

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

**CONFERENCE PROGRAM**



[www.iceem.ro](http://www.iceem.ro)

**September 8 – 10, 2021**

**Muttenz, Switzerland**



11<sup>th</sup> INTERNATIONAL CONFERENCE ON  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT  
Environmental Engineering for a Clean and Healthy Planet

8 - 10 September 2021, MuttENZ, Switzerland

## ORGANISERS



Fachhochschule Nordwestschweiz  
Hochschule für Life Sciences



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



europaean  
federation of  
biotechnology

*Environmental Biotechnology Division*



Alma Mater Studiorum University of Bologna

## PARTNERS

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

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



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## INTERNATIONAL SCIENTIFIC COMMITTEE

### Conference Presidents

<p><b>Prof.Dr. Philippe Corvini</b> University of Applied Sciences and Arts Northwestern Switzerland &amp; European Federation of Biotechnology – Environmental Biotechnology Division</p>	<p><b>Prof.Dr. Carmen Teodosiu</b> “Gheorghe Asachi” Technical University of Iasi, Romania</p>	<p><b>Prof. Dr. Fabio Fava</b> “Alma Mater Studiorum” University of Bologna, Italy</p>
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### International Scientific Committee

<p><b>Prof.Dr., Dr.h.c. Maria Madalena dos Santos Alves</b> University of Minho, Portugal</p>	<p><b>Prof.Dr. Joan Garcia</b> Universitat Politecnica de Catalunya, Spain</p>	<p><b>Dr. Marcela Mihai</b> “P. Poni” Institute of Macromolecular Chemistry, Iasi, Romania</p>
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<p><b>Prof.Dr. Amit Bhatnagar</b> University of Eastern Finland, Finland</p>	<p><b>Prof.Dr. Juliane Hollender</b> EAWAG, Switzerland</p>	<p><b>Prof.Dr. Alexandru Ozunu</b> Babeş Bolyai University, Cluj Napoca, Romania</p>
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<p><b>Prof. Dr. Tomas Cajthaml</b> Charles University, Czech Republic</p>	<p><b>Dr. David Johnson</b> EAWAG, Switzerland</p>	<p><b>Prof.Dr. Maria Reis</b> FCT, Universidade NOVA de Lisboa, Portugal</p>
<p><b>Prof.Dr. Dan Cascaval</b> “Gheorghe Asachi” Technical University of Iasi, Romania</p>	<p><b>Prof.Dr. Nikolas Kalogerakis</b> Technical University of Crete, Greece</p>	<p><b>Prof.Dr. Sebastien Royer</b> Université de Lille, France</p>
<p><b>Assoc.Prof.Dr. Cezar Catrinescu</b> “Gheorghe Asachi” Technical University of Iasi, Romania</p>	<p><b>Prof.Dr. Mark van Loosdrecht</b> Delft University of Technology, Netherlands</p>	<p><b>Prof.Dr. Maria Angeles Sanroman</b> University of Vigo, Spain</p>
<p><b>Prof.Dr., Dr.h.c. Yusuf Chisti</b> Massey University, New Zealand</p>	<p><b>Prof.Dr. Florica Manea</b> Politehnica University of Timisoara, Romania</p>	<p><b>Prof.Dr., Dr.h.c. Wilhelm Schabel</b></p>



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		Karlsruhe Institute of Technology, Germany
<b>Prof.Dr. Igor Cretescu</b> "Gheorghe Asachi" Technical University of Iasi, Romania	<b>Prof.Dr. Ecaterina Matei</b> Politehnica University of Bucharest, Romania	<b>Prof. Dr. Stefan Shilev</b> Agricultural University of Plovdiv, Bulgaria
<b>Dr. Maja Djolic</b> University of Belgrade, Serbia	<b>Prof.Dr. Teodor Malutan</b> "Gheorghe Asachi" Technical University of Iasi, Romania	<b>Acad.Prof.Dr., Dr.h.c. Bogdan C. Simionescu</b> "Gheorghe Asachi" Technical University of Iasi, Romanian Academy, Romania
<b>Prof.Dr. Camelia Draghici</b> Transilvania University of Brasov, Romania	<b>Prof.Dr. Giorgio Mannina</b> University of Palermo, Italy	<b>Assoc.Prof.Dr. Brindusa Sluser</b> "Gheorghe Asachi" Technical University of Iasi, Romania
<b>Prof.Dr. Francesco Fatone</b> University Politecnica delle Marche, Italy	<b>Prof.Dr. Antonio Marzocchella</b> Università degli Studi di Napoli Federico II, Italy	<b>Prof. Dr. Joanna Surmacz-Górska</b> Silesian University of Technology, Poland
<b>Prof.Dr., Dr.h.c. Silvia Fiore</b> Politecnico di Torino, Italy	<b>Prof. Dr. Anne Menert</b> Tallin University of Technology, Estonia	<b>Dr. Magdalena Urbaniak</b> University of Lodz, Polish Academy of Sciences
<b>Prof.Dr., Dr.h.c. Anton Friedl</b> Vienna University of Technology, Austria	<b>Prof. Dr. Rolandas Meskys</b> Life Sciences Center, Lithuania	<b>Prof.Dr. Irina Volf</b> "Gheorghe Asachi" Technical University of Iasi, Romania

## Scientific Organizing Committee

Dr. Petru Apopei	Prof. Dr. Miriam Langer
Dr. George Barjoveanu	Dr. Irina Morosanu
Dr. Adela Buburuzan	Dr. Corina Musteret
Simona Falbo	Dr. Oana Plavan
Dr. Daniela Fighir	Dr. Camelia Smaranda
Dr. Diana Gabur	Dr. Brindusa Sluser
Dr. Daniela Gavrilescu	Prof. Dr. Michael Thomann
Prof. Dr. Christoph Hugj	



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

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### GENERAL INFORMATION

The **International Conference on Environmental Engineering and Management (ICEEM)** was initiated and organized every 2 years, since 2002, by the **Department of Environmental Engineering and Management**, Faculty of Chemical Engineering and Environmental Protection of the “**Gheorghe Asachi**” Technical University of Iasi (TUIASI), Romania. The declared objectives of all ICEEM conference editions were to bring together international researchers, academics, professionals and students, activating in the fields of environmental engineering and management and to support knowledge exchange and dissemination of specific research and educational programmes. This is the 4th ICEEM event organised abroad, after the previous editions at Lake Balaton, Hungary (ICEEM06), Vienna, Austria (ICEEM07) and Bologna, Italy (ICEEM09).

The 11<sup>th</sup> International Conference on Environmental Engineering and Management, **ICEEM11** will take place between 8th and 10th of September 2021, in Muttenz, Switzerland. This event is organized by the “**Gheorghe Asachi**” Technical University of Iasi, Department of Environmental Engineering and Management, in collaboration with **University of Applied Sciences and Arts Northwestern Switzerland, Alma Mater Studiorum Università di Bologna, Italy**, and the **Environmental Biotechnology Section of the European Federation of Biotechnology (EFB)**.

“**Gheorghe Asachi**” Technical University of Iasi (TUIASI) is a prestigious Romanian university, classified as a *university for advanced research and education*, according to the Ministry of Education and Research Order (MECTS nr. 5262/2011) being also a relevant component of the research and development system. TUIASI develops programs for undergraduate, master, doctoral, postdoctoral studies and scientific research in 14 research areas, out of which 10 areas were classified in the category A, according to Law 1/2011 and HG 789/2011. The doctoral activity is organized within a doctoral school including 13 doctoral fields developed according to national and international research priority areas.

The **University of Applied Sciences and Arts Northwestern Switzerland (FHNW)** is one of Switzerland’s leading universities of applied sciences and arts, actively involved in teaching, research, continuing education and service provision – both innovative and practice-oriented. Its broad range of degree programmes, hands-on concept, innovative, application-oriented research and global network make FHNW a diversified and appealing educational institution, a sought-after partner to industry and an attractive employer in northwestern Switzerland.

Founded in 1088, the **Alma Mater Studiorum– Università di Bologna** is known as the oldest University of the western world. Nowadays, it still remains one of the most important institutions of higher education across Europe and the second largest university in Italy with 32 Departments and more than 87,000 students. *Alma Mater Studiorum* Università di Bologna is a multicampus university based in Bologna, Cesena, Forlì, Ravenna, and Rimini and it is among the first institutions in Europe for the number of bilateral agreements and EU funded R&I and educational projects.

#### Address and Conference Venue

The onsite activities of ICEEM11 will be organised at the University of Applied Sciences and Arts Northwestern Switzerland (FHNW), **4132-Muttenz, Switzerland, Hofackerstrasse 30**.

**The whole conference will be organised in a hybrid mode, onsite and online.**

The opening ceremony will take place on September 8th, 2021 followed by the conference sessions on the 9<sup>th</sup> and 10<sup>th</sup> September, all activities being organised **onsite and online**. **The onsite activities will take place at FHNW**, and all activities will be accessible also **online** via the ZOOM platform. **Each participant will receive a code for the online access.**



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## Registration

The ICEEM11 registration will take place for the onsite sessions on **Wednesday, 8 September** and **Thursday, 9 September** at **FHNW, Campus Muttenz, Hofackerstrasse 30, CH-4132, Muttenz, Mainhall**.

All participants will receive the conference materials (**ICEEM11 Programme** and **Book of abstracts**) through their e-mail registration addresses.

## Oral 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 the onsite presentations. 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.**

## Important notes:

- **Onsite activities are marked in orange.** These presentations will be held by the participants in Muttenz, Switzerland and will be broadcasted online as well.
- **Online presentations are marked in green**
- Time allocation for **plenary/keynote lectures** is 30 minutes (including discussions)
- Every **oral communication** will be presented in a 10 minutes frame, including discussions. Participants are encouraged to use the presentation template available on the conference website (*Downloads section*).
- **Posters** will be presented in dedicated sessions (**Flash presentations**) during which participants will present their poster in 5 minutes, including discussions. Participants are encouraged to use the poster template available on the conference website (*Downloads section*).
- **Technical support (TS)** from the ICEEM11 secretariate members will be available for all sessions
- All microphones should be muted during all sessions
- Online participants will use the chat in writing any questions that may arise, while the onsite participants will address their questions live
- **All presentations (plenaries, keynotes, posters) should be sent to the conference secretariate until September 6<sup>th</sup>, 2021 at 9:00AM (Swiss time) the e-mail address: [iceem@tuiasi.ro](mailto:iceem@tuiasi.ro)**
- **The time schedule in this programme follows Swiss time**
- **The zoom links will be sent by email to all registered participants together with the ICEEM11 Conference program and Book of Abstracts.**



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## SHORT CONFERENCE PROGRAM

### Wednesday, 8 September 2021

13:00 - 14:00	Onsite Participants Registration, FHNW Mainhall
14:00 - 14:15	Opening ceremony & Welcome addresses, FHNW Aula groundfloor
14:15 - 14:45	Plenary Lecture 1, <i>Clean and healthy planet: Understanding the full implications of the circular economy</i> , Prof.Dr., Dr.h.c. Adisa Azapagic
14:45 - 15:15	Plenary Lecture 2, <i>Microbial exopolymers: Characterisation and potential for resource recovery</i> , Prof. Dr. Mark van Loosdrecht
15:15 - 15:45	Plenary Lecture 3, <i>Funding for bio-based industries in Europe: past, present &amp; future</i> , Philippe Mengal
19:00 - 22:00	Onsite Conference Dinner, Ackermann's hof Restaurant

### Thursday, 9 September 2021

Time			
8:00 - 9:00	Onsite Participants Registration		
9:00 - 10:30	Keynotes lectures plenary session, Room 02S21		
9:00 - 9:30	<b>Keynote lecture 1</b> <i>Electrifying biotechnology – Recent advances in bioproduction and bioremediation</i> , Prof.Dr. Korneel Rabaey		
9:30 - 10:00	<b>Keynote lecture 2</b> <i>Advances in water resource recovery from wastewater treatment: the EU project Wider-Uptake</i> , Prof.Dr. Giorgio Mannina		
10:00 - 10:30	<b>Keynote lecture 3</b> - <i>Towards a real circular plastic economy: the different options to reconnect growth and sustainability for the plastic sector</i> , Assoc.Prof.Dr. Paola Fabbri		
10:30 - 11:00	Coffee break		
11:00 - 12:30	PS 1. Environmental biotechnology	PS 2. Water and wastewater cycles in the context of circular (bio)economy	PS 3. Novel materials for environmental and energy applications
12.30 - 14:00	Lunch break		
14:00 - 16:00	PS Flash presentations 1. Environmental biotechnology -	PS Flash presentations 2. Water and wastewater cycles in the context of circular (bio)economy	PS4. Sustainability assessment & eco-innovation
16:00 - 16.30	Coffee break		
16.30 - 17:30	PS 5: Valorising agro-industrial sidestreams – findings from the PROLIFIC project	PS 6: Special EU project session PAVITR	



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## Friday 10 September 2021

Time		
9:00 - 10:30	<b>Keynotes lectures plenary sessions</b>	
9.00-9.30	<i>Keynote lecture 4 - Rising stars among solar cell materials, Prof.Dr. Frank Nüesch</i>	
9.30.-10.00	<i>Keynote lecture 5 - Sustainability at the heart of the European Green Deal, Dr. Giovanni De Santi</i>	
10.00-10.30	<i>Keynote lecture 6 - Halogenated contaminants – a persistent problem, Prof. Dr. Jacob de Boer</i>	
10:30 - 11:00	Coffee break, Mensa groundfloor	
11:00 – 12:40	<b>PS 7. Waste management in the context of circular (bio)economy</b>	<b>PS 8. Monitoring and modelling of environmental pollution</b>
12:40 – 14:00	<b>Lunch Break</b>	
14:00 – 14:50	<b>PS Flash presentations 3. Waste management in the context of circular (bio)economy</b>	<b>PS Flash presentations 4. Monitoring and modelling of environmental pollution</b>
15.00	<b>ICEEM 11 Closing ceremony</b>	





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## DETAILED CONFERENCE PROGRAM

### Wednesday, 8 September 2021

Opening ceremony and Plenary conference presentations

Location: *FHNW Aula groundfloor* and online

Chairpersons: Prof.dr. Carmen Teodosiu, Prof.dr. Philippe Corvini, Prof.dr. Fabio Fava

TS: Dr. George Barjoveanu & whole Swiss TS team

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13:00-14:00	Onsite Participants Registration, <i>FHNW Mainhall</i>
14:00 -14:15	<b>Opening ceremony &amp; Welcome addresses</b> Prof.dr. Carmen Teodosiu, Prof.dr. Philippe Corvini, Prof.dr. Fabio Fava
14:15 – 14:45	<b>Plenary Lecture 1: <i>Clean and healthy planet: Understanding the full implications of the circular economy</i></b> <b>Prof.Dr., Dr.h.c. Adisa Azapagic</b>
14:45 – 15:15	<b>Plenary Lecture 2: <i>Microbial exopolymers: Characterisation and potential for resource recovery</i></b> <b>Prof. Dr. Mark van Loosdrecht</b>
15:15 – 15:45	<b>Plenary Lecture 3: <i>Funding for bio-based industries in Europe: past, present &amp; future,</i></b> <b>Philippe Mengal</b>
19:00 – 22:00	Onsite Conference Dinner, <i>Ackermann's hof Restaurant</i>

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## Thursday, 9 September 2021

### Keynotes lectures plenary session

Location: FHNW Room 02S21 and online

Chairpersons: Prof.dr. Carmen Teodosiu, Prof.dr. Fabio Fava

TS: Dr. Daniela Fighir & whole Swiss TS team

Time	
8:00 - 9:00	Onsite Participants Registration
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9:30 - 10:00	<b>Keynote lecture 2</b> <i>Advances in water resource recovery from wastewater treatment: the EU project Wider-Uptake,</i> <b>Prof.dr. Giorgio Mannina</b>
10:00-10:30	<b>Keynote lecture 3</b> - <i>Towards a real circular plastic economy: the different options to reconnect growth and sustainability for the plastic sector,</i> <b>Assoc.Prof.dr. Paola Fabbri</b>
10:30 - 11:00	Coffee break, Mensa groundfloor

## Thursday, 9 September 2021

Thursday 9.09.2021, 11:00 – 12:30,

Location: FHNW, Room 02W18 and online

### Parallel Session 1. Environmental biotechnology

Chairpersons : Prof.dr. Maria Gavrilesu & Prof.dr. Philippe Corvini

TS: Dr. Petru Apopei, Reto Burn, Simona Falbo

Time	Title	Authors
11:00 - 11:10	Towards plastic-biodegradation: isolation and characterization of a soil bacterium growing on polyurethane oligo- and monomers	María José Cárdenas Espinosa, Óscar González i Puiggené, Tabea Schmidgall, Uwe Kappelmeyer, Dietmar Schlosser, Nico Jehmlich, Hermann J. Heipieper, Christian Eberlein
11:10 - 11:20	Life cycle assessment and cost effectiveness analysis of bio-electrochemical remediation technologies	Victor Misev, Vinzenz Müller, Christoph Hugli
11:20 - 11:30	Control of the nitrate and sulphate reduction in a microbial electrolysis cell for PCE removal	Edoardo Dell'Armi, Marco Zeppilli, Federica De Santis, Mauro Majone, Marco Petrangeli Papini,
11:30 - 11:40	Coupling biogas upgrade with the valorisation of H <sub>2</sub> S, CO <sub>2</sub> and digestate by employing purple phototrophic bacteria,	Sarah Notarfrancesco, Gonzalo A. Martinez, Elena Morselli, Joana M. B. Domingos, Fabio Fava, Lorenzo Bertin
11:40 - 11:50	The microbial electrochemical snorkel: a passive electrobioremediation system for enhancing hydrocarbons biodegradation in contaminated soils,	Carolina Cruz Viggì, Matteo Tucci, Bruna Maturro, Simona Crognale, Ilaria Pietrini, Simona Rossetti, Federico Aulenta
11:50 - 12:00	Biostimulation effect of different PHAs on a marine PCB dechlorinating microbial community,	Alberto Botti, Giulio Zanaroli, Fabio Fava
12:00 - 12:10	Carboxylic acids recovery using ionic resins: anion adsorption isotherm prediction and tests at semi-pilot scale	Elena Morselli, Sarah Notarfrancesco, Gonzalo A. Martinez, Joana M. B. Domingos, Fabio Fava, Lorenzo Bertin,



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12:10 - 12:20	Soil and endophytic bacteria as a tool for remediation of Sb(III) polluted soils	Vasiliki Aggelopoulou, Konstantinos Fyntrilakis, Evdokia Syranidou, Nicolas Kalogerakis,
12:30 – 14:00	<b>Lunch break, FHNW 12<sup>th</sup> floor lounge</b>	

## Parallel Session 2. Water and wastewater cycles in the context of circular (bio)economy

Thursday 9.09.2021, 11:00 – 12:30,

Location: FHNW, Room 02S21 and online

**Chairpersons: Prof.dr. Giorgio Mannina & Prof.dr. Florica Manea**

**TS: Dr. Daniela Gavrilescu and Patrik Eckert, Meret Amrein**

Time	Title	Authors
11:00 - 11:10	Tin oxide onto titanium substrate for advanced degradation of cytostatics from water	Corina Orha, Cornelia Bandas, Carmen Lazau, Mina Ionela Popescu, Mircea Nicolaescu, Sorina Negrea, Aniela Pop, Florica Manea,
11:10 - 11:20	The long-term effect of selected heavy metals' ions on the anammox process in a continuous-flow anaerobic membrane-assisted bioreactor (AnMBR)	Piotr Gutwiński, Grzegorz Cema, Aleksandra Ziemińska-Buczyńska, Sławomir Ciesielski, Joanna Surmacz-Górska,
11:20 – 11:30	IL functionalized Mg <sub>3</sub> Al-LDH as new efficient adsorbent materials for the recovery of Pd ions from aqueous solutions	S.N. Țolea, I.C. Bălescu, L. Lupa, L. Coheci, R. Pode
11:30 – 11:40	Combined electrochemical water softening and nitrate electro bioremediation	Alba Ceballos-Escalera, Narcís Pous, M. Dolores Balaguer, Sebastià Puig
11:40 – 11:50	Fault diagnosis of the WWTP dissolved oxygen and nitrates sensors	Alexandra-Veronica Luca, Melinda Simon-Várhelyi, Norbert-Botond Mihály, Marius Adrian Brehar, Vasile-Mircea Cristea
11:50 – 12:00	Optimization of bioplastics production with Cyanobacteria	Estel Rueda, Joan García
12:00 – 12:10	Phytoremediation potential of crop plants cultivated on sewage sludges: a preliminary study	Mirko Salinitro, Sofia Montanari, Andrea Simoni, Claudio Ciavatta, Annalisa Tassoni
12:30 – 14:00	<b>Lunch break, FHNW 12<sup>th</sup> floor lounge</b>	



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### Parallel Session 3. Novel materials for environmental and energy applications

Thursday 9.09.2021, 11:00 – 12:00

Location: online

Chairpersons: Dr. Marcela Mihai & Assoc.prof.dr. Cezar Catrinescu

TS: Dr. Adela Buburuzan

Time	Title	Authors
11:00 – 11:10	Synthesis and characterization of quartz sand/polyethyleneimine composite particles with application in water cleaning	Florin Bucatariu, Marius-Mihai Zaharia, Larisa-Maria Petrila, Marin-Aurel Trofin, Marcela Mihai,
11:10 – 11:20	3D anisotropic polysaccharide-based cryogels as multifunctional eco-friendly materials for wastewater treatment	Maria Valentina Dinu, Maria Marinela Lazar, Ionel Adrian Dinu, Irina Elena Raschip, Claudiu-Augustin Ghiorghita, Luminita Ghimici,
11:20 – 11:30	Daisogel/(polycation/polyanion)n composite microparticles with affinity for emerging pollutants	Marcela Mihai, Larisa-Maria Petrila, Marin-Aurel Trofin, Marius-Mihai Zaharia, Florin Bucatariu,
11:30 – 11:40	Acrylic ion exchange resins. Synthesis and preliminary tests on water cleaning from Tarnița closed mine area	Marius-Mihai Zaharia, Florin Bucatariu, Maria Ignat, Marin-Aurel Trofin, Marcela Mihai,
11:40 – 11:50	Adsorption characteristics of an anionic dye (Congo red) onto modified fly ash nanomaterial	Gabriela Buema, Nicoleta Lupu, Horia Chiriac, Dumitru-Daniel Herea, Lidia Favier, Carmen Teodosiu, Gabriela Ciobanu, Maria Harja
11:50 – 12:00	La <sub>1-x</sub> (Sr, Na, K) <sub>x</sub> MnO <sub>3</sub> perovskites for HCHO oxidation: the role of oxygen species on the catalytic mechanism	Yin Xu, Jérémy Dhainaut, Jean-Philippe Dacquin, Jean-François Lamonier, Hui Zhang, Sébastien Royer
12:30 – 14:00	<b>Lunch Break</b>	

### Flash poster presentations 1. Environmental biotechnology -

Thursday 9.09.2021, 14:00 – 15:10

Location: FHNW, Room 02W18 and online

Chairpersons: Prof.dr. Irina Volf & Prof.dr. Joan Garcia

TS: Dr. Diana Gabur, Reto Burn, Simona Falbo

Time	Title	Authors
14:00 – 14:05	Response of the microorganisms in the compost bed towards the volatile petroleum hydrocarbons exposure in the presence of the most prevalent inorganic gases in air	Mariana Diaconu, Irina Volf, Igor Cretescu, Gabriela Soreanu,
14:05 – 14:10	Electrobioremediation of a PCB-contaminated marine sediment: a preliminary study	Alberto Botti, Fabio Fava, Giulio Zanaroli,
14:10 – 14:15	A preliminary assessment on the early development of <i>Ocimum basilicum</i> L. in lead contaminated medium	Dana Mihaela Asiminicesei, Raluca Maria Hlihor, Maria Apostol, Laura Hagiuz Zaleschi, Isabela Maria Simion, Gabriel-Ciprian Teliban, Maria Gavrilescu



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Time	Title	Authors
14:15 – 14:20	A review on heavy metal phytoextraction from soils by different plant species	Dana Mihaela Asiminicesei, Raluca Maria Hlihor, Mihaela Roșca, Petronela Cozma, Ionela Vasilachi, Maria Gavrilescu
14:20 – 14:25	Antibiotics effect on the anammox process in short-time exposure	Filip Gamoń, Grzegorz Cema, Aleksandra Ziemińska-Buczyńska,
14:25 – 14:30	Recent development on the modelling and optimization of Cr(VI) removal by fungal biomass	Raluca Maria Hlihor, Mihaela Roșca, Elena Niculina Drăgoi, Mariana Diaconu, Silvia Curteanu, Lidia Favier, Maria Gavrilescu
14:30 – 14:35	Behavior of <i>Sinapis alba</i> L. growth in soil polluted with nickel	Mariana Minuț, Mihaela Roșca, Petronela Cozma, Camelia Smaranda, Mariana Diaconu, Maria Gavrilescu
14:35 – 14:40	Investigating the potential of <i>Sinapis alba</i> L. (white mustard) to clean-up lindane polluted soils	Petronela Cozma, Mihaela Roșca, Mariana Minuț, Camelia Smaranda, Cezar Catrinescu, Maria Gavrilescu,
14:40 – 14:45	Biosolids vermicompost improves tomato growth and rhizosphere microbiome development influencing the ability to use carbon sources	Stefan Shilev, Desislava Angelova,
14:45 – 14:50	Exploitation of the microbial biodiversity of plastisphere	Federica Spina, Matteo Florio Furno, Ilaria Filippi, Pierangiola Bracco, Marco Zanetti, Anna Poli, Viktoria Ilieva, Carlo Pretti, Valeria Prigione, Giovanna Cristina Varese,
14:50 – 14:55	Influence of the heavy metal Pb(II) on the development and early growth of wheat ( <i>Triticum aestivum</i> , hybrid Glossa)	Ionela Catalina Vasilachi, Dana-Mihaela Asiminicesei, Mihaela Rosca, Mariana Minuț, Petronela Cozma, Maria Gavrilescu,
14:55 – 15:00	Ultrasound-assisted extraction of scopolamine from <i>Datura Innoxia</i> and quantitative analysis using gas chromatography	Georgiana Mardare (Balusescu), Liliana Lazar, Teodor Malutan,
15:00 – 15:05	Circular management and laser biotechnology as contribution to municipal bioeconomy and sustainable development adopted to climate change and COVID-19 pandemic	Jan W. Dobrowolski, Tadeusz Zaba,

## **Flash Poster Presentations 2. Water and wastewater cycles in the context of circular (bio)economy**

Thursday 9.09.2021, 14:00 – 14:40,

Location: FHNW, Room 02S21 and online

Chairpersons: Prof.dr. Lidia Favier & Prof.Dr. Camelia Draghici

TS: Dr. Camelia Smaranda, Patrik Eckert, Micha Wehrli

Time	Title	Authors
14:00 – 14:05	Carbonaceous aerogel for removing pharmaceutical compounds from aqueous media	Silvia Escudero-Curiel, Marta Pazos, M. Ángeles Sanromán,



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Time	Title	Authors
14:05 – 14:10	How to choose properly: coagulation vs. electrocoagulation in wastewater treatment	Vladana Rajaković-Ognjanović, Branislav Proročić, Anja Šaponjić, Ognjen Govedarica, Branislava Lekić,
14:10 – 14:15	Ionic liquids-based polysulfone membranes for cadmium removal from aqueous solutions	Lavinia Lupa, Samuel Nick Tolea, Oana Dumbrava, Anca Filimon,
14:15 – 14:20	Sustainable use of composite sorbents to remove emerging and priority pollutants in advanced wastewater treatment processes	Carmen Teodosiu, Florin Bucatariu, Daniela Fighir, Irina Morosanu, Ramona Ciobanu, Carmen Padurarur, Marcela Mihai,
14:20 – 14:25	Immobilization of lead loaded fly ash in cement matrix	Soumitra Maiti, Basheshwer Prasad, Ashwani Kumar Minocha,
14:25 – 14:30	Coagulation-flocculation efficiency to remove natural organic matter for water treatment	Corina-Petronela Musteret, Irina Morosanu, Ramona Ciobanu, Andreea Gherghel, Oana Plavan, Ioana Roman, Carmen Teodosiu,
14:30 – 14:35	Unravelling the fluid flow through an angular photochemical reactor: tracer investigations	Drăgoi Elena Niculina, Suditu Gabriel Dan, Puițel Adrian Cătălin, Dafinescu Vlad, Pintilie Loredana, Nechita Mircea Teodor,

## Parallel Session 4. Sustainability assessment & eco-innovation

Thursday 9.09.2021, 14:00 – 15:10

Location: FHNW, Room 02W09 and online

Chairpersons: Assoc.prof.dr. Brindusa Sluser & Lect.dr. George Barjoveanu

TS: Dr. Daniela Fighir, Martin Huspeka, Meret Amrein

Time	Title	Authors
14:00 – 14:10	The 360° virtual reality preserve the ecological and architectural area	Efthymios - Spyridon Georgiou
14:10 – 14:20	Environmental product declarations for building materials: the analysis of system boundary	Francesca Scalisi, Cesare Sposito
14:20 – 14:30	A comparison of the environmental impacts associated with batch and dynamic removal of Cr(VI) by bacterial biomass	Isabela Maria Simion, Raluca Maria Hlihor, Mihaela Roșca, Cătălina Filote, Petronela Cozma, Maria Apostol, Maria Gavrilescu,
14:30 – 14:40	A life-cycle analysis of second-hand vehicles impacts in Romania	George Barjoveanu, Florența Diniță, Carmen Teodosiu
14:40 – 14:50	Sustainability assessment of water consumption: a comparison between plastic bottles and water dispenser at the University of Bologna	Anna Degli Esposti, Chiara Magrini, Sara Bottausci, Alessandro Dal Pozzo, Alessandra Bonoli
14:50 – 15:00	Micropollutant abatement with UV/H <sub>2</sub> O <sub>2</sub> oxidation or low-pressure reverse osmosis? A comparative life cycle assessment for drinking water production	Christine Roth, Robin Wünsch, Fredy Dinkel, Christoph Hugli, Richard Wülser, Michael Thomann



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**Parallel Session 5: Valorising agro-industrial sidestreams – findings from the PROLIFIC project**

**Thursday 9.09.2021, 16:30 – 17:30**

**Location: FHNW, 02S21 and online**

**Chairperson: Prof.dr. Phillippe Corvini**

**TS: George Barjoveanu Simona Falbo, Martin Huspeka**

Time	Title	Authors
16:30 – 16:40	Cascading processes to extract and valorise proteins and bioactive molecules from legumes, fungi and coffee agro-industrial side streams	Annalisa Tassoni, R. Hochstrat, P.F.X. Corvini,
16:40 - 16:50	Legumes agro-industrial side streams as alternative sources of proteins	Tullia Tedeschi, Barbara Prandi, Stefano Sforza, Marika Bondi, Jeroen Van Malderen, Georgos Tsatsos, Alexandra Nikou, Maria Ilaria Cigognini, Chiara Zurlini, Andrea Brutti,
16:50 – 17:00	Extraction and characterisation of bioactive ingredients from coffee and fungi side-streams	Job Tchoumtchoua, Stéphane Kohlen, Camille Cousseau, Monica Bergamaschi, Nicoletta Simoncini, Stefanie Verstringe, Georgios Tsatsos, Alexandra Nikou, Annalisa Tassoni,
17:00-17:10	Valorization of agro-industrial residues in biocomposites	Micaela Vannini, Laura Sisti, Paola Marchese, Annamaria Celli, Francesca Signori, Vito Gigante, Patrizia Cinelli, Giuseppe Amato, Luciano Navarini, Job Tchoumtchoua, Chiara Zurlini, Maria Ilaria Cigognini
17:10-17:20	Development of food prototypes using proteins derived from agro-industrial side streams	Dennis Schaller, János Petrusán, Reiner Stolzenberger,
17:20-17:30	Combination of life cycle assessment and economic analysis at early-stage development of bio-based products	Emmanuel Oertlé, Andrin Dietziker,



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**Parallel Session 6: Technical session on resources recovery from wastewater treatment in India (PAVITR project)**

**Thursday 9.09.2021, 16:30 – 17:45**

**Location: FHNW, Room 02W18 and online**

**Chairperson: Dr. Enrica Ugetti**

**TS: Diana Gabur & Patrick Eckert, Micha Wehrli**

Time	Title	Authors
16:30 – 16:40	Domestic sewage management using nature-based solutions for reuse in public park: an Indian experience	Bresciani R., Pophali G. R., Labhasetwar P., Hirulkar D., Lakhiani H., Sahu N., Masi F.,
16:40 - 16:50	Potential and Validation of Sustainable Natural & Advance Technologies for Water & Wastewater Treatment, Monitoring and Safe Water Reuse in India (PAVITR)	Nadeem Khalil, Mirko Hänel, Andres C. Acosta, Carlos A. Arias,
16:50 – 17:00	VFA monitoring using spectroscopy sensor for the waste management control in anaerobic digestion	Miguel Placer, Santiago Gómez-Cuervo, Rocío Pena, Ana Pascual, Juan Antonio Álvarez, Luz Herrero, Francisco Rodriguez,
17:00-17:10	Sanitation and recovery of resources by short-rotation-plantations in India	Mirko Hänel, Andres C. Acosta, Nadeem Khalil, Carlos A. Arias,
17:10-17:20	Production of high value bio-resources from treatment wetland biomass	Marco A. Rodriguez-Dominguez, Birgit E. Bonefeld, Morten A-Jensen, Mirko Hänel, Andres C. Acosta, Hans Brix, Carlos. A. Arias,
17:20-17:30	Hydrothermal processing for biomass conversion from wetland engineered wastewater treatment systems [willow-Salix viminalis]	Andrés C. Acosta, Carlos A. Arias, Patrick Biller, Hans Brix
17:30 - 17:35	Materials for P removal in wastewater treatment and the P bioavailability for plant growth	S.M. Jensen, C. Esposito, D. Konnerup, H. Brix, C.A. Arias,
17:35 – 17:40	Design and development of full-scale high rate algal ponds for wastewater treatment in India under India-EU research collaboration	Enrica Ugetti, Antonio Ortiz, Rubén Díez-Montero, Nadeem Khalil, Joan García,
17:40 – 17:45	RichWater® SBR as a competitive option for the use of reclaimed water in agriculture	Lorenzo-López A., Zapata-Aranda P., Caballero-Hernández A.





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**Friday, 10 September 2021**

**Keynotes lectures plenary session**

**Friday 10.09.2021, 09:00 – 10:30,**

**Location: FHNW, Room 02S21 and online**

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

**TS: Dr. Daniela Gavrilescu, whole Swiss TS team**

Hours	
9:00-9:30	<b>Keynote lecture 4 - Rising stars among solar cell materials,</b> <b>Prof.Dr. Frank Nüesch</b>
9:30 - 10:00	<b>Keynote lecture 5 - Sustainability at the heart of the European Green Deal,</b> <b>Dr. Giovanni De Santi</b>
10:00-10:30	<b>Keynote lecture 6 - Halogenated contaminants – a persistent problem</b> <b>Prof. Dr. Jacob de Boer</b>
10:30 – 11:00	<b>Coffee break, Mensa groundfloor</b>

**Parallel Session 7. Waste management in the context of circular (bio)economy**

**Friday 10.09.2021, 11:00 – 12:40,**

**Location: FHNW, Room 02S21 and online**

**Chairpersons: Prof.dr. Silvia Fiore & Lect.dr. Daniela Gavrilescu**

**TS: Dr. Diana Gabur, Reto Burn, Martin Huspeka**

Time	Title	Authors
11:00 – 11:10	Advanced plasma technology for the conversion of waste lubricants	Maria-Oana Agavriloaie, Maria Harja, Dorina Isopescu, Iulian Cucos,
11:10 – 11:20	Evaluation of the barriers and of the motivating factors regarding the WEEE management behaviors of the romanian university students	Oana-Cristina Modoi, Andreea Vescan,
11:20 - 11:30	Application of the eco-management and audit scheme (EMAS) in the waste-to-energy sector in Italy	Stefano Castelluccio, Anna Scarrone, Silvia Fiore, Claudio Comoglio,
11:30 – 11:40	The quantification of PET trays and bio-plastic bags to upgrade an Italian Material Recovery Facility	G. Gadaleta, S. De Gisi, S. M. C. Binetti, F. Todaro, M. Notarnicola,
11:40 – 11:50	Utilization of waste gypsum for development of sulphate resistant cement	Neeraj Jain, Soumitra Maiti,
11:50 – 12:00	A sustainable approach through hydrochar addition in bio-based new composite materials	Iuliana Bejenari, Roxana Dinu, Irina Volf, Alice Mija
12:00 – 12:10	Hydrothermal treatment in the valorisation of wastes: generation of adsorbents and catalysts	Valeria Acevedo-García, Emilio Rosales, Marta Pazos, M. Ángeles Sanromán,
13:00 - 14:00	<b>Lunch Break, FHNW 12<sup>th</sup> floor lounge / garden</b>	



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### Parallel Session 8. Monitoring and modelling of environmental pollution

Friday 10.09.2021, 11:00 – 12:40,

Location: FHNW, Room 02W18 and online

Chairpersons: Prof.dr. Ecaterina Matei & Assoc. prof.dr. Sabino DeGisi

TS: Dr. Adela Buburuzan, Simona Falbo, Meret Amrein

Time	Title	Authors
11:00 – 11:10	Enhanced detection of bicalutamide – cytostatic in water at layered double hydroxide – modified carbon nanofiber paste electrode	Sorina-Claudia Negrea, Laura Cochechi, Lidia Ani Diaconu, Valeria Nicorescu, Anamaria Baciuc, Florica Manea,
11:10 – 11:20	Open educational resources for learning waste management in rural communities	Cristina Salca Rotaru, Camelia Draghici,
11:20 – 11:30	Design of open education resources for sustainable rural development	Dana Perniu, Codrina Csesznek, Ileana Manciu, Cristina Bogatu, Camelia Draghici,
11:30 – 11:40	Nanostructured carbon-based electrode for enhanced determination of sodium diclofenac in water	Sorina Motoc, Elisabeta I. Szerb, Aniela Pop, Sorina Negrea, Florica Manea,
11:40 – 11:50	Air quality modelling by multivariable ensemble-based regression methods	Marius Gavrilescu,
11:50 – 12:00	Direct mutagenicity testing as part of the ecotoxicity test battery for the assessment complex environmental samples	Rita Márton, Viktória Feigl, Ildikó Fekete-Kertész, Mónika Molnár,
12:00 – 12:10	Modeling phosphorus loads entering partially hypoxic Lake Morat: quantifying contributing sectors and impacts of possible actions	Leila Schneider, Michael Mattle, Jürg Schweizer,
12:10 – 12:20	Air quality assessment in the minifactory of digital printing on textiles and other flat surfaces	Ada Traumann, Jane Kivistik, Piia Tint,
12:20 – 12:30	Validation of an innovative sensor for on-line monitoring of deposits in drinking water distribution networks under realistic operating conditions	Gaia Pani, Giulio Bianchi, Ilenia D'Adda, Marco Carminati, Manuela Antonelli, Andrea Turolla,
12:30 – 12:40	Analysis of PFAS in water: introduction on targeted and untargeted techniques, tbc	Holger Stalz
13:00-14:00	<b>Lunch Break, FHNW 12<sup>th</sup> floor lounge / garden</b>	

### Flash poster presentations 3. Waste management in the context of circular (bio)economy

Friday 10.09.2021, 14:00 – 14.30

Location: online

Chairpersons: Lect.dr. Daniela Fighir & Lect.dr. Camelia Smaranda

TS: Dr. Petru Apopei

Time	Title	Authors
14:00 – 14:05	The impact of waste landfills from Neamț county, Romania on the environment	Alina Agafitei, Vasile Lucian Pavel
14:05 – 14:10	Comparative analysis of two scenarios for food waste management by life cycle assessment (LCA)	Elena-Diana Ungureanu-Comanita, Ersilia Cosbuc, Simona Olteanu, Camelia Smaranda, Maria Gavrilescu
14.10 – 14.15	Preliminary performance screening of chicken manure waste treatment options	Daniela Gavrilescu, George Barjoveanu, Petru Apopei, Anisoara Talpalaru, Bogdan-Constantin Seto, Carmen Teodosiu



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14:15 – 14:20	Windows waste glass capitalization as aggregate in concret	Mihaela Fanache (Vasiliu), Liliana Lazar, Ioan Damian, Osman Gencil, Maria Harja
14:20 – 14:25	Life cycle assessment of an eco-designed house using cardboard waste as insulation material	Teofil Campean, Dan-Alexandru Gavrilescu, Maria Gavrilescu
14:25 – 14:30	Municipal solid waste characterization and sustainability assessment. Case study: Iasi city, Romania, tbc	Ana Maria Schiopu, Daniela Gavrilescu, Catalin Neculau, Carmen Teodosiu

## Flash poster presentations 4. Monitoring and modelling of environmental pollution

Friday 10.09.2021, 14.00 – 14.50

Location: online

Chairpersons: Prof.dr. Igor Cretescu & Lecturer dr. Adela Buburuzan

TS: Dr. George Barjoveanu

Time	Title	Authors
14:00 – 14:05	Fictitious reference iterative tuning method applied for an anaerobic digestion process controller	Larisa Condrachi, Marian Barbu
14:05 – 14:10	Comparative VOCs removal from gaseous streams by adsorption onto polymeric resins and activated carbon systems	Adela-Marilena Buburuzan
14:10 – 14:15	An assessment of heavy metals in commercial wines	Georgiana-Diana Dumitriu (Gabur), Carmen Teodosiu, Irina Morosanu, Oana Plavan, Iulian Gabur, Valeriu V. Cotea
14:15 – 14:20	Water quality assessment and priority pollutants monitoring in the Siret river basin, Romania	Roxana Zait Galan, Brindusa Sluser, Oana Plavan, Carmen Teodosiu
14:20 – 14:25	Environmental issues identification and protection measures in Timișoara, Romania	Nicoleta Mateoc-Sîrb, Hunor Vass, Andreea Jurjescu, Alexandru Pangratie, Cleopatra Pleșca, Teodor Mateoc, Gabriel Șuster
14:25 – 14:30	Flood risk management using GIS: analysis and implications of flood impact in Timis county, Romania	Clara – Beatrice Vilceanu, Sorin Herban
14:30 – 14:35	Application on air/ozone nanobubbles in the field of disinfection	Petroula Seridou, Nicolas Kalogerakis
14:35 – 14:40	Study on the behavior of organochlorinepesticides on soils	Camelia Bețianu, Petronela Cozma, Diana Elena Comaniță-Ungureanu, Mihaela Roșca, Mariana Minuț, Adrian Puițel, Teodor Măluțan, Maria Gavrilescu
14:40 – 14:45	Cleaning trace drugs from water through TiO <sub>2</sub> photocatalysis	Favier Lidia, Sescu Amalia Maria, Lutic Doina, Harja Maria
14:45 – 14:50	Impact of persistence organic pollutants on the aquatic ecosystems and human health considerations	Vasile Lucian Pavel, Alina Agafitei
<b>15.00-15.30</b>	<b>ICEEM11 Closing session, Room 02S21 and online</b> Chairpersons: Prof.dr. Carmen Teodosiu, Prof.dr. Philippe Corvini, Prof.dr. Fabio Fava TS: Dr. George Barjoveanu, Simona Falbo	



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<b>Z</b>	
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11<sup>th</sup> INTERNATIONAL CONFERENCE ON  
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