florin Bucatariu*, Larisa-Maria Petrila, Marius-Mihai Zaharia, Marcela Mihai
10.00 - 10.15	CO.3.5.	Heterogeneous Fenton-like oxidation of reactive Red 12 azo dye over iron oxide nanoparticles confined in SBA-15 mesoporous silica	Cezar Catrinescu*, Mihaela Bectoraş, Adrian Ungureanu, Carmen Ciotonea, Sébastien Royer
10.15 - 10.30	CO.3.6.	Removal cobalt from polluted water using microspheres of amidoximated starch and chitosan	Melinda Maria Bazarghideanu*, Diana Felicia Loghin, Marcela Mihai
10.30-11.00		Coffee break	



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Parallel Session 4. Waste management in the context of circular (bio)economy, Thursday 14.09.2023, 11.00- 12.45

Location: **To be confirmed, FCEEP CH III**

Chairpersons: **Assoc. Prof. Dr. Sabino de Gisi, Dr. Daniela Gavrilescu**

Time	Code	Title	Authors
11.00 - 11.15	CO.4.1.	Evaluating the biofertilizer properties of sludge derived from constructed wetlands	Uggetti, Enrica, Cano, Ana, Serrano, Lydia, Gil, Gorchs, Roger, Castellnou, Colomer, Llum, and Moreno, Rebec
11.15- 11.30	CO.4.2.	Mussels shells in the gulf of la spezia: a bulky waste or a potential opportunity?	Letizia Caroscio, Cristian Chiavetta, Alessandra Bonoli
11.30 - 11.45	CO.4.3.	Crushed Waste bivalve shells as alternative fillers in the production of bituminous mixtures	Beatrice De Pascale*, Letizia Caroscio, Piergiorgio Tataranni, Alessandra Bonoli, Claudio Lantieri
11.45 - 12.00	CO.4.4.	Reduction of environmental pollution by valorification of ash as sustainable material	Maria Harja*, Lidia Favier, Liliana Lazar
12.00 - 12.15	CO.4.5.	Performance evaluation of alternative configurations of MBT plant process schemes for unsorted municipal waste treatment	G. Gadaleta*, F. Todaro, S. De Gisi, D. Valenti, M. Notarnicola
12.15 - 12.30	CO.4.6.	Overview of transfer and conversion of PFAS during soil washing of dredged sediments for reuse	Nicola Lancioni, Elisa Blumenthal*, Massimiliano SgROI, Anna Laura Eusebi, Giancarlo Cecchini, Alessandro Frugis, Marco Lazzazzara, Paolo Crocetti, Maria Grazia Asci, Daniele Matteucci, Francesco Fatone
12.30 - 12.45	CO.4.7.	Recovery of bio-based nitric acid solution from anaerobic digestate through nitrification and decomposition of free nitrous acid	Fabrizio Rizzioli; Riccardo Lo Coco; Fabio Battista; Nicola Frison*
12.45 – 14.00	Lunch break		

Parallel Session 5. Environmental biotechnology Thursday 14.09.2023, 11.00- 12.45

Location: **To be confirmed, FCEEP, Council Room**

Chairpersons : **Prof.dr. Joan Garcia, Prof.dr. Nikolas Kalogerakis**

Time	Code	Title	Authors
11.00 - 11.15	CO.5.1.	Purification of saline water streams by extremophiles microalgae: a potential to exploit (explore)	Domenico Palatucci*, Antonio Marzocchela, Antonino Pollio
11.15- 11.30	CO.5.2.	Efficiency in reducing evaporation of reservoirs with PET bottles containing plastic scraps	Jiradet Settakhumpoo and Vacharapoom Benjaoran*
11.30 - 11.45	CO.5.3.	Degradation of procainamide using enzymatic activity produced by laccase	Nicoleta Mirela Marin



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Time	Code	Title	Authors
11.45 - 12.00	CO.5.4.	Cationic pullulan derivatives for removal of some commercial fungicides from simulated wastewater	Cristina-Eliza Brunchi*, Maria-Magdalena Năfureanu, Marieta Constantin, Luminița Ghimici
12.00 - 12.15	CO.5.5.	Recovery of carbon-based products from acidogenic fermentation of biowaste via green pertraction processes	Lo Coco R.*, Battista F., Bolzonella D., Frison N.
12.15 - 12.30	CO.5.6.	Real-time monitoring of organic matter and micropollutants adsorption in wastewater by innovative spectroscopic sensors: a pilot-scale study	Cecilia Bruni*, Marco Parlapiano, Massimiliano Sgroi, Anna Laura Eusebi, Francesco Fatone
12.30 - 12.45	CO.5.7.	SBR treatment of industrial wastewater and process monitoring by uv-visible and fluorescence spectroscopy	Marco Parlapiano*, Corinne Andreola, Massimiliano Sgroi, Gianluca Pettinello, Anna Laura Eusebi, Francesco Fatone.
12.45 – 14.00	Lunch break		

Parallel Session 6. Novel materials for environmental and energy applications, Thursday 14.09.2023, 11.00- 12.45

Location: **To be confirmed (FCEEP, Room CH IV)**

Chairpersons : Dr. Marcela Mihai, Assoc.Prof.dr. Cezar Catrinescu

Time	Code	Title	Authors
11.00 - 11.15	CO.6.1.	Development of hybrid electrodes based on Ti-TiO ₂ -rGO by spin-coating method for pollutant detection	Mina Ionela Popescu, Mircea Nicolaescu, Corina Orha, Carmen Lazau, Aniela Pop, Cornelia Bandas*
11.15- 11.30	CO.6.2.	Performances of magnetic hydrochar composite for water decontamination	Anca Andreea Șăulean, Ecaterina Matei*, Maria Râpă, Andra Mihaela Predescu, Mirela Gabriela Sohaci, George Coman, Andrei-Constantin Berbecaru, Cristian Predescu
11.30 - 11.45	CO.6.3.	Engineering plasmonic gold and zinc-based layered double hydroxides via structural memory effect as novel photocatalysts to remove dangerous pollutants from water	Andreea Loredana Gavrila, Ridouane Benhiti, Aben Regi Abraham, Gabriela Carja*
11.45 - 12.00	CO.6.4.	Application of cellulose nanostructured sponges for contaminated sediments remediation	M.E. Di Clemente*, R. Grisorio, A. Petrella, G.P. Suranna, F. Todaro, M. Notarnicola
12.00 - 12.15	CO.6.5.	Removal of nitrite ions from solutions using new adsorbant-catalysts	Vasile Gutsanu , Gabriela Lisa , Botnaru Maria, Alina-Mirela Ipati, Oleg Petuhov
12.15 - 12.30	CO.6.6.	Heavy metals removal from aqueous solution using a regenerated silica/polyelectrolyte multilayer core-shell composite sorbent	Ana Maria Lupu, Carmen Paduraru, Ramona Ciobanu*, Oana Plavan, Andreea Gherghel, Daniela Fighir,



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Florin Bucatariu, Marcela
Mihai, Carmen Teodosiu

12.30 - 12.45

12.45 – 14.00

Lunch break

Parallel Session 7. Sustainability assessment & eco-innovation Thursday 14.09.2023, 14.00- 15.30

Location: **To be confirmed (FCEEP, Room CH III)**

Chairpersons: Assoc.prof.dr. Brindusa Sluser and Assoc. Prof. Dr. George Barjoveanu

Time	Code	Title	Authors
14.00 – 14.15	CO.12.1.	Selection of best bio-based practices for WEFE nexus application	Alexandra Tsatsou, Isabella Georgiou, Andriani Galani, Josué González-Camejo*, Tadej Stepišnik Perdih, Constantinos Noutsopoulos, Anna Laura Eusebi, Simos Malamis, Francesco Fatone
14.15 – 14.30	CO.12.2.	Assessing the environmental impacts of small-scale crude palm oil production in Ghana: a life-cycle perspective	Sara Bottausci*, Eric Awere, Sara Pennellini, Alessandra Bonoli
14.30 – 14.45	CO.12.3.	Challenges and opportunities in life cycle inventory data generation for the production of chemicals	Bianca Köck, Anton Friedl, Sebastián Serna Loaiza, Walter Wukovits and Bettina Mihalyi-Schneider*
15.00 – 17.00	Coffee break & Posters Session		
19.00	Gala dinner		

Parallel Session 8. Novel materials for environmental and energy applications, Thursday 14.09.2023, 14.00- 15.30

Location: **To be confirmed (FCEEP Council Room)**

Chairpersons : Prof.dr. Florica Manea, Dr. Maria Covei

Time	Code	Title	Authors
14.00 – 14.15	CO.8.1.	Eco-efficient hydrochar for immobilization of pseudomonas species	Emanuel Gheorghită Armanu, Marius Sebastian Secula, Irina Volf
14.15 – 14.30	CO.8.2.	Photocatalytic dispersions based on TiO ₂ -CuxS for self-decontamination fabrics	Cristina Bogatu, Dana Perniu*, Ovidiu Iorga, Luminita Isac, Ioana Tismanar, Anca Duta
14.30 – 14.45	CO.8.3.	Polysaccharides coatings an innovative alternative to improve the sustainability of food packaging materials	Petronela Nechita*, Mirela Roman, Alina Cantaragiu
14.45 – 15.00	CO.8.4.	Comparative assessment of TiO ₂ -GO and TiO ₂ -gC ₃ N ₄ photocatalytic thin films on spherical substrate	M. Covei ^{1*} , C. Bogatu ¹ , S. Gheorghita ¹ , A. Duta ¹ , H. Stroescu ² , M. Nicolescu ² , J.M. Calderon-



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			Moreno ² , I. Atkinson ² , V. Bratan ² , M. Gartner
15.00 – 15.15	CO.8.5	Boron-doped diamond anode in electrochemical filtering system for advanced water treatment	Anamaria Baciuc, Sorina Motoc, Sorina-Claudia Negrea, Danut Vitan ^{4,5} , Corina Orha, Constantin Tudoran ⁵ , Florica Manea ^{1*}
15.15 – 15.30	CO.8.6.	Magnetic chitosan nanocomposite performances in wastewater decontamination	Ecaterina Matei, Anca Andreea Șăulean*, Maria Râpă, Andra Mihaela Predescu, Cristian Predescu, George Coman, Andrei-Constantin Berbecaru, Anamaria Ordace, Grigore Vlad, Dumitru Vâju
15.30 – 17.00	Coffee break & Posters Session		
19.00	Gala dinner		

Parallel Session 9. Environmental biotechnology

Thursday 14.09.2023, 14.00- 15.30

Location: **To be confirmed (FCEEP CH IV)**

Chairpersons: Dr. Mabel Mora, Prof.dr. Simos Malamis

Time	Code	Title	Authors
14.00 – 14.15	CO.13.1.	Use of granular activated carbon for capecitabine removal from water by sorption process	Aniela Pop, Mina Ionela Popescu, Corina Orha, Anamaria Baciuc, Sorina Ilies and Florica Manea
14.15 – 14.30	CO.13.2.	Importance of bioremediation for the management of POPs contaminated sites	Bogdevici Oleg*, Rastimesina Inna, Culighin Elena, Postolochi Olga, Nicolau Elena, Vorona Valentina, Grigoras Marina
14.30 – 14.45	CO.13.3.	Contaminant uptake, physiological and antioxidant status of basil plants (<i>Ocimum basilicum</i> L.) Exposed to perfluorooctanoic acid (PFOA) added in the soil	Anna Wyrwicka-Drewniak*, Fabrizio Pietrini, Laura Passatore, Isabel Nogues, Enrica Donati and Massimo Zacchini
15.00 – 17.00	Coffee break & Posters Session		
19.00	Gala dinner		



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Friday, 15 September 2023

Paralel session 10. Sustainability assessment & eco-innovation, 09.00-10.30

Location: **To be confirmed (FCEEP Council Room)**

Chairpersons: Prof.dr. Carmen Teodosiu, Dr. Nicolas Caradot

Time	Code	Title	Authors
9.00 - 9.30	CO.9.1.	Keynote lecture: Circularity measurement and assessment in water towards standardised approaches,	Prof.Dr. Evina Katsou
9.30 - 9.45	CO.9.2	An environmental life-cycle analysis profiling of end-of-life vehicles in Romania	Florența Diniță, George Barjoveanu*, Carmen Teodosiu
9.45 - 10.00	CO.9.3.	Challenges in modelling and sustainability assessment of biorefineries	Diana Felisbertina Dimande*, Walter Wukovits, Bianca-Maria Köck, Michael Harasek, Bettina Mihalyi-Schneider
10.00 - 10.15	CO.9.4.	Sustainable water services from the ISO 37120 perspective. Brasov, Romania case study	Dana Perniu*, Camelia Draghici, Carmen Teodosiu
10.15 - 10.30	CO.9.5	Replicability assessment of solutions for alternative water recovery in 5 decentralised regions of America, Asia and Oceania	Josué González-Camejo*, Lucia De Simoni, Anna Laura Eusebi, Francesco Fatone
10.30-11.00		Coffee break	

Paralel session 11. Environmental biotechnology, 09.00-10.30

Location: **To be confirmed (FCEEP CH III)**

Chairpersons: Prof.dr. Maria Gavrilescu and Prof.dr. Anton Friedl

Time	Code	Title	Authors
9.00 - 9.30	CO.10.1.	Keynote lecture: Waste gases as valuable and sustainable feedstocks for innovative bioproducts and biofuels generation,	Dr. Mabel Mora
9.30 - 9.45	CO.10.2.	Experimental studies on the potential of some agricultural plants to absorb lead from contaminated soils	Ionela Cătălina Vasilachi, Răzvan-Andrei Huțuliac, Vasile Stoleru, Maria Gavrilescu
9.45 - 10.00	CO.10.3.	Adsorption of heavy metals on medicinal plants dry biomass	Dana-Mihaela Asiminicesei, Laura Bulgariu, Maria Gavrilescu
10.00 - 10.15	CO.10.4.	Phytoremediation of Sb-contaminated soils by Nerium oleander	Petroula Seridou, Evdokia Syranidou, Nicolas Kalogerakis*
10.15 - 10.30	CO.10.5	Fungi from terrestrial and marine plastisphere	Federica Spina*, Francesco Venice, Viktoria Ilieva, Giulia Stilo, Davide Ferrero, Anita Fiorin, Ilaria Filippi, Giovanni Di Benedetto, Giorgia Pellegrino, Maya Dodhia, Barbara La Licata, Alexia Boulanger, Paola Zitella, Nicole R.



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Posth, Pierangiola Bracco, Marco Zanetti, Giovanna Cristina Varese

10.30-11.00 **Coffee break**

Paralel session 12. Monitoring and modelling of environmental pollution Friday 15.09.2023, 09.00-10.30

Location: **To be confirmed (FCEEP CH IV)**

Chairpersons: Prof.dr. Camelia Draghici and Prof.dr. Igor Cretescu

Time	Code	Title	Authors
9.00 - 9.30	CO.11.1.	Keynote lecture: Emerging contaminants and water cycle: occurrence, monitoring, removal and risk assessment	Prof.dr. Anna Laura Eusebi
9.30 - 9.45	CO.11.2.	The impact of climate changes on the hydrological conditions in the Zarqa main hydrographic basin (Dead sea)	Odai Aloyed, Daniel Scărădeanu
9.45 - 10.00	CO.11.3.	IR nanoscale and spectroscopic characterization of the air-filtered nanoparticles pollution	Ioana Tanasa, Dumitru Botan, Eduard Strainu, Razvan Ababei, Nicanor Cimpoesu, Brindusa Sluser*, Marius Cazacu*
10.00 - 10.15	CO.11.4.	Automatic generation of images from hurricane volume data through evolutionary optimization	Marius Gavrilesescu*, Florin Leon
10.15 - 10.30	CO.11.5.	Study on film and pore diffusion modeling for adsorption of organic pollutants in soil	Camelia Bețianu*, Ionela-Cătălina Vasilachi, Mariana Minuț, Maria Gavrilesescu*
10.30-11.00	Coffee break		

Parallel Session 13. Monitoring and modelling of environmental pollution

Friday 15.09.2023, 11.00-12.15

Location: **To be confirmed (FCEEP CH IV)**

Chairpersons: **Prof.dr. Anna Laura Eusebi** and **Dr. Walter Wukovits**

Time	Code	Title	Authors
11.00 – 11.15	CO.14.1.	Assessment of the degree of soil pollution in the vicinity of the mining sectors in nw romania	Evelyn Terez Polyak, Valer Micle, Ioana Monica Sur
11.15 – 11.30	CO.14.2.	Spatial analysis of aquifers' vulnerability to pollution in Northern Romania using a drastic model	Iuliana Gabriela Breaban*, George-Stefan Alion
11.30 – 11.45	CO.14.13.	Vegetable and iron-based wastes re-used in green electrochemical detection of doxorubicin in water	Sorina-Claudia Negrea, Sorina Motoc2, Anamaria Baciu3, Anca Andreea Șăulean4, Ecaterina Matei, Roxana Trușcă, Florica Manea*



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Time	Code	Title	Authors
11.45 – 12.00	CO.14.4.	Innovative polymer enhanced ultra-filtration to treat drinking water for both cyanobacteria and cyanotoxins removals	Alessia Foglia, Cecilia Bruni*, Enrico Marinelli, Maura Benedetti, Fabiola Gigli, Massimiliano Sgroi, Anna Laura Eusebi, Stefania Gorbi, Francesco Fatone
12.00 – 12.15	CO.14.5.	Minimizing NOx emissions in a brick manufacturing process	Costel Anton*, Cătălin Lisă*, Florin Leon, Marius Gavrilescu, Sabina Adriana Floria, Silvia Curteanu
12.30		ICEEM12 Closing ceremony Location: To be confirmed (FCEEP CH III)	

Parallel Session 14. Workshop Romanian Association of Environmental Experts, Friday 15.09.2023

Location: **To be confirmed (FCEEP CHIV)**

Chairperson: Assoc.Prof.dr. Brindusa Sluser

12.30		ICEEM12 Closing ceremony Location: To be confirmed (FCEEP CH 106)	
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POSTER SESSION

Thursday 14.09.2023, 15.30 – 17.00

Location: FCEEP Main hall

Section: Environmental biotechnology

Chairpersons: Lect.dr. Camelia Smaranda

Code	Title	Authors
PO.1.1.	Remediation of crude oil contaminated soil by enhanced natural attenuation technique	Catalina Ghita; Dumitrescu Elena; Ruxandra Cordonasu; Ramona Visoiu; Daniela Muresan
PO.1.2.	Evidence of <i>Sinapis alba</i> L. tolerance and accumulation of Cu(II), Co(II), Ni(ii) and Zn(II) from polluted soils	Raluca-Maria Tăbuleac, Petronela Cozma*, Mariana Minuț, Mihaela Roșca, Raluca-Maria Hlihor, Maria Paiu, Ionela-Cătălina Vasilachi, Diana-Elena Ungureanu-Comăniță, Maria Gavrilăscu
PO.1.3.	Alleviating effect of silicon on growth and biochemical response of nickel stressed cucumber seedlings	Aleksandra Witusińska*, Ewa Gajewska, Anna Wyrwicka-Drewniak
PO.1.4.	Behavioral studies on cumulative effects in acute intoxication with a cocktail of polypropylene and valproic acid, using the invasive species <i>percottus glenii</i>	Alexandra Savuca, Ionut-Alexandru Chelaru, Dorel Ureche, Mircea Nicusor Nicoara*, Alin Ciobica
PO.1.5.	Phytoremediation: a sustainable method for the removal of heavy metals from polluted soils	Ioana Monica Sur, Evelyn Terez Polyak, Valer Micle

Section 2: Water and wastewater cycles in the context of circular (bio)economy

Chairpersons: Lect.dr. Daniela Fighir

Code	Title	Authors
PO.2.1	Visible light driven photocatalytic degradation of a pharmaceutical water contaminant: assessment of process efficiency and products phytotoxicity	Maria Paiu, Lidia Favier, Raluca-Maria Hlihor, Doina Lutic, Maria Gavrilăscu
PO.2.2.	Evaluation of two innovative treatment procedures performance applied in the case of industrial wastewaters	Marius Alexandru Afrasinei and Carmen Zaharia*
PO.2.3.	Advanced numerical modeling, using Mike 11, to determine the volume of water possible to accumulate in a drainage channel for use for irrigation	Stoica (Untaru) Daniela Cristina, Man Teodor Eugen, Beilicci Robert Florin, Ienciu Anisoara Aurelia, Visescu Mircea*, Ilca Marin
PO.2.4	Synthesis, characterization, and efficient applications of ionic liquids-functionalized layered double hydroxides in the adsorption process of precious metals from aqueous solutions.	Nick Samuel Tolea*, Lavinia Lupa, Radu Lazau, Laura Coheci



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Code	Title	Authors
PO.2.6.	Study on the water quality monitoring at distribution and discharge in areas with agro-industrial activities	Sebastian Ionuț Ognean*, Valer Micle*, Ioana-Monica Sur, Marin Șenilă, Octavia Maria Tamas-Krumpe, Laurențiu Ognean
PO.2.5.	Layered double hydroxides – sawdust hybrids synthesized from rezidual solutions and their application as dyes adsorbents	Adelina Cucu-Novăcuț*, Lavinia Lupa, Laura Coheci, Cornelia Muntean

Section 3: Waste management in the context of circular (bio)economy

Chairpersons: Lect.dr. Daniela Gavrilescu

Code	Title	Authors
PO.3.1.	Wheat straw - a sustainable resource for romanian paper industry	Dan Gavrilescu*, Adrian Catalin Puitel
PO.3.2.	Soil organic amendmets improve pepper growth and yield and soil microbial communities development	Vasilka Chopkova And Stefan Shilev
PO.3.3.	Comparison between friendly methods for recovery of valuable metals from electronic waste	Stefan Leontin Martinaș-Ioniță, Gabriela Antoaneta Apostolescu, Maria Harja
PO.3.4.	Spatial monitoring of household waste collection and transport based on real-time monitoring tools	Dorina Maria Petrișor*, Cristina Georgiana Zanfir, Daniela Gavrilescu, Carmen Teodosiu
PO.3.5.	One-part alkali-activated cements based on secondary raw materials	Nicolaie Marin*, Cristina Orbeci, Liliana Bobirică, Constantin Bobirică
PO.3.6.	Identification of food wasting behaviour of consumers based on questionnaires	Paula-Sânziana Oprea*, Elena-Diana Comăniță-Ungureanu, Petronela Cozma, Maria Gavrilescu
PO.3.7.	Comparative evaluation of Romanian agricultural residues and agro-industrial secondary products as feedstocks for biorefinery	Adrian Catalin Puitel, Nechita Macuha, Dumitru Calugareanu, Catalin Balan Dumitrel, Mircea Teodor Nechita, Dan Gavrilescu
PO.3.8.	Improving the properties of composite materials with glass fiber waste and blast furnace slag	Mihaela Fanache (Vasiliu), Ioan Damian, Osman Gencil, Maria Harja*
PO.3.9.	Circular economy in winemaking process: valorization of the grape marc waste through vermicomposting	Georgiana-Diana Dumitriu Gabur, Carmen Teodosiu, Daniela Fighir, Iulian Gabur, Valeriu V. Cotea
PO.3.10.	Analysis of the thermal behaviour of various wastes co-processed in cement plants	Loredana-Vasilica Postolache, Gabriela Soreanu, Igor Cretescu, Gabriela Lisa
PO.3.11.	Mesoporous titania as a promising photocatalyst for the advanced removal of an emerging water pollutant	Laura Nistor, Lidia Favier, Amalia Sescu, Maria Harja*, Doina Lutic*
PO.3.12.	Ensuring secure and sustainable supply chain of critical raw materials in industrial systems	Petronela Cozma, Maria Paiu, Ionela-Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minuț, Elena-Diana Comăniță-Ungureanu, Mariana Diaconu, Maria Gavrilescu



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Chairpersons: Assoc. prof.dr. George Barjoveanu

Code	Title	Authors
PO.4.1.	Strategies and tools applied for ensuring sustainability in tourism industry	Raluca-Maria Tăbuleac, Elena-Diana Comăniță-Ungureanu, Petronela Cozma, Maria Gavrilescu*
PO.4.3.	Eco-friendly process for vitamins separation from aqueous solutions	Alexandra Cristina Blaga*, Alexandra Tucaliuc, Lenuta Kloetzer, Anca Irina Galaction, Dan Cascaval
PO.4.2.	Environmental assessment of Integrated Water Service in South of Italy by LCA approach	Sara Pennellini , Alessandro Rosatti , Alessandra Bonoli

Section 5: Novel materials for environmental and energy applications

Chairpersons: Lecturer Dr. Adela Buburuzan

Code	Title	Authors
PO.5.1.	Eco-process for lipids extraction from microalgae using ionic liquids	Alexandra Cristina Blaga, Lenuta Kloetzer, Alexandra Tucaliuc
PO.5.2.	Valorization of shrimp waste from chitin/chitosan extraction as a new liquid bio-coagulant	Nisrine Nouj*, Zineb Majbare, Mohamed Rida Abelouah, Aboubakr Ben Hamou, Ayoub Chaoui, Naima Hafid, Noureddine El Alem, Amane Jada, Ingrid Ioana Buciscanu, Stelian Sergiu Maier, Gabriela Soreanu, Igor Cretescu*
PO.5.3.	Cost-effective sampling strategies for investigation and remediation of polluted soil using geochemical, geostatistical models	Catalina Ghita; Daniel Scradeanu; Dumitrescu Elena; Daniela Muresan
PO.5.4.	Stability of the photocatalytic thin film TiO ₂ – g-C ₃ N ₄	Silvioara Gheorghita*, Cristina Bogatu, Anca Duta
PO.5.5.	The development and characterization of new membranes based on polysulfone and silsesquioxanes with perspectives IN environmental applications	Ciubotaru Bianca-Iulia, Alexandra Bargan, George Știubianu, Mihaela Dascălu,

Section 6: Monitoring and modelling of environmental pollution

Chairpersons: Assoc.Prof.dr. Gabriela Soreanu

Code	Title	Authors
PO.6.1.	Simulation – risk of mobile components migration from a crude oil accidental spill through vadose zone	Ana-Maria Macsim, Adrian Bele, Alina Soroceanu
PO.6.2.	Monitoring the health of biodiversity in a protected area by remote sensing biophysical index factor	Elena Diana Bobric, Alexandra Petronela Stoleriu, Lilian Niacșu, Iuliana Gabriela Breabănp*
PO.6.3.	Forest dynamics in natural park putna vrancea using time-series Sentinel 2 images and lulc data	Adrian George Istrate, Alexandra Petronela Stoleriu, Robert Hritac, Iuliana Gabriela Breaban*
PO.6.8.	Preliminary investigations on the impacts of poultry meat production chain	Mihaela David, Cristina Ghinea, Maria Gavrilescu
PO.6.10.	Environmental monitoring definition	Cristina Mihaela Salcă Rotaru Camelia Draghici*



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Code	Title	Authors
PO.6.11	Flood routing and discharge capacity of colibita reservoir on bistrita ardeleana river	Marcoie Nicolae*, Toma Daniel, Boboc Valentin, Hraniciuc Tomi Alexandrel, Balan Catalin Dumitrel
PO.6.12.	About the pollution and self-purification processes of the water of the danceni reservoir	Borodaev Ruslan, Bunduchi Elena, Gladchi Viorica, Blonschi Vladislav
PO.6.13.	Modeling and optimization of the rifaximim decolorization process using bacterial foraging optimization and grey worm optimization	Elena Niculina Dragoi, Gabriel Dan Suditu, Mircea Teodor Nechita
PO.6.14.	Comparative toluene vapors removal from gaseous streams by adsorption onto polymeric resins and activated carbon systems	Marilena-Adela Buburuzan
PO.6.15	Environmental impact assessment of gaseous emissions in laying hens manure management	Daniela Gavrilescu*, George Bârjoveanu, Petru Apopei, Andreea Gherghel, Anișoara Talpalaru, Carmen Teodosiu
PO.6.17.	Influence of the Covid 19 period on the atmospheric deposition in forest ecosystems from romania	Iacoban Carmen, Buculei Amelia*, Cuciurean Cosmin Ilie, Leca Stefan
PO.6.4.	The use of artificial neural networks in modelling and predicting PM10 in an urban area	Iuliana-Gabriela Breaban*, Liliana Dragoi (Oniu), Robert Hritac, Marius-Mihai Cazacu
PO.6.5.	Degradation improvement of an emerging organic contaminant from aqueous suspensions by UV-A photocatalytic oxidation: application in environmental remediation	Alexandra Corina Constandache, Lidia Favier*, Ecaterina Matei
PO.6.6.	Effect of support on molybdenum nitride NPS for ammonia synthesis and decomposition	Amanda Sfeir, Camila A. Teles, Herve Vezin, Maya Marinova, Axel Löfberg, Jean-Philippe Dacquin, Said Laassiri* Sébastien Royer*
PO.6.7.	Modeling contaminant transfer in phreatic hydrostructures, Urechești - Vrancea county	Andreea Aurelia Iojă, Daniel Scărădeanu
PO.6.9.	Statistical approach of the water quality parameters dynamics for the Danube River in the Galati - Isaccea area	Catalina Topa, Gabriel Murariu*, Maxim Arseni, Carmen Chitescu, Valentina Calmuc
PO.6.16	Application of an automatic water quality monitoring system in the "Kis-Balaton water protection system"	*Zsófia Kovács, Mónika Meiczinger, Gvendolin Kulcsár, Béla Varga, Zsófia Látrányi-Lovász



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