



# 18<sup>TH</sup> INTERNATIONAL CONFERENCE ON CHEMISTRY AND THE ENVIRONMENT

[www.icce2023.com](http://www.icce2023.com)

11 – 15 JUNE 2023 VENICE, ITALY

Venue:

SCIENTIFIC CAMPUS

CA' FOSCARI UNIVERSITY OF VENICE (ITALY)

## Conference Program



Ca' Foscari  
University  
of Venice



Dear colleagues,

On behalf of the Executive Board of the European Chemical Society, I wish you a warm welcome to this 18<sup>th</sup> International Conference on Chemistry and the Environment. The European Chemical Society – in short EuChemS – is an overarching society at the European level with over 50 national member societies as members. In this way, EuChemS represents approximately 130,000 chemists from all over Europe. Did you ever realize that by being a member of your national society, you are a member of EuChemS too?



The slogan of this conference is 'Towards a pollution free society', which is well aligned with activities from EuChemS. The European Commission recently set up the Zero Pollution Stakeholder Platform and EuChemS was invited to join. The platform will effectively mainstream the Zero Pollution agenda by bringing together stakeholders and experts of different policy areas, including health, agriculture, research and innovation, transport, digitalization, and the environment. EuChemS will emphasize to address the Zero Pollution challenges from the chemistry perspective in a science-based approach.

I am here in the Netherlands, but you are in the beautiful city of Venice, that I am sure will inspire you to have fruitful and constructive discussions on how to get to zero pollution and how to address many other challenges to create a sustainable environment. I wish you a very enjoyable conference!

*Floris Rutjens*

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President of the European Chemical Society (EuChemS)



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Ester Heath	Jožef Stefan Institute	Slovenia
Silvia Lacorte Bruguera	Institute of Environmental Assessment and Water Research	Spain
Patrik Andersson	Umeå University	Sweden

## PROGRAMME OVERVIEW

## Sessions

1. Air pollution: chemistry and health risks
2. Airborne transport and subsequent deposition of pesticides in non-target areas
3. Organic and inorganic pollutants in wastewaters and natural waters: treatment processes and emission control technologies
4. Priority and emerging pollutants in natural and drinking waters: occurrence, (bio-)degradation processes, and environmental fate
5. Biologically active substances, transformation products and antibiotic resistance determinants in wastewater and sludge receiving environments
6. Per- and Poly-fluoroalkyl Substances (PFAS) in air, water, soil, sediments, and biota: advances in detection, quantification, remediation, and destruction
7. Joint Sessions DAC-DCE EuChemS: Recent developments in analytical methods for the detection and quantification of persistent and emerging contaminants in the environment
8. Advances in target and non-target screening in environment, food and health related matrices by high resolution mass spectrometry
9. New challenges regarding exposure to nanomaterials: from analytical methods to environmental modelling
11. Joint Session DCE EuChemS - DCE IUPAC: Advances in remediation technologies for the reclamation of soil and sediments contaminated by organic and inorganic pollutants
12. Recent advances in computational approaches for early identification and better understanding of chemical hazards
13. Climate change impacts on the fate and behaviour of nutrients and pollutants in the environment
14. From hazard to risk assessment of chemicals and chemical mixtures for the ecosystems and the human health: exposure, ecotoxicological effects, fate, and modelling
15. Nano- and micro-plastics in the environment
16. Green and sustainable chemistry as an enabler of circular economy: safe-by-design approaches and LCA-based assessment tools
17. Environmental and climate change impacts on cultural heritage
18. New policies, legislation, and communication strategies for a more sustainable management of chemicals to protect environmental resources
19. Higher education in Environmental Science: challenges and innovations
20. PMT/vPvM substances: Occurrence, Assessment, Management and Regulation
21. Joint Session DCE EuChemS – DCE IUPAC: Humic substances (HS) and natural organic matter (NOM) dynamics and environmental impact
22. Integration of experimental and modelling approaches to investigate chemicals behaviour and risk in marine, coastal and transitional environments

## Sunday 11<sup>th</sup> June 2023

8:30	Registration
9:00	Satellite Events
12:00	Lunch
13:00	Satellite Events
16:30	Pause
17:30	Opening Ceremony Plenary Session: Prof. Martin Scheringer Career Award presentation by Prof. Walter Giger
19:30 21:30	Welcoming Party in Forte Marghera

## Monday 12<sup>th</sup> June 2023

8:00	Registration					
8:30	Plenary Session: Prof. Roberto Terzano					
9:15	Move to sessions' location					
		<b>ROOM 1</b>	<b>ROOM 2</b>	<b>ROOM 3</b>	<b>ROOM 4</b>	<b>ROOM 5</b>
9:25	Slot OP-1	SE07	SE03	SE04	SE15	SE02
11:30	Coffee break					
11:45	Slot OP-2	SE07	SE03	SE04	SE15	SE02
13:05	Lunch					
14:15	Slot OP-3	SE07	SE03	SE04	SE15	SE13
16:20	Coffee break					
16:35	Slot OP-4		SE03		SE15	SE13
17:40 19:00	Poster session PP-1					



## Tuesday 13<sup>th</sup> June 2023

8:00	Registration					
8:30	Plenary Session: Prof. Christian Zwiener					
9:15	Move to sessions' location					
		<b>ROOM 1</b>	<b>ROOM 2</b>	<b>ROOM 3</b>	<b>ROOM 4</b>	<b>ROOM 5</b>
9:25	Slot OP-1	SE08	SE03	SE01	SE15	SE16
11:30	Coffee break					
11:45	Slot OP-2	SE08	SE03	SE01	SE15	SE16
13:05	Lunch					
14:15	Slot OP-3	SE08	SE03	SE01	SE15	SE16
16:20	Coffee break					
16:35	Slot OP-4	SE08		SE01	SE15	
18:05 19:00	Poster session PP-1					

## Wednesday 14<sup>th</sup> June 2023

8:00	Registration					
8:30	Plenary Session: Prof. Adrian Covaci					
9:15	Move to sessions' location					
		<b>ROOM 1</b>	<b>ROOM 2</b>	<b>ROOM 3</b>	<b>ROOM 4</b>	<b>ROOM 5</b>
9:25	Slot OP-1	SE11	SE04	SE01	SE09	SE06
11:30			Coffee break			
11:45	Slot OP-2		SE03	SE01	SE09	SE06
13:05			Lunch			
14:15	Slot OP-3	SE21	SE03	SE20	SE05	SE06
16:20			Coffee break			
16:35	Slot OP-4					SE06
17:40 19:00			Poster session PP-2			

## Thursday 15<sup>th</sup> June 2023

8:00	Registration					
8:30	Plenary Session: Prof. Dionysios (Dion) D. Dionysiou					
9:15	Move to sessions' location					
		<b>ROOM 1</b>	<b>ROOM 2</b>	<b>ROOM 3</b>	<b>ROOM 4</b>	<b>ROOM 5</b>
9:25	Slot OP-1	SE12	SE14	SE22	SE18	SE20
11:30	Coffee break					
11:45	Slot OP-2	SE12	SE14			
13:05	Lunch - Poster session PP-2					
14:15	Slot OP-3		SE14	SE17		SE19
16:20	Coffee break					
16:35	Closing Ceremony					
17:00						

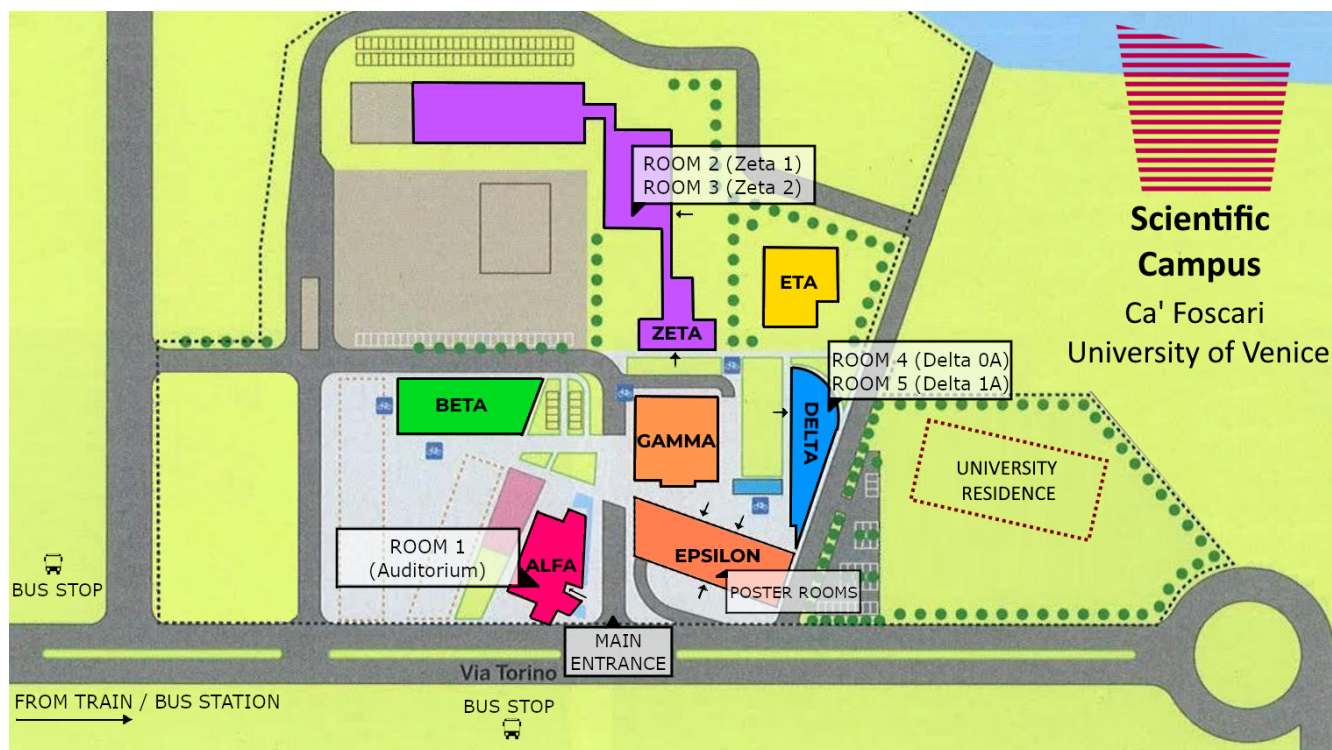
### Abbreviation table

<b>KN</b>	Keynote Presentation
<b>OP</b>	Oral Presentation
<b>PP</b>	Poster Presentation
<b>PS</b>	Poster Presentation with spotlight (5 min, 3 slides max)
<b>PP1</b>	Poster session 1 (PP1): Monday (17:40 – 19:00) and Tuesday (18:05 – 19:00)
<b>PP2</b>	Poster session 2 (PP2): Wednesday (17:40 – 19:00) and Thursday (13:05 – 14:15)

The first 3 characters in the poster code represent the session the poster will be displayed, and the number is the number of the poster board. For example, poster PP1\_052 will be displayed on Monday and Tuesday on poster board 52.

Since Session "3 - Organic and inorganic pollutants in wastewaters and natural waters: treatment processes and emission control technologies" has oral presentations over three days, poster that belong to this session will be on display for the whole Conference and indicated with the PP2\_ prefix.

## VENUE MAP



All Satellite Events will be held in classrooms situated in the **Delta building**:

Ground floor: Delta 0A and Delta 0B

First floor: Delta 1A and Delta 1B

Second floor: Delta 2A, Delta 2B, and Delta 2D.

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## Waters @ ICCE 2023 – Lunchtime Seminar on June 12<sup>th</sup>

**Room 5 – Starts at: 13.05**

### Title

High-end analytical solutions for the analysis of Polar Pesticides, Pesticides, Pharmaceuticals, and Personal Care Products, and as well discover the analysis with APGCMSMS

[REGISTER HERE](#)

### Abstract

Learn on latest environmental analytical solutions from Waters' experts:

- **Pesticides, pharmaceuticals, and personal care products**  
How to develop a multi-residue method for more than 150 compounds with LOQs at 10 ng/l?
- **Polar pesticides**  
How to analyze Glyphosate, Glufosinate and AMPA in environmental water with direct injection?
- **Atmospheric Pressure GC-MS**  
Discover the four reasons why APGC will change the game for your pesticide and dioxin analysis.

### Speakers

- Hannah Willmer, Senior Application Chemist - Waters
- Jenny Davies, Principal Application Chemist - Waters
- Andrea Perissi, Senior MS Sales Development Specialist - Waters

A packed lunch will be provided by Waters to the participants.



## DETAILED PROGRAMME – Satellite Events

On **Sunday 11 June 2023**, a set of Satellite Events is offered prior to the opening of the Conference.

Half-day courses are 3 hours in length and are presented either in the morning (09:00-12.30) or afternoon (13:30-16:30), while full-day courses include 3-hour sessions in both the morning and afternoon, with a one-hour lunch break around 12:30.

Lunch will be available to all attendees, and a coffee corner will be present the whole day.

### Satellite Events - Sunday 11 June 2023

Time	Title
09:00 - 16:30	<b>The enviPath system for microbial bio-transformation pathway prediction and storage – Introduction and applications</b> by Kathrin Fenner
<b>Room</b> Delta 2B	Kathrin Fenner: <i>Introduction to enviPath</i> Jasmin Hafner: <i>Biodegradation data in enviPath: soil, sludge, sediment</i> Kunyang Zhang: <i>Introduction to predictive models in enviPath</i> Jasmin Hafner, Kunyang Zhang: <i>Hands-on exercises and work on own questions</i> Claudia Coll: <i>Using enviPath for transformation product screening in biotransformation experiments</i> Sebastian Schmidt: <i>Using enviPath in R&amp;D at a pesticide company</i> Jeff Osborn: <i>Using enviPath in biochemistry teaching</i> Kunyang Zhang: <i>Ongoing developments of enviPath: automatic rule extraction</i> Jörg Wicker: <i>Ongoing developments of enviPath: applicability domain evaluation</i> Jasmin Hafner: <i>Developing structure-based half-life prediction models based on enviPath data</i>
Time	Title
09:00 - 15:00	<b>Organic pollutants in polar regions: Where do they come from?</b> by Roland Kallenborn
<b>Room</b> Delta 1A	Roland Kallenborn: <i>Welcome and technical comments</i> Cynthia de Wit: <i>Motivation and report concept, Introduction into the topic</i> Hayley Hung: <i>Long-range transport – Diffusive pollution sources</i> Katrin Vorkamp: <i>Modelling local sources and long-range transport: A case study from Nuuk</i> Roland Kallenborn: <i>Domestic, industrial and military pollution sources</i> Pernille E. Jensen: <i>Emissions of chemicals with wastewater</i> Derek C.G. Muir & Maria Gunnarsdottir: <i>Future perspectives</i> Timo Seppälä & Emily Cowan: <i>Regulatory aspects</i> Lars-Otto Reiersen: <i>Local contaminant sources in the history of AMAP</i> All contributing experts: <i>Open discussion and concluding remarks</i>

**Room**  
Delta 2A

Udit Pant: *SERS-based low-cost platform for analysing micro-and nanoplastics in food products*  
Ali Can: *Cytotoxic effects of polystyrene micro and nanoplastics on*

**Room**  
Delta 2D

Sofia Costa: *Book Publishing and Innovation*

## DETAILED PROGRAMME – Oral presentations

### Session 1 - Air pollution: chemistry and health risks

Chairpersons: Gerhard Lammel, Pérola de Vasconcellos, and Barend L. van Drooge

#### Tuesday 13<sup>th</sup> June 2023 - ROOM 3 - Slot OP1

##### Ambient air pollution and health

09:30 - 10:00	<b>KN01</b>	<b>Advanced Air Quality Parametres in Europe</b>
	X. Querol	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
10:00 - 10:15	<b>OP277</b>	<b>Aerosol Characterization in a Central-West Site Of Brazil: Influence of Farming Activities and Toxicity</b>
	P. Vasconcellos	Universidade de Saõ Paulo
10:15 - 10:30	<b>OP285</b>	<b>New Approach Methodologies and Chemometrics to Study the Effects of Airborne Pollution on Lung Health: Application to Air Samples From Suburban and Rural Backgrounds</b>
	C. Bedia	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
10:30 - 10:45	<b>OP1991</b>	<b>Exploring the Chemical Transformations of Biomass Burning and Diesel Exhausts at the EUPHORE Simulation Chamber</b>
	M. Rodenas	Fundación CEAM. EUPHORE lab
10:45 - 11:00		
11:00 – 11:15	<b>OP294</b>	<b>The Investigation of Biomass Burning Events in The Arctic Using Optical and Chemical Measurments</b>
	E. Barbaro	Ca' Foscari University of Venice, CNR-ISP
11:15 – 11:30	<b>OP900</b>	<b>Good News: Some Insecticides Have been Virtually Eliminated in the Air near the Great Lakes</b>
	M. Venier	Indiana University

#### Tuesday 13<sup>th</sup> June 2023 - ROOM 3 - Slot OP2

##### Ambient air pollution: processes - part I

11:45 - 12:00	<b>OP208</b>	<b>Fast and Cost Efficient Analysis of Organic Molecular Tracer Compounds in PM for Source Apportionment Studies</b>
	B. L. van Drooge	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
12:00 - 12:15	<b>OP153</b>	<b>Contribution of Atmospheric Nitroaromatic Compounds to Light Absorption of Water-Soluble Brown Carbon and its Potential Aqueous-Phase Formation</b>
	I. Grgić	National Institute of Chemistry
12:15 - 12:30		



12:30 - 12:45	<b>OP57</b>	<b>200 Years of NH<sub>3</sub> Inventory in Europe Inferred From 15N Of NH<sub>4</sub><sup>+</sup> in Mont-Blanc Ice Core With Unexpected Recent Combustion-Related Emissions</b>
	A. Lamothe	Univ. Grenoble Alpes
12:45 - 13:00	<b>OP280</b>	<b>Spatial and Temporal Variation of Particulate Matter at Micro Level in Different Types of Urban Hotspots in an Indian Metropolis</b>
	D. Madayil	Indian Institute of Technology

### Tuesday 13<sup>th</sup> June 2023 - ROOM 3 - Slot OP3

#### Ambient air pollution: processes - part II

14:15 - 14:30	<b>OP130</b>	<b>Chemical Composition of PM<sub>2.5</sub></b>
	P. Vasconcellos	University of São Paulo (IQ-USP)
14:30 - 14:45	<b>OP217</b>	<b>Re-Emissions of Nitrated and Oxygenated Pahs From Land and Sea Surfaces in Source and Receptor Areas</b>
	G. Lammel	Masaryk University, Max Planck Institute for Chemistry
14:45 - 15:00	<b>OP194</b>	<b>Unique Environmental Conditions at Dragon Eye Marine Lake (Croatia) Promoting New Particle Formation</b>
	K. Vidovic	National Institute of Chemistry, Ruđer Bošković Institute
15:00 - 15:15	<b>OP265</b>	<b>Physico-Chemical Characterization of Ultrafine Particles Emitted by Different Transport Modes at Different European Cities</b>
	S. Ridolfo	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
15:15 - 15:30	<b>OP3005</b>	<b>Ambient Air PM<sub>2.5</sub> and Associated PAHs Assessment at Urban Background Sites in Bulgaria</b>
	L. Gonsalvesh	Prof. Dr Assen Zlatarov University
15:30 - 15:45	<b>OP192</b>	<b>Vertical Distribution of Organic Aerosols Under Temperature Inversions: Measurement by Using Tethered Balloons</b>
	C. Jaén	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
15:45 - 16:00	<b>OP321</b>	<b>Atmospheric Sink Mechanism of 4-Isobutylacetophenone, a Toxic Intermediate Product from Ibuprofen Decomposition</b>
	R. I. Olariu	"Alexandru Ioan Cuza" University of Iasi
16:00 - 16:15	<b>OP116</b>	<b>Multi Source Analysis of Vocs in Rural, Semi-Urban and Urban Areas and their Role on Ozone and SOA Formation</b>
	I. Díez-Palet	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)

### Tuesday 13<sup>th</sup> June 2023 - ROOM 3 - Slot OP4

#### Ambient air pollution and health

16:35 - 16:50	<b>OP1713</b>	<b>Study of CO<sub>2</sub> Adsorption on Activated Carbon Spheres</b>
	I. Pełech	West Pomeranian University of Technology in Szczecin

16:50 - 17:05	<b>OP2485</b>  F. Ippolito	<b>Comparison of Source Apportionment Methods: Receptor Models - PMF and Dispersion Models - Camx/PSAT in Po Valley (Italy) and Catalonia (Spain)</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
17:05 - 17:10	<b>PS2738</b> PP1_025 A. K. Halse	<b>An Approach to Assess the Biological Effects of Semi-Volatile Organic Chemicals in Indoor Air</b> Norwegian Institute for Air Research (NILU)
17:10 - 17:15	<b>PS210</b> Poster: PP1_004 B. L. van Drooge	<b>Antibiotic Resistance Genes and Air Pollution in a Primary School in Barcelona</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
17:15 - 17:20		
17:20 - 17:25	<b>PS306</b> Poster: PP1_006 R. Zangrando	<b>Biomass Burning Traces in the Arctic Atmosphere in Winter, Fairbanks (Alaska)</b> CNR-ISP
17:25 - 17:30	<b>PS369</b> Poster: PP1_009 F. Monaci	<b>Tracking Long-Term Gaseous Elemental Mercury Concentrations by Passive Air Sampling at an Abandoned Mining Site and Nearby Urban Area</b> University of Siena
17:30 - 17:35	<b>PS2444</b> Poster: PP1_019 N. Ratola	<b>Passive Air Sampling of Volatile Methylsiloxanes, Synthetic Musks and Pahs in Latin America</b> University of Porto-LEPABE, ALiCE

### Wednesday 14<sup>th</sup> June 2023 - ROOM 3 - Slot OP1

#### Occupational and indoor air pollution - part I

09:30 - 09:45	<b>OP1424</b>  M. Ricciardi	<b>A Multi-Analytical Approach for the Identification of Pollutant Sources on Cultural Heritage</b> University of Salerno
09:45 - 10:00	<b>OP259</b>  P. Martinache	<b>Quaternary Ammoniums Compounds in Indoor Environment: Links Between Biocidal Uses and Contamination</b> University Paris Est-Creteil
10:00 - 10:15	<b>OP2504</b>  A. Brunelli	<b>Assessing a Mobile Urban Street Cleaning Activity</b> Ca' Foscari University of Venice
10:15 - 10:30	<b>OP2442</b>  N. Ratola	<b>Presence And Impact of Volatile Methylsiloxanes in the Air of a WWTP and other Indoor Environments</b> University of Porto-LEPABE, ALiCE
10:30 - 10:45	<b>OP2811</b>  J. Palmisani	<b>CO2 Concentration Monitoring inside Educational Buildings as a Strategic Tool to Reduce the Risk of Sars-Cov-2 Airborne Transmission</b> University of Bari
11:15 - 11:30	<b>OP506</b>  S. Lomnicki	<b>Environmentally Persistent Free Radicals - Activation, Chemistry and Impact on Exposure Systems</b> Louisiana State University
11:45 - 12:00	<b>OP424</b>	<b>Pollutant Emissions from Wood-Fired Pizza Ovens</b>

	A. Bergomi	University of Milan
12:00 - 12:15	<b>OP278</b>	<b>Potential Threat due to Heavy Metals and PAHs associated with PM2.5 and PM 10 in Households of a Mega-City: A case study</b>
	A. Lawrence	Isabella Thoburn College
12:15 - 12:30	<b>OP2365</b>	<b>Potential Threat due to Heavy Metals and PAHs associated with PM2.5 and PM 10 in Households of a Mega-City: A case study</b>
	A. Taushiba	Isabella Thoburn College

## 2 - Airborne transport and subsequent deposition of pesticides in non-target areas

Chairpersons: Konstantin Kuppe, Carole Bedos and Ulrike Krug

### Monday 12<sup>th</sup> June 2023 - ROOM 5 - Slot OP1

09:30 - 10:00	<b>KN02</b>	<b>Monitoring of Pesticides in Outdoor Air: the French Case Study</b>
	F. Botta	Anses
10:00 - 10:15	<b>OP167</b>	<b>Long-Range Atmospheric Transport of Currently-Used Pesticides Over Europe</b>
	L. Mayer	Masaryk University
10:15 - 10:30	<b>OP315</b>	<b>Residential Contamination By Agricultural Pesticides in the Bordeaux Wine Region</b>
	R. Teysseire	University of Bordeaux, Bordeaux Hospital, Department of Occupational and Environmental Medicine
10:30 - 10:45	<b>OP426</b>	<b>Formation of Ozone and Secondary Organic Aerosol from the Atmospheric Degradation of Insecticides Mixed with Terpenes Emitted by Citrus and Vineyard Crops</b>
	A. Muñoz	Fundación CEAM. EUPHORE lab
10:45 - 11:00	<b>OP797</b>	<b>Long-Range Atmospheric Transport of Current-Use Plant Protection Products (PPPs) through the Analysis of Sediment Cores from Alpine Lakes</b>
	S. Cirelli	University of Bern
11:00 - 11:15	<b>OP406</b>	<b>New Insights into Pesticide Droplets Dispersion Modelling with a Coupled Lagrangian Stochastic and Second Order Turbulence Model. Comparison with a New French Dispersion Dataset</b>
	B. Loubet	Université Paris-Saclay

### Monday 12<sup>th</sup> June 2023 - ROOM 5 - Slot OP1

11:45 - 11:50	<b>PS159</b>	<b>Principles and Best Practices for Measurements and Data Interpretation of Pesticides in Air</b>
	Poster: PP1_028 M. Bruggemann	Bayer AG
11:50 - 11:55	<b>PS391</b>	<b>Assessment of Atmospheric Organochlorine Pesticides over a Decade in Spain (2008-2019)</b>
	Poster: PP1_030 B. Jiménez	Institute of Organic Chemistry (IQOG-CSIC)

11:55 - 12:00	<b>PS438</b> Poster: PP1_031 A. Muñoz	<b>Comparative Analysis of Drift in Air Between Conventional and Optimized Application of Pesticides</b>  Fundación CEAM. EUPHORE lab
12:00 - 12:05	<b>PS2436</b> Poster: PP1_032 E. Fuentes	<b>Pesticide Inhalation Exposure and Urinary Metabolites Risk Assessment using Conventional and Innovative Cropping Systems in Citrus and Vineyard Crops</b>  Foundation for the Promotion of Health and Biomedical Research in the Valencia Region
12:05 - 12:10	<b>PS174</b> Poster: PP1_029 L. Mayer	<b>Improving Knowledge on the Atmospheric Fate of Current-Use Pesticides: A Case Study in Central Europe</b>  Masaryk University

### 3 - Organic and inorganic pollutants in wastewaters and natural waters: treatment processes and emission control technologies

Chairpersons: Ioannis Katsoyiannis, Urs von Gunten, Stefanie Wieck and Kai Bester

#### Monday 12<sup>th</sup> June 2023 - ROOM 2 - Slot OP1

#### Advanced oxidation methods for water treatment: AOPs, UV/O<sub>3</sub>, UV/H<sub>2</sub>O<sub>2</sub>, persulfate, UV/peracids, ozonation - part I

09:30 - 10:00	<b>KN03</b>  J. Wenk	<b>Microplastic, Trace Contaminant, Antimicrobial Resistance and Nutrient Dynamics in a Conventional Municipal Wastewater Treatment Process Coupled to a Polishing Constructed Wetland</b>  University of Bath
10:00 - 10:15	<b>OP366</b>  K. Bester	<b>Venlafaxine and Tramadol Produce Different Ozonation Products in Pure and Wastewater</b>  Aarhus University
10:15 - 10:30	<b>OP380</b>  V. Rougé	<b>Ozonation of Secondary Metabolites from Cyanobacteria: Simultaneous Multi-Compound Competition Kinetic Measurements</b>  Swiss Federal Institute of Aquatic Science and Technology (Eawag)
10:30 - 10:45	<b>OP68</b>  U. von Gunten	<b>Oxidation of Micropollutants During Drinking Water Ozonation: Formation of Transformation Products and their Fate During Biological Post-Filtration</b>  Swiss Federal Institute of Aquatic Science and Technology (Eawag)
10:45 - 11:00	<b>OP188</b>  S. Murgolo	<b>Comprehensive Assessment of Zero-Liquid-Discharge Treatments for Indirect Potable Reuse of Tertiary Wastewater Using Advanced Oxidation Processes Versus Conventional Treatments: Fate of Microbiological Parameters and Compounds of Emerging Concern</b>  CNR-IRSA
11:00 - 11:15	<b>OP917</b>  A. Chiavola	<b>Advanced Treatment of WWTP Effluent for the Removal of Contaminants of Emerging Concern: Laboratory and Full-Scale Studies</b>  Sapienza University of Rome
11:15 - 11:30		



**Monday 12<sup>th</sup> June 2023 - ROOM 2 - Slot OP2**
**Advanced oxidation methods for water treatment: AOPs, UV/O<sub>3</sub>, UV/H<sub>2</sub>O<sub>2</sub>, persulfate, UV/peracids, ozonation - part II**

11:45 - 12:00	<b>OP355</b>	<b>Removal of Fluoroquinolone Antibiotics from Water by Heterogeneous Fenton Process with Iron Sulphate Modified Biochar</b>
	A. Fiorentino	University of Salerno
12:00 - 12:15	<b>OP2715</b>	<b>Effluent Organic Matter (EfOM)-Mediated Photosensitized Activation of Monochloramine (NH<sub>2</sub>Cl) for Micropollutant Degradation in Treated Wastewater</b>
	S. Lu	The Hong Kong University of Science and Technology
12:15 - 12:30	<b>OP3004</b>	<b>Influence of Bromide and pH Adjustment Strategies on Micropollutant Degradation in the UV/NH<sub>2</sub>Cl and UV/NHCl<sub>2</sub> Processes</b>
	K. Wang	The Hong Kong University of Science and Technology
12:30 - 12:45	<b>OP88</b>	<b>Application of Persulfate Oxidation for Secondary Wastewater Disinfection</b>
	C. D. Rodrigues	University of Porto
12:45 - 13:00	<b>OP2535</b>	<b>Photocatalytic ZnO Molecular Foams for the Degradation of Micropollutants</b>
	Z. Warren	University of Bath

**Monday 12<sup>th</sup> June 2023 - ROOM 2 - Slot OP3**
**Advanced oxidation methods for water treatment: AOPs, photocatalysis and further processes**

14:15 - 14:30	<b>OP107</b>	<b>Efficient Removal of AB74 Dye From Wastewater Using Hybrid Catalysts: Comparative Studies on Ce-LDH-GO and Mo-LDH-GO Composites</b>
	R. Zavoianu	University of Bucharest
14:30 - 14:45	<b>OP344</b>	<b>Application of Chemometric Approaches to a Photocatalytic Pilot Plant for Environmental Issues and Study of the Material Recovery</b>
	N. Ghibaudo	Chemistry and Industrial Chemistry Department
14:45 - 15:00	<b>OP2466</b>	<b>Magnetic-Nanocomposite-TiO<sub>2</sub> Immobilized Poly(Ethylene Terephthalate) Beads as Photocatalysts for Removal of Antidepressants Under UV Irradiation at Pilot Plant Scale</b>
	E. Evgenidou	Aristotle University of Thessaloniki, Centre for Interdisciplinary Research and Innovation (CIRI-AUTH)
15:00 - 15:15	<b>OP2475</b>	<b>Efficiency of Buoyant TiO<sub>2</sub>-Immobilized Poly (Ethylene Terephthalate) Beads towards Pregabalin Photocatalytic Degradation</b>
	N. M. Ainali	Aristotle University of Thessaloniki, Centre for Interdisciplinary Research and Innovation (CIRI-AUTH)
15:15 - 15:30	<b>OP3001</b>	<b>Immobilised Carbon Nitride for the Photocatalytic Elimination of Psychoactive Pharmaceuticals</b>
	J. Faria	University of Porto
15:30 - 15:45	<b>OP2866</b>	<b>Structured Graphitic Carbon Nitride Films for The Removal of Micropollutants from Urban Wastewaters</b>
	M. J. Sampaio	University of Porto (LSRE-LCM), ALiCE
15:45 -	<b>OP177</b>	<b>Micropollutants Abatement From Wastewater by Using Alkali-</b>

16:00		<b>Activated Foams as Catalyst Supports in Advanced Oxidation Processes</b>
	M. Rabbil	University of Oulu
16:00 - 16:15	<b>OP178</b>	<b>Oxidants and Catalysts Free Fast Antibiotics Degradation in Water by Hydrodynamic Cavitation (HC) Treatment Combined with in Situ Generated Electrical Discharge Plasma</b>
	F. Verdini	University of Turin

### Monday 12<sup>th</sup> June 2023 - ROOM 2 - Slot OP4

#### Advanced oxidation methods for water treatment: AOPs, photocatalysis and further processes

16:35 - 16:50	<b>OP2924</b>	<b>Ultrasound-Enhanced Carbocatalysis Using Iron-Activated Biochar and Peroxymonosulfate: Effect of Frequency on the Removal of Acetaminophen from Waters</b>
	R. Torres-Palma	Universidad de Antioquia (UdeA)
16:50 - 17:05		

### Tuesday 13<sup>th</sup> June 2023 - ROOM 2 - Slot OP1

#### Adsorption, membranes, and catalysis for wastewater, groundwater, and drinking water treatment - part I

09:30 - 09:45	<b>OP356</b>	<b>Characterizing Inorganic Elements in Urban Treated Wastewater for Sustainable Management: Variability and Fractionation of Metals</b>
	E. Varennes	INRAE, UR REVERSAAL
09:45 - 10:00	<b>OP712</b>	<b>Innovative Technologies for Potential Toxic Elements Water Treatment</b>
	M. E. Pereira	University of Aveiro
10:00 - 10:15	<b>OP1146</b>	<b>Efficient Magnetic Sorbentes for Cleaning Rare Earth Elements from Water</b>
	D. Tavares	University of Aveiro
10:15 - 10:30		
10:30 - 10:45	<b>OP1197</b>	<b>Study of A High-Rejection, Aquaporin-Inside Lab-Scale Hollow Fiber Module for Osmotic Dewatering: Three-Dimensional CFD Modeling and Experiments</b>
	S. Rampriyan	Indian Institute of Technology
10:45 - 11:00	<b>OP29</b>	<b>Driving Resource Resilience: Layered Double Hydroxides for Antibiotic Remediation from Wastewaters</b>
	A. L. Johnston	University of Nottingham
11:00 - 11:15	<b>OP165</b>	<b>Removal of Organic Micropollutants and Heavy Metals in Electrodialysis Treatment for Nutrient Recovery from Nitrified MBR Filtrate</b>
	P. Genz	Helmholtz-Centre for Environmental Research (UFZ)

11:15 - 11:30	<b>OP298</b>	<b>Synergistic Removal of Pharmaceuticals and Emerging Contaminants from Aqueous Solutions: an Investigation of Bi-Metal Catalysts, Magnesium, and Green Hydrogen as Efficient Degradation Agents</b>
	R. Singh	Hochschule Wismar – University of Applied Sciences

**Tuesday 13<sup>th</sup> June 2023 - ROOM 2 - Slot OP2**
**Adsorption, membranes, and catalysis for wastewater, groundwater, and drinking water treatment - part II**

11:45 - 12:00	<b>OP329</b>	<b>A Novel Concept of Environmental Samplers Based on Functionalized Membranes for the Control of Organic and Inorganic Pollutants in Water</b>
	M. E. Antico Daro	University of Girona (UdG)
12:00 - 12:15	<b>OP67</b>	<b>Reactive Black 5 Dye Removal from Wastewater Using Orange, Banana and Pomegranate Peels as Natural Adsorbents</b>
	A. Tolkou	International Hellenic University
12:15 - 12:30	<b>OP253</b>	<b>A New Combination of Dye-Surfactant To Bring Down the Methyl Violet Dye Waste, an Industrial Pollutant: A Pilot Study</b>
	S. Dash	
12:30 - 12:45	<b>OP348</b>	<b>Effect of Molecular Weight of Polyethylenimine on Chromate and Arsenate Adsorption Capacity of Polyethylenimine-Silica Composite Material in Aqueous Media</b>
	M. Xanthopoulou	Aristotle University of Thessaloniki

**Tuesday 13<sup>th</sup> June 2023 - ROOM 2 - Slot OP3**
**Adsorption, membranes, and catalysis for wastewater, groundwater, and drinking water treatment - part III**

14:15 - 14:30	<b>OP61</b>	<b>Enhancing and Sustaining Arsenic Removal in a Zerovalent Iron-Based Magnetic Flow-Through Water Treatment System</b>
	Y. Jiang	The Hong Kong Polytechnic University
14:30 - 14:45	<b>OP1791</b>	<b>Efficient Cadmium Removal From Aqueous Solution Using Sustainable Clay/Polymer Composite Beads: Kinetic, Equilibrium and Thermodynamic Study</b>
	K. Achcharar	University of Poitiers
14:45 - 15:00	<b>OP2857</b>	<b>Treating Waste with Waste – the Use of Spent Tea and Coffee Wastes as Adsorption Media for Wastewater Treatment</b>
	T. Dugmore	University of York
15:00 - 15:15	<b>OP73</b>	<b>Wastewater Filtration Using Adsorbents Based on Spent Coffee Grounds</b>
	I. Block	Universität Potsdam
15:15 - 15:30		
15:30 - 15:45	<b>OP1427</b>	<b>Electrochemical Removal of Phosphorus from Simulated Wastewater</b>
	A. Lopes	Universidade da Beira Interior

**Wednesday 14<sup>th</sup> June 2023 - ROOM 2 - Slot OP2**
**Disinfection by-products – a challenge for science and regulation**

11:45 - 12:00	<b>OP44</b>	<b>Advancing the Reactive Nitrogen Species Pathway for N-Nitrosodimethylamine (NDMA) Formation in Chloramine Systems: Nitrogen and Oxygen Mass Balances from Dichloramine Decay</b> J. Fairey University of Arkansas
12:00 - 12:15	<b>OP338</b>	<b>Formation of Nitrogenous Disinfection by-Products Under Various Climate Change Scenarios</b> A. Kozari Aristotle University of Thessaloniki
12:15 - 12:30	<b>OP2115</b>	<b>Development of Membrane Introduction Mass Spectrometry Method for the Quantification of Bromochloramines</b> Y. Xiang Université de Poitiers
12:30 - 12:45	<b>OP405</b>	<b>Analysis of Disinfection By-Products (DBPs) In Laboratory Disinfection Simulations and From Genuine Disinfection Uses – Analytical Challenges and Factors Influencing DBP Formation</b> M. Hüben Fraunhofer Institute for Molecular Biology and Applied Ecology IME
12:45 - 13:00	<b>OP410</b>	<b>Metal-Organic Frameworks as Efficient Adsorbents of Drinking Water Disinfection By-Products</b> G. S. Cano R&D&I Department, IMDEA Energy Institute

**Wednesday 14<sup>th</sup> June 2023 - ROOM 2 - Slot OP3**
**Organic micropollutants in urban waters: emissions, metabolization and chemical transformation**

14:15 - 14:30	<b>OP260</b>	<b>A Survey of Industrial N-Nitrosamine Discharges in Switzerland</b> F. Breider Ecole Polytechnique Fédérale de Lausanne
14:30 - 14:45	<b>OP98</b>	<b>Combined Sewer Overflows - Do Biocides Play a Role?</b> C. Meier German Environment Agency (UBA)
14:45 - 15:00	<b>OP2876</b>	<b>Photochemical Transformation of Thiophenes in the Aquatic Environment</b> O. Yushchenko Institute of Biogeochemistry and Pollutant Dynamics (IBP)
15:00 - 15:15	<b>OP230</b>	<b>Attenuation of Trace Organic Compounds Along Specific Hyporheic Flow Paths</b> C. Reith Leibniz Institute of Freshwater Ecology and Inland Fisheries, Technical University of Berlin
15:15 - 15:30	<b>OP320</b>	<b>Coupled Physical and Chemical Fouling Control Methods in Submerged Anaerobic Ceramic Membrane Bioreactor System Treating High Strength Food Wastewater</b> S. Lee Sungkyunkwan University
15:30 - 15:45	<b>OP375</b>	<b>Hydrochar or Biochar Amendments to Increase the Retention of Organic Micropollutants and Pathogens in Managed Aquifer Recharge Systems (MAR)</b> U. E. Bollmann Geological Survey of Denmark and Greenland (GEUS)
15:45 - 16:00	<b>OP198</b>	<b>Long-Term Drift in Several Properties of Newer Pharmaceuticals: Are They Increasingly Recalcitrant to Removal in Wastewater Treatment?</b> D. Tedoldi Univ Lyon

## 4 - Priority and emerging pollutants in natural and drinking waters: occurrence, (bio-)degradation processes, and environmental fate

Chairpersons: Dionysios Dionysiou, Teresa Mairinger and Davide V. Vione

Monday 12 <sup>th</sup> June 2023 - ROOM 3 - Slot OP1		
Analysis, occurrence, and fate of contaminants in the environment - part I		
09:30 - 10:00	<b>KN04</b>	<b>Plant Protection Product Residues in the Environment – Still Analytical and Environmental Challenges to Overcome!</b>
	J. Hollender	Swiss Federal Institute of Aquatic Science and Technology (Eawag)
10:00 - 10:15	<b>OP172</b>	<b>Active Ingredient Emissions Via Wastewater from Pharmaceutical Formulation Sites – A Reason for Concern?</b>
	J. Bosshard	Swiss Federal Institute of Aquatic Science and Technology (Eawag)
10:15 - 10:30	<b>OP40</b>	<b>Passive Sampler-Derived Concentrations of Pops in the Waters of the World –First Results from the AQUA-GAPS/MONET Network</b>
	B. Vrana	Masaryk University
10:30 - 10:45	<b>OP433</b>	<b>Spatial and Temporal Trends of 64 Pesticides and Their Removal from Australian Wastewater</b>
	E. Knight	The University of Queensland
10:45 - 11:00	<b>OP109</b>	<b>Assessing the Temporal Trends Of Halogenated Flame Retardants in Air, Precipitation, Herring Gull Eggs and Lake Trout in Lake Ontario, Canada</b>
	H. Hung	ECCC
11:00 – 11:15	<b>OP266</b>	<b>Benzothiazoles as a Molecular Markers for Automobile Tire-Derived Inputs: Occurrence and Phase Distribution in Highway Runoff and Road Dust</b>
	M. Feltracco	Ca' Foscari University of Venice
11:15 – 11:30	<b>OP111</b>	<b>A Meta-Analysis of Urban Stormwater Events to Evaluate the Role of Site and Storm Characteristics on Organic Contaminant Concentrations</b>
	L. Graves	Eberhard Karls University of Tübingen

Monday 12 <sup>th</sup> June 2023 - ROOM 3 - Slot OP2		
Analysis, occurrence, and fate of contaminant in the environment - part II		
11:45 - 12:00	<b>OP310</b>	<b>Leaching of Degradation Products DMS and DMSA From Cyazofamid Shows Shortcomings in EFSA Risk Assessment</b>
	N. Badawi	Geological Survey of Denmark and Greenland (GEUS)
12:00 - 12:15	<b>OP72</b>	<b>Investigation of Mutagenic Aromatic Amines in Municipal Wastewaters Using Passive Sampling</b>
	S. Krupčíková	Masaryk University
12:15 - 12:30	<b>OP336</b>	<b>First Groundwater Monitoring for Modern Pesticides in Mayabeque, Cuba</b>
	D. S. Pacheco	Centro Nacional de Sanidad Agropecuaria
12:30 - 12:45	<b>OP189</b>	<b>Double Role of Photochemistry as Source and Sink of Nanoplastic Dissolution Products in Aqueous Environments</b>
	D. Vione	University of Turin

12:45 - 13:00	<b>OP83</b>	<b>Use of a Simple Two-Media Degradation Model to Evaluate the Environmental Fate of a Semivolatile Transformation Product of Ibuprofen</b>
	M. Minella	University of Turin

### Monday 12<sup>th</sup> June 2023 - ROOM 3 - Slot OP3

#### Biodegradation and photodegradation of contaminants in the environment and engineered treatment systems

 14:15 -  
14:30

14:30 - 14:45	<b>OP282</b>	<b>Biodegradation of Water-Soluble Polymers in Wastewater Systems: Process Insights and Implications for Testing</b>
	M. Zumstein	University of Vienna

14:45 - 15:00	<b>OP173</b>	<b>A Metatranscriptomics-Derived Laccase-Mediator System for Organic Pollutants Bioremediation: From Experimental Observations to Quantum Chemical Predictions</b>
	Y. Yu	Swiss Federal Institute of Aquatic Science and Technology (Eawag)

15:00 - 15:15	<b>OP397</b>	<b>Enzyme@Metal-Organic Framework Composites as a Future Alternative for Plastic Degradation in Polluted Waters</b>
	I. Rincón	IMDEA Energy Institute

15:15 - 15:30	<b>OP289</b>	<b>A New Concept to Classify the Biodegradability of Chemical Substances with a Microbial Array</b>
	G. Thouand	University of Nantes

15:30 - 15:45	<b>OP214</b>	<b>Impacts of Oxygen Depleted Zones on the Transformation of Halogenated Pharmaceuticals</b>
	K. Gerundt	Technische Universität Berlin

15:45 - 16:00	<b>OP110</b>	<b>Controlling Trichloroethene Aerobic Cometabolism Rate and Microbial Biomass Using Acetylene</b>
	J. Skinner	Arizona State University, Haley & Aldrich

16:00 - 16:15	<b>OP330</b>	<b>Removal of Contaminants of Emerging Concern From Sewage: Activated Sludge Vs. Biofilter Technology</b>
	C. De Ceglie	Water Research Institute C.N.R.

### Wednesday 14<sup>th</sup> June 2023- ROOM 2 - Slot OP1

#### Analysis, occurrence, fate and treatment of contaminants

09:30 - 09:45	<b>OP64</b>	<b>Sodium Alginate/B-Cyclodextrin Immobilized Multi-Walled Carbon Nanotubes Hydrogel Adsorbent for Nickel (II) Metal Ion Removal</b>
	A. Farhani Zakaria	Universiti Putra Malaysia

09:45 - 09:50	<b>PS112</b>	<b>Performance Comparison of Three Passive Samplers for Monitoring of Polar Organic Contaminants in Treated Municipal Wastewater</b>
	Poster: PP2_001	
	P. Fialová	Masaryk University

09:50 - 09:55	<b>PS301</b>	<b>Target and Suspect Screening of Organic Contaminants in Sediments by Pressurized Liquid Extraction and GC-APGC-Q-ToF-MS</b>
	Poster: PP2_002	
	M. de la Luz Tovar Salvador	University of Cadiz

09:55 -	<b>PS420</b>	<b>Analysis of Glyphosate, Glufosinate and AMPA in</b>
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10:00	Poster: PP2_003 C. Pinto	<b>environmental water with direct injection</b> Waters Corporation
10:00 - 10:05	<b>PS377</b> Poster: PP2_004 N. Đurišić- Mladenović	<b>Analysis of Poly- and Perfluoroalkyl Substances (Pfass) in the Danube River Water Samples from Serbia</b> University of Novi Sad
10:05 - 10:10	<b>PS378</b> Poster: PP2_005  J. Živančev	<b>Wide-Scope Target Screening of Pharmaceuticals in the Danube River Water Samples by Ultra-Performance Liquid Chromatography Coupled with High-Resolution Mass Spectrometry</b> University of Novi Sad
10:10 - 10:15	<b>PS400</b> Poster: PP2_006 R. Rios-Quintero	<b>Assessing the Contamination and Tidal Influence of Emerging Contaminants in the Guadalquivir River Estuary, SW Spain</b> University of Cadiz
10:15 - 10:20	<b>PS425</b> Poster: PP2_007 D. Drożdżyński	<b>Removal of Pesticide and Pharmaceutical Residues During Riverbank Filtration</b> Institute of Plant Protection – National Research Institute Poznan
10:20 - 10:25	<b>PS332</b> Poster: PP2_008 M. B. Zekkoub	<b>Investigation of the Adsorption of a Low-Molecular-Weight Sodium Polyacrylate on Calcite</b> Electricité De France (EDF)
10:25 - 10:30	<b>PS490</b> Poster: PP2_009 L. Cerasino	<b>Toxins in Biofilms of Lakes and Rivers, an Emerging Threat for Public Health in a Scenario of Climate Changes</b> Fondazione Edmund Mach
10:30 - 10:35	<b>PS191</b> Poster: PP2_011 P. Šebej	<b>Photochemical Degradation of Common Xanthene Diagnostic Dyes: What is the Fate of Fluorescein, Eosin and Rose Bengal?</b> Masaryk University

## 5 - Biologically active substances, transformation products and antibiotic resistance determinants in wastewater and sludge receiving environments

Chairpersons: Costas Michael and Vasiliki Beretsou

### Wednesday 14<sup>th</sup> June 2023- ROOM 4 - Slot OP3

14:15 - 14:45	<b>KN05</b>  A. R. Lado Ribeiro	<b>Environmental Enantioselectivity of Chiral Pharmaceuticals</b> University of Porto
14:45 - 15:00	<b>OP368</b>  K. Bester	<b>Biodegradation of Benzalkonium Compounds (BACs) Under Different Conditions – Pathways, Kinetics and Removal</b> Aarhus University
15:00 - 15:15	<b>OP383</b>  H. Švecová	<b>Pharmaceuticals From Wastewater in Plants: Lettuce as an Antidepressant?</b> University of South Bohemia in České Budějovice

15:15 - 15:30	<b>OP225</b>	<b>Comparative Phenotypic and Molecular Characterization of Clinical and Aquatic Multidrug Resistant <i>Acinetobacter Baumannii</i> Circulating Clones Isolated in Romania for Four Consecutive Years</b>
	I. G. Barbu	University of Bucharest
15:30 - 15:45		
15:45 - 16:00	<b>OP404</b>	<b>Bioinformatic Insights into Resistant <i>Escherichia Coli</i> Isolated from Different Aquatic Environments in Romania</b>
	M. Surleac	National Institute for Infectious Diseases, University of Bucharest

## 6 - Per- and Poly-fluoroalkyl Substances (PFAS) in air, water, soil, sediments, and biota: advances in detection, quantification, remediation, and destruction

Chairpersons: Christian Zwiener and Boguslaw Buszewski

<b>Wednesday 14<sup>th</sup> June 2023- ROOM 5 - Slot OP1</b> <b>Recent advances in analysis and screening for PFAS in environmental media</b>		
09:30 - 10:00	<b>KN06</b>	<b>PFASs on Molecular and on Planetary Levels: Sequential Removal of CF<sub>2</sub> Groups from Certain PFASs and Expansion of PFAS Name to All Substances with CF<sub>2</sub> Group</b>
	V. Nikiforov	The Climate and Environmental Research Institute NILU
10:00 - 10:15	<b>OP195</b>	<b>Application of a Novel PFAS Prioritization Technique (MD/C-M/C Approach) to Identify Microbial Transformation Products of The Aqueous Film-Forming Foam (AFFF) Component Capstone A</b>
	B. Bugsel	Universität Tübingen
10:15 - 10:30	<b>OP2450</b>	<b>HRMS Workflows Reveal Target and Suspect PFAS in Landfill Leachates: Identification and Evaluation of their Potential Risk to Environment</b>
	S. Petromelidou	Aristotle University of Thessaloniki, Centre for Interdisciplinary Research and Innovation (CIRI-AUTH)
10:30 - 10:45	<b>OP273</b>	<b>HR-CS-GFMAS a Versatile Screening Tool for Pfas in Various Environmental Samples</b>
	F. Simon	Federal Institute for Materials Research and Testing (BAM)
10:45 - 11:00	<b>OP155</b>	<b>Highly PFAS Contaminated Field Side in Germany: Non-Target Screening Via Fragment Mass Differences and Kendrick Mass Defect Analysis</b>
	J. Zweigle	Universität Tübingen
11:00 - 11:15	<b>OP920</b>	<b>Adaptation of Large Panels of Per- and Polyfluorinated Alkyl Substances (PFAS) for Routine Analysis in Drinking and Environmental Waters by Direct Injection Using UHPLC-MS/MS</b>
	C. Pinto	Waters Corporation
11:15 - 11:30	<b>OP2753</b>	<b>Solving the PFAS Challenge: Comprehensive Screening in a Single Run from Organisms at Different Trophic Levels</b>
	N. Van Den Borg	National and Kapodistrian University of Athens

**Wednesday 14<sup>th</sup> June 2023- ROOM 5 - Slot OP2**
**Developed and emerging treatment technologies for the removal and destruction of PFAS from air, water, soil, and sediments**

11:45 - 12:00	<b>OP77</b>	<b>Pathways to Zero Fluoro-Pollution</b>
	Z. Wei	Centre for Water Technology (WATEC)
12:00 - 12:15	<b>OP322</b>	<b>Performance of Colloidal Activated Carbon as In-Situ Sorbent for PFAS Contaminated Sites</b>
	A. Schierz	Helmholtz-Centre for Environmental Research (UFZ)
12:15 - 12:30	<b>OP156</b>	<b>3D Printed In<sub>2</sub>O<sub>3</sub> Superstructures: a New Adsorptive Photocatalyst for Removal of PFAS in Water</b>
	A. Martins	University of Bath
12:30 - 12:45	<b>OP295</b>	<b>Electrosorption of Perfluoroalkyl Acids - A Strategy For More Sustainable Water Treatment</b>
	A. Georgi	Helmholtz-Centre for Environmental Research (UFZ)
12:45 - 13:00	<b>OP314</b>	<b>Coupling Low Pressure RO Membrane with Anodic Electro-Oxidation for the Treatment of PFAS Contaminated Water</b>
	L. Saleh	Université de Poitiers

**Wednesday 14<sup>th</sup> June 2023- ROOM 5 - Slot OP3**
**Advances in occurrence, fate, and bioaccumulation of legacy and emerging PFAS - part I**

14:15 - 14:30	<b>OP2688</b>	<b>PFAS, from here to Eternity - or maybe not</b>
	V. Beskoski	University of Belgrade-Faculty of Chemistry
14:30 - 14:45	<b>OP2813</b>	<b>H2020 PROMISCES - PFAS and Persistent Mobile Chemicals in the Treatment and Circular Management of Environmental Matrices: Results in the 2nd Year of Activity of the Italian Cluster</b>
	M. Lazzazzara	Acea Elabori S.p.A.
14:45 - 15:00	<b>OP352</b>	<b>Levels and Trends of Perfluoroalkyl Substances Regulated Under the Stockholm Convention in Water From the Duero Basin in Spain</b>
	P. Colomer-Vidal	Institute of Organic Chemistry (IQOG-CSIC)
15:00 - 15:15	<b>OP46</b>	<b>Estimating Annual PFAS Loads in WWTP Influent Using a Source-Based Modelling Approach</b>
	N. Krlovic	Institute for Water Quality and Resource Management
15:15 - 15:30	<b>OP718</b>	<b>Transfer of PFAS From Soil Into Plants and its Relevance for PFAS Regulation in Germany</b>
	L. Gehrenkemper	German Environment Agency (UBA)
15:30 - 15:45	<b>OP439</b>	<b>Perfluoroalkyl Substances: from the Epidemiological Evidence to The Novel Models of Toxicodynamics</b>
	L. D. Toni	University of Padua
15:45 - 16:00	<b>OP437</b>	<b>Unveiling the Molecular Basis of Long and Short Chain Pflast-Binding to Serum Albumin and their Potential Applications</b>
	A. Angelini	Ca' Foscari University of Venice, European Centre for Living Technology (ECLT)
16:00 -	<b>OP250</b>	<b>Using the Northern Gannet (Morus Bassanus) as a Sentinel of</b>

16:15		<b>Environmental Changes of Pfas Prior and After Restrictions</b>
	M. G. Pereira	UK Centre for Ecology and Hydrology

### Wednesday 14<sup>th</sup> June 2023- ROOM 5 - Slot OP4

#### Advances in occurrence, fate, and bioaccumulation of legacy and emerging PFAS - part II

16:35 - 16:50	- <b>OP349</b>	<b>Gulls (<i>Larus Michahellis</i>) as Biomonitors of Pfas Pollution: What we Find and What are the Environmental Implications</b>
	B. O. Nolla	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
16:50 - 17:05	- <b>OP2686</b>	<b>What's in my Wastewater? Tracing 'Forever Chemicals': the Fate of PFAS throughout the Urban WWTP Process</b>
	L. Dockx	Aquafin NV

## 7 - Joint Sessions DAC-DCE EuChemS: Recent developments in analytical methods for the detection and quantification of persistent and emerging contaminants in the environment

Chairpersons: Slavica Razic, Silvia Lacorte Bruguera, Boguslaw Buszewski and Maria Concetta Bruzzoniti

### Monday 12<sup>th</sup> June 2023 - ROOM 1 - Slot OP1

09:30 - 10:00	<b>KN07a</b>	<b>Sensor Systems in Water Analytics</b>
	G. Gauglitz	University of Tübingen
10:00 - 10:15	<b>OP312</b>	<b>X-Ray Absorption Spectroscopy for Food Safety: Assessment of Arsenic Uptake and Accumulation in Grapevine</b>
	C. Petroselli	University of Perugia
10:15 - 10:30	<b>OP12</b>	<b>Quorum-Sensing Based Electrode as a Promising Technique for Biofilm Detection</b>
	W. S. Gadol	Egyptian Petroleum Research Institute (EPRI)
10:30 - 10:45	<b>OP28</b>	<b>Possibilities and Limitations of Modern Electroanalytical Methods in Environmental Analysis</b>
	J. Barek	Charles University
10:45 - 11:00	<b>OP79</b>	<b>Greener Sample Preparation Method for Direct Determination of Toxic Metals in River Sediments Using Functionalized Ionic Liquids</b>
	S. Ražić	University of Belgrade
11:00 - 11:15	<b>OP262</b>	<b>Identification and Quantification of Synthetic Musks Fragrances in Freshwaters</b>
	S. Tasselli	CNR-IRSA
11:15 - 11:30	<b>OP326</b>	<b>Residues of Drugs of Abuse in an Urban Aquifer: Chemical Analysis and Solute Transport Modelling</b>
	E. Heath	Jožef Stefan institute

### Monday 12<sup>th</sup> June 2023 - ROOM 1 - Slot OP2

11:45 - 12:00	<b>OP327</b>	<b>Residues of Modern Pesticides in Soils and Potatoes from Tropical Agroecosystems in Mayabeque, Cuba</b>
	B. P. Suárez	Centro Nacional de Sanidad Agropecuaria (CENSA)
12:00 - 12:15	<b>OP394</b>	<b>Historical Records of Plant Protection Product Deposition in Lakes under Anthropogenic Pressure</b>
	A. Chiaia-Hernandez	University of Bern
12:15 - 12:30	<b>OP703</b>	<b>The Rare Earth Elements Distribution in Lake Sediments as an Indicator of Surface Water Redox Potential and Micropollution</b>
	L.V. Soroaga	University of Iasi
12:30 - 12:45	<b>OP935</b>	<b>An Efficient d-SPE Method for Multi-Residue Fungicides Enrichment from River Water Samples Based on a Newly Synthesized Chitosan Derivative</b>
	L. Martello	Aristotle University of Thessaloniki , Center for Interdisciplinary Research and Innovation (CIRI-AUTH)
12:45 - 13:00	<b>OP2477</b>	<b>Biomonitoring Strategies to Determine Legacy and Emerging Contaminants for Environmental Protection Purposes</b>
	S. Lacorte	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)

### Monday 12<sup>th</sup> June 2023 - ROOM 1 - Slot OP3

14:15 - 14:45	<b>KN07b</b>	<b>Trace Analytics of Pharmaceutical Substances in the Environment – Opportunities and Challenges</b>
	P. Stepnowski	University of Gdansk
14:45 - 15:00	<b>OP219</b>	<b>Development of Enzyme-Based Amperometric Nitrite Biosensor Using Films of Chitosan and Multi-walled Carbon Nanotubes</b>
	M. Özkan	Gebze Technical University
15:00 - 15:15	OP2366	<b>Towards Community Health Surveillance in Wastewater Treatment Plants and More – Setting Up Methods and Chasing Antibiotics, Microorganisms and AMR in Untreated Waters and Bioaerosols</b>
	P. Barbieri	University of Trieste

## 8 - Advances in target and non-target screening in environment, food and health related matrices by high resolution mass spectrometry

Chairpersons: Adrian Covaci and Ester Heath

### Tuesday 13<sup>th</sup> June 2023 - ROOM 1 - Slot OP1

09:30 - 10:00	<b>KN08</b>	<b>Complementary Techniques for GC-MS Environmental Analysis</b>
	A. Lebedev	Moscow State University
10:00 - 10:15	<b>OP99</b>	<b>Regulatory Use of Non-Target Screening Data in the Aquatic Environment</b>
	A. L. Kronsbein	German Environment Agency (UBA)
10:15 - 10:30	<b>OP154</b>	<b>Ice Cores: Unique Environmental Archives for Non-Target Screening Reconstructions of Natural and Anthropogenic Aerosol Compounds</b>
	F. Burgay	Paul Scherrer Institut, University of Bern
10:30 - 10:45	<b>OP247</b>	<b>Open and FAIR Transformation Product Data for Improved Suspect/Non-Target Screening: Reftsps in the NORMAN-SLE, Pubchem And Patroon</b>
	P. Chirsir	University of Luxembourg
10:45 - 11:00	<b>OP1645</b>	<b>Landfill Leachates as a Prominent Source of Opfrs and their Transformation Products Based on Hrms Suspect Screening</b>
	L. A. Koronaiou	Aristotle University of Thessaloniki, Centre for Interdisciplinary Research and Innovation (CIRI-AUTH)
11:00 - 11:15	<b>OP2493</b>	<b>The Role of Mass Spectral Libraries in the Circular Economy of Plastics</b>
	Y. Simón-Manso	National Institute of Standards and Technology
11:15 - 11:30	<b>OP1445</b>	<b>Exploring Structure Database, Suspect and Non-Target HRMS Workflows for Comprehensive Screening of Unknown Transformation Products of Pharmaceuticals in Complex Environmental Matrices</b>
	D. A. Lambropoulou	Aristotle University of Thessaloniki, Centre for Interdisciplinary Research and Innovation (CIRI-AUTH)

### Tuesday 13<sup>th</sup> June 2023 - ROOM 1 - Slot OP2

11:45 - 12:00	<b>OP59</b>	<b>Prioritizing Molecular Formulae Identified by Non-Target Analysis Through High-Throughput Modelling: Application to Identify Compounds with High Human Accumulation Potential from House Dust</b>
	F. Wania	University of Toronto Scarborough
12:00 - 12:15	<b>OP2706</b>	<b>Non-Target Screening and Contaminant Profiling of House Dust Collected Across Europe by Comprehensive Two-Dimensional Gas Chromatography - Mass Spectrometry and Multi-Variate Statistical Evaluation</b>
	P. Haglund	Umeå University



12:15 - 12:30	<b>OP3015</b>	<b>Targeted and Non-Targeted PFAS Analysis in Environmental Matrices by LC/Q-TOF</b>
	L. Zingaro	Agilent Technologies
12:30 - 12:45	<b>OP1423</b>	<b>Analytical and Effect-Based Methods Available for the Environmental Monitoring of Endocrine Disrupting Compounds at the EU Scale</b>
	K. Vorkamp	Aarhus University
12:45 - 13:00	OP408	Chlorinated Organic Compounds in Concrete as Specific Markers for Chlorine Gas Exposure
	N. Hamzah	University of Helsinki

### Tuesday 13<sup>th</sup> June 2023 - ROOM 1 - Slot OP3

14:15 - 14:30	<b>OP393</b>	<b>Addressing the Occurrence of Drugs of Abuse and New Psychoactive Substances in Educational Institutions using Wastewater Analysis</b>
	T. Verovšek	Jožef Stefan Institute, Jožef Stefan International Postgraduate School
14:30 - 14:45	<b>OP307</b>	<b>Headspace-Solid Phase Microextraction Followed by Gas Chromatography Mass Spectrometry for Microplastics Identification and Quantification</b>
	M. B. Kralj	University of Ljubljana
14:45 - 15:00	<b>OP292</b>	<b>Resolving Complex Mixtures of Microplastics, Plasticizers and Associated Contaminants in Air Samples Using Pyr-GC-Orbitrap</b>
	A. Torres-Agullo	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
15:00 - 15:15	<b>OP275</b>	<b>Doxazosin Degradation – Photocatalytic Degradation Versus Gamma Irradiation</b>
	P. Trebse	University of Ljubljana
15:15 - 15:30	<b>OP2905</b>	<b>Investigation of VocS Sourced from the Poultry Farm Environment</b>
	E. Olkowska	Medical University of Gdansk
15:30 - 15:45	<b>OP1802</b>	<b>Compound Specific Isotope Analysis - New Challenges in Environmental and Food Studies</b>
	N. Ogrinc	Jožef Stefan Institute
15:45 - 16:00	<b>OP51</b>	<b>Pesticide Occurrence in Edible Insects From Asia, Europe and Africa Using Liquid Chromatography Coupled to High-Resolution or Tandem Mass Spectrometry</b>
	A. M. Schönleben	University of Antwerp
16:00 - 16:15	<b>OP283</b>	<b>Time-Trend Guided Non-Target Screening of Baltic Sea Blue Mussel (1994–2017) and Eelpout (1994–2017) by Gas Chromatography–High-Resolution Mass Spectrometry</b>
	A. Rebyk	Umeå University

**Tuesday 13<sup>th</sup> June 2023 - ROOM 1 - Slot OP4**

16:35 - 16:50	<b>OP108</b>	<b>Analytical Workflow for Chemical Exposomics in Human Plasma by Gas Chromatography High Resolution Mass Spectrometry</b>
	H. Xie	Stockholm University
16:50 - 17:05	<b>OP2751</b>	<b>Wide-Scope Target Screening by LC-HRMS Combined with Fast Ion Mobility – the Answer to Environmental and Human Biomonitoring Challenges</b>
	K. Diamanti	National and Kapodistrian University of Athens
17:05 - 17:10	<b>PS90</b>	<b>Analysis of Fish Samples by GC-Orbitrap Applying the ROIMCR Chemometric Approach</b>
	Poster: PP1_L110 A. Q. Beltran	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)

## 9 - New challenges regarding exposure to nanomaterials: from analytical methods to environmental modelling

Chairpersons: Ralf Kägi and Elena Badetti

**Wednesday 14<sup>th</sup> June 2023- ROOM 4 - Slot OP1**

09:30 - 10:00	<b>KN09</b>	<b>Including Particle Characteristics in Modelling Environmental Exposure of Nanomaterials</b>
	B. Nowack	Empa-Swiss Federal Laboratories for Materials Science and Technology
10:00 - 10:15	<b>OP2529</b>	<b>Modeling the Fate and Transport of ZnO Nanoparticles in a River using the Environmental Release Predicted by the Material Flow Analysis</b>
	Y. C. Hsieh	National Cheng Kung University
10:15 - 10:30	<b>OP402</b>	<b>Development and Application of a Two-Dimensional (2D) Particle Analysis Method Based on DMA-Spicp-MS Towards Characterization of Complex Nanoparticles in Wastewater and Airborne Particulate Matters</b>
	W. Hou	National Cheng Kung University
10:30 - 10:45	<b>OP2812</b>	<b>Investigation on the Potential Migration of Multicomponent Nanomaterials into Food Simulants from Food Packaging</b>
	A. Brunelli	Ca' Foscari University of Venice
10:45 - 11:00	<b>OP2901</b>	<b>Characterization of Multi-Composite Nanomaterials for Supporting Safe and Sustainable by Design Strategies</b>
	E. Badetti	Ca' Foscari University of Venice
11:00 - 11:15	<b>OP158</b>	<b>How Nematodes Respond to Nanoformulations of Tebuconazole: A Comparison Study in Single Species and Community Level of Nematode</b>
	M. E. Nejad	Research Centre for Toxic Compounds in the Environment (RECETOX)
11:15 - 11:30	<b>OP2812</b>	<b>Electrochemical Determination of Thiamethoxam in Food and Water Samples via on Fe<sub>2</sub>O<sub>3</sub> -Melamine Schiff Base Derived G-C<sub>3</sub>N<sub>4</sub> Composite</b>
	A. Kapoor	Dr. B.R Ambedkar National Institute of Technology

**Wednesday 14<sup>th</sup> June 2023- ROOM 4 - Slot OP2**

11:45 - 12:00	<b>OP3013</b>  F. Calore	<b>Interaction between Nanomaterials and Perfluorooctanoic Acid in Aqueous Media</b>  Ca' Foscari University of Venice
12:00 - 12:15	<b>OP3023</b>  A. G. Foscari Widmann Rezzonico	<b>Tire Wear Particles in Coastal Areas: Are There Suitable Chemical Indicators of Exposure in Blue Mussel (<i>Mytilus edulis</i>)?</b>  Helmholtz-Centre for Environmental Research (UFZ)
12:15 - 12:20	<b>PS407</b> Poster: PP2_032 I. Tismanar	<b>The Stability of TiO<sub>2</sub>-Rgo Self-Cleaning Photocatalytic Coatings for Outdoor Applications</b>  Transilvania University of Brasov

## 11 - Joint Session DCE EuChemS - DCE IUPAC: Advances in remediation technologies for the reclamation of soil and sediments contaminated by organic and inorganic pollutants

Chairpersons: Melanie Kah, Thomas Bucheli, and Vladimir Beskoski

**Wednesday 14<sup>th</sup> June 2023- ROOM 1 - Slot OP1**

09:30 - 10:00	- <b>KN11</b>  J. J. Ortega-Calvo	<b>Bioavailability Reductions Through Nature-Based Remediation of Soils and Sediments: Potential Regulatory Aspects</b>  Instituto de Recursos Naturales y Agrobiología de Sevilla Consejo Superior de Investigaciones Científicas Avda
10:00 - 10:15	- <b>OP205</b>  F. Portet-Koltalo	<b>Potentialities of Fungi Bioaugmentation for Improving Bioremediation of Co-Contaminated (Pahs, Trace Metals) Industrial Soils</b>  Université de Rouen-Normandie
10:15 - 10:30	- <b>OP414</b>  T. Tosco	<b>Nanoscale and Microscale Zero-Valent Iron for in Situ Chemical Reduction of Mixed Chlorinated Hydrocarbons at a Petrochemical Site: Preliminary Batch Tests</b>  Politecnico di Torino
10:30 - 10:45	<b>OP388</b>  C. Porfido	<b>Can the Composition of Plant's Guttation Fluids Be used to Assess the Effectiveness of Soil Remediation? First Evidence from Phytostabilization Experiments</b>  University of Bari
10:45 - 11:00	<b>OP3009</b>  P. Scanferla	<b>End-Of-Waste From Pyrite Ashes Contaminated Soils Through HPSS Application</b>  Fondazione Università Ca' Foscari
11:00 - 11:05	<b>PS2465</b> Poster: PP2_033 M. Menegaldo	<b>STAR-LCA: Simplified Tool to Assess Remediation by LCA</b>  GreenDecision s.r.l.
11:05 - 11:10	<b>PS357</b> Poster: PP2_035 T. Tomic	<b>Sediment Quality Assessment of the Begej Canal - Ecotoxicological Tests</b>  University of Novi Sad
11:10 - 11:15	<b>PS96</b> Poster: PP2_036	<b>Sorption of Organic Xenobiotics on Soil Organic Matter Requires Attention to Electrolytes as Well as Organic Matter</b>

	H. Murano	<b>Itself: A Case Study of Acetamiprid</b> Meijo University
11:15 – 11:20	<b>PS138</b> Poster: PP2_034 V. Corbu	<b>Potential Applications of Candida Parapsilosis CMGB-YT in Biosurfactant Mediated Bioremediation</b> University of Bucharest

## 12 - Recent advances in computational approaches for early identification and better understanding of chemical hazards

Chairpersons: Patrik L. Andersson and Ester Papa

Thursday 15 <sup>th</sup> June 2023 - ROOM 1 - Slot OPI		
Assessment of PBT-properties		
09:30 - 10:00	<b>KN12</b>  E. Benfenati	<b>Recent In Silico Model for Hazard Assessment and Early Warning</b> Mario Negri Institute
10:00 - 10:15	<b>OP2913</b>  A. Tayara	<b>Machine Learning Models for Predicting the Rejection Rates of Organic Contaminants by Forward Osmosis and Reverse Osmosis Membranes</b> The Hong Kong University of Science and Technology
10:15 - 10:30	<b>OP787</b>  E. Dracheva	<b>Investigating Differences in Kinetics of PFAS in a Mixture Exposure Scenario With Physiologically Based Kinetic Modeling</b> Umeå University
10:30 - 10:45	<b>OP42</b>  S. Schmidt	<b>Explainable Deep Learning for Early Environmental Safety - Understanding Bioaccumulation of Organic Molecules</b> Bayer AG
10:45 - 11:00	<b>OP62</b>  J. Hafner	<b>New Approaches to Predict Environmental Biodegradation Half-Lives from Structure</b> University of Zürich
11:00 – 11:15	<b>OP184</b>  K. Zhang	<b>Automatic Extraction of Optimized Reaction Patterns for the Prediction of Environmental Contaminant Biotransformation Pathways</b> Swiss Federal Institute of Aquatic Science and Technology (Eawag), University of Zürich
11:15 – 11:30	<b>OP1177</b>  E. Papa	<b>Free in-Silico Tools for the Prediction and Screening of Hazard Properties of Chemicals</b> University of Insubria

**Thursday 15<sup>th</sup> June 2023 - ROOM 1 - Slot OP2**
**General strategies and case studies**

11:45 - 12:00	<b>OP286</b>  F. Passarini	<b>Nexus Between Life Cycle Assessment and Environmental Analytical Chemistry</b>  University of Bologna
12:00 - 12:15	<b>OP264</b>  A. Azais	<b>Meta-Analyses for the Elucidation of Micropollutant Degradation Pathways During Wastewater Treatment: Application to Sulfamethoxazole</b>  INRAE
12:15 - 12:30	<b>OP2744</b>  P. Andersson	<b>Development of an In Silico Driven Early Warning System for Identification of Potential New Emerging Risk Chemicals in the European Partnership Program PARC</b>  Umeå University
12:30 - 12:35	<b>PS240</b> Poster: PP2_037 N. Milić	<b>Triclosan and its Metabolites as Potential Thyroid-Disrupting Chemicals: In Silico Analysis</b>  University of Novi Sad
12:35 - 12:40	<b>PS1725</b> Poster: PP2_038 E. Papa	<b>An Overview of QSAR Models for the Prediction of Thyroid Disruption-related Endpoints</b>  University of Insubria

### 13 - Climate change impacts on the fate and behaviour of nutrients and pollutants in the environment

Chairpersons: Antonio Marcomini, Carlo Barbante, Silvia Torresan, and Eduarda Pereira

**Monday 12<sup>th</sup> June 2023 - ROOM 5 - Slot OP3**

14:15 - 14:45	<b>KN13</b>  C. Barbante	<b>Beyond the Limits of Environmental Analysis for Climate Research</b>  Institute of Polar Sciences, CNR, Ca' Foscari University of Venice
14:45 - 15:00	<b>OP2498</b>  A. Zouboulis	<b>Climate Change Problem and Implementation of Potential Solutions: Post-Combustion CO<sub>2</sub> Capture with Membranes</b>  Aristotle University of Thessaloniki
15:00 - 15:15	<b>OP148</b>  E. Topuz	<b>Impact of Temperature and Soil Organic Content on the Mixture Toxicity of Emerging Contaminants on E. Crypticus</b>  Gebze Technical University
15:15 - 15:30	<b>OP201</b>  S. Bertolotti	<b>Water Scarcity and Wastewater Treatment: Effects on Nutrient Concentration and Dynamics in Alpine Streams</b>  University of Turin
15:30 - 15:45	<b>OP309</b>  E. Furlan	<b>Machine Learning as a Key Digital Tool for Shaping Environmental Change Processes</b>  Ca' Foscary University of Venice, Centro Euro-Mediterraneo sui Cambiamenti Climatici
15:45 - 16:00	<b>OP412</b>  M. Vecchiato	<b>Personal Care Products in Antarctic snow: Regional and Seasonal Distribution</b>  CNR-ISP, Ca' Foscari University of Venice

16:00 - 16:15	- <b>OP53</b>	<b>Bromine, Iodine and Mercury Spatial Variability and Seasonal Accumulation Along the EAIIST Traverse</b>
	G. Celli	Ca'Foscari University of Venice

### Monday 12<sup>th</sup> June 2023 - ROOM 5 - Slot OP4

16:35 - 16:40	- <b>PS2881</b>	<b>Impact of Increased Number of High Temperature Days on Atmospheric PM Pollution from Intensive Poultry Farming</b>
	Poster: PP1_045 G. Gržinić	Medical University of Gdansk
16:40 - 16:45	- <b>PS376</b>	<b>Black Carbon and Organic Carbon Impact in the Tropical Andes: the Case of Shallap Glacier (Cordillera Blanca)</b>
	Poster: PP1_038 S. Meroni	University of Milan - Bicocca
16:45 - 16:50	- <b>PS1303</b>	<b>Determining the Fate and Behavior of Plant Protection Products (PPPs) in Lakes and Water-Sediment Interface under a Changing Climate Using Passive Sampling</b>
	Poster: PP1_041 E. Schaad	University of Bern
16:50 - 16:55	- <b>PS2472</b>	<b>Mercury at the Base of Trophic Pyramid in Admiralty Bay, Antarctica</b>
	Poster: PP1_043 E. Korejwo	Polish Academy of Sciences
16:55 - 17:00	- <b>PS248</b>	<b>Preliminary Study of the Photodegradation of Bisphenol A (BPA) in Artificial Snow Samples</b>
	Poster: PP1_036 S. Frassati	Ca' Foscari University of Venice

## 14 - From hazard to risk assessment of chemicals and chemical mixtures for the ecosystems and the human health: exposure, ecotoxicological effects, fate, and modelling

Chairpersons: Philippe Garrigue and Silvia Lacorte Bruguera

### Thursday 15<sup>th</sup> June 2023 - ROOM 2 - Slot OP1

09:30 - 10:00	<b>KN14</b>	<b>Treated Wastewater Reuse: Uptake of Chemicals of Emerging Concern and Risks</b>
	E. Heath	Jožef Stefan institute
10:00 - 10:15	<b>OP50</b>	<b>Assessment of Silicone Wristbands for Monitoring Personal Exposure to Chlorinated Paraffins (C8-36): A Pilot Study</b>
	S. Yin	University of Antwerp, Interdisciplinary Research Academy (IRA)
10:15 - 10:30	<b>OP666</b>	<b>Evaluating environmental impacts of different pest control practices across Europe</b>
	F. Soheilifard	Technical University of Denmark
10:30 - 10:45	<b>OP58</b>	<b>Toxic Organic Chemicals in a Globally Connected World: Quantifying Real and Virtual Flows Embodied in the International Trade of Chemicals, Products and Wastes</b>
	F. Wania	University of Toronto Scarborough



10:45 - 11:00	<b>OP2748</b>	<b>Environmental exposure and ecotoxicological properties of a new generation fluorosurfactant (cC6O4): a comparison with selected legacy perfluoroalkyl acids</b>
	E. C. Bizzotto	Fondazione Università Ca' Foscari
11:00 - 11:15	<b>OP339</b>	<b>Exposure of Organic Micropollutants in Greater Flamingo from the Ebro Delta Natural Park</b>
	M. Dulsat-Masvidal	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)

### Thursday 15<sup>th</sup> June 2023 - ROOM 2 - Slot OP2

11:45 - 12:00	<b>OP300</b>	<b>Contribution of RAMAN Spectroscopy to Assess Cadmium Toxicity on Marine Mussel (<i>Mytilus edulis</i>)</b>
	M. J. Durand	Nantes Université
12:00 - 12:15	<b>OP384</b>	<b>The Bioaccumulation of Pharmaceuticals and Their Metabolites in Early Developmental Stages of Brown Trout</b>
	K. Grabicová	University of South Bohemia in České Budějovice
12:15 - 12:30	<b>OP149</b>	<b>How Error-prone Bioaccumulation Experiments Affect the Risk Assessment of Hydrophobic Chemicals and What Could Be Improved</b>
	M. Scheringer	Institute of Biogeochemistry and Pollutant Dynamics (IBP)
12:30 - 12:45	<b>OP423</b>	<b>The Effect of Effluent Discharge from a Municipal Wastewater Treatment Plant on the Ecotoxicity of a Relatively Small Watercourse in Aartselaar, Belgium</b>
	B. Raes	Aquaflin NV
12:45 - 13:00	<b>OP1184</b>	<b>Removal Efficacy and Aquatic Hazard Reduction of Psychoactive Drugs by a Pond Treatment System</b>
	G. Fedorova	University of South Bohemia in České Budějovice

### Thursday 15<sup>th</sup> June 2023 - ROOM 2 - Slot OP3

14:15 - 14:30	<b>OP31</b>	<b>Prediction Model for Bioaccumulation of Toxic Metals in Medicinal Plants</b>
	G. G. Vasile	National Research and Development Institute for Industrial Ecology-ECOIND
14:30 - 14:45	<b>OP143</b>	<b>Wastewater-derived Organic Contaminants Driven by Reclaimed Wastewater Reuse in Agricultural Irrigation: Dietary Exposure and Potential Risks to the Environment and Human Health</b>
	L. H. Santos	Catalan Institute for Water Research (ICRA-CERCA), University of Girona
14:45 - 15:00	<b>OP1512</b>	<b>Identification of Biological Effect Drivers in Complex Environmental Mixtures Using Pull-Down Assay Based on Specific Protein-Ligand Interaction</b>
	K. Hilscherova	Masaryk University
15:00 - 15:15	<b>OP185</b>	<b>Characterization of Dissipation Pathways for Pharmaceuticals in Natural Soils – A Modelling Approach</b>
	M. Böckmann	Eberhard Karls University of Tübingen

15:15 - 15:20	<b>PS150</b> Poster: PP2_039  S. Sousa	<b>Analysis of Sixty Environmental Contaminants in Human Adipose Tissue with a Single Extraction-Method Greenness Assessment</b>  REQUIMTE/LAQV, Center for Research in Health Technologies and Information Systems, Universidade do Porto
15:20 - 15:25	<b>PS1411</b> Poster: PP2_040  A. Jędruch	<b>Impact of Beach Recreation on Environmental Quality of Coastal Areas of the Southern Baltic Sea</b>  University of Gdańsk, Polish Academy of Sciences

## 15 - Nano- and micro-plastics in the environment

Chairpersons: Roland Kallenborn and Hemda Garelick

Monday 12 <sup>th</sup> June 2023 - ROOM 4 - Slot OP1		
Microplastics analysis - part I		
09:30 - 10:00	<b>KN15</b>  N. Zumbülte	<b>Analysing Microplastics in the Environment – Challenges and Pitfalls</b>  German Technical and Scientific Association of Gas and Water (DVGW)
10:00 - 10:15	<b>OP364</b>  G. Crosset-Perrotin	<b>Validation of Analytical Chain for the Quantification of Microplastics in Sewage Sludge</b>  Swiss Federal Institute of Aquatic Science and Technology (Eawag)
10:15 - 10:30	<b>OP19</b>  V. C. Fernandes	<b>A Novel and Validate Method for Extraction and Analysis of Several Microplastics in Water Samples</b>  Instituto Superior de Engenharia do Porto
10:30 - 10:45	<b>OP417</b>  P. Pastorino	<b>High-Mountain Lakes as Indicators of Microplastic Pollution: Insights from Cottian Alps</b>  Istituto Zooprofilattico Sperimentale del Piemonte
10:45 - 11:00	<b>OP84</b>  G. Zuri	<b>Airborne Microplastics in Outdoor and Indoor Environments</b>  Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
11:00 - 11:15	<b>OP237</b>  E. Gregoris	<b>A New Approach for Polymers Analysis in Atmospheric Aerosol by Direct Inlet Pyrolysis Gas Chromatography-Mass Spectrometry (Py-GC/MS)</b>  CNR
11:15 - 11:30	<b>OP1518</b>  J. Stoffel	<b>Quality Assurance and Automation of Microplastics Analysis</b>  Swiss Federal Laboratories for Materials Science and Technology (EMPA)

**Monday 12<sup>th</sup> June 2023 - ROOM 4 - Slot OP2**
**Microplastics analysis - part II & Environmental levels - part I**

11:45 - 12:00	<b>OP1868</b>	<b>Technical Aspects for Microplastics Analysis Using Py-GC/MS, Exemplified on a PVC-PMMA Polymer Blend</b>
	A. Moraz	Swiss Federal Research Station for Agroecology and Agriculture (Agroscope), Swiss Federal Institute of Aquatic Science and Technology (Eawag)
12:00 - 12:15	<b>OP94</b>	<b>Towards a Quantitative Analysis of Polymer Concentration in Blended Microplastics Using 3-D Micro-Raman Spectroscopy</b>
	M. L. Choobbari	Vrije Universiteit Brussel
12:15 - 12:30	<b>OP135</b>	<b>Detection of Small Microplastics Using Large Area ATR-FTIR</b>
	Y. Liu	Aalborg University
12:30 - 12:45	<b>OP2455</b>	<b>Microplastics Analysis in the Environment - Quantification through a Combination of Optical and Raman Microscopy Enhanced by Machine Learning Evaluation</b>
	D. Fischer	Leibniz-Institut für Polymerforschung Dresden

**Monday 12<sup>th</sup> June 2023 - ROOM 4 - Slot OP3**
**Environmental levels - part II & Fate and environmental behaviour - part I**

14:15 - 14:30	<b>OP113</b>	<b>Chemical Characterization of Tire Wear Particles (Twps) Through Cross-Validation of Different Techniques</b>
	F. Corami	CNR-ISP
14:30 - 14:45	<b>OP140</b>	<b>Analysis of Nanoplastic Contamination in Bottled Water via Infrared Nanospectroscopy</b>
	C. Vitali	Wageningen University & Research
14:45 - 15:00	<b>OP100</b>	<b>Occurrence of Microplastic in an Environmentally Protected Wetland Area in Hungary</b>
	B. Prikler	Eurofins Analytical Services Hungary Kft., Institute of Aquaculture and Environmental Safety
15:00 - 15:15	<b>OP304</b>	<b>Raman Tweezers for Micro and Nanoplastics Analysis in Watery Ecosystems</b>
	P. G. Gucciardi	CNR-IPCF
15:15 - 15:30	<b>OP183</b>	<b>Assessing Applicability of Asymmetric Flow Field-Flow Fractionation as a Tool for Nanoplastics Analysis in Micro- and Macrocosms</b>
	M. Hayder	University of Amsterdam
15:30 - 15:45	<b>OP220</b>	<b>New Insights into Microplastic Pollution Levels at Wastewater Treatment Plant: Removal Efficiency and Distribution Across Treatment Stages</b>
	S. Pleskytė	Center for Physical Sciences and Technology
15:45 - 16:00	<b>OP131</b>	<b>Analysis of Microplastics in Treated Communal Wastewater and the Recipient Surface Waters in the Danube River Basin</b>
	G. Bordós	Eurofins Analytical Services Hungary Kft.
16:00 - 16:15	<b>OP145</b>	<b>Effects of Natural Weathering of Polystyrene Microplastic on the Leaching of Brominated Flame Retardant Additives and Sorption of PFAS in the Marine Environment: Laboratory and Field Experiments</b>
	I. Tolosa	IAEA Marine Environment Laboratories

**Monday 12<sup>th</sup> June 2023 - ROOM 4 - Slot OP4**

**Fate and environmental behaviour - part II**

16:35 - 16:50	<b>OP200</b> S. Cavazzoli	<b>Microplastics in a Conventional Wastewater Treatment Plant: Analysis, Distribution, and Environmental Emissions</b> University of Trento
16:50 - 16:55	<b>PS114</b> Poster: PP1_049 F. Corami	<b>Additives, Plasticizers, Small Microplastics (&lt;100 Mm), and other Microlitter Components in the Gastrointestinal Tract of Commercial Teleost Fish: Method of Extraction, Purification, Quantification, and Characterization Using Micro-FTIR</b> CNR-ISP
16:55 - 17:00	<b>PS132</b> Poster: PP1_051 D. Rede	<b>Plastic-Related Chemicals in the Soil From the Natural Park of Montesinho</b> REQUIMTE/LAQV
17:00 - 17:05	<b>PS361</b> Poster: PP1_060 L. Tseng	<b>The Disparity in Scientific Investigation: Microplastics are Ubiquitous but only when Accessible</b> Colgate University
17:05 - 17:10	<b>PS2915</b> Poster: PP1_068 G. Labella	<b>Microplastic Characterization and Screening by Combining DART and High-Resolution Mass Spectrometry</b> Bruker Daltonik GmbH

**Tuesday 13<sup>th</sup> June 2023 - ROOM 4 - Slot OP1**
**Fate and environmental behaviour - part III**

09:30 - 09:45	<b>OP335</b> L. Rivoira	<b>Microplastics in the Environmental Compartments: Occurrence and Characterization</b> University of Turin
09:45 - 10:00	<b>OP1796</b> Y. Zhang	<b>Microplastic Records in Sediment Cores in Huguangyan Maar Lake, China</b> Aarhus University, Nanjing Normal University
10:00 - 10:15	<b>OP868</b> D. Kalaronis	<b>Sorption Behavior of Antibiotics on Virgin and Aged PLA and PET Microplastics in Aqueous Matrices</b> Aristotle University of Thessaloniki
10:15 - 10:30	<b>OP440</b> S. Meinecke	<b>Fragmentation of Plastics in Shore Zones - Results of a Mesocosm Study</b> German Environment Agency (UBA)
10:30 - 10:45	<b>OP297</b> R. Peng	<b>Occurrence of Plastic and Tire Additives and their Transformation Products in the Danube</b> University of Vienna
10:45 - 11:00	<b>OP345</b> Y. Zhang	<b>Interaction of Nanoplastics with Freshwater and <i>Pseudomonas Aeruginosa</i> Biofilm</b> Université de Poitiers
11:00 - 11:15	<b>OP897</b> V. Nikiforov	<b>Does PTFE Degrade at High Pressure in the Deep Ocean? a Model Process Observed in a Common LC-Pump</b> The Climate and Environmental Research Institute NILU
11:15 - 11:30	<b>OP1520</b> C. Halsband	<b>Biological Uptake of Organic Contaminants from Car Tire Particles</b> Akvaplan-niva

**Tuesday 13<sup>th</sup> June 2023 - ROOM 4 - Slot OP2**
**Microplastics effects - part I**

11:45 -	<b>OP193</b>	<b>Exposure of the Aquatic Insect <i>Chironomus Riparius</i> to</b>
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12:00		<b>Cryogenically Milled Tire Tread Leads to Bioaccumulation of Rubber Additives and to Potential Trophic Transfer to Fish</b>
	T. Masset	Ecole Polytechnique Fédérale de Lausanne
12:00 - 12:15	<b>OP328</b>	<b>A New Potential Route of Exposure for Microplastics and Nanoplastics: An Investigation of Common Hygiene Products</b>
	H. Garelick	Middlesex University London
12:15 - 12:30	<b>OP65</b>	<b>Fertigating Soil with Wood Distillate as a Possible Green Strategy to Mitigate the Impact of Bioplastic on Plants</b>
	S. Celletti	University of Siena
12:30 - 12:45	<b>OP2509</b>	<b>The Effects of MPs on the Radish Production and Bioaccumulation of Pesticides</b>
	H. Ju	Wageningen University & Research
12:45 - 13:00	<b>OP392</b>	<b>The Influence of Polystyrene Nanoplastics on the Uptake and Distribution of Elements in Tomato Plants</b>
	J. Vidmar	Jožef Stefan Institute, Jožef Stefan International Postgraduate School

**Tuesday 13<sup>th</sup> June 2023 - ROOM 4 - Slot OP2**  
**Microplastics effects - part II & Application and regulation**

14:15 - 14:30	<b>OP287</b>	<b>Acute Effect of Nanoplastics on Daphnia And Gammarus Neonates in Comparing Natural Freshwaters</b>
	W. Liu	University of Geneva
14:30 - 14:45	<b>OP2803</b>	<b>Polyethylene Terephthalate (PET) Photolysis on Surfaces</b>
	A. Nobahar	University of the Algarve
14:45 - 15:00	<b>OP2859</b>	<b>Biodegradable Microcapsules as a Repellent Solution for Malaria Control</b>
	V. Sousa	University of Minho
15:00 - 15:15	<b>OP213</b>	<b>What Can we Learn from Biodegradation of Natural Polymers for Regulation?</b>
	S. Hahn	Fraunhofer ITEM

## 16 - Green and sustainable chemistry as an enabler of circular economy: safe-by-design approaches and LCA-based assessment tools

Chairpersons: Henning Friege, Elena Semenzin, and Hans-Christian Stolzenberg

Tuesday 13 <sup>th</sup> June 2023 - ROOM 5 - Slot OP1		
Sustainable chemistry as a driver of international chemicals management		
09:30 - 10:00	<b>KN16</b>	<b>How To Measure Sustainability in International Chemicals Management?</b>
	C. Blum	German Environment Agency (UBA)
10:00 - 10:15	<b>OP1114</b>	<b>Safe and Sustainable by Design chemicals and materials: JRC framework, Case Studies and Lessons Learnt</b>
	E. Abbate	European Commission- Joint Research Centre (JRC)
10:15 - 10:30	<b>OP202</b>	<b>A Legally Binding Framework for Sustainable Management of Chemicals and Materials – an Illusion or a Long-Term Goal?</b>
	K. Steinhäuser	
10:30 - 10:45	<b>OP2461</b>	<b>Practical Guidance to a Holistic Safe And Sustainable by Design (SSBD) Approach for Advanced Materials</b>
	L. Pizzol	GreenDecision s.r.l.
10:45 - 11:00	<b>OP30</b>	<b>Identifying Global Regions with Pesticide Pressure Exceeding Protective Freshwater Ecosystem Boundaries</b>
	M. B. Kosnik	Technical University of Denmark
11:00 - 11:30		Discussion

Tuesday 13 <sup>th</sup> June 2023 - ROOM 5 - Slot OP2		
Approaches to green and sustainable chemistry - life cycle assessments		
11:45 - 12:00	<b>OP387</b>	<b>Integrating Risk Assessment and Life Cycle Assessment: Opportunities and Challenges</b>
	E. Abbate	Radboud University, European Commission (JRC)
12:00 - 12:15	<b>OP2462</b>	<b>A Comparative Life Cycle Assessment of Two Tanning Processes: Innovative Green Organic vs Traditional Chrome-Based</b>
	M. Menegaldo	Ca' Foscari University of Venice
12:15 - 12:30	<b>OP169</b>	<b>Life Cycle Assessment (LCA) of a Bio-Fuel Cell Fed with Waste Biomass: Potential for Scale-Up and Process Optimization</b>
	E. Rossi	University of Bologna
12:30 - 12:45	<b>OP104</b>	<b>A Novel Approach for Environmentally Friendly Dairy Farms: The CO<sub>2</sub>-RFP Strategy</b>
	A. Gueddari-Aourir	Castilla-La Mancha University
12:45 - 13:00	<b>OP243</b>	<b>Alginate Derivatives: a Green Alternative for Industrial Tanning</b>
	I. Quaratesi	National Research & Development Institute for Textiles and Leather

### Tuesday 13<sup>th</sup> June 2023 - ROOM 5 - Slot OP1



**Valorisation of renewable material and waste**

14:15 - 14:30	<b>OP2862</b>	<b>Hybridization of Pineapple Leaf Fiber with Natural Nanotube as Promising Sustainable Fillers for Improving Mechanical Properties of Epoxy Composite</b>
	N. Klinthooptamrong	Mahidol University
14:30 - 14:45	<b>OP86</b>	<b>A New Highly Active Hybrid Guanidine Zinc Catalyst for Lactide Polymerization and the Fast and Selective Chemical Recycling of (Bio)polyesters</b>
	M. Fuchs	RWTH Aachen University
14:45 - 15:00	<b>OP2927</b>	<b>Catalysts for a Sustainable Future: from Synthetic Fuels to Water Treatment</b>
	J. L. Faria	University of Porto (LSRE-LCM ), ALiCE
15:00 - 15:15	<b>OP66</b>	<b>Single and Combined Effect of Soil Amendment With Biochar and Wood Distillate in Young Vine Plants</b>
	S. Celletti	University of Siena
15:15 - 15:30	<b>OP313</b>	<b>Effect of Biochar Addition on the Behavior of the Allelochemical S-Carvone in Agricultural Soils</b>
	J. A. G. Pérez	Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS-CSIC)
15:30 - 15:45	<b>OP2854</b>	<b>Waste to Energy: Agro-industrial Waste Valorisation Toward Enriched Pellet Production</b>
	Z. Simic	Innovation Center of the Faculty of Technology and Metallurgy
15:45 - 15:50	<b>PS2914</b>	<b>Waste to Energy: Food Waste Valorisation toward Biofuel Production</b>
	Poster: PP1_089 G. R. Ivaniš	University of Belgrade

**17 - Environmental and climate change impacts on cultural heritage**

Chairpersons: Elisabetta Zendri

**Thursday 15<sup>th</sup> June 2023 - ROOM 3 - Slot OP3**

14:15 - 14:45	<b>KN17</b>	<b>Damage Functions – Models of Material Response to Stress in a Museum Environment</b>
	M. Strlič	University of Ljubljana
14:45 - 15:00	<b>OP182</b>	<b>Formulation of Synthetic Particulate Matter and Development of a Deposition Technique for Corrosion Studies</b>
	E. Bernardi	University of Bologna
15:00 - 15:15	<b>OP382</b>	<b>Holistic Approach to the Examination of the Environment and Climate Influence on the Stone Façade of the XVIII Century</b>
	S. Vučetić	University of Novi Sad
15:15 - 15:20	<b>PS216</b>	<b>Sustainable Conservation of Cultural Heritage Through Alternative Solutions for Mitigating Biodeterioration Based on Plant Extracts or Silver Derived Nanoparticles</b>
	Poster: PP2_062 V. M. Corbu	University of Bucharest, Research Institute of the University of Bucharest
15:20 - 15:25	<b>PS2864</b>	<b>Evaluation and Monitoring of Climate Change Impacts on Architectural Surfaces in Venice</b>
	Poster: PP2_063 M. Gnemmi	Ca'Foscari University of Venice

## 18 - New policies, legislation, and communication strategies for a more sustainable management of chemicals to protect environmental resources

Chairpersons: Martin Scheringer and Fabrizio Passarini

### Thursday 15<sup>th</sup> June 2023 - ROOM 4 - Slot OP1

09:30 - 10:00	<b>KN18</b>	<b>Needs for Researchers in the Science-Policy Interface on Chemicals, Waste and Pollution Prevention and Ways of Effective Participation</b> Z. Wang ETH Zürich
10:00 - 10:15	<b>OP2934</b>	<b>Nitrogen Wars - Consequences of Failing Nitrogen Policy</b> W.T. de Lange Environment Agency Groningen, LaMilCo Consultancy
10:15 - 10:30	<b>OP379</b>	<b>Study on a Co-Benefit Legal and Policy Frameworks for Driving Toward Zero Emissions of Air Pollutants and Greenhouse Gases in Asia Region Using Policy Simulation with Cost-Benefit Analysis Models</b> E. Komatsu Meiji University Centre for Environmental Law and Policy
10:30 - 10:45	<b>OP409</b>	<b>Availability of Data from Environmental Risk Assessments of Medicinal Products Status Quo and Proposed Monograph System for Environmental Data</b> S. Schwonbeck Fraunhofer ITEM
10:45 - 11:00	<b>OP772</b>	<b>Environmental Life Cycle Assessment Applied to Medical Devices</b> A. Zabeo GreenDecision s.r.l.

## 19 - Higher education in Environmental Science: challenges and innovations

Chairpersons: Ivana Ivančev-Tumbas and Gerhard Lammel

### Thursday 15<sup>th</sup> June 2023 - ROOM 5 - Slot OP3

14:15 - 14:45	<b>KN19</b>	<b>Environment and Health: What Did We Learn After Five Years of Running Comprehensive Interdisciplinary Bachelor and Master Study Programmes in Brno, Czech Republic?</b> P. Šebej Masaryk University
14:45 - 15:00	<b>OP239</b>	<b>Higher Education Modernization-Pharmacist and Environmental Science</b> N. Milić University of Novi Sad
15:00 - 15:15	<b>OP256</b>	<b>Research Guided Academic Teaching Concepts for Interdisciplinary Education in Arctic Environmental Sciences</b> R. Kallenborn Norwegian University of Life Sciences (NMBU)
15:15 - 15:30	<b>OP3006</b>	<b>Can Master Students Experience and Learning Outcome be Improved?</b> Y. Stenstrøm Norwegian University of Life Sciences, Oslo Metropolitan University
15:30 - 15:45	<b>OP3028</b>	<b>Linking the Research and Education in an Intensive R&amp;D and Innovation Process – A Model of the Jožef Stefan International</b>

	M. Horvat	<b>Postgraduate School</b> Jožef Stefan Institute
15:45 - 16:00	<b>OP3011</b>	<b>Wrapping Up the Education Challenges To Be Able To Innovate Successfully</b>
	I. Ivancev-Tumbas	University of Novi Sad

## 20 - PMT/vPvM substances: Occurrence, Assessment, Management and Regulation

Chairpersons: Michael Neumann, Thorsten Reemtsma, and Hans Peter Arp

### Wednesday 14<sup>th</sup> June 2023- ROOM 3 - Slot OP3

14:15 - 14:45	<b>KN20</b>	<b>How Far Have We Advanced in the Analytical Determination of Persistent and Mobile (Organic) Chemicals?</b>
	J. Quintana	Universidade de Santiago de Compostela
14:45 - 15:00	<b>OP2732</b>	<b>Closing the Gap: Ion Chromatography Coupled to High-Resolution Mass Spectrometry to Trace Highly Polar Anionic Substances in Groundwater</b>
	J. Schorr	Swiss Federal Institute of Aquatic Science and Technology (Eawag), Institute of Biogeochemistry and Pollutant Dynamics
15:00 - 15:15	<b>OP422</b>	<b>Read-Across in Practice: Biotransformation Potential Between Activated Sludge and the Environment</b>
	C. Coll	Swiss Federal Institute of Aquatic Science and Technology (Eawag), Syngenta Crop Protection AG
15:15 - 15:30	<b>OP160</b>	<b>Leachability as a Measure for Substance Mobility in the PMT/vPvM Framework</b>
	D. Skodras	Fraunhofer Institute for Molecular Biology and Applied Ecology IME
15:30 - 15:45	<b>OP228</b>	<b>Exploring Organic Carbon–Water Partition Ratio (KOC) Data for Mobility Hazard and Exposure Assessments Using Big Data Approaches</b>
	S. Baskaran	Norwegian Geotechnical Institute (NGI)
15:45 - 16:00	<b>OP430</b>	<b>Grouping Persistent and Mobile Substances to Expedite Assessments and Avoid Regrettable Substitution</b>
	H. P. Arp	Norwegian Geotechnical Institute, Norwegian University of Science and Technology (NTNU)
16:00 - 16:15	<b>OP761</b>	<b>Comprehensive Investigation of Climbazole and its Transformation Products in Environmental Matrices: Assessing their Persistence, Mobility and Toxicity</b>
	K. Anagnostopoulou	Aristotle University of Thessaloniki, Centre for Interdisciplinary Research and Innovation (CIRI-AUTH)

**Thursday 15<sup>th</sup> June 2023 - ROOM 5 - Slot OP1**

09:30 - 09:45	<b>OP204</b>	<b>Are Ozonation and Activated Carbon Filtration Effective Barriers Against Persistent and Mobile Chemicals? - A Monitoring and Screening Study on Wastewater Treatment</b> D. Zahn Helmholtz-Centre for Environmental Research (UFZ)
09:45 - 10:00	<b>OP1881</b>	<b>Stormwater PMT Substances: Removal and Transport in Columns Amended with Carbon-Based Materials</b> M. Teixido Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
10:00 - 10:15	<b>OP89</b>	<b>Limits and Opportunities of Sorption Technology for the Removal of PMT and vPvM Substances from Water</b> G. Sigmund Wageningen University
10:15 - 10:30	<b>OP296</b>	<b>Where do PM Chemicals Come From: Searching for Sources in the Sewer System</b> A. Seelig Helmholtz-Centre for Environmental Research (UFZ)
10:30 - 10:45	<b>OP726</b>	<b>Identifying Urban Pollutant Sources: Biocide Leaching from Paint and Render</b> M. Balda Helmholtz-Centre for Environmental Research (UFZ), Wirtschaft und Kultur (HTWK)
10:45 - 10:50	<b>PS276</b> Poster: PP2_064 S. Perez	<b>Seeking vPvM in Urban Groundwaters with a Method Combining Evaporation and HILIC-Orbitrap-MS</b> ONHEALTH
10:50 - 10:55	<b>PS395</b> Poster: PP2_065 T. Hensel	<b>Usage of Tube Passive Sampler for Surveillance of Trace Parameters in Industrial Wastewater in Urban Industrial Sites</b> Berliner Wasserbetriebe

## 21 - Joint Session DCE EuChemS – DCE IUPAC: Humic substances (HS) and natural organic matter (NOM) dynamics and environmental impact

Chairpersons: Roberto Terzano and Claudio Zaccone

**Wednesday 14<sup>th</sup> June 2023- ROOM 1 - Slot OP3**

14:15 - 14:45	<b>KN21</b>	<b>The Unique Role of Natural Nonliving Organic Matter (NOM) and Humic Substances (HS) in the Environment With Emphasis on Soil</b> N. Senesi University of Bari "Aldo Moro"
14:45 - 15:00	<b>OP129</b>	<b>The Effect of Organic Matter on the Photolysis of Emerging Compounds (Ecs): Mixture of Organic Ecs, Microplastics and Nanoparticles</b> E. Topuz Gebze Technical University
15:00 - 15:15	<b>OP358</b>	<b>High-Frequency and in Situ Fluorescence Measurements Of Organic Matter Quality And Quantity In Wastewater For Better Treatment Process Control</b> A. Goffin University Paris Est-Creteil

## 22 - Integration of experimental and modelling approaches to investigate chemicals behaviour and risk in marine, coastal and transitional environments

Chairpersons: Fani Sakellariadou and Loris Calgaro

Thursday 15 <sup>th</sup> June 2023 - ROOM 3 - Slot OP1		
09:30 - 10:00	<b>KN22</b>  F. Wania	<b>Identifying and Quantifying Atmospheric Sources of Organic Contaminants to the Habitat of the Saint Lawrence Estuary Belugas</b> University of Toronto
10:00 - 10:15	<b>OP63</b>  D. Rabadjieva	<b>Complex Assessment of the Pomorie Salt Lake Waters in the Nature 2000 Zone</b> Bulgarian Academy of Sciences
10:15 - 10:30	<b>OP48</b>  F. Sakellariadou	<b>Mega Ports and Climate Change</b> University of Piraeus
10:30 - 10:45	<b>OP2438</b>  L. Calgaro	<b>Environmental Fate Modelling of Organic Pollutants from Land-Based and Shipping Emissions in the Northern Adriatic Sea Coastal Areas</b> Ca' Foscari University of Venice
10:45 - 11:00	<b>OP2736</b>  E. Giubilato	<b>Prioritization of Contaminants of Emerging Concern for a Screening Study in The Venice Lagoon (Italy) – a Methodological Approach</b> Ca' Foscari University of Venice
11:00 - 11:15	<b>OP389</b>  S. Guéret	<b>Holistic Environmental Impact Assessment from Shipping: a Decision Support Tool for Stakeholders Engagement</b> International Institute for Applied Systems Analysis (IIASA)
11:15 - 11:20	<b>PS390</b> Poster: PP2_069  S. Guéret	<b>Impact Assessment of Shipping Activities: Applying The Critical Load Concept to Both the Atmosphere and Marine Environment</b> International Institute for Applied Systems Analysis (IIASA)

# DETAILED PROGRAMME – Poster presentations

## Poster session 1 (PP1):

**Monday (17:40 – 19:00) and Tuesday (18:05 – 19:00)**

### Session 1 - Air pollution: chemistry and health risks

<b>PP162</b> Poster: PP1_001 M. A. Constantin	<b>The spatial and temporal variability of odour concentration in intensive farm rearing of poultry pigs</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP164</b> Poster: PP1_002 M. A. Constantin	<b>The Odor Reduction Effect of non-Thermal Plasma Technology in the Tire Industry</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP209</b> Poster: PP1_003 B. L. van Drooge	<b>Firefighter's Exposure to Pahas in Prescribed Forest Fires</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PS210</b> Poster: PP1_004 B. L. van Drooge	<b>Antibiotic Resistance Genes and Air Pollution in a Primary School in Barcelona</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PP244</b> Poster: PP1_005 S. Bobic	<b>Multicentric Study of Urban Air Quality in Vojvodina (Serbia) and Assessment of Associated Carcinogenic Risk</b> Institute of Public Health of Vojvodina
<b>PS306</b> Poster: PP1_006 R. Zangrando	<b>Biomass Burning Traces in the Arctic Atmosphere in Winter, Fairbanks (Alaska)</b> CNR-ISP
<b>PP334</b> Poster: PP1_007 R. Zangrando	<b>Poly- and Perfluorinated Alkyl Substances in the Atmospheric Aerosol From a Rural Area of the Italian PFAS Hotspot (Veneto Region)</b> CNR
<b>PP343</b> Poster: PP1_008 C. Jaen	<b>Source Apportionment of Inorganic and Organic Aerosols in a High-Altitude Mountain Site in South Spain</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PS369</b> Poster: PP1_009 F. Monaci	<b>Tracking Long-Term Gaseous Elemental Mercury Concentrations by Passive Air Sampling at an Abandoned Mining Site and Nearby Urban Area</b> University of Siena
<b>PP381</b> Poster: PP1_010 A. Avgenikou	<b>Risk Assessment of Household Dust-Bound PAHs in Relation to Residents' Smoking Habits</b> Aristotle University of Thessaloniki
<b>PP398</b> Poster: PP1_011 P. Martin	<b>Polycyclic Aromatic Compounds (PAH, NPAH And OPAH) and Aliphatic Hydrocarbons in Dwellings of an Urban Area: Levels, Sources and Health Risk Assessment</b> Castilla-La Mancha University
<b>PP399</b> Poster: PP1_012 M. S. Salgado	<b>Environmental Implications of the Emission of Hydroxyethers into the Atmosphere</b> Castilla-La Mancha University



<b>PP413</b> Poster: PP1_013 R. Mikkola	<b>Indoor strains of Aspergillus calidoustus and Aspergillus versicolor emit mycotoxins in guttation droplets</b> Aalto University
<b>PP444</b> Poster: PP1_015 M. Borelli	<b>Chemical Characterization of Particulate Deposits on Electrical System Insulators</b> University of Milan
<b>PS1285</b> Poster: PP1_016 L. Eleftheriou	<b>Monitoring of Dioxin Levels in Air, in the Major Cities of Cyprus</b> CP Foodlab Ltd
<b>PP2427</b> Poster: PP1_017 S. Todorova	<b>Catalytic Combustion of Methane over Pd-Meox-Ceo<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> (Me=Co Or Ni) Catalysts</b> Bulgarian Academy of Sciences
<b>PP2429</b> Poster: PP1_018 M. Ivanovski	<b>An Analysis of Air Pollutants (NO<sub>2</sub>, NOX, PM<sub>10</sub>, and PM<sub>2.5</sub>) in the Republic of Slovenia Between Years 2019 and 2020</b> Elektroinštitut Milan Vidmar
<b>PS2444</b> Poster: PP1_019 N. Ratola	<b>Passive Air Sampling of Volatile Methylsiloxanes, Synthetic Musks and Pahn in Latin America</b> University of Porto-LEPABE, ALiCE
<b>PP2483</b> Poster: PP1_020 F. Ippolito	<b>Inter-Comparison of Different Experimental Methods to Identify and Quantify the Uncertainties of Road Dust Resuspension Emissions</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PP2487</b> Poster: PP1_021 M. Nipen	<b>INQUIRE - Improving Indoor Air Quality and Health: Identification of Chemical and Biological Determinants, their Sources, and Strategies to Promote Healthier Homes in Europe</b> NILU-Norwegian Institute for Air Research
<b>PP2692</b> Poster: PP1_022 S. Petrovic	<b>Experimental Investigation on Coal Dust Suppression Efficiency of Environmentally Friendly Solution by Using Wind Tunnel</b> Mining Institute
<b>PP2693</b> Poster: PP1_023 R. Velinova	<b>Methane Abatement by Catalytic Oxidation over Zr Modified Pd/ La-Ce-Al Catalyst</b> Bulgarian Academy of Sciences
<b>PP2724</b> Poster: PP1_024 A. D. Gilio	<b>An Innovative Monitoring Approach for the Chemical Characterization of Particulate Matter (PM) in an Industrial Site in Southern Italy</b> University of Bari
<b>PS2738</b> Poster: PP1_025 A. K. Halse	<b>An Approach to Assess the Biological Effects of Semi-Volatile Organic Chemicals in Indoor Air</b> Norwegian Institute for Air Research (NILU)
<b>PP2742</b> Poster: PP1_026 S. Breda	<b>Biomonitoring for a Sanitary Landfill Air Quality Using Honeybees and Other Hive Products</b> Fondazione Università Ca' Foscari

## Session 2 - Airborne transport and subsequent deposition of pesticides in non-target areas

<b>PP759</b> Poster: PP1_027 F. Partovi	<b>Microplastics Detection Using Chemical Ionization MS With Multi-Scheme Chemical Ionization Inlet (MION)</b> Karsa Ltd
<b>PS159</b> Poster: PP1_028 M. Bruggemann	<b>Principles and Best Practices for Measurements and Data Interpretation of Pesticides in Air</b> Bayer AG
<b>PS174</b> Poster: PP1_029 L. Mayer	<b>Improving Knowledge on the Atmospheric Fate of Current-Use Pesticides: A Case Study in Central Europe</b> Masaryk University
<b>PS391</b> Poster: PP1_030 B. Jiménez	<b>Assessment of Atmospheric Organochlorine Pesticides over a Decade in Spain (2008-2019)</b> Institute of Organic Chemistry (IQOG-CSIC)
<b>PS438</b> Poster: PP1_031 A. Muñoz	<b>Comparative Analysis of Drift in Air Between Conventional and Optimized Application of Pesticides</b> Fundación CEAM. EUPHORE lab
<b>PS2436</b> Poster: PP1_032 E. Fuentes	<b>Pesticide Inhalation Exposure and Urinary Metabolites Risk Assessment using Conventional and Innovative Cropping Systems in Citrus and Vineyard Crops</b> Foundation for the Promotion of Health and Biomedical Research in the Valencia Region

## Session 7 - Joint Sessions DAC-DCE EuChemS: Recent developments in analytical methods for the detection and quantification of persistent and emerging contaminants in the environment

<b>PP22</b> Poster: PP1_095 E. Patyra	<b>Application of Micellar Mobile Phase for Quantification of Sulfonamides in Medicated Feeds by HPLC-DAD</b> National Veterinary Research Institute
<b>PP91</b> Poster: PP1_096 H. Tamura	<b>Feasibility of Residue Analysis of Biopesticides by Proteotyping Using MALDI-TOF MS</b> Meijo University
<b>PP122</b> Poster: PP1_097 G. Vasile	<b>Detection of Antacid Pharmaceutical Compounds and their Metabolites from Wastewater and Surface Water Samples by SPE-LC-MS/MS</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP146</b> Poster: PP1_098 I. Tolosa	<b>Multiresidue Analysis of Emerging (Paes, Opeas, Alternative Hfrs) and Legacy Persistent Organic Pollutants (Pbdes, Pcbes, Ocps) in Marine Sediments Using GC-MS/MS</b> IAEA Marine Environment Laboratories
<b>PP342</b> Poster: PP1_099 A. E. Medina	<b>NOT Lost and Found but Applied and Found - Pesticides Residues in Soil Over Three Consecutive Years Compared with Application Data in Potato Production</b> Centro Nacional de Sanidad Agropecuaria (CENSA)
<b>PP351</b> Poster: PP1_100 J. Šandrejová	<b>Application of Micro-Volume Detection Setup for Cloud Point Extraction of Cadmium</b> P. J. Šafárik University in Košice

<b>PP354</b> Poster: PP1_101 V. Andruch	<b>Application of Natural Deep Eutectic Solvents for Analysis of Herbal Samples</b> Czech University of Life Sciences Prague
<b>PP1396</b> Poster: PP1_102 L. Michel	<b>OCPs, PCBs and PAHs in Seabird Plasma, Liver and Stomach Oil Analysed by GC–Orbitrap–MS</b> University of Giessen
<b>PP1565</b> Poster: PP1_103 D. Drozdzyński	<b>Analysis of Pesticide Residues in Agricultural Soils in Poland</b> Institute of Plant Protection – National Research Institute Poznan
<b>PP2479</b> Poster: PP1_104 S. Lacorte	<b>Ceramic Passive Samplers for the Analysis of Contaminants in Groundwater</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PP2481</b> Poster: PP1_105 S. Lacorte	<b>Ceramic Passive Samplers Using a Mixed Mode Strong Cation-Exchange Sorbent to Efficiently Monitor Pharmaceuticals and Drugs in River Water</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PP2489</b> Poster: PP1_106 M. Nipen	<b>Bisphenol Analogues and Alkylphenols in Soil, Terrestrial Biota, and House Dust from an Urban Environment</b> NILU-Norwegian Institute for Air Research
<b>PP224</b> Poster: PP1_108 R. Rios-Quintero	<b>Transcriptomic Analysis to Determine Mode of Action and Effects of Three Emerging Contaminants in the Japanese Clam Ruditapes Philippinarum</b> University of Cadiz
<b>PP975</b> Poster: PP1_109 A. S. Gaetano	<b>Sampling Air and Water in a Wastewater Treatment Plant: 16S Rrna Gene Metabarcoding for the Identification of the Bacterial Communities</b> University of Trieste

### Session 8 - Advances in target and non-target screening in environment, food and health related matrices by high resolution mass spectrometry

<b>PS90</b> Poster: PP1_110 A. Q. Beltran	<b>Analysis of Fish Samples by GC-Orbitrap Applying the ROIMCR Chemometric Approach</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PP175</b> Poster: PP1_111 C. Huber	<b>Non-Target Screening of Organic Aerosol Tracers to Elucidate Atmospheric Composition With Ice Cores</b> Paul Scherrer Institut, University of Bern
<b>PP293</b> Poster: PP1_113 A. Torres-Agullo	<b>Optimization and Application of a Pyrolysis – GC-Orbitrap Method for the Identification and Quantification of Microplastics in Air</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PP305</b> Poster: PP1_114 R. Zangrando	<b>Effluent Wastewater as Local Source of Contamination at The Mario Zucchelli Station (Antarctica)</b> CNR-ISP
<b>PP363</b> Poster: PP1_116 P. Nováková	<b>Nontarget HRMS Analysis as a Tool for Revealing True Water Treatment Efficiency</b> University of South Bohemia in České Budějovice
<b>PP373</b> Poster: PP1_117 A. Borik	<b>Critical evaluation of LDTD-APCI for investigation of pharmaceutical transformation products formed by soil bacteria</b> University of South Bohemia in České Budějovice

<b>PP431</b> Poster: PP1_119 D. Drożdżyński	<b>Validation of Multi-Residue LC-MS/MS And GC-MS/MS Method for the Determination of Pesticide Residues in Water</b> Institute of Plant Protection – National Research Institute Poznan
<b>PP736</b> Poster: PP1_120 V. Nikiforov	<b>Tris(2,4-Ditert-Butylphenyl)Tiophosphate - A New Plastic Additive or a Transformation Product of a Common Plastic Additive? Report on the First Time Detection, Structure Elucidation and Synthesis of an Authentic Sample</b> The Climate and Environmental Research Institute NILU
<b>PP939</b> Poster: PP1_121 M. Fang	<b>An Automated Toxicity Based Prioritization Framework for Fast Chemical Characterization in Non-Targeted Analysis and Its Validation in Sludge Water</b> Waters Corporation

### Session 13 - Climate change impacts on the fate and behaviour of nutrients and pollutants in the environment

<b>PP118</b> Poster: PP1_033 M. A. Constantin	<b>Air Pollution in the Context of Mitigation of Environmental Climate Change</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP152</b> Poster: PP1_034 F. Spataro	<b>Active Pharmaceutical Ingredients (Apis) and Personal Care Products (Pcps) in the Kongsfjorden Ecosystem (Svalbard, Norway)</b> CNR
<b>PP190</b> Poster: PP1_035 F. Spataro	<b>Assessment of Legacy and Emerging Persistent Organic Micropollutants in Arctic Ice and Snow</b> CNR-ISP
<b>PS248</b> Poster: PP1_036 S. Frassati	<b>Preliminary Study of the Photodegradation of Bisphenol A (BPA) in Artificial Snow Samples</b> Ca' Foscari University of Venice
<b>PS376</b> Poster: PP1_038 S. Meroni	<b>Black Carbon and Organic Carbon Impact in the Tropical Andes: the Case of Shallap Glacier (Cordillera Blanca)</b> University of Milan - Bicocca
<b>PP527</b> Poster: PP1_039 S. Giansiracusa	<b>Temporal Dynamics of Anthropogenic Pollutants in the Sediment of Kongsfjorden-Krossfjorden System (Svalbard, Norway)</b> Ca' Foscari University of Venice
<b>PP863</b> Poster: PP1_040 O. Ozkiper	<b>Modeling Nature-Based Solutions Suitability in Marine Coastal Areas Under Climate Change Scenarios</b> Ca' Foscari University of Venice, Centro Euro-Mediterraneo sui Cambiamenti Climatici
<b>PS1303</b> Poster: PP1_041 E. Schaad	<b>Determining the Fate and Behavior of Plant Protection Products (PPPs) in Lakes and Water-Sediment Interface under a Changing Climate Using Passive Sampling</b> University of Bern
<b>PP2469</b> Poster: PP1_042 E. Korejwo	<b>Mercury Concentration and Its Trophic Dynamic in a Dominant Antarctic Zooplankton Species with a Focus on the Krill Euphausia Superba</b> Polish Academy of Sciences
<b>PS2472</b> Poster: PP1_043 E. Korejwo	<b>Mercury at the Base of Trophic Pyramid in Admiralty Bay, Antarctica</b> Polish Academy of Sciences

<b>PP2549</b> Poster: PP1_044 K. Pozo	<b>Sedimentary Records of POPs and Heavy Metals in Concepción Bay, Central Chile</b> Masaryk University, Universidad San Sebastián
<b>PS2881</b> Poster: PP1_045 G. Gržinić	<b>Impact of Increased Number of High Temperature Days on Atmospheric PM Pollution from Intensive Poultry Farming</b> Medical University of Gdansk

### Session 15 - Nano- and micro-plastics in the environment

<b>PP32</b> Poster: PP1_046 G. G. Vasile	<b>Adsorption Mechanism of Cadmium on Polypropylene Microplastics in Synthetic Solutions</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP95</b> Poster: PP1_048 D. A. Cinar	<b>Determination of Nickel Adsorption on Soil in the Presence of Chemically Aged Polypropylene Microplastics</b> Gebze Technical University
<b>PS114</b> Poster: PP1_049  F. Corami	<b>Additives, Plasticizers, Small Microplastics (&lt;100 Mm), and other Microlitter Components in the Gastrointestinal Tract of Commercial Teleost Fish: Method of Extraction, Purification, Quantification, and Characterization Using Micro-FTIR</b> CNR-ISP
<b>PP127</b> Poster: PP1_050 G. Vasile	<b>Contamination with Pahs Adsorbed on Microplastics Collected from Prahova and Ialomita Surface Water</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PS132</b> Poster: PP1_051 D. Rede	<b>Plastic-Related Chemicals in the Soil From the Natural Park of Montesinho</b> REQUIMTE/LAQV
<b>PP207</b> Poster: PP1_052 H. Ju	<b>Combined Effects of Microplastics and Chlorpyrifos on the Anecic Earthworm <i>Lumbricus Terrestris</i></b> Wageningen University & Research
<b>PP242</b> Poster: PP1_053 N. Milošević	<b>Do Microplastics Enhance Toxicity of 4-MBC?</b> University of Novi Sad
<b>PP255</b> Poster: PP1_054 K. Meng	<b>The Fate of Egested Conventional and Bio/Biodegradable Microplastics During the Earthworm's Cast Ageing Process</b> Wageningen University & Research
<b>PP271</b> Poster: PP1_056 H. Carter	<b>Challenges Facing Pyrolysis GCMS in the Identification and Quantification of Multiple Micro- and Nano- Plastics in Environmental Samples</b> UKCEH
<b>PP341</b> Poster: PP1_058 F. Barbieri	<b>Surface Sea Water Monitoring of Micro- and Mesoplastics in a Northern Adriatic Coastal Area</b> Ca' Foscari University of Venice
<b>PP347</b> Poster: PP1_059 P. Pastorino	<b>Microplastics and Leaf Litter Decomposition Dynamics: Insights from a Lotic Ecosystem</b> Istituto Zooprofilattico Sperimentale del Piemonte



<b>PS361</b> Poster: PP1_060 L. Tseng	<b>The Disparity in Scientific Investigation: Microplastics are Ubiquitous but only when Accessible</b> Colgate University
<b>PP374</b> Poster: PP1_061 P. Pastorino	<b>The Invasive Red Swamp Crayfish (<i>Procambarus Clarkii</i>) as a Bioindicator of Microplastic Pollution: Insights from Lake Candia (Northwestern Italy)</b> Istituto Zooprofilattico Sperimentale del Piemonte
<b>PP716</b> Poster: PP1_062 F. Partovi	<b>Microplastics Detection Using Chemical Ionization MS With Multi-Scheme Chemical Ionization Inlet (MION)</b> Karsa Ltd
<b>PP1680</b> Poster: PP1_065 N. Ashta	<b>A Novel Approach for Sampling Microplastics in Rainwater</b> Swiss Federal Laboratories for Materials Science and Technology (EMPA)
<b>PP2353</b> Poster: PP1_066 P. Jachimowicz	<b>When Microplastics Meet Aerobic Granular Sludge: Exploring the Consequences</b> University of Warmia and Mazury in Olsztyn
<b>PS2915</b> Poster: PP1_068 G. Labella	<b>Microplastic Characterization and Screening by Combining DART and High-Resolution Mass Spectrometry</b> Bruker Daltonik GmbH
<b>PP32</b> Poster: PP1_046 G. G. Vasile	<b>Adsorption Mechanism of Cadmium on Polypropylene Microplastics in Synthetic Solutions</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP3029</b> Poster: PP1_057 M. Kansiz	<b>Automated Rapid (Sub)Micron Scale Microplastics Analysis with Simultaneous IR and Raman Microscopy with Optional Co-Located Fluorescence Pre-Screening</b> Photothermal Spectroscopy Corp

### Session 16 - Green and sustainable chemistry as an enabler of circular economy: safe-by-design approaches and LCA-based assessment tools

<b>PP78</b> Poster: PP1_069 M. A. Constantin	<b>Recovery of Metals From Galvanic Sludges Using Hydrometallurgical Methods</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP80</b> Poster: PP1_070 D. Cespi	<b>Maleic Anhydride Production from Renewables: A Life Cycle Assessment at Pilot Scale</b> University of Bologna
<b>PP81</b> Poster: PP1_071 M. A. Constantin	<b>Alternative and Conventional Waste Management Methods for Leather Industry</b> National Research and Development Institute for Industrial Ecology, University Politehnica of Bucharest
<b>PP97</b> Poster: PP1_072 F. Arfelli	<b>Application of the Life Cycle Assessment to A Vermicomposting Process: An Innovative Pathway to Produce High Quality Soil Conditioner</b> University of Bologna
<b>PP105</b> Poster: PP1_073 J. Canales-Vázquez	<b>New Environmental Strategies for the Capture and Transformation of CO<sub>2</sub></b> Castilla-La Mancha University



<b>PP106</b> Poster: PP1_074 C. Alonso-Moreno	<b>Balancing Corporate Carbon Footprint by CO<sub>2</sub> Capture and Utilization from Alcoholic Fermentation Processes</b> Castilla-La Mancha University
<b>PP180</b> Poster: PP1_075 V. M. Corbu	<b>Bioconversion of Industrial Wastes into Compounds of Biotechnological Interest Using Genetically Improved <i>Pichia kudriavzevii</i> Strains</b> University of Bucharest
<b>PP218</b> Poster: PP1_076 A. Harrane	<b>Valorization of Agricultural Waste: Synthesis of Starch Nanoparticules (Snps) for Food Packaging Application</b> University Abdelhamid Ibn Badis
<b>PP222</b> Poster: PP1_077 M. P. Atanassova	<b>Green and Sustainable Solvent Extraction of Rare Earth Elements</b> University of Chemical Technology and Metallurgy
<b>PP257</b> Poster: PP1_078 R. Kallenborn	<b>New Circular Bio-Economy Strategies in Biowaste Valorization – Anthropogenic Pollutants as Sustainability Factor</b> Norwegian University of Life Sciences (NMBU)
<b>PP3019</b> Poster: PP1_079 J. Wielgórska	<b>Application-Oriented Zinc Oxide Nanocrystals Derived from Safe-by-Design Self-Supporting Organometallic Approach</b> Warsaw University of Technology, Nanoxo
<b>PP288</b> Poster: PP1_080 G. Torta	<b>Recycling of Rare Earths Elements from Electric Motors of the E-mobility</b> University of Bologna
<b>PP302</b> Poster: PP1_081 L. Ciacci	<b>The Anthropogenic Elemental Cycle of Manganese, Nickel and Natural Graphite in the Eu</b> University of Bologna, Interdepartmental Centre for Industrial Research "Renewable Resources"
<b>PP360</b> Poster: PP1_082 B. Yan	<b>Developing Biocompatible Ionic Liquids Using Chemistry and Computation Tools</b> Guangzhou University
<b>PP1587</b> Poster: PP1_083 C. Paul	<b>Sustainable Synthesis of a Flavor Ester in a Continuous Solventless System</b> Politehnica University Timisoara
<b>PP1704</b> Poster: PP1_084 D. Antonova	<b>Rich in Polyphenols Dry Extract from <i>R.Damascena</i> - a Way For Utilization the Waste from Industrial Rose Processing</b> Bulgarian Academy of Sciences
<b>PP2464</b> Poster: PP1_085 M. Menegaldo	<b>Identification of most Relevant Variables and Processes to Assess the Environmental Impacts of Remediation Technologies along their Life Cycles: Focus on the Waste Management Scenarios</b> Ca' Foscari University of Venice, Fondazione Università Ca' Foscari
<b>PP2544</b> Poster: PP1_086 A. Serpe	<b>2002-2022: 20 Years of E-Waste Regulation in The EU And Evolution of World-Wide Recycling Technologies and Practices</b> University of Cagliari and IGAG-CNR
<b>PS2914</b> Poster: PP1_089 G. R. Ivaniš	<b>Waste to Energy: Food Waste Valorisation toward Biofuel Production</b> University of Belgrade
<b>PP3003</b> Poster: PP1_090 J. Faria	<b>Influence of Carbon Nanotubes Surface Chemistry on the Production of Sustainable Fuels</b> University of Porto

## Poster session 2 (PP2): Wednesday (17:40 – 19:00) and Thursday (13:05 – 14:15)

### Session 4 - Priority and emerging pollutants in natural and drinking waters: occurrence, (bio-)degradation processes, and environmental fate

<b>PS112</b> Poster: PP2_001 P. Fialová	<b>Performance Comparison of Three Passive Samplers for Monitoring of Polar Organic Contaminants in Treated Municipal Wastewater</b> Masaryk University
<b>PS301</b> Poster: PP2_002 M. de la Luz Tovar Salvador	<b>Target and Suspect Screening of Organic Contaminants in Sediments by Pressurized Liquid Extraction and GC-APGC-Q-ToF-MS</b> University of Cadiz
<b>PS420</b> Poster: PP2_003 C. Pinto	<b>Analysis of Glyphosate, Glufosinate and AMPA in environmental water with direct injection</b> Waters Corporation
<b>PS377</b> Poster: PP2_004 N. Đurišić-Mladenović	<b>Analysis of Poly- and Perfluoroalkyl Substances (Pfass) in the Danube River Water Samples from Serbia</b> University of Novi Sad
<b>PS378</b> Poster: PP2_005 J. Živančev	<b>Wide-Scope Target Screening of Pharmaceuticals in the Danube River Water Samples by Ultra-Performance Liquid Chromatography Coupled with High-Resolution Mass Spectrometry</b> University of Novi Sad
<b>PS400</b> Poster: PP2_006 R. Rios-Quintero	<b>Assessing the Contamination and Tidal Influence of Emerging Contaminants in the Guadalquivir River Estuary, SW Spain</b> University of Cadiz
<b>PS425</b> Poster: PP2_007 D. Drożdżyński	<b>Removal of Pesticide and Pharmaceutical Residues During Riverbank Filtration</b> Institute of Plant Protection – National Research Institute Poznan
<b>PS332</b> Poster: PP2_008 M. B. Zekkoub	<b>Investigation of the Adsorption of a Low-Molecular-Weight Sodium Polyacrylate on Calcite</b> Electricité De France (EDF)
<b>PS490</b> Poster: PP2_009 L. Cerasino	<b>Toxins in Biofilms of Lakes and Rivers, an Emerging Threat for Public Health in a Scenario of Climate Changes</b> Fondazione Edmund Mach
<b>PS191</b> Poster: PP2_011 P. Šebej	<b>Photochemical Degradation of Common Xanthene Diagnostic Dyes: What is the Fate of Fluorescein, Eosin and Rose Bengal?</b> Masaryk University
<b>PP421</b> Poster: PP2_013 C. Pinto	<b>Analysis of Pesticides, pharmaceuticals and personal care products in drinking and environmental water by Direct Injection Using UHPLC-MS/MS</b> Waters Corporation
<b>PP429</b> Poster: PP2_014 D. Drożdżyński	<b>Study of Pesticide Residues in Polish River Basins in 2020 and 2021</b> Institute of Plant Protection – National Research Institute Poznan

### Session 5 - Biologically active substances, transformation products and antibiotic

**resistance determinants in wastewater and sludge receiving environments**
**PP396 Phenotypic and Genotypic Antibiotic Resistance of Lactococcus Garvieae and Petauri Isolated from Rainbow Trout in the Mediterranean Region**

 Poster: PP2\_016  
 P. Pastorino

Istituto Zooprofilattico Sperimentale del Piemonte

**PP212 In Vitro Evaluation of Silver Nanoparticles Activity Against 132 Multidrug Resistant Acinetobacter baumannii Strains Isolated From Romanian Hospitals and Aquatic Environments During 2019–2022**

 Poster: PP2\_017  
 I. Gheorghe-Barbu

University of Bucharest

**PP427 Clonal Transmission of Colistin Resistant Klebsiella Pneumoniae Strains Harboring Endemic Mutations in Mgrb Gene in Clinical Settings and Wastewaters from Romania**

 Poster: PP2\_018  
 I. Barbu

University of Bucharest, Research Institute of the University of Bucharest

**Session 6 - Per- and Poly-fluoroalkyl Substances (PFAS) in air, water, soil, sediments, and biota: advances in detection, quantification, remediation, and destruction**
**PP124 Occurrence of Endocrine Disruptors and Related Compounds Along the Romanian Marine Environment**

 Poster: PP2\_019  
 G. Vasile

National Research and Development Institute for Industrial Ecology-ECOIND

**PP274 Determination of Perfluoroalkylated Substances in Drinking Water from Spain and other European Countries According to Directive 2020/2184/Eu**

 Poster: PP2\_020  
 J. B. Quintana

Universidade de Santiago de Compostela

**PP350 UHPLC-Q-TOF Methodology for the Comprehensive Characterization of Pfas in Larus Michahellis Eggs and Blood From the Ebro Delta**

 Poster: PP2\_021  
 B. O. Nolla

Institute of Environmental Assessment and Water Research (IDAEA-CSIC)

**PP785 Adaptation of large panels of Per- and Polyfluorinated Alkyl Substances (PFAS) for routine analysis in Drinking and Environmental Waters by Direct Injection Using UHPLC-MS/MS**

 Poster: PP2\_022  
 C. Pinto

Waters Corporation

**PP1090 Detection and Quantitation of Volatile PFAS with Gas Chromatography Atmospheric Pressure Chemical Ionization (GC-APCI)**

 Poster: PP2\_024  
 C. Pinto

Waters Corporation

**PP2540 Legacy and Emerging Per- and Polyfluoroalkyl Substances in leachate from MSW landfill and in municipal sludge from WWTP: a routine analytical method in LC-MS/MS**

 Poster: PP2\_025  
 A. Perissi

Waters Corporation

**PP2605 Evaluation of the Impact of Surface Properties on the Adsorption of PFAS Using Quartz Crystal Microbalance**

 Poster: PP2\_026  
 O. Beyioku

Ben Gurion university of The Negev

**PP2740 Levels of Per- and Polyfluoroalkyl Substances in Ski Wax Products and Snow from the Czech Republic**

 Poster: PP2\_027  
 J. Pulkrabova

University of Chemistry and Technology Prague

**PP2810 Kinetics and Proposed Mechanisms of Hexafluoropropylene Oxide Dimer Acid Degradation via Vacuum-UV (VUV) Photolysis and VUV/Sulfite Processes**

 Poster: PP2\_028  
 K. D. Zoh

Seoul National University

**PP2928 Long-Chain vs Short-Chain PFAS in an Industry-Serving Wastewater Treatment Plant**

 Poster: PP2\_029  
 F. Calore

Ca' Foscari University of Venice

### Session 9 - New challenges regarding exposure to nanomaterials: from analytical methods to environmental modelling

<b>PS26</b> Poster: PP2_030 A. Datta	<b>Molecular Dynamics Simulations Reveal Orientation-Dependent Nanotoxicity of Black Phosphorene Toward Dimeric Proteins</b> Indian Association for the Cultivation of Science (IACS)
<b>PS407</b> Poster: PP2_032 I. Tismanar	<b>The Stability of TiO<sub>2</sub>-Rgo Self-Cleaning Photocatalytic Coatings for Outdoor Applications</b> Transilvania University of Brasov

### Session 11 - Joint Session DCE EuChemS - DCE IUPAC: Advances in remediation technologies for the reclamation of soil and sediments contaminated by organic and inorganic pollutants

<b>PS2465</b> Poster: PP2_033 M. Menegaldo	<b>STAR-LCA: Simplified Tool to Assess Remediation by LCA</b> GreenDecision s.r.l.
<b>PS138</b> Poster: PP2_034 V. Corbu	<b>Potential Applications of Candida Parapsilosis CMGB-YT in Biosurfactant Mediated Bioremediation</b> University of Bucharest
<b>PS357</b> Poster: PP2_035 T. Tomic	<b>Sediment Quality Assessment of the Begej Canal – Ecotoxicological Tests</b> University of Novi Sad

### Session 12 - Recent advances in computational approaches for early identification and better understanding of chemical hazards

<b>PS240</b> Poster: PP2_037 N. Milić	<b>Triclosan and its Metabolites as Potential Thyroid-Disrupting Chemicals: In Silico Analysis</b> University of Novi Sad
<b>PS1725</b> Poster: PP2_038 E. Papa	<b>An Overview of QSAR Models for the Prediction of Thyroid Disruption-related Endpoints</b> University of Insubria

### Session 14 - From hazard to risk assessment of chemicals and chemical mixtures for the ecosystems and the human health: exposure, ecotoxicological effects, fate, and modelling

<b>PS150</b> Poster: PP2_039 S. Sousa	<b>Analysis of Sixty Environmental Contaminants in Human Adipose Tissue with a Single Extraction-Method Greenness Assessment</b> REQUIMTE/LAQV, Center for Research in Health Technologies and Information Systems, Universidade do Porto
<b>PS1411</b> Poster: PP2_040 A. Jędruch	<b>Impact of Beach Recreation on Environmental Quality of Coastal Areas of the Southern Baltic Sea</b> University of Gdańsk, Polish Academy of Sciences
<b>PP21</b> Poster: PP2_041 E. Patyra	<b>Prevalence of Veterinary Antibiotics in Fertilizers from Animal Food Production and Assessment of their Potential Ecological Risk</b> Department of Hygiene of Animal Feedingstuffs

<b>PP23</b> Poster: PP2_042 E. Patyra	<b>HPLC-FLD Method for the Detection of Sulfonamides in Natural and Organic Fertilizers Collected From Poland</b> Department of Hygiene of Animal Feedingstuffs
<b>PP103</b> Poster: PP2_043 J. T. Andersson	<b>Benzo[C]Fluorene - A Highly Toxic but not Systematically Analyzed Polycyclic Aromatic Hydrocarbon</b> University of Münster
<b>PP121</b> Poster: PP2_044 G. Vasile	<b>Growth and development of <i>Satureja hortensis</i> on As and Cd contaminated soils. Accumulation of toxic metals in different organs of the plant</b> National Research and Development Institute for Industrial Ecology-ECOIND
<b>PP157</b> Poster: PP2_045 J. L. Rivera-Parra	<b>The Case of Ponce-Enríquez ASGM District in Ecuador: Trace Metal Distribution and Movement in a Mixed Land Use Landscape</b> Escuela Politécnica Nacional
<b>PP232</b> Poster: PP2_046 A. Bergmann	<b>Hazard Characterization of Tire Particles With Combined Calux and HPTLC-Bioassay Analysis</b> Ecotox Centre
<b>PP233</b> Poster: PP2_047 I. Tolosa	<b>Exposure of Marine Phytoplankton (<i>Isochrysis galbana</i>) to a Mixture of Organophosphate Esters: Impacts on Physiology, Metabolism, and Potential for Bioaccumulation</b> IAEA Marine Environment Laboratories
<b>PP234</b> Poster: PP2_048 F. Dal Bello	<b>Emergent Water Pollutants: A New Challenge for Human Health</b> University of Turin
<b>PP241</b> Poster: PP2_049 N. Milošević	<b>Exposure to Mercury as Environmental Pollutant Among Lung Adenocarcinoma Patients in Vojvodina</b> University of Novi Sad
<b>PP261</b> Poster: PP2_050 S. Tasselli	<b>Legacy DDT Pollution in a River Ecosystem: Sediment Contamination and Bioaccumulation in Benthic Invertebrates</b> CNR-IRSA
<b>PP281</b> Poster: PP2_051 S. Berkner	<b>Pharmaceuticals in Surface Waters – Comparing Half-Lives in Lab and Field – Regulatory Consequences and Ways Forward</b> German Environment Agency (UBA)
<b>PP337</b> Poster: PP2_052 W. T. Kyaw	<b>Assessment of Atmospheric Pollution by Toxic Elements from Artisanal and Small-scale Gold Mining (ASGM) activity: A case of Myanmar</b> Research Institute for Humanity and Nature
<b>PP340</b> Poster: PP2_053 M. Dulsat-Masvidal	<b>Contamination Patterns of Soils and Sediments from Important Bird and Biodiversity Areas</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
<b>PP365</b> Poster: PP2_054 A. Wódkowska	<b>PAHs in agricultural soils with related ecological and health risk: Polish case study</b> AGH University of Science and Technology
<b>PP403</b> Poster: PP2_055 A. Jędruch	<b>Relationship between form of mercury and the speciation of iron in sediments of the Southern Baltic Sea</b> University of Gdańsk, Polish Academy of Sciences



<b>PP3010</b> Poster: PP2_056 N. Montemurro	<b>Assessment of Mechanisms of Behavioral Toxicity of Tire Rubber-Derived Chemicals Using Zebrafish as Model Species</b> Institute of Environmental Assessment and Water Research (IDAEA-CSIC)
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### Session 17 - Environmental and climate change impacts on cultural heritage

<b>PP284</b> Poster: PP2_057 E. Bernardi	<b>PM-Induced Atmospheric Corrosion: Accelerated Ageing Tests by Using Ambient PM</b> University of Bologna
<b>PP371</b> Poster: PP2_058 I. Quaratesi	<b>Green Materials for the Conservation and Restoration of Parchment and Leather Artefacts</b> National Research and Development Institute for Textile and Leather
<b>PP372</b> Poster: PP2_059 M. Baldan	<b>The ARMID@Venezia: a Project Post-Acqua Granda</b> Ca' Foscari University of Venice
<b>PP1516</b> Poster: PP2_060 C. Chiavari	<b>Interplay between Bacterial Biofilm and Historical Outdoor Bronze Surfaces in the Climate Change Context</b> University of Bologna
<b>PP3002</b> Poster: PP2_061 J. Faria	<b>g-C<sub>3</sub>N<sub>4</sub>-Embedded Ormosil as Multifunctional Treatments with Photocatalytic and Hydrophobic Properties for the Protection of Building Materials</b> University of Porto
<b>PS216</b> Poster: PP2_062 V. M. Corbu	<b>Sustainable Conservation of Cultural Heritage Through Alternative Solutions for Mitigating Biodeterioration Based on Plant Extracts or Silver Derived Nanoparticles</b> University of Bucharest, Research Institute of the University of Bucharest
<b>PS2864</b> Poster: PP2_063 M. Gnemmi	<b>Evaluation and Monitoring of Climate Change Impacts on Architectural Surfaces in Venice</b> Ca'Foscari University of Venice

### Session 20 - PMT/vPvM substances: Occurrence, Assessment, Management and Regulation

<b>PS276</b> Poster: PP2_064 S. Perez	<b>Seeking Vpvm in Urban Groundwaters with a Method Combining Evaporation and HILIC-Orbitrap-MS</b> ONHEALTH
<b>PS395</b> Poster: PP2_065 T. Hensel	<b>Usage of Tube Passive Sampler for Surveillance of Trace Parameters in Industrial Wastewater in Urban Industrial Sites</b> Berliner Wasserbetriebe
<b>PP370</b> Poster: PP2_066 M. Granetto	<b>Agri-Food Waste as Soil Amendments to Control Leaching of Agrochemicals into the Subsoil</b> Politecnico di Torino
<b>PP432</b> Poster: PP2_067 S. Baskaran	<b>"Cleanventory": Identifying the Chemical Structures of Persistent and Mobile Substances on Global Trade Markets</b> Norwegian Geotechnical Institute (NGI)
<b>PP2908</b> Poster: PP2_068 P. P. Guolo	<b>A Source Based Methodology For The Prioritization of Site-Specific Emerging Contaminants in Surface Water</b> Ca' Foscari University of Venice



## Session 21 - Joint Session DCE EuChemS – DCE IUPAC Humic substances (HS) and natural organic matter (NOM) dynamics and environmental impact

<b>PS96</b> Poster: PP2_036 H. Murano	<b>Sorption of Organic Xenobiotics on Soil Organic Matter Requires Attention to Electrolytes as Well as Organic Matter Itself: A Case Study of Acetamiprid</b> Meijo University
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## Session 22 - Integration of experimental and modelling approaches to investigate chemicals behaviour and risk in marine, coastal and transitional environments

<b>PS390</b> Poster: PP2_069 S. Guéret	<b>Impact Assessment of Shipping Activities: Applying The Critical Load Concept to Both the Atmosphere and Marine Environment</b> International Institute for Applied Systems Analysis (IIASA)
<b>PP55</b> Poster: PP2_070 V. van der Schyff	<b>Chemical Safety on Cruise Ships: Understanding Chemical Risks to Humans and the Environment</b> Masaryk University
<b>PP1447</b> Poster: PP2_071 A. Vogel	<b>Dosage concentration and pulsing frequency affect the degradation efficiency in simulated bacterial polycyclic aromatic hydrocarbon-degrading cultures</b> Eberhard Karls University of Tübingen
<b>PP2448</b> Poster: PP2_072 N. Ratola	<b>Coastal Environmental Matrices to Assess the Potential Impact of Volatile Methylsiloxanes</b> University of Porto-LEPABE, ALiCE

### Session 3 (PP2):

**Monday (17:40 – 19:00) and Tuesday (18:05 – 19:00)**

**Wednesday (17:40 – 19:00) and Thursday (13:05 – 14:15)**

Since Session "3 - Organic and inorganic pollutants in wastewaters and natural waters: treatment processes and emission control technologies" has oral presentations over three days, poster that belong to this session will be on display for the whole Conference and indicated with the PP2\_ prefix.

## Session 3 - Organic and inorganic pollutants in wastewaters and natural waters: treatment processes and emission control technologies

<b>PP24</b> Poster: PP2_123 L. Isac	<b>The Influence of Carbon Nanotube and GO on the Photocatalytic Activity of WO<sub>3</sub>/Bi<sub>2</sub>S<sub>3</sub>/Cu<sub>2</sub>S Toward Pharmaceutical Active Compounds from Wastewater</b> Transilvania University of Brasov
<b>PP25</b> Poster: PP2_124 A. Enesca	<b>UV-Vis Activated Cu<sub>2</sub>O/CuS/WO<sub>3</sub>@PANI Heterostructure for Photocatalytic Removal of Pharmaceutical Active Compounds from Wastewater</b> Transilvania University of Brasov
<b>PP87</b> Poster: PP2_125 C. D. Rodrigues	<b>Combination of Fenton's Process and Membrane Distillation for the Treatment of Olive Mill Wastewater</b> University of Porto
<b>PP102</b> Poster: PP2_127	<b>Using Lignocellulosic Vegetal Wastes as Adsorbents for Transition Metals From Wastewaters</b>

A. Tirsoaga	University of Bucharest
<b>PP139</b> Poster: PP2_128 V. Corbu	<b>Radiochemical Synthesized Hydrogel/Metal Nanoparticles For Catalytic Removal Of Dyes From Wastewater</b> University of Bucharest
<b>PP141</b> Poster: PP2_129 J. Zdarta	<b>Biocatalytic Platforms of Immobilized Peroxidases for Micropollutants Conversion</b> Poznan University of Technology
<b>PP142</b> Poster: PP2_130 A. Zdarta	<b>Estrogens Removal by HRP - Nanomaterials Biocatalytic System</b> Poznan University of Technology
<b>PP144</b> Poster: PP2_131 S. Khaliha	<b>Graphene Based Materials for Water Treatment</b> CNR-ISOF
<b>PP199</b> Poster: PP2_132 T. Marjanović	<b>Influence of Dissolved Organic Carbon Nature on Adsorption of Ibuprofen, Caffeine and Diclofenac onto Powdered Activated Carbon–Does the Natural Coagulant Matter?</b> University of Novi Sad
<b>PP246</b> Poster: PP2_134 O. Makota	<b>Photocatalytic Degradation of Ofloxacin Antibiotic Using Sphere-Shaped and Peanut-Like Zinc Oxide and Uv Light Irradiation</b> Institute of Geotechnics of the Slovak Watsonova , Lviv Polytechnic National University
<b>PP252</b> Poster: PP2_135 B. Mahmoud	<b>Tsurface Modification of Olive Stone Waste for Enhanced Sorption Properties of Cadmium and Lead Ions</b> Université Abdelhamid Ibn Badis
<b>PP258</b> Poster: PP2_136 M. Kalt	<b>Biotransformation Capacity for Trace Contaminants - from Wastewater to Natural Surface Water</b> Swiss Federal Institute of Aquatic Science and Technology (Eawag), University of Zurich
<b>PP263</b> Poster: PP2_137 M. Bilińska	<b>A Thin Layer Plasma Catalyst Used as a Structural Medium in Catalytic Ozonation of Textile Wastewater</b> Lodz University of Technology, Bilinski Factory of Colour
<b>PP290</b> Poster: PP2_138 M. Smutná	<b>Retinoid-Like Activities and their Drivers in Effluents of European Wastewater Treatment Plants</b> Research Centre for Toxic Compounds in the Environment (RECETOX)
<b>PP303</b> Poster: PP2_139 E. Gaggero	<b>Photocatalytic Degradation of Contaminants of Emerging Concern by N-Doped TiO<sub>2</sub> Using Simulated Sunlight in Real Water Matrices</b> University of Turin
<b>PP311</b> Poster: PP2_140 A. M. Tanase	<b>Twaste Water Microbial Community Dynamics in Mfcs Systems Using Anode Modification with Nanocomposites of Polyaniline/Nano-Oxides</b> University of Bucharest
<b>PP316</b> Poster: PP2_141 P. Calza	<b>Removal of Clozapine from Polluted Waters via C<sub>3</sub>N<sub>4</sub> Based Materials</b> University of Ioannina
<b>PP333</b> Poster: PP2_142 A. Fernandes	<b>Treatment of Fish Canning Wastewater by Electrochemical Oxidation</b> Universidade da Beira Interior
<b>PP353</b> Poster: PP2_143 S. Sambasivan	<b>An Interdisciplinary Study of Quality Of Water from Long Island's Aquifer Impacted by Septic Systems</b> Suffolk County Community College

<b>PP385</b> Poster: PP2_145 R. Zeumer	<b>Removal of Iron Water Pollution through Adsorption onto Chitosan Bound in Biodegradable Polyurethane Foams</b> University of Applied Sciences Dresden
<b>PP411</b> Poster: PP2_146 M. Covei	<b>Composite TiO<sub>2</sub>-Gc<sub>3</sub>N<sub>4</sub> Thin Film Beads for Advanced Wastewater Treatment</b> Transilvania University of Brasov
<b>PP457</b> Poster: PP2_148 D. Karanovic	<b>Thermally Activated ZnCr Layered Double Hydroxide Based Photocatalysts: Photocatalytic and Antibacterial Efficiency</b> University of Novi Sad
<b>PP924</b> Poster: PP2_149 P. Parthenidis	<b>Landfill Leachate Degradation Using UV/Fe<sup>2+</sup>/H<sub>2</sub>O<sub>2</sub> and UV/Fe<sup>2+</sup>/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> Processes</b> Aristotle University of Thessaloniki
<b>PP1213</b> Poster: PP2_150 V. Krajanová	<b>The precipitation of secondary minerals as a suitable tool for the remediation of contaminated mine waters</b> Comenius University in Bratislava
<b>PP1222</b> Poster: PP2_151 B. Voleková	<b>Evaluation of antimony bioremediation potential of certain fungal species isolated from natural iron ochres</b> Slovak National Museum
<b>PP1486</b> Poster: PP2_153 A. Afonso	<b>Treatment of Olive Mill Wastewater by Combined Processes</b> Instituto Politécnico de Beja, Universidade da Beira Interior
<b>PP2440</b> Poster: PP2_155 D. Szabóová	<b>Sb resistant bacteria identified and isolated from antimony mine in western Slovakia - potential application for mine water remediation</b> Slovak National Museum
<b>PP2446</b> Poster: PP2_156 N. Ratola	<b>Volatile Methylsiloxanes in Wastewater – a Comprehensive Sampling Scheme Combined with Risk Assessment</b> University of Porto-LEPABE, ALiCE
<b>PP2556</b> Poster: PP2_157 S. Lee	<b>Fouling Behaviors in Submerged Anaerobic Ceramic Membrane Bioreactor for High Concentration Food Wastewater Treatment Measurements, Modeling and Influential Factor</b> Sungkyunkwan University
<b>PP2574</b> Poster: PP2_158 T. Chaabane	<b>Adsorptive Removal of Ciprofloxacin Antibiotic Using Bamboo and an Adsorbent Generated by Electrocoagulation</b> USTHB University
<b>PP2730</b> Poster: PP2_160 P. Novachka	<b>Removal of Reactive Blue 13 Using Modified Cellulosic Material Based on Rice Husks</b> Bulgarian Academy of Sciences
<b>PP2865</b> Poster: PP2_161 V. Canaletti	<b>Health-Environmental Sustainability and Valorisation of Ecocenters. Removal of Pollutants and Recycling of Wastewater</b> Ca'Foscary University of Venice
<b>PP2907</b> Poster: PP2_163 S. Barbouchi	<b>Evaluation of Chemical Compatibility between two Mixed Produced Waters and Identification of Mineral Scale Sample in a Southern Tunisian Oilfield</b> Tunisian National Oil Company "ETAP"
<b>PP436</b> Poster: PP1_164 E. Antico	<b>Modified Polymeric Films for the Enrichment of Steroid Hormones from Water Samples</b> Universitat de Girona

## Late posters (PP2):

## Wednesday (17:40 – 19:00) and Thursday (13:05 – 14:15)

<b>PP3014</b> Poster: PP2_074 M. Batlle	<b>Real-Time Estimation of Regulatory Parameters of Directive 91/271/CEE in WWTP Discharges Using Simple Parameters and Artificial Intelligence</b> Adasa sistemas
<b>PP3018</b> Poster: PP2_077 G. Gkotsis	<b>Unveiling the Chemical Universe of PFAS in Biota Using a Combined Targeted and Untargeted Workflow, Utilizing LC-VIP HESI(-)-TIMS-QToF MS</b> National and Kapodistrian University of Athens
<b>PP3020</b> Poster: PP2_079 M. Acocella	<b>Groundwater Mobility of Brake Wear Particles Modified with Humic Acid: Laboratory Tests</b> Politecnico di Torino
<b>PP3021</b> Poster: PP2_080 A. Vailionytė	<b>In Vitro Effects of Low-density Polyethylene Micro(nano)plastics on Human Airway Epithelium</b> State Research Institute Centre for Innovative Medicine, State research institute Center for Physical Sciences and Technology
<b>PP3022</b> Poster: PP2_081 G. Striganaviciute	<b>Biochemical Effects of Polycyclic Aromatic Hydrocarbons (PAHs) on Black Alder Seedlings: Secondary Metabolites, Photosynthetic Pigments, MDA, and Sugars</b> Lithuanian Research Centre for Agriculture and Forestry
<b>PP3024</b> Poster: PP2_082 A. R. Lado Ribeiro	<b>The Use of Zebrafish as an Ever-Expanding Model in Ecotoxicology, Drug Research and Human Diseases Treatment</b> University of Porto
<b>PP3025</b> Poster: PP2_083 A. R. Lado Ribeiro	<b>Enantiotoxicity of Butylone on Zebrafish Larvae Behaviour – Preliminary Data</b> University of Porto
<b>PP3026</b> Poster: PP2_084 A. R. Lado Ribeiro	<b>Zebrafish Embryos (<i>Danio rerio</i>) as a Model for the Evaluation of Teratogenicity Caused by Toxics and Psychoactive Substances</b> University of Porto
<b>PP3027</b> Poster: PP2_085 C. Henkel	<b>Influence of Environmental Factors on the Leaching of Phthalates From Polyvinyl Chloride Microplastics Into Aqueous Systems – Insights From Laboratory Experiments and Modeling</b> University of Vienna
<b>PP3030</b> Poster: PP2_087 N. Dulova	<b>Degradation of Imidazolium-Based Ionic Liquids by UV Photolysis and Pulsed Corona Discharge Combined with Persulfate</b> Tallinn University of Technology
<b>PP3031</b> Poster: PP2_088 A. Covaci	<b>A Review of the Occurrence of Persistent and Mobile Chemicals in Environmental Samples Relevant for Human Exposure</b> University of Antwerp

**PP3032****Enhanced Adsorption Capacity of Bio-Based Chitosan Hydrogels for Removal of Pharmaceuticals in Multicomponent Mixture**

Poster: PP2\_089

N. Malesic-  
Eleftheriadou

Aristotle University of Thessaloniki

**PP3033****Photocatalytic degradation of the antidepressant drug Venlafaxine using reduced graphene oxide (rGO)/Semiconductor nanocomposites: Kinetics, identification of transformation products and in silico toxicity assessment**

Poster: PP2\_090

P. Parthenidis

Aristotle University of Thessaloniki