SETAC EUROPE 35TH ANNUAL MEETING

11–15 MAY 2025 | VIENNA, AUSTRIA | SETAC.ORG/VIENNA

INNOVATION FOR TOMORROW: PROGRESS IN SAFE AND SUSTAINABLE CONCEPTS

PROGRAMME BOOK

Prince Sultan Bin Abdulaziz International Prize for Water

Recognizing Innovation

Winners for the 11th Award (2024)

Creativity Prize

[1] The team of Maria Cristina Rulli (Polytechnic of Milan, Italy) and Paolo D'Odorico (University of California, Berkeley, USA)

for spearheading novel analyses of the water-energy-food nexus that describe how numerous complex factors interact, providing for better freshwater stewardship in a changing, globalised world.


Maria Cristina Rulli


Paolo D'Odorico

[2] The team of Zhiguo He (Zhejiang University, China)

for developing working, versatile soft robots with unprecedented manoeuvrability that have the capacity for numerous underwater research and monitoring applications. Team members include: Pengcheng Jiao and Yang Yang.


Zhiguo He

Surface Water Prize

Qiuhua Liang (Loughborough University, UK) and his team

for developing innovative, open-source, multi-GPU hydrodynamic models to support real-time flood forecasting at high temporal-spatial resolutions. Team members include: Huili Chen, Xiaodong Ming, Xilin Xia, Yan Xiong and Jiaheng Zhao.


Qiuhua Liang

Groundwater Prize

Chunmiao Zheng (EIT, Ningbo, China) and his team

for powerful modelling tools to understand groundwater processes and manage groundwater resources under diverse eco-hydrological and climatic conditions, considering environmental and socioeconomic factors at local and national scales.


Chunmiao Zheng

Alternative Water Resources Prize

Virender K. Sharma (Texas A&M University, USA) and his team

for the effective removal of antibiotics and pharmaceuticals from wastewater through advanced oxidative processes by activated ferrate, which work at high, even enhanced, efficiency in water containing commonly occurring natural organic matter. Team members include: Ching-Hua Huang, Chetan Jinadatha and Radek Zbořil.


Virender K. Sharma

Water Management & Protection Prize

Joseph Hun-wei Lee (Macau University of Science & Technology, China)

for developing unique and highly effective hydro-environmental modelling systems for the sustainable water management of smart cities.


Joseph Hun-wei Lee

Invitation for Nominations

12th Award (2026)

Nominations open online until 31 December 2025

www.psipw.org e-mail: info@psipw.org

Willkommen in Wien

Welcome to SETAC Vienna!

We are looking forward to a phenomenal conference week in Vienna, starting with Sunday's opening ceremony and the forward-looking perspectives it will bring under this year's meeting theme "Innovation for Tomorrow: Progress in Safe and Sustainable Concepts".

Stimulated by the analysis of needs and opportunities for a safe and sustainable chemical economy, outlined by world-renowned sustainability expert John Elkington, we're certain you'll leave the opening with excitement for the days ahead. It will be a week in which we'll adopt the mindset to explore uncharted territories and where our shared vision for safety and sustainability of chemicals and materials, as well as cities and landscapes, might thrive in innovative directions. The paths forward may still be hidden, but when we assume they are present, we can collectively develop the ideas needed to address the triple planetary crisis of climate change, biodiversity loss and pollution.

The Programme Committee has worked hard to shape a programme that meets this complex challenge. Alongside platform and poster sessions, there will be special sessions specifically designed to truly make a difference. The week will be topped off with dedicated plenaries that examine these challenges from different angles: What do we learn if we start looking at impacts on biodiversity? What role can Artificial Intelligence play? And how can we best communicate our message to a diverse audience? We hope that you will share our enthusiasm for the programme ahead!

SETAC Europe returns to Vienna after 23 years, and there's no better time to experience this vibrant city than in spring. Aside from Austrian tradition and history, you may also profit from the many "green spaces", from parks and hills to the Danube riverside. In 2025, Vienna celebrates the 200th birthday of The King of Waltz, Johann Strauss, an extra reason to soak up the city's unique charm!

We would like to sincerely thank the dedicated Programme Committee, the SETAC Europe office, and all the volunteers whose hard work has made this meeting possible. We are also deeply grateful to our sponsors, partners and exhibitors for their generous support.

We hope you will enjoy your stay!

Great to meet you and waltz together in Vienna!

Hanna Schreiber **Barbara Wetzer** **Leo Posthuma**
Chairs of the SETAC Europe 35th Annual Meeting Programme Committee

Contents

WIFI

Network: SETAC
Password: setac-2025

Europe Partners

Thank you to our partners for their support in helping us advance environmental science and management.

If you are interested in becoming a SETAC Europe Partner, please visit us at the information desk during the meeting or contact us at setac@setac.org.

Welcome from SETAC Europe

Welcome to the SETAC Europe 35th Annual Meeting!

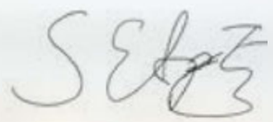
While you may know Vienna as the City of Music and the City of Dreams, Vienna is also a city of science. As one of the oldest university cities in Europe, Vienna's history of scientific research and innovation, particularly in the natural sciences, goes back many centuries - the University of Vienna was founded in 1365. Now, with 9 universities, 5 technical colleges, hundreds of research institutions and research-focussed companies, more than 50,000 people work in natural sciences-related research and development. Vienna, seeking to lead the way in sustainability, environmental and climate protection, adopted its Climate Protection Programme in 1999, reducing per-capita CO2 emissions by almost 40%, with the goal to become climate-neutral by 2040. Climate justice and circular economy principles are core to this strategy, ensuring equity both now and for future generations. This commitment to sustainability aligns with our own efforts as this year's meeting is officially a "green" event, reinforcing our dedication to reducing waste and environmental impact.

All of this makes Vienna a perfect host for our 35th annual meeting, themed "Innovation for Tomorrow: Progress in Safe and Sustainable Concepts". The meeting theme seeks to integrate cutting-edge innovations to support the transition to Safe and Sustainable by Design (SSbD), not only for the development of new molecules and products and the management of old ones, but also for the sustainable management of cities, land use and landscapes. The tools and approaches SETAC scientists can apply to these challenges include chemical safety and risk assessment, Life Cycle Assessment (LCA), environmental quality assessment, chemicals management, exposure assessment, environmental chemistry and ecosystem concepts.

We give our sincere thanks to the meeting chairs – Hanna Schreiber, Leo Posthuma and Barbara Wetzer – as well as the Programme Committee and Science Committee, for their tireless work in crafting an exciting and rich programme. With 7 tracks, 8 sessions, 450 platform presentations, 1860 posters, 6 special sessions, seven training courses, four plenaries, 94 exhibitors and many parallel events, all attendees will be able to find plenty to engage them. SETAC meetings are always an excellent opportunity to meet with old friends and colleagues, make new connections, teach and mentor, network and learn and be inspired.

The SETAC Europe annual meetings are a premier event for those interested in Environmental Quality Through Science®, and this year is no exception. It is another highly attended meeting, with over 2700 delegates coming together from more than 38 countries. Such successful meetings do not happen on their own. As well as the organisers above, the team at the SETAC Europe office, along with many student volunteers, session chairs, presenters, exhibitors, sponsors, partners and all who come to partake make these meetings what they are. We thank all of you for supporting SETAC and the science it stands for. Now more than ever, there is a need to support and communicate sound, relevant and transparent science in support of environmental management, policy and decision-making.

Thank you for coming to join that conversation.
We wish you a pleasant and inspiring meeting in this beautiful city.



Sabine Apitz
SETAC Europe President

Karel De Schamphelaere
SETAC Europe Executive Director (ad interim)

Global Partners

Thank you to the SETAC Global Partners for helping ensure our goal of Environmental Quality Through Science®.

If you are interested in becoming a SETAC Global Partner, please visit us at the information desk during the meeting, or contact us at setac@setac.org.

Programme Committee and Staff

Programme Committee

- **Hanna Schreiber (chair)**, *Environment Agency Austria, Austria*
- **Leo Posthuma (chair)**, RIVM and Radboud University, *Netherlands*
- **Barbara Wetzer (chair)**, *Environment Agency Austria, Austria*
- Gertie Arts, *Wageningen University and Research, Netherlands*
- Nicole Bandow, *German Federal Environment Agency, Germany*
- Pedro Carvalho, *Aarhus University, Denmark*
- Peter Fantke, *substitute ApS and Goethe University Frankfurt, Germany*
- Paola Grenni, *National Research Council, Water Research Institute, Italy*
- Ksenia Groh, *Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland*
- Iris Kral, *BOKU University/EY Denkstatt, Austria*
- Marja Lamoree, *Vrije Universiteit Amsterdam, Netherlands*
- Annegaaike Leopold, *Calidris environment bv, Netherlands*
- Iseult Lynch, *University of Birmingham, United Kingdom*
- Ahmad Mahdavi, *University of Tehran, Iran*
- Laia Navarro Martin, *IDAEA-CSIC, Spain*
- Montserrat Núñez, *IRTA, Spain*
- Miguel Oliveira, *University of Aveiro, Portugal*
- Manuel Ortiz Santaliestra, *Institute for Game and Wildlife Research (IREC), Spain*
- Leo Posthuma, RIVM and Radboud University, *Netherlands*
- Sandrine Sourisseau, *TotalEnergies, France*
- Chesney Swansborough, *Ricardo, United Kingdom*
- Paul Thomas, *KREATiS, France*
- Nicole Unger, *Mondi Group, Austria*
- Zhiyong Xie, *Helmholtz-Zentrum Hereon, Germany*

SETAC Staff

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SETAC Europe Executive Director

Bart Bosveld
SETAC Global Executive Director

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Terresa Murdoch

Roel Evens

Barbara Koelman

Anne Ezra

Meeting Sponsors

Thank you to our meeting supporters for their generous contributions!

Green Meeting Certificate

This year, SETAC Europe is proud to pursue the **Austrian Ecolabel for Green Meetings and Green Events**. This recognition reflects our commitment to integrating sustainability into every aspect of our event, and not just talking about sustainability, but truly walking the talk.

To meet the label's high standards, we've taken extra visible and invisible measures beyond our usual sustainability efforts— from careful resource management and waste reduction to choosing eco-certified suppliers, offering plastic-free vegan catering, and skipping SETAC-branded bags. These choices were made thoughtfully and came with added costs, but we felt it was the right investment to align our actions with our values.

We hope you'll join us in making SETAC Vienna as green as possible—whether by using public transport, staying in eco-friendly hotels, or cutting down on waste. Every little action helps!

Learn more about our sustainability efforts and how you can help with your actions.

Practical Information

Badges

Badges must be worn for access to the conference, including sessions, meetings and the exhibition hall.
To replace a lost badge, a €5 charge applies.

Certificates of Attendance

Registered participants can download their certificate of attendance via the virtual meeting platform. If you are a presenter, you will receive an email with a link to download your presentation certificate shortly after the meeting.

Emergencies and First Aid

If you need medical attention, you can visit the medical service offices (room 0.41) or visit the information desk.
For emergencies, call 112.

Hours (CEST)

Cloakroom
Room 0.15 (Level 0)

Sunday 8:00–21:00
Monday 8:30–21:00
Tuesday 8:30–18:15
Wednesday 8:30–18:15
Thursday 8:30–15:00

Registration/Info Desk
Entrance (Level 0)

Sunday 8:00–20:30
Monday 8:30–18:15
Tuesday 8:30–18:15
Wednesday 8:30–18:15
Thursday 8:30–15:00

Family Room
Room 0.91 (Level 0)

Monday 8:30–18:15
Tuesday 8:30–18:15
Wednesday 8:30–18:15

Participants can store their personal items in the cloakroom for free. SETAC is not responsible for any loss.

Lost and Found

Please visit the information desk for lost and found items.

Special Needs

If you have a disability or limitation that may require special consideration in order to ensure your full participation in this meeting, please see a staff person at the information desk. Please note, advance notice is necessary to arrange for some accessibility needs.

Exhibitors Listing

BOOTH	EXHIBITOR
101+102	Agilent Technologies
66	AgroChemex Environmental
14	Arcadis
6	ARCHE Consulting
24	AVANTOR
19	Battelle
43+44	Bayer
67	BioChem agrag GmbH
23	Bioneeds India
37	Bionomous
9	Biotage
64	Bruker
74	Cambridge Isotope Laboratories
62	CEA
89	Cefic-LRI
99	CEMAS
53	Chiron
82	Clinisys
85	Cloverstrategy Lda
38	Concawe
28	Corteva Agriscience
2	ECETOC
5	Econetta / Aquatox Solutions
47	Ecotox alliance
83	enviPath
79	Enviresearch Ltd
29	ERM
41	Eurofins AgroScience Services
36	European Chemicals Agency
49	Experimental Pathology Laboratories
48	Exponent
97+98	Fera Science Ltd

BOOTH	EXHIBITOR
70	gaiac
1	GG BioTech Design
63	HESI
7	Hidex
18	Holis
68	HPC Standards GmbH
3	Hydrotox
42	HYG - ENV HYGIENE & TOX
87	ibacon
59+60	IES
20	ImmuONE
90	International Collaboration on Cosmetics Safety (ICCS)
54	JRF GLOBAL
94	KeAi Publishing
93	knoell
65	KREATiS
88	LabAnalysis Life Science
61	Labcorp
69	LabLogic Systems Limited
73	Labmix 24 GmbH
22	Laboratoire des Pyrénées et des Landes
45	Laboratoire Watchfrog
51	LCTech GmbH
26	Loligo Systems
56	LUKASIEWICZ-IPO
71+72	Metals Data Centre
12	Microbiotests
46	NC3Rs
91	Noack Laboratorien
4	Norwegian Institute for Water Research (NIVA)
11	PAULY
75+76	PerkinElmer

Exhibitors Listing

BOOTH	EXHIBITOR
13	Phenomenex
84	PrecisionTox
35	Primacyt Cell Culture Technology
100	ProtoQSAR
34	PyroScience
92	Ricardo
17	RIFCON
21	Royal Society of Chemistry
52	RPS, A Tetra Tech Company
27	RRMA
15	SCIEX
31+32	Scymaris
103	SETAC Journals
81	SGS
57+58	Shimadzu Europa GmbH
10	SmartMembranes GmbH
33	Smithers
96	Staphyt
25	SynTech Research Group
30	TekenBio
50	ToxRat
78	TRAJAN
95	TSG Consulting
86	UMCO
39	Viewpoint Behavior Technology
55	Vitis Regulatory
80	Waters
40	wca
77	Wellington Laboratories
16	WTConsulting
8	Zantiks Ltd

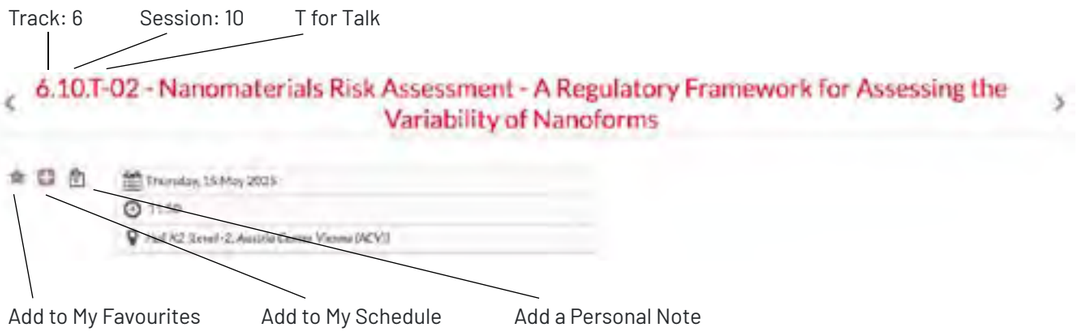
Exhibition Floorplan

View the exhibition floorplan with all exhibitors and their locations online.

Scientific Programme

Scientific Programme Organisation

The scientific programme is organised by tracks and sessions. Within each session, there are sub-sessions organised by talks (T), posters (P) and poster corners (PC). Recordings of the platform sessions and the poster files are available on-demand on the meeting platform for up to three months after the conference.



Tracks

1. Environmental and Human Toxicology: From Molecules to Organisms, from Omics to in Vivo
2. Ecotoxicology Becomes Stress Ecology: From Populations to Ecosystems and Landscapes
3. Environmental Chemistry and Exposure Assessment: Analysis, Monitoring, Fate and Modeling
4. Ecological and Human Health Risk Assessment of Chemicals, Mixtures and Stressors and Risk Mitigation Strategies
5. Life Cycle Assessment and Foot-Printing
6. Environmental Policy, Risk Management, and Science Communication
7. Moving Beyond – Cross Cutting Themes, Emerging and Transdisciplinary Topics
8. Special Sessions

Scientific Programme Updates

The programme book reflects the status of the programme on 14 April, which was the hard-copy print deadline. For the most up-to-date information, please visit the online meeting platform. For example, some platform and poster presentations have been withdrawn, and some platform sessions have been restructured.

Abstract Book

Download your copy at setac.org/vienna.

Meeting Platform

Visit the meeting platform to view the most up-to-date schedule or access the recordings.

Practical Information Presenters

Information for Platform Presenters

General Information

Each platform presenter has 12 minutes followed by three minutes for questions and answers. Session chairs will enforce this. We advise you to:

- Have your presentation slides uploaded in advance.
- Be in the session room no later than 20 minutes prior to the session and introduce yourself to the session chair(s).
- Stay on schedule!

Presentation Upload and Review

If you are a platform or poster spotlight presenter, you can upload your PowerPoint or pdf presentation via the meeting platform or on-site in the speaker-ready room (room 0.12). Our staff and volunteers will be happy to help you. Be sure to upload your presentation either online by 23:59 CEST the day before your presentation or in the speaker-ready room.

Information for Poster Presenters

Poster Display

Posters are displayed in one of the poster areas from 9:30–18:15. Each poster has been assigned a specific code. The two letters represent the day your poster will be displayed, and the number refers to the poster board, e.g., Mo123 = Monday, board 123.

Poster Corner Presentations

The Poster Corners are scheduled from 16:00–16:45 and located in Foyer D on level -2. During the session, up to six posters with a common theme will be highlighted in front of a digital screen, followed by a moderated discussion with the audience.

Poster Setup and Take Down

Presenters are responsible for setup and take down. Posters for the respective day can be put up from 8:30 to 9:30. Posters must be taken down immediately after the poster social on Monday-Wednesday at 18:15 and after the lunch break on Thursday at 14:25, or they will be taken down and destroyed.

Poster Spotlight Presentations

The Poster Spotlights take place at the end of a platform session and consist of a 4-minute pitch, highlighting the major findings of the work. If you have a Poster Spotlight Presentation (maximum three slides), please upload your presentation in advance (see Presentation Upload).

Poster Viewing and Attendance

There are four designated poster viewings per day (see table below). Poster presenters are encouraged to be available to present their posters during these times to ensure maximum exposure for their research.

Late Poster Presentations

Late-breaking science poster abstracts are not listed in the printed programme. Please check the online programme instead.

POSTER VIEWING AND ATTENDANCE

	Monday-Wednesday	**Thursday**
Setup	8:30–09:30	8:30–09:30
Morning Coffee Break & Poster Viewing	10:50–11:35	10:50–11:35
Lunch Break & Poster Viewing	12:55–14:25	12:55–14:25
Afternoon Coffee Break & Poster Corners	15:45–16:45	
Poster Social & Poster Viewing	17:45–18:15	
Take Down	by 18:15	by 14:25

SPEAKER-READY ROOM (0.12)

Sunday	14:00–20:00
Monday-Wednesday	8:30–18:15
Thursday	8:30–11:30

Sunday, 11 May

SUNDAY SCHEDULE		
08:00–20:30	Badge Pick-Up and Registration	Entrance Hall
08:00–21:00	Cloakroom	0.15
08:30–17:30	Training Courses	
09:00–15:00	SETAC Europe Council Meeting	-2.31
14:00–20:00	Speaker Ready Room	0.12
17:30–19:00	**Opening and Awards Ceremony Featuring Sunday Plenary John Elkington**	**Hall E**
19:00–20:30	**Welcome Reception**	**Exhibition Hall**

Training Courses

MORNING HALF-DAY COURSES | 8:30–12:30		
TC01	Safety and Sustainability Assessment in the Context of EU SSbD Framework	0.49-0.50

FULL-DAY COURSES | 8:30–17:30		
TC02	Contaminant Biotransformation Pathways and Kinetics – The enviPath database, Open Research Data, and Prediction Tools	0.14
TC03	Environmental Omics as a Novel Approach Methodology	0.96-0.97
TC04	Introduction to in Silico Modelling Approaches for Regulatory Ecotoxicological Hazard Assessment	0.16
TC05	Introduction to Mechanistic Effect Modelling for Environmental Risk Assessment	0.51
TC06	Statistical Methods in Ecotoxicology Using R	0.11

AFTERNOON HALF-DAY COURSES | 13:30–17:30		
TC07	Activity-Based Environmental Risk Assessment for PFAS and POPs	0.49-0.50

Sunday, 11 May

Opening and Awards Ceremony

17:30–19:00 | Hall E

The SETAC Europe 35th Annual Meeting will open in true Viennese style. **Waltz in Vienna** will set the stage for an inspiring week ahead with an elegant string quartet performance, beautifully complemented by waltz dancers. Following this captivating performance, we'll kick off the meeting with warm welcome messages from SETAC Europe and Global Governance, the much-anticipated awards ceremony, and an introduction from the Programme Committee, all leading into a thought-provoking plenary presentation by John Elkington.

Join us as we set the rhythm for a week of groundbreaking science, collaboration, and unforgettable experiences!

Plenary Speaker

17:30–19:00 | Hall E

Chemistries of the Future: Why Tomorrow's "Green Swans" Mean Refocusing From Negative To Positive Externalities

John Elkington, *Author, advisor and serial entrepreneur, United Kingdom*

One of the founders of the global sustainability movement, John Elkington has co-founded four businesses since 1978: Environmental Data Services (ENDS, 1978-), CounterCurrent (1983-), SustainAbility (1987-), and Volans Ventures (2008-). Along the way, he has served on more than 80 boards and advisory boards. He has addressed over 1,500 conferences around the world and was a faculty member of the World Economic Forum from 2002–2008. He is the author or co-author of 21 books, the latest is "Tickling Sharks: How We Sold Business on Sustainability," to be published in June 2024 by Fast Company Press. He is an authority on corporate responsibility and sustainable development and has been a visiting professor at Cranfield University School of Management, Imperial College and University College London.

Meet and greet John Elkington from 10:50–11:35 on Monday, 12 May, in room 0.14.

MONDAY SCHEDULE		
08:30–18:15	Badge Pick-Up & Registration	Entrance Hall
08:30–21:00	Cloakroom	0.15
08:30–18:15	Speaker Ready Room	0.12
08:30–09:30	Poster Setup	Exhibition Hall
08:30–18:00	ibacon Business Meetings	0.11
09:30–10:50	**Presentation Sessions**	
10:50–11:35	Coffee & Poster Break	Exhibition Hall
10:50–11:35	**John Elkington Meet and Greet**	**0.14**
10:50–11:35	SETAC Journals: Meet the Editors	SETAC Square
11:35–12:55	**Presentation Sessions**	
12:55–14:25	Lunch & Poster Break	Exhibition Hall
12:55–14:25	**Student Lunch: Career Perspectives** (sponsored by Colgate)	**Hall L1**
13:25–14:25	LGBTIAQ+ Meetup	0.49-0.50
13:30–14:30	Advancement and Application of Alternatives Assessment (A4) Interest Group Meeting	0.96-0.97
14:25–15:45	**Presentation Sessions**	
15:45–16:45	Coffee Break & Poster Corners	Exhibition Hall
15:45–16:45	EDTRA Interest Group Meeting	0.49-0.50
16:00–16:45	**Poster Corners**	**Foyer D**
16:00–17:00	Effect Modelling Interest Group Meeting	0.14
16:00–18:00	Advancement in Technologies and Reference Materials for Nanoplastics Detection: Innovation and Future Perspectives	0.96-0.97
16:30–18:00	SETAC Europe LCA IG Steering Committee Meeting	0.51
16:45–17:45	**Plenary: Katrin Vorkamp**	**Hall E**
17:00–18:00	Bioaccumulation Science Interest Group Meeting	0.14
17:00–18:15	Students Evening Event: Toxic Tales	Hall L1
17:45–18:15	**Poster Social**	**Exhibition Hall**

Monday, 12 May

Plenary Speaker

16:45–17:45 | Hall E

Pollution in a Changing Arctic – Influences of Climate Change and Regulatory Challenges

Katrin Vorkamp, Aarhus University, Denmark

Katrin Vorkamp is an environmental chemist with research interests in the environmental fate of organic contaminants and their exposure to humans. Katrin Vorkamp holds a Ph.D. in Environmental Science from the University of Bayreuth, Germany and is today Professor of Environmental Chemistry at Aarhus University, Denmark. Much of her research is directed at the Arctic, where she and her team have established long time series of persistent organic pollutants (POPs) and studied their transport to and accumulation in Arctic ecosystems and food items. Her group has pioneered work on Chemicals of Emerging Arctic Concern (CEACs), developing methods for the detection of other chemicals than POPs, with a focus on non-target and suspect screening in recent years. She is also involved in microplastic research in the Arctic. Katrin Vorkamp has been co-lead of the POP Expert Group of the Arctic Monitoring and Assessment Programme (AMAP) for nine years and is also a member of the AMAP Litter/Microplastic Expert Group. She has a leading role in the Horizon Europe project Arctic Pollution in a One Health Perspective (ArcSolution) as well as the Partnership for the Assessment of Risks from Chemicals (PARC), which offers possibilities of mutual inspiration and harmonization between Arctic and European monitoring activities. A global interest in per- and polyfluoroalkyl substances (PFAS) also connects with her leading role in the newly founded Danish PFAS Research Centre.

★ Special Session

09:30–10:50 | Hall F2

8.05 – The European Green Deal (Chemicals Strategy for Sustainability): Leveraging the AI Power to Advance Biodiversity Protection

Michelle Bloor, Sounding Board of the High Level Roundtable for the implementation of the Chemical Strategy for Sustainability

Since 2020, SETAC Europe has held Special Sessions on different aspects of the European Green Deal's Chemicals Strategy for Sustainability (CSS). In 2020, we discussed the CSS's key definitions. In 2021, we explored the knowledge gaps and communication-related obstacles for the implementation of the CSS. In 2022, we considered how to achieve a transparent, coherent and simplified regulatory process, including the criteria for safe and sustainable chemicals, and what to include in a strategic research and innovation agenda. We also discussed how to increase communication between human health and environmental disciplines. In 2023 and 2024, we explored several key questions, which were identified through the 2022 discussion. Specifically, the 2023 Special Session explored what elements should be included in a modernised chemicals risk and alternatives assessment processes appropriate for the CSS's stated goals? How to prioritise the investment of efforts between high-throughput hazard screening using simplified NAMs-based approaches, and the more holistic, spatially and temporally resolved analyses needed to assess ecological effects of chemical mixtures in the environment? Finally, the 2024 Special Session explored how do we avoid the misuse of the phrase 'science-based'? Is all data useful data, and what level of information is sufficient to make informed decisions? How do we avoid paralysis by analysis in decisions on chemicals? What data are truly needed to move forward, and what is needed by regulators? What are the CSS's key science data gaps to both inform decisions on chemicals and shape future chemicals that are Safe and Sustainable by Design? Multidisciplinary and transdisciplinary solutions are called for, but how do we (as SETAC members and stakeholders) facilitate and achieve effective collaborations between different disciplines involved in the design, production, and assessment of chemicals, on what topics and to what end?

Strengthening the science to policy interface is one of the key strategic goals of SETAC Europe, which is why the organisation became a member of the High Level Roundtable for the implementation of the CSS in 2021, and the CSS Special Sessions feed into that process, by fostering a communication channel with the society's membership. Since 2020, the Special Session's focus and discussion have fed-forward from the previous year's event. During our 2024 Special Session, we polled the delegates to understand what topics would be of interest to them to feed into the 2025 event. Six main themes arose, i.e. chemical simplification, mixtures, one substance – one assessment, biodiversity, artificial intelligence (AI) and exposure.

For the 2025 Special Session, we have chosen to explore chemicals as a causeative factor of biodiversity loss and the future role that AI might offer. AI refers to a series of algorithms that are trained with data to replicate and improve decisions. AI holds great promise for improving the conservation and sustainable use of biodiversity and ecosystem services in a rapidly changing and resource-limited world.
The EU's Biodiversity Strategy for 2030 plans for Europe's biodiversity to be on a pathway to recovery by 2030. The strategy is EU's contribution to the global negotiations for the post-2020 Biodiversity Framework. As a key component of the European Green Deal, it is also a mechanism to support green recovery following the Covid-19 pandemic.
Chemical pollution is a growing threat to life on Earth. With over 1 million species threatened with extinction, nature is being lost faster than ever before. However, while most drivers of the global biodiversity loss are considered collectively, the risks from anthropogenic chemicals are not fully considered, and when they are, it tends to be in isolation.

The Special Session will be 80 minutes in length and will include five lightning presentations by invited speakers and an interactive panel discussion with audience participation. Prior to the event, the Organising Committee of the Special Session invited the SETAC membership, through a SETAC News article, to submit questions to be considered for the session. The Organising Committee of the Special Session will select 5 questions to be incorporated into the session.
The data collected from the live polls, presentations and the discussion captured during the Special Session will be used to prepare a report for the Globe and, if appropriate, a paper for IEAM.

Meet and Greet with John Elkington

10:50–11:35 | Room 0.14

John Elkington, *author, advisor and serial entrepreneur, United Kingdom.*

Engage further with Sunday's plenary speaker during a dedicated Q&A session, offering you the opportunity to ask your questions and delve deeper into the insights shared during the Opening Ceremony

Student Event: Toxic Tales

17:00–18:15 | Hall L1

Miriam Diamond, *University of Toronto, Canada.*

What does it take to keep going in your career? It takes more than raw intelligence! Miriam will discuss the evidence-base for factors related to "success" in school and the labour market, sprinkled with personal observations taken from her faculty career that began in 1991. To this, Miriam will add a hypothesis that connects the discussion of "success" with the field of chemical exposures.

Miriam is a professor in the Department of Earth Sciences and the School of the Environment at the University of Toronto. Miriam's research investigates chemical contaminants, including microplastics, from sources through to human and ecological exposure, with translation into preventative measures. She is also deeply involved in chemicals management efforts, holding or having held numerous positions in local to international governmental, intergovernmental and non-governmental organizations. Her research has been published in over 250 peer-reviewed articles and chapters, in addition to receiving media attention.

The event is organised by the SETAC Europe Student Advisory Council. Entrance for students and recent graduates is on a first-come-first-serve basis.

Monday Platform Presentations Morning 1

Monday Platform Presentations Morning 1

	09:35	09:50	10:05
Hall M	**Wide-Scope Target and Non-Target Screening Strategies for Enhanced Chemical Coverage in Environmental Monitoring and Chemical Exposome Assessment** | ...		
	3.07.A.T-01 Assessing extraction methods for chemical and effect-based analysis of environmental contaminants in breast milk | **Naroa Lopez-Herguedas**, Helmholtz Center for Environmental Research (UFZ), Germany	**3.07.A.T-02** CPxplorer and silicone wrist bands as rapid tools for evaluating human exposure to polychlorinated alkanes | **Idoia Beloki Ezker**, Department of Physics, Chemistry and Biology (IFM), Linkoping University, Sweden	**3.07.A.T-03** Exploring metal-organic framework-coated blades for direct and high-throughput screening of xenobiotics in urine | **Juan F. Ayala-Cabrera**, Plentzia Marine Station, University of the Basque Country, Spain
Hall N	**Pushing the Limits: Incorporating Absolute Limits in Life Cycle Assessment** | Andrea Paulillo, Anders Bjørn, Valeria De Laurentiis, Esther Sanye-Mengual		
	5.01.T-01 Sustainability Challenges of Global Hydrogen Supply in the Context of Planetary Boundaries | **Jesmyl Cordova Cordova**, Rovira i Virgili University (URV), Spain	**5.01.T-02** Current aviation roadmaps are not within planetary boundaries | **Bastien Païs**, ISAE-Supaero, France	**5.01.T-03** Is the UK Consumption within Planetary Boundaries? A Supply Chain Perspective | **Qiang Yang**, University College London, United Kingdom
Hall E	**Advancing the Environmental Safety Assessment of Chemicals through New Approach Methodologies (NAMs): From Early Development to Practical Applications** | ...		
	1.07.A.T-01 A High-Throughput Alternative Approach for Acute Fish Toxicity | **Jo Nyffeler**, Biomolecular and Computational Toxicology Division, US Environmental Protection Agency, Germany	**1.07.A.T-02** Critical Membrane Concentration and Baseline Toxicity of Organic Pollutants in a High-Throughput Rainbow Trout Cell Assay Used for Environmental Hazard Assessment | **Julia Huchthausen**, Helmholtz Centre for Environmental Research (UFZ), Germany	**1.07.A.T-03** Grouping and assessment of chemicals for hazard and risk assessment by high content analysis using the zebrafish embryo as an alternative model | **Stefan Scholz**, Helmholtz Centre for Environmental Research (UFZ), Dpt. Ecotoxicology, Germany
Hall F1	**Impact of Micro- and Nanoplastics on Environmental and Human Health: Monitoring, Fate, Exposure, Toxicity and Mechanisms of Toxic Action** | ...		
	1.09.A.T-01 Microplastics in Irrigation Water: Spatio-temporal Changes Reveal Their Source and Distribution Characteristics | **Anggraini Widyastuti**, Advanced Environmental Ultra Research Laboratory (ADVENTURE), Chung Yuan Christian University, Indonesia	**1.09.A.T-02** Evaluation of Toxicological Characteristics of Airborne Nano/Microplastic Particles From the Industrial Environment | **Korinna Altmann**, Bundesanstalt fur Materialforschung und Prufung, Germany	**1.09.A.T-03** Nanoplastics in Terrestrial Ecosystems: Linking Exposure to Effects Through Dose-Response Assays and Toxicokinetic Modelling | **Christopher Whitshaw**, ETH Zurich, Agroscope, Switzerland
Hall F2	★**The European Green Deal (Chemicals Strategy for Sustainability): Leveraging the AI Power to Advance Biodiversity Protection** | ...		
	09:30	**09:40**	**09:45** / **09:50**
	8.05.T-01 Introductory Remarks	**8.05.T-02** Anthropogenic chemicals as underestimated drivers of biodiversity loss | **Ksenia J Groh**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**8.05.T-03** Impacts of multiple stressors (pollutants and disease) on beavers in England | **Suzane Michelle Qassim**, Natural England, United Kingdom / **8.05.T-04** Chemicals management and IPBES biodiversity assessment from the prospective of the business-lead author | **Marie-Helene Enrici**, Solvay, France
Hall G	**Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction** | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess		
	2.01.A.T-01 Chemical mixtures and multiple stressors: Same but different? | **Ralf Schaefer**, RC One Health Ruhr, University Duisburg-Essen, Germany	**2.01.A.T-02** Does Cytochrome P450 inhibition lead to Synergy? A Mechanistic Study of Azole-Pesticide Mixtures in Enchytraeus crypticus (Annelida) | **Kevin Noort**, UK Centre for Ecology & Hydrology, United Kingdom	**2.01.A.T-03** Synergistic interaction between a toxicant and food stress is further exacerbated by temperature | **Naeem Shahid**, Helmholtz Center for Environmental Research (UFZ), Germany
Hall K1	**Advancing Treatment of Organic Micropollutants in Water and Wastewater** | Sanjeeb Mohapatra, Marc Teixido Planes, Gabriel Sigmund, Sanne Smith		
	4.07.A.T-01 Integrated Assessment of Biological Activated Carbon Filters with UV/Peracetic Acid Pretreatment for Mitigating Organic Micropollutants and Toxicity in Treated Wastewater | **Sana Ajaz**, Australian Rivers Institute, School of Environment and Science, Griffith University, Australia	**4.07.A.T-02** Micropollutant mass balance in an integrated system coupled by biological treatment and nanofiltration with recirculation | **Claudia Rodriguez Gonzalez**, Wageningen University and Research, Netherlands	**4.07.A.T-03** Removal of organic micropollutants under dry and wet weather in a full-scale aerobic granular sludge plant | **Zhaolu Feng**, Environmental Technology, Wageningen University & Research (WUR), Netherlands
Hall K2	**Bioremediation and Phytoremediation for Recovering Ecosystems From Legacy and Emerging Contaminants** | ...		
	4.06.T-01 Bacterial pore sealing as a tool for chemical risk reduction | **Jose Luis Garcia**, Instituto de Recursos Naturales y Agrobiolog a de Sevilla (IRNAS-CSIC), Spain	**4.06.T-02** From NatCom to Syncom. Optimisation of hydrocarbon-degrading communities and their use in contaminated soils | **Miguel Redondo-Nieto**, Departamento de Biolog a. Universidad Autonoma de Madrid, Spain	**4.06.T-03** Contaminated soil bioremediation by indigenous hydrocarbon-degrading bacteria | **Sara Accardo**, ENEA CR, Italy
Hall D2	**Analysis and Monitoring of Per- and Polyfluoroalkyl Substances (PFAS): Challenges, Standardization and Innovative Analytical Approaches** | ...		
	3.24.A.T-01 Navigating the Complex Landscape of PFAS CRMs | **Huiling Liu**, Chiron, Norway	**3.24.A.T-02** Quantification of Ultrashort- to Long-chain Perfluorocarboxylic Acids in Water Samples via Static Headspace Gas Chromatography Coupled to Mass Spectrometry | **Christian Vogel**, Federal Institute for Materials Research and Testing (BAM), Germany	**3.24.A.T-03** Advancing PFAS Identification: Pyrolysis-GC-HRMS Analysis of Side-Chain Fluorinated Polymers and Fluoropolymers in Consumer Products | **Racchana Ramamurthy**, McGill University, Canada
Hall D3	**Measuring, Modelling and Monitoring the Environmental Behaviour and Exposure of Pesticides** | Bernhard Jene, Joachim Dayteg, Pauline Adriaanse		
	3.03.A.T-01 SPOTMOD: Modelling the Reduction Effect of Spatially Distributed Spot Applications on Pesticide Runoff Losses with a 2D Probabilistic Framework | **Stefan Reichenberger**, knoell France SAS, France	**3.03.A.T-02** Harmonised Framework for the SETAC Spatially Distributed Leaching Modelling of Pesticides Initiative: 2025 Update | **Aaldrik Tiktak**, PBL Netherlands Environmental Assessment Agency, Netherlands	**3.03.A.T-03** Using Different Spatial Layers to Derive pH Values for Modelling: A Critical Review of EFSA's Spatial Dataset | **Fabrizio Rama**, Syngenta, United Kingdom

	10:20	10:35
Hall M	| Alberto Celma, Adrià Sunyer-Caldú, Lidia Belova, Maria Margalef	
	3.07.A.T-04 Prioritizing Candidate Structures in Non-Targeted LC/ESI/HRMS Analysis by Combining Machine Learning Predictions | **Wei-Chieh Wang**, Department of Materials and Environmental Chemistry, Stockholm University, Sweden	Poster spotlights: 3.07.P-Mo226, 3.07.P-Mo227, 3.07.P-Mo229
Hall N	**Pushing the Limits: Incorporating Absolute Limits in Life Cycle Assessment** | Andrea Paulillo, Anders Bjørn, Valeria De Laurentiis, Esther Sanye-Mengual	
	5.01.T-04 Aligning Science-Based Targets with Consumer Needs: A New Method for Setting Climate Goals for Products | **Teddy Serrano**, Centre for Absolute Sustainability, Technical University of Denmark, Denmark	Poster spotlights: 5.01.P-Mo402, 5.01.P-Mo409, 5.01.P-Mo410
Hall E	| Luigi Margiotta-Casaluci, You Song, Pia Talja, Katia Lacasse	
	1.07.A.T-04 Sensitivity of Fishes to Polycyclic Aromatic Hydrocarbons | **Justin Dubiel**, University of Lethbridge, Canada	**1.07.A.T-05** In Silico Prioritization of Flame Retardants: Integrating Molecular Docking and Dynamics Simulations to Assess Endocrine Disruptor Potential | **Kimoon Na**, School of Environmental Engineering, University of Seoul, Korea, Republic of
Hall F1	| Miguel Oliveira, Marta Martins, Gerardo Pulido-Reyes, Danae Patsiou	
	1.09.A.T-04 Emission of microplastics to water, soil and air - What can we do about it? | **Anne Hids**, Dutch National Institute for Public Health and the Environment (RIVM), Netherlands	**1.09.A.T-05** Microplastic-microbiome interactions in aquatic ecosystems: a complex story | **Sonja Oberbeckmann**, Federal Institute for Materials Research and Testing (BAM), Germany
Hall F2	★ | Michelle Bloor, Sounding Board of the High Level Roundtable for the implementation of the Chemical Strategy for Sustainability	
	09:55	**10:00** / **10:05** / **10:45**
	8.05.T-05 Possible roles of mechanistic modelling in assessing chemicals as a causal factor in biodiversity loss | **Andreas Focks**, Institute of Mathematics, University of Osnabrueck, Germany	**8.05.T-06** Using existing computational tools to help safer chemical and procedures design and comply with the 12 Principles of Green Chemistry | **Predrag Petrovic**, Yale University, United States / **8.05.T-07** Ranking questions and moderated panel discussion / **8.05.T-08** Concluding Remarks
Hall G	**Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction** | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess	
	2.01.A.T-04 Acclimation and recovery to pharmaceutical pollution in a common host fish under parasitic infection | **Lea Lorrain-Soligon**, UMR 7619 METIS, Sorbonne Universite- CNRS-EPHE, France	**2.01.A.T-05** Toxic Heatwave: Chemical Pre-Exposure Alters Springtail Survival in Rising Extreme Temperatures | **Micha Wehrli**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland
Hall K1	**Advancing Treatment of Organic Micropollutants in Water and Wastewater** | Sanjeeb Mohapatra, Marc Teixido Planes, Gabriel Sigmund, Sanne Smith	
	4.07.A.T-04 Integrating Foam Fractionation into the Activated Sludge Process for Per- and Polyfluoroalkyl Substances Removal from Landfill Leachate: An Energy-Efficient Approach | **Josephine van Ruiten**, Delft University of Technology (TU Delft), Netherlands	**4.07.A.T-05** Chemical and toxicological evaluation of advanced oxidation treated pharmaceutical residues in wastewater | **Martien H.F. Graumans**, Department of Environmental Science, Radboud Institute for Biological and Environmental Science (RIBES), Radboud University, Netherlands
Hall K2	| Anna Barra Caracciolo, Isabel Cadena Aizaga, Rayco Guedes-Alonso, Jose Julio Ortega-Calvo	
	4.06.T-04 A Virtuous Cycle of Phytoremediation, Pyrolysis and Biochar towards Safe PFAS Levels in Soil and Food | **Hans Peter Arp**, NGI/NTNU, Norway	**4.06.T-05** Bioremediation Strategies for Polychlorinated Biphenyl-Contaminated Marine Sediments: Advancing Methods for Sustainable Toxicity Reduction | **Miray Kurtoglu**, Izmir Institute of Technology, Graduate School of Science and Engineering, Department of Biotechnology and Bioengineering, Turkiye
Hall D2	| Lara Cioni, Björn Meermann, David Schaffert, Sara Ghorbani Gorji	
	3.24.A.T-04 Fluorine Elemental Analysis in Complex Sample Matrices: Prospects and Challenges for PFAS Analytics | **Alexander Kohrer**, BASF SE, Germany	**3.24.A.T-05** PFAS Sequencing: a Series of Simple Chemical Transformations for Structure Elucidation of Unknown PFAS | **Vladimir Nikiforov**, NILU, Norway
Hall D3	**Measuring, Modelling and Monitoring the Environmental Behaviour and Exposure of Pesticides** | Bernhard Jene, Joachim Dayteg, Pauline Adriaanse	
	3.03.A.T-04 Conduct and Use of a Tier 4 Monitoring Programme in the FOCUS Regulatory Framework | **George Mahoney**, Syngenta Crop Protection, United Kingdom	**3.03.A.T-05** Steps Towards a Re-validation of Methods and Models Used in the Risk Assessment of Plant Protection Products in the Light of Climate Change | **Gunnar Kahl**, knoell Germany GmbH, Germany

Monday Platform Presentations Morning 2

Monday Platform Presentations Morning 2

	11:40	11:55	12:10
Hall M	**Wide-Scope Target and Non-Target Screening Strategies for Enhanced Chemical Coverage in Environmental Monitoring and Chemical Exposome Assessment** | ...		
	3.07.B.T-01 Echoes of Exposure: Unveiling Chemical Exposome in Human Reproductive System with A Non-Target Analysis Approach Using High-Resolution Mass Spectrometry | **Han Sun**, Department of Environmental and Resource Engineering, Technical University of Denmark, Denmark	**3.07.B.T-02** Chemical characterization of the prenatal exposome through the analysis of cord blood samples using liquid chromatography coupled to trapped ion mobility spectrometry-high resolution mass spectrometry | **Konstantina Diamanti**, Laboratory of Analytical Chemistry, National and Kapodistrian University of Athens, Greece	**3.07.B.T-03** Single Drop, Multiple Findings: Feasibility of Dried Blood Spots for Broad Chemical Coverage in Exposomics/Metabolomics | **Vinicius Verri Hernandes**, University of Vienna, Austria
Hall N	**Dimensions and Challenges of Life Cycle Assessment to Steer Innovation and Competiveness of Safe and Sustainable Chemicals and Materials** | ...		
	5.02.T-01 In Vitro & In Silico-Derived Effect Factors for USEtox: A Framework for Non-Animal Toxicity Characterization in Life Cycle Assessment | **Marc Majo**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland	**5.02.T-02** In-silico screening of new chemicals for SSbD: Coupling data-driven approaches and LCA | **Antonino Marvuglia**, Luxembourg Institute of Science and Technology (LIST), Luxembourg	**5.02.T-03** Integrated SSbD Approach to Simulating the Sustainability of Lubricants: Challenges and Insights | **Jonas Hoffmann**, GreenDelta GmbH, Germany
Hall E	**Advancing the Environmental Safety Assessment of Chemicals through New Approach Methodologies (NAMs): From Early Development to Practical Applications** | ...		
	1.07.B.T-01 Assessing a Primary Hepatocyte Monolayer Culture System for Studying Pharmaceutical Clearance in Fish | **Chrisna Matthee**, University of Exeter, United Kingdom	**1.07.B.T-02** Refining the environmental risk analysis of pharmaceuticals to fish by considering fish (versus human) blood plasma binding in the fish plasma model | **Ross Brown**, University of Exeter, United Kingdom	**1.07.B.T-03** In Vitro Evaluation of Pharmacokinetics in Fish Exposed to Complex Pharmaceutical Mixtures | **Anita Vas**, School of Cancer and Pharmaceutical Sciences, King's College London, United Kingdom
Hall F1	**Impact of Micro- and Nanoplastics on Environmental and Human Health: Monitoring, Fate, Exposure, Toxicity and Mechanisms of Toxic Action** | ...		
	1.09.B.T-01 The Plastisphere Resistome in Antarctic Collected Microplastic Samples: Impact on Human Health | **Francisca Fernandez-Pinas**, Department of Biology, Faculty of Science, Universidad Autonoma de Madrid, Spain	**1.09.B.T-02** Toxicity of Aged and Fresh Polylactic Acid Nanoplastics on Pseudomonas putida | **Virginia Galvez Blanca**, Universidad de Alcala, Spain	**1.09.B.T-03** Multi-level approach to evaluate the toxicity of weathered microplastics from conventional and bioplastic polymers on Daphnia magna | **Beatrice De Felice**, Department of Environmental Science and Policy, University of Milan, Italy
Hall F2	**Tackling the Triple Planetary Crisis: Implementing Lessons Learned from the Past 30 Years of Research and Regulations to Solve Present Challenges** | ...		
	6.02.T-01 Effective Risk Management of Chemicals in a Changing Environment | **Elin Leander**, Stockholm University, Department of Environmental Science, Sweden	**6.02.T-02** Lessons Learned for Greening the Pharmacy: A Lock-in Analysis Towards Solving the Triple Planetary Crisis | **Anna Shalin**, University of Toronto, Canada	**6.02.T-03** A Decision Support Tool for Choosing Pesticides with Lower Risks to Aquatic Environments | **Hannah C. Mitchell**, Reef Catchments Science Partnership, School of the Environment, University of Queensland, Australia
Hall G	**Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction** | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess		
	2.01.B.T-01 Organic matter decomposition responds differently to temperature elevation at medium pesticide concentrations | **Verena C. Schreiner**, University of Duisburg-Essen; Research Center One Health, Germany	**2.01.B.T-02** Understanding spatial drivers of lake biodiversity using eDNA | **Niamh Eastwood**, University of Birmingham, United Kingdom	**2.01.B.T-03** Interactive Effect of Urban Stressors: Fluoxetine, Light Regime and Noise | **Asma Al Shuraiqi**, Biology department, Sultan Qaboos University, Oman
Hall K1	**Advancing Treatment of Organic Micropollutants in Water and Wastewater** | Sanjeeb Mohapatra, Marc Teixido Planes, Gabriel Sigmund, Sanne Smith		
	4.07.B.T-01 Which factors limit the adsorption of Per- and polyfluoroalkyl substances (PFAS) on activated carbon during drinking water treatment? | **Marko Pranic**, Wageningen University, Netherlands	**4.07.B.T-02** Polymer composite membrane processes for treatment of contaminants of emerging concern in effluents of urban wastewater treatment facilities | **Marzhan Kalmakhanova**, M. Kh. Dulaty Taraz University, Kazakhstan	**4.07.B.T-03** Enhancing Wastewater Quality through SAT Systems: Assessing the Effectiveness of Natural Reactive Barriers for Contaminants Removal | **Juan Carrizo**, IDAEA, Spain
Hall K2	**Sustainable Remediation of Mining Impacts and Critical Materials Recovery** | Andrew Cundy, Mohamed Merroun, Daniele Silvestri, Miroslav Cernik		
	4.10.T-01 Mining sites in Czechia as potential sites for critical element recovery | **Miroslav Cernik**, Technical University of Liberec, Czech Republic	**4.10.T-02** A deep green clean? Plant and nature-based systems for mining wastes risk management and critical element recovery | **Frances Burrell**, GAU-Radioanalytical Laboratories, University of Southampton, United Kingdom	**4.10.T-03** Comparative Study Between Bacteria and Fungi Immobilized in Alginate Hydrogels for Bioremediation and Biorecovery of Selenium | **Eduardo Gonzalez-Morales**, Department of Microbiology University of Granada, Spain
Hall D2	**Analysis and Monitoring of Per- and Polyfluoroalkyl Substances (PFAS): Challenges, Standardization and Innovative Analytical Approaches** | ...		
	3.24.B.T-01 Environmental Fingerprints of Fluorotelomer-Based Substances by GC-Based Target, Suspect, and Non-Target Analyses Surrounding Fluorochemical-Related Industries in Korea | **Sori Mok**, College of Science and Convergence Technology, Hanyang University, Korea, Republic of	**3.24.B.T-02** Screening and Migration Potential of Per- and Polyfluoroalkyl Substances in End-of-Waste Plastics And Textiles | **Giovanni Beggio**, Department of Civil, Environmental and Architectural Engineering, University of Padova, Italy	**3.24.B.T-03** Semi-quantitative nontarget screening - the next step to characterize an AFFF contaminated site | **Christian Zwiener**, Eberhard Karls University Tubingen, Environmental Analytical Chemistry, Germany
Hall D3	**Measuring, Modelling and Monitoring the Environmental Behaviour and Exposure of Pesticides** | Bernhard Jene, Joachim Dayteg, Pauline Adriaanse		
	3.03.B.T-01 EFSA Drinking Water Treatment Guidance - Approaching the Environmental Exposure Assessment | **Lydia Pape**, knoell Germany GmbH, Germany	**3.03.B.T-02** Photolysis in PELMO: Conceptional Review on the Implementability of Scientific Guidance on Photo-Transformation Products in Groundwater | **Judith Klein**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany	**3.03.B.T-03** Leveraging Irradiated Water-Sediment Study for Environmental Modelling and Exposure Assessment | **Xin You**, Bayer AG, Crop Science Division, Germany

	12:25	12:40
Hall M	| Alberto Celma, Adrià Sunyer-Caldú, Lidia Belova, Maria Margalef	
	3.07.B.T-04 Chlorinated Paraffins in Novel Plant-Based Foods | **Alicia Macan Schonleben**, Toxicological Centre, University of Antwerp, Belgium	**3.07.B.T-05** Pyrolysis-GC-MS for quantitative analysis of micro- and nanoplastics in liver samples for exposome assessment | **Federica Nardella**, Amsterdam Institute for Life and Environment (A-LIFE), Section Chemistry for Environment and Health, Vrije Unversiteit, Netherlands
Hall N	| Daniela Groiss-Fuertner, Andrea Amadei, Carla Caldeira, Roland Hischier	
	5.02.T-04 Ecological Sustainability Assessment of Battery Energy Storage Systems: From Second-life to End-of-Life | **Anna Spindlegger**, Institute of Waste Management and Circularity, BOKU University, Austria	Poster spotlights: 5.02.P-Mo416, 5.02.P-Mo418, 5.02.P-Mo423
Hall E	| Luigi Margiotta-Casaluci, You Song, Pia Talja, Katia Lacasse	
	1.07.B.T-04 Critical review of in vitro dosing methods for hydrocarbon UVCBs | **Aina Charlotte Wennberg**, Norwegian Institute for Water Research (NIVA), Norway	**1.07.B.T-05** Predicting the Sensitivity of Reptiles to Dioxin-Like Chemicals: A Quantitative Adverse Outcome Pathway Approach | **Cameron Collins**, Louisiana State University, United States
Hall F1	| Miguel Oliveira, Marta Martins, Gerardo Pulido-Reyes, Danae Patsiou	
	1.09.B.T-04 Developing the Grouping of Polymers to Streamline Toxicology Testing | **Bibin Sajan**, Heriot-Watt University, United Kingdom	TBD
Hall F2	| Lonneke van Leeuwen, Ronny Blust, Emily Garman, Leo Posthuma	
	6.02.T-04 Stakeholder Perceptions on the Socio-Technical Factors Affecting the Use of Evidence in Europe(an Chemical Assessment and Management) | **Lowenna Jones**, University of Sheffield, United Kingdom	**6.02.T-05** The societal risks of risk assessment | **Ad Ragas**, Radboud University Nijmegen, Netherlands
Hall G	**Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction** | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess	
	2.01.B.T-04 Trojan Horse Mechanism in Soil: Myth or Legend? | **Sam van Loon**, Vrije Universiteit Amsterdam, Netherlands	Poster spotlights: 2.01.P-Mo119, 2.01.P-Mo130, 2.01.P-Mo155
Hall K1	**Advancing Treatment of Organic Micropollutants in Water and Wastewater** | Sanjeeb Mohapatra, Marc Teixido Planes, Gabriel Sigmund, Sanne Smith	
	4.07.B.T-04 Removal of Antibiotics and Nutrients by Microalgae-Bacteria Consortia | **Ornrumpha Sethanunt**, University of York, United Kingdom	Poster spotlights: 4.07.P-Mo349, 4.07.P-Mo353, 4.07.P-Mo362
Hall K2	**Sustainable Remediation of Mining Impacts and Critical Materials Recovery** | Andrew Cundy, Mohamed Merroun, Daniele Silvestri, Miroslav Cernik	
	4.10.T-04 Realising the potential - electrokinetic technologies for risk management and critical element recovery at former mining sites: outputs from the HEU SURRI project | **Daniele Silvestri**, Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Czech Republic	**4.10.T-05** Sequential treatment chain for removal of iron and selective recovery of CRMs from mine effluent from Nizna Slana ore deposit (Eastern Slovakia) | **Daniel Kupka**, Institute of Geotechnics of the Slovak Academy of Sciences, Slovakia
Hall D2	| Lara Cioni, Björn Meermann, David Schaffert, Sara Ghorbani Gorji	
	3.24.B.T-04 Assessing the added value of the TOP assay and AOF in water management | **Elvio Amato**, KWR Water Research Institute, Netherlands	Poster spotlights: 3.24.P-Mo266, 3.24.P-Mo284, 3.24.P-Mo286
Hall D3	**Measuring, Modelling and Monitoring the Environmental Behaviour and Exposure of Pesticides** | Bernhard Jene, Joachim Dayteg, Pauline Adriaanse	
	3.03.B.T-04 Field test of the TOXSWA pesticide fate model: Comparison of simulated and observed linuron in water and sediment in ditches with stagnant and flowing periods | **Maarten Braakhekke**, Wageningen Environmental Research, Wageningen University and Research, Netherlands	Poster spotlights: 3.03.P-Mo172, 3.03.P-Mo186, 3.03.P-Mo195

Monday Platform Presentations Afternoon

	14:30	14:45	15:00
Hall M	**Wide-Scope Target and Non-Target Screening Strategies for Enhanced Chemical Coverage in Environmental Monitoring and Chemical Exposome Assessment** | ...		
	3.07.C.T-01 Non-target analysis of micropollutants in drinking water from China: Profiles and prioritization | **Ruolin Liu**, Sino-Danish College, University of Chinese Academy of Sciences; Technical University of Denmark; State Key Laboratory of Environmental Chemistry, China	**3.07.C.T-02** Anthropogenic profiling of European surface water using feature-based molecular networking and non-target analysis | **Emil Egede Frøkjær**, Technical University of Denmark, Denmark	**3.07.C.T-03** Advanced Micropollutant and Contaminant (CEC) Wastewater Surveillance for Strategic Targeted Sampling | **George Ruck**, INRAE, France
Hall N	**Prospective Life Cycle Assessment for Safe and Sustainable by Design (SSbD) Innovations** | Nils Thonemann, Alexis Laurent, Jorge Senan-Salinas, Heather Logan		
	5.03.T-01 Prospective Life Cycle Assessment Framework for Continuous Pharmaceutical Production: Upscaling from Lab Scale | **Muhammed Ayaj Ansar**, Radboud Institute for Biological and Environmental Science (RIBES), Radboud University, Netherlands	**5.03.T-02** Prospective Life Cycle Assessment of Itaconic Acid Production: Scaling-up and Future-Oriented Scenarios | **Dianella Garro-Espinoza**, BETA Technological Centre, University of Vic - UCC, Spain	**5.03.T-03** Designing a future plastic industry under the triple planetary crisis | **Jing Huo**, ETH Zurich, Switzerland
Hall E	**Advancing the Environmental Safety Assessment of Chemicals through New Approach Methodologies (NAMs): From Early Development to Practical Applications** | ...		
	1.07.C.T-01 Advancing Ecological Risk Assessment: Integrating High-Throughput Data for Pesticide Evaluation | **Scott Glaberman**, University of Birmingham, United Kingdom	**1.07.C.T-02** Clearing the Waters: How Daphnids Chart a New Course for Vertebrate-Free Aquatic Toxicity Testing | **Martin Paparella**, Medical University Innsbruck, Austria	**1.07.C.T-03** Fish and Amphibian Eleutheroembryo Assays as New Approach Methodologies for Regulatory Assessment of Endocrine Activity of Chemicals - A European Industry Perspective | **Laurent Lagadic**, Bayer AG R&D, Crop Science Division, Environmental Safety, Germany
Hall F1	**Impact of Micro- and Nanoplastics on Environmental and Human Health: Monitoring, Fate, Exposure, Toxicity and Mechanisms of Toxic Action** | ...		
	1.09.C.T-01 Nanoplastics selectively bind and unveil novel ragweed pollen allergens | **Tanja Cirkovic Velickovic**, University of Belgrade - Faculty of Chemistry, Serbia	**1.09.C.T-02** Polyvinyl Chloride- and Polypropylene-Model-Micro- and Nanoplastics Exhibit Different Mechanisms of Toxicity in Human Umbilical Vein Endothelial (HUVECs) Cells | **Sara Bozzer**, Institute for Maternal and Child Health, IRCCS Burlo Garofolo, Italy	**1.09.C.T-03** Distribution of Micro- and Nanoplastics in Perfused Human Placental Tissue | **Laura Zoutendijk**, Utrecht University, Netherlands
Hall F2	**Scientific Input to the New Global Science-Policy Panel** | Marlene Ågerstrand, Kate?ina sebkova, Marta Venier, Gabriel Sigmund		
	6.03.T-01 Thought-starter on Broadening the Impact of the Science-Policy Panel through a Scientific Knowledge Holder Network | **Anna Isabel Becker**, International Sustainable Chemistry Collaborative Centre (ISC3), Germany	**6.03.T-02** The role of university research in safeguarding the planet from chemical pollution | **Martin Scheringer**, ETH Zurich, Switzerland	**6.03.T-03** Indigenous People's Earth Observations, Knowledge and Practices in Chemical Governance. Enhancing Management and Monitoring | **Yolanda López-Maldonado**, Indigenous Science, Mexico
Hall G	**Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction** | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess		
	2.01.C.T-01 Bioenergetic Responses Shape the Impacts of Pharmaceuticals and Warming on Freshwater Arthropods and Ecosystem Functioning | **Claire Duchet**, University of South Bohemia, Czech Republic	**2.01.C.T-02** Integrating Statistical Models and Multiple-Stressor Null Models: A Framework for Analysing Stressor Interactions | **Iris Madge Pimentel**, University Duisburg-Essen, Germany	**2.01.C.T-03** Probabilistic Risk Assessment of Chemical Mixtures: Cumulative Effects and Joint Risk of Pesticides in Freshwater Biological Communities | **Jannicke Moe**, Norwegian Institute for Water Research (NIVA), Norway
Hall K1	**Photochemical Transformation of Contaminants in Aquatic Environments** | Sarah Pati, Juliana Laszakovits		
	3.16.T-01 Following the Photochemical Fate of Fluorinated Compounds | **William Arnold**, University of Minnesota, United States	**3.16.T-02** The role of photochemistry in the environmental fate of a new antimicrobial peptide | **Owen Daniel**, Sorbonne University, France	**3.16.T-03** Photochemical Degradation of Diclofenac and Cimetidine in Natural Aquatic Environments: A Comparative Study of Laboratory and Field Experiments | **Sofia Ambrogetti**, Institute of Biogeochemistry & Pollutant Dynamics, ETH Zurich, Switzerland
Hall K2	**Chemical Emissions and Associated Environmental Impacts from Offshore Energy Production** | Anna Ebeling, Daniel Profrock, Bavo De Witte, Ingo Weinberg		
	3.18.T-01 Chemical Emissions from Offshore Wind Farms: Compound Identification and Prioritisation for Risk Assessment | **Genevieve Deviller**, DERAC, France	**3.18.T-02** Untargeted screening of marine sediments in offshore wind farms: tracking chemical emissions | **David Vanavermaete**, Flanders Research Institute for Agriculture, Fisheries and Food (ILVO-Marine), Belgium	**3.18.T-03** Offshore Chemical Emissions (OffChEm): Six years of environmental research in and around offshore wind farms in the German North Sea | **Dominik Wippermann**, Helmholtz-Zentrum Hereon, Germany
Hall D2	**Non Target Arthropods: A New European Risk Assessment Guidance on the Rise** | Stefan Kimmel, Ivo Roessink, Michael Marx		
	4.05.T-01 Insect Decline – Evaluation of Potential Drivers of a Complex Phenomenon | **Michael Greve**, Bayer AG, Germany	**4.05.T-02** Plant Protection Products and Ecosystem Services: Identifying Vulnerable Non-target Arthropods and Linking Effects to Ecological Function | **Lorraine Maltby**, University of Sheffield, United Kingdom	**4.05.T-03** A TKTD Data Interpretation of Non Target Arthropod Tests | **Jan Baas**, Wageningen University and Research (WUR), Netherlands
Hall D3	**Measuring, Modelling and Monitoring the Environmental Behaviour and Exposure of Pesticides** | Bernhard Jene, Joachim Dayteg, Pauline Adriaanse		
	3.03.C.T-01 Exposure Route Assessment for Non-Target Arthropods in Ecotoxicity Testing and Field Residue implications | **Steven Droge**, WENR, Netherlands	**3.03.C.T-02** 3D spray drift exposure data for non-target terrestrial organism risk assessment | **Carola Schriever**, BASF SE, Germany	**3.03.C.T-03** Comparison of Simulated and Observed Downwind Deposits of Spray Drift in Orchard Crops across Europe | **Henk Jan Holterman**, Wageningen University and Research (WUR), Netherlands

Monday Platform Presentations Afternoon

	15:15	15:30
Hall M	| Alberto Celma, Adrià Sunyer-Caldú, Lidia Belova, Maria Margalef	
	3.07.C.T-04 Quantification without reference standard: How semi-quantitative tools performed in water sample? | **Eloi Marilleau**, Inovalys, France	**3.07.C.T-05** Non-Target Screening in Suspended Particulate Matter and Biota Using GC-HRMS | **Daniela Kruger**, Federal Institute of Hydrology; University of Koblenz, Germany
Hall N	**Prospective Life Cycle Assessment for Safe and Sustainable by Design (SSbD) Innovations** | Nils Thonemann, Alexis Laurent, Jorge Senan-Salinas, Heather Logan	
	5.03.T-04 Material Shortage: A Barrier to Clean Energy and Climate Goals | **Fatemeh Rostami**, Departament d Enginyeria Quimica, Universitat Rovira i Virgili, Spain	**5.03.T-05** How to decarbonise the steel industry? A prospective life cycle assessment to compare different technological solutions | **Anne Ottenbros**, Radboud University, Netherlands
Hall E	| Luigi Margiotta-Casaluci, You Song, Pia Talja, Katia Lacasse	
	1.07.C.T-04 Ensuring the Credibility of New Approach Methodologies in Regulatory Toxicology: The Vital Role of Validation and Ring Trials | **Susanne Kolle**, BASF SE, Germany	**1.07.C.T-05** Solutions for regulatory uptake of NAMs - perspective from the science policy interface | **Leonie Mueller**, Altertox, Belgium
Hall F1	| Miguel Oliveira, Marta Martins, Gerardo Pulido-Reyes, Danae Patsiou	
	1.09.C.T-04 Probabilistic Human Risk Assessment of Micro/Nanoplastics: Integrating the Aggregate Exposure Pathway and Adverse Outcome Pathway (AEP-AOP) | **Chaein Chong**, University of seoul, Korea, Republic of	**1.09.C.T-05** Biological Evaluation of Binding of Toxins to Microplastics | **Elien Alderweireldt**, Department of Food Technology, Safety and Health, Faculty of Bioscience Engineering, Ghent University, Belgium
Hall F2	**Scientific Input to the New Global Science-Policy Panel** | Marlene Ågerstrand, Kateřina Šebková, Marta Venier, Gabriel Sigmund	
	6.03.T-04 Mismanaged plastic waste and interlinked endocrine-disrupting chemicals in Indian cities: need for effective policy interventions | **Paromita Chakraborty**, Centre for Research in Environment, Sustainability Advocacy and Climate Change (REACH), Directorate of Research, SRM Institute of Science and Technology, India	**6.03.T-05** Problematisation of plastic pollution in the United Nations Plastic Treaty negotiations - A critical interrogation of pollution as an issue of environment, waste, economy and health | **Ellen Palm**, Roskilde University, Denmark
Hall G	**Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction** | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess	
	2.01.C.T-04 Derivation of Field-Based Macroinvertebrate Sensitivities and Stressor-Specific Indicators | **Jonas Groning**, Department of Ecotoxicology, Helmholtz Centre for Environmental Research (UFZ), Germany	**2.01.C.T-05** Sequential Toxicity of Pesticides to Enchytraeus Crypticus: Using Toxicokinetic-Toxicodynamic Modelling | **Emily Eagles**, UK Centre for Ecology & Hydrology, United Kingdom
Hall K1	**Photochemical Transformation of Contaminants in Aquatic Environments** | Sarah Pati, Juliana Laszakovits	
	3.16.T-04 POLITE: Photomodification of Low-sulfur-fuel-oils, Investigations of Toxic Effects | **Benjamin de Jourdan**, Huntsman Marine Science Centre, Canada	**3.16.T-05** Next Generation PhotoFate: A Technique for Simultaneous Determination of Indirect Photochemical Degradation Rates, Transformation Products, and Second-Order Rate Constants | **William Fahy**, Department of Chemistry, University of Toronto, Canada
Hall K2	**Chemical Emissions and Associated Environmental Impacts from Offshore Energy Production** | Anna Ebeling, Daniel Profrock, Bavo De Witte, Ingo Weinberg	
	3.18.T-04 Anticipate the environmental impact of brine from the desalination process for offshore green hydrogen production on the fish model, Scophthalmus maximus | **Tiphaine Labed-Veydert**, France Energies Marines, France	Poster spotlights: 3.18.P-Mo259, 3.18.P-Mo260, 3.18.P-Mo261
Hall D2	**Non Target Arthropods: A New European Risk Assessment Guidance on the Rise** | Stefan Kimmel, Ivo Roessink, Michael Marx	
	4.05.T-04 Effects of Drift Exposure on Non-Target Arthropods: Insights from a Small-Scale Movement Model | **Amelie Schmolke**, RIFCON GmbH, Germany	**4.05.T-05** Developing a Framework For Identifying Sentinel Taxa for the Non-Target Arthropod Risk Assessment in Europe Using Field Effect Studies | **Charlotte Elston**, Syngenta, United Kingdom
Hall D3	**Measuring, Modelling and Monitoring the Environmental Behaviour and Exposure of Pesticides** | Bernhard Jene, Joachim Dayteg, Pauline Adriaanse	
	3.03.C.T-04 Generating Field-Realistic Predictions of Exposure for Off-field Soil Organisms Using a Spatiotemporally Explicit Modeling Approach | **Christopher Holmes**, Applied Analysis Solutions LLC, United States	Poster spotlights: 3.03.P-Mo198, 3.03.P-Mo199, 3.03.P-Mo200

Schedule

Setup	08:30–9:30
Poster Viewing	10:50–11:35
Poster Viewing	12:55–14:25
Poster Viewing	15:45–16:45
Poster Social	17:45–18:15
Take Down	by 18:15
Poster Corners	16:00–16:45

Late-Breaking Science Posters

Late-breaking science posters are not included in the printed programme book. For a full list of poster presentations, please visit the online meeting platform.

Poster Corners

Poster Corner 1

Advancing the Environmental Safety Assessment of Chemicals through New Approach Methodologies (NAMs): From Early Development to Practical Applications | Luigi Margiotta-Casaluci, Gian Hobbs, Pia Talja, Katia Lacasse

1.07.P-Mo002, 1.07.P-Mo003, 1.07.P-Mo004, 1.07.P-Mo005, 1.07.P-Mo006

Poster Corner 2

Impact of Micro- and Nanoplastics on Environmental and Human Health: Monitoring, Fate, Exposure, Toxicity and Mechanisms of Toxic Action | Miguel Oliveira, Marta Martins, Gerardo Pulido-Reyes, Danae Patsiou

1.09.P-Mo058, 1.09.P-Mo059, 1.09.P-Mo060, 1.09.P-Mo061, 1.09.P-Mo107

Poster Corner 3

Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess

2.01.P-Mo109, 2.01.P-Mo110, 2.01.P-Mo111, 2.01.P-Mo112, 2.01.P-Mo113, 2.01.P-Mo114

Poster Corner 4

New Developments in Sediment Ecotoxicology and Risk Assessment | Alan Jones, Michiel Kraak, Henriette Selck, Ivo Roessink

2.08.P-Mo157, 2.08.P-Mo158, 2.08.P-Mo159, 2.08.P-Mo160, 2.08.P-Mo162

Poster Corner 5

Sunscreens and Personal Care Products in the Environment: New Data and Approaches to Evaluate Environmental Risks and Possible Solutions | Carys Mitchelmore, Iain Davies, Eva Iñiguez Santamaría, Anneliese Hodge

4.15.P-Mo384, 4.15.P-Mo385, 4.15.P-Mo386, 4.15.P-Mo387, 4.15.P-Mo388, 4.15.P-Mo389

Poster Corner 6

Exploring Earth System Boundaries and Staying within those Boundaries for Chemical Pollutants | Miriam Diamond, Anna Shalin, Zhanyun Wang

6.01.P-Mo449, 6.01.P-Mo450, 6.01.P-Mo451, 6.01.P-Mo452, 6.01.P-Mo453, 6.01.P-Mo454

Poster Sessions

POSTER AREA 1 (Hall X1, Level -2)

Advancing the Environmental Safety Assessment of Chemicals through New Approach Methodologies (NAMs): From Early Development to Practical Applications | Luigi Margiotta-Casaluci, Gian Hobbs, Pia Talja, Katia Lacasse

1.07.P-Mo001 OECD 249 Fish Gill Cell Assay: Evaluating Its Applicability for Industrial Chemical Toxicity Prediction | **Jens Bietz**, Clariant, Germany

1.07.P-Mo002 Setting the bar: Characterizing variability across standard acute fish toxicity assays | **Kristin Connors**, The Procter and Gamble Company, United States

1.07.P-Mo003 Comprehensive Toxicity Profiling of 26 BPA Alternatives Based on Eight Cell-Based in vitro assays and Abiotic CYP Oxidation Test | **Vanessa Srebny**, Department of Cell Toxicology, Helmholtz Centre for Environmental Research (UFZ), Germany

1.07.P-Mo004 Towards Fish-Specific New Approach Methodolgies (NAMs) for Immunotoxicology: Evaluating the Cytokine Tumour Necrosis Factor Alpha (TNFα) as Reference Immunostimulant for Zebrafish In Vitro Studies | **Gian Hobbs**, King's College London, United Kingdom

1.07.P-Mo005 Evaluation of an Ontology-Driven In Silico Profiler Representing Mechanisms of Action Related to Endocrine Disruption | **Mark Cronin**, Liverpool John Moores University, United Kingdom

1.07.P-Mo006 From Data to Decision: Utilizing NAMs for Aquatic Toxicity Assessment and Regulatory Compliance | **Lisa-Marie Krauskopf**, University Leipzig / Merck Life Science KGaA, Germany

1.07.P-Mo007 Characterizing uncertainty in the disposition of organic chemicals in cellular in vitro bioassays | **Alessandro Sangion**, ARC Arnot Research and Consulting Inc., Canada

1.07.P-Mo008 Evaluating methods for determining membrane-water partitioning of surfactants as an alternative to n-octanol-water partitioning | **Geoff Hodges**, Safety and Environmental Assurance Centre (SEAC), Unilever, United Kingdom

1.07.P-Mo009 Effect-based screening of chemical pollutants present in suspended particulate matter of German rivers | **Erica Selin**, orebro University, Sweden

1.07.P-Mo010 Mechanism-based toxicity screening of organophosphate flame retardants using Tox21 assays and molecular docking analysis | **Kimoon Na**, School of Environmental Engineering, University of Seoul, "Korea, Republic of"

1.07.P-Mo011 Cytotoxicity of Tire-Related Chemicals in Cells from Diverse Fish Species | **Akihiro Moriyama**, Research Institute of Science for Safety and Sustainability, National Institute of Advanced Industrial Science and Technology, Japan

1.07.P-Mo012 Cytotoxicity assay on the fish cell line RTgill-W1 to assess the acute toxicity of nanomaterials | **Mariia Goncharova**, Department of Environment and Agronomy, National Institute for Agriculture and Food Research and Technology (INIA), CSIC, Spain

1.07.P-Mo013 Suitability Of the Rtgill-W1 Cell Line Assay (OECD TG 249) to Predict Acute Fish Toxicity for Surfactants | **Kristin Connors**, The Procter and Gamble Company, United States

1.07.P-Mo014 Comparing the Sensitivity of Three Rainbow Trout Cell Lines Through Cytotoxicity and Targeted Gene Expression For Aquatic Testing | **Bennett Upton**, Oklahoma State University, United States

1.07.P-Mo015 Applicability of the OECD 249 RTgill-W1 Cell Line Assay for Predicting the Acute Fish Toxicity of Glycol Ethers and Glycol Ether Esters | **Erin M. Maloney**, Shell Global Solutions, Netherlands

1.07.P-Mo016 Real-Time Chemical Toxicity Monitoring with a Microfluidic Multi-Cell Line Fish-on-Chip Model | **Jenny Maner**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

1.07.P-Mo017 Comprehensive Characterization of Rainbow Trout Hepatic 3D Spheroids: Morphological and Transcriptional Insights | **Maria Hultman**, Norwegian Institute for Water Research (NIVA), Norway

1.07.P-Mo018 Development of an Atlantic Cod (Gadus morhua) Estrogen Receptor TR-FRET Assay for Assessment of Xenoestrogens in a Non-model Teleost Species | **Odd Andre Karlsen**, Department of Biological Sciences, University of Bergen, Norway

1.07.P-Mo019 Identification and Validation of Biomarkers of Reproductive Toxicity in Fish Cells | **Roman Li**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.07.P-Mo020 Using NAMs and probabilistic modelling in component-based mixture risk assessment: A case study on the risk to aquatic environments from pesticides causing mitochondrial toxicity | **Seta Noventa**, Italian Institute for Environmental Protection and Research (ISPRA), Italy

1.07.P-Mo021 In Vitro Comparison of the Sensitivity of Zebrafish to Five Model Marine Fishes to Dioxin-Like Chemicals and Polycyclic Aromatic Hydrocarbons | **Cameron Collins**, Louisiana State University, United States

1.07.P-Mo022 The development of a three-dimensional ex vivo respiratory model for nanomaterial exposure using the air breathing organ of Clarias gariepinus | **Tarryn Lee Botha**, University of Johannesburg, South Africa

1.07.P-Mo023 From Fish Embryo to Fish Early Life Stage - Prediction of effects on growth via effect modelling | **Daniel Burkow**, Bayer AG, Crop Science, Environmental Safety, Germany

1.07.P-Mo024 Is it safer? Evaluating the Hazards of Bisphenol A Alternatives in Zebrafish Embryos | **Susana Loureiro**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

1.07.P-Mo025 Tissue-Specific Responses to a Binary Mixture of Bisphenol A Substitutes in Zebrafish Embryo-Based Bioassays Assessing Estrogenic and Metabolic Activities | **Florian Geffroy**, INERIS, Ecotoxicology of Substances and Environment (ESMI) Unitt / Universite Paris Cite, Inserm UMR-S 1124, France

1.07.P-Mo026 Is There Evidence for Omitting the Water Control in Fish Early-Life Stage Toxicity Tests When Solvents are Used? | **Christopher Fassbender**, PETA Science Consortium International e.V., Germany

1.07.P-Mo027 Comparative effect assessment of bisphenol analogs by high content analysis in zebrafish embryos | **Stefan Scholz**, Helmholtz Centre for Environmental Research (UFZ), Dpt. Ecotoxicology, Germany

1.07.P-Mo028 Assessing Contaminant Sensitivity in Early Life Stage Fishes using Transcriptomic Points of Departure | **Jessica Head**, McGill University, Canada

1.07.P-Mo029 EMERGE, a new Transgenic Zebrafish Embryo-Based Assay to Assess Metabolic Disrupting Chemicals (MDCs) in the Intestine | **Florian Geffroy**, INERIS, Ecotoxicology of Substances and Environment (ESMI) Unitt / Universite Paris Cite, Inserm UMR-S 1124, France

1.07.P-Mo030 Applicability of the Fish Plasma Model to the Wide Pharmaceutical Landscape: Influence of Physico-chemical and Pharmacokinetic Parameters in Two Fish Species | **Mirco Weil**, ECT Oekotoxikologie GmbH, Germany

1.07.P-Mo031 Expanding the applicability domain of fish cell lines for measuring the bioaccumulation potential of zwitterionic pollutants | **Marco Franco**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.07.P-Mo032 In Vitro Hepatic Biotransformation Assays for Pesticides in Livestock: Opportunities and Limitations | **Kristin Diercks**, Bayer AG, Germany

1.07.P-Mo033 A novel multiplex bioassay technology for detection of emerging contaminants in water | **Tatiana Siniakova**, Wageningen Plant Research, Business Unit Bioscience, Cluster Applied Plants Metabolomics, Netherlands

1.07.P-Mo034 Endocrine disruptive potential of chemical mixtures from settled dust samples collected in seven European countries | **Klara Hilscherova**, RECETOX, Masaryk University, Czech Republic

1.07.P-Mo035 Systematic evaluation of High-Throughput Toxicokinetic (HTTK) model predictions for the terminal elimination half-life (HLT) in humans | **Alessandro Sangion**, ARC Arnot Research and Consulting Inc, Canada

1.07.P-Mo036 The Parhyale hawaiensis testing platform as a potential eco-NAM | **Marina Botelho**, Universidade Estadual de Campinas (UNICAMP), Brazil

1.07.P-Mo037 Ecdysone Receptor Agonism in S2 cells for Insect-Specific In Vitro Assay Development | **Rebeka Darmati**, Wageningen University and Research (WUR), Netherlands

1.07.P-Mo038 High-Throughput Assessment of Pesticide Toxicity Using C. elegans: Impacts on Growth and Life Stage Development | **Leah Sattler**, George Mason University, United States

1.07.P-Mo039 New Approach Methodologies (NAMs) for Identifying Endocrine-Disruption Using the Model Organism Caenorhabditis elegans: The Case of Bisphenol A Alternatives | **Sophie Limbeck**, Federal Institute of Hydrology (BfG), Germany

1.07.P-Mo040 Automatization of a sea urchin teratogenicity test (STT) to improve marine assessment of chemicals and mixtures | **Noemie de Croze**, L Oreal Research & Innovation, France

1.07.P-Mo041 Developing High Throughput Metametabolomics in Freshwater Periphyton to Enhance Chemical Risk Assessment | **Lin ZI**, INRAE, EABX, France

1.07.P-Mo042 Application of Electric Cell-Substrate Impedance Sensing (ECIS) Technology in the Ecotoxicological Evaluation of Industrial and Wastewater Effluents | **Shu-Ju Chuang**, National Environmental Research Academy, Ministry of Environment, Executive yuan, Taiwan

1.07.P-Mo043 New Approach Methodologies To Evaluate The Toxicity Of Anticoagulant Rodenticides In Target And Non-Target Organisms | **David Hernandez-Moreno**, Instituto Nacional de Investigacion y Tecnolog a Agraria y Alimentaria (INIA-CSIC), Spain

1.07.P-Mo044 An Integrated Testing Strategy (ITS) for Acute Fish Toxicity: Fish Embryo and RTgill-W1 Cell Line with Threshold Approach | **Tzu-Ning Li**, Department of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Taiwan (Greater China)

1.07.P-Mo045 In silico prioritization of water micropollutants for quantification of their contribution to the aryl hydrocarbon receptor (AhR) mediated toxicity | **Katarina Lorinczova**, RECETOX, Masaryk University, Czech Republic

1.07.P-Mo046 Machine Learning Ecotoxicity Assessment of Pharmaceuticals | **Maria Pavlaki**, Centre for Environmental and Marine Studies (CESAM) & Department of Chemistry, University of Aveiro, Portugal

1.07.P-Mo047 The applicability domain concept, a must for all NAMs: Focus on Machine Learning QSAR models | **Floriane Larras**, KREATiS, France

1.07.P-Mo048 Computational Predictions of the Binding Activity of Endocrine Disrupting Compounds to the Estrogen Receptor Alpha: Evaluation of the applicability of molecular docking and simulations | **Robert Franz Wild**, University of Bergen, Norway

1.07.P-Mo049 Integration of in vitro mechanism data from ToxCast/Tox21 bioassays and in vivo toxicity data into adverse outcome pathway (AOP) network to develop explainable AI models | **Donghyeon Kim**, University of Seoul, "Korea, Republic of"

1.07.P-Mo050 Calibration of Chemical Agnostic Quantitative Adverse Outcome Pathways Based on Multiple Chemical Data using Hierarchical Modelling | **Zheng Zhou**, Lund University, Sweden

1.07.P-Mo051 The development and use of an adverse outcome pathway (AOP)-informed cellular Oxidative stress NAM for hazard screening | **Jose Maria Navas**, National Institute for Agricultural and Food Research and Technology (INIA), CSIC, Spain

1.07.P-Mo052 To What Extent Do Fish Toxicity Studies Drive Acute and Chronic Aquatic Hazard Classification? | **Anna-Maija Nyman**, European Chemicals Agency (ECHA), Finland

1.07.P-Mo053 Development of Acute to Chronic Ratios (ACRs) Applicable to Surfactant Ecotoxicity | **James Firman**, Liverpool John Moores University, United Kingdom

1.07.P-Mo054 Surfactant endpoint read-across strategies under REACH: A review of and guidance for future submissions | **Geoff Hodges**, Safety and Environmental Assurance Centre (SEAC), Unilever, United Kingdom

1.07.P-Mo055 Aquatic Toxicity Profile of Neurotoxic Substances | **Pia Talja**, European Chemicals Agency (ECHA), Finland

1.07.P-Mo056 Use of read-across to fulfil REACH information requirements - A case study with a fragrance ingredient | **Georg Kreutzer**, Givaudan, Switzerland

1.07.P-Mo057 Application of NAMs and refinement strategies in the petrochemical industry | **Maria Blanco-Rubio**, Shell Global Solutions, Netherlands

Impact of Micro- and Nanoplastics on Environmental and Human Health: Monitoring, Fate, Exposure, Toxicity and Mechanisms of Toxic Action | Miguel Oliveira, Marta Martins, Gerardo Pulido-Reyes, Danae Patsiou

1.09.P-Mo058 Micro- and Nanoplastics Libraries Reflecting Environmental Physicochemical Properties | **Yuya Haga**, Grad. Sch. Pharm. Sci., Osaka Univ., Sch. Pharm. Sci., Osaka Univ., Japan

1.09.P-Mo059 Detection of Internalized Nanoplastics in Human Cells Using Surface-Enhanced Raman Scattering (SERS) | **Barbara Rani-Borges**, Institute of Chemistry, University of Sao Paulo (USP), Brazil

1.09.P-Mo060 Linear polyethylene terephthalate oligomers toxicity in human primary cells and interactions with biomolecules | **Dragana Stanic-Vucinic**, University of Belgrade - Faculty of Chemistry, Serbia

1.09.P-Mo061 The Toxicity of Microplastics Explorer (ToMEx) 2.0 Database - A Unique Compilation of Microplastics Effect Measurements for Environmental Risk Assessment | **Magdalena Mair**, Statistical Ecotoxicology, Bayreuth Center of Ecology and Environmental Research (BayCEER), University of Bayreuth, Germany

1.09.P-Mo062 Exploring the Toxic Effects of Microplastics and Heavy Metals on Enchytraeus crypticus: A Threat to Soil Ecosystem Integrity | **İrem Öztürk Ufuk**, Gebze Technical University, Turkiye

1.09.P-Mo063 Breaking Down Recycled LDPE: Nanoplastics, Byproducts and Their Effects on aquatic organisms | **Gerardo Pulido-Reyes**, Universidad Autonoma de Madrid, Spain

1.09.P-Mo064 Effect of polyethylene microbeads on the growth and photosynthetic potential of freshwater microalgae, Scenedesmus quadricauda | **Kanchan Nakarmi**, LUT University, Finland

1.09.P-Mo065 Interaction of aged filamentous and fragmented polypropylene microplastics in two freshwater zooplankton species | **Matea Marelja**, Department F.-A. Forel for Environmental and Aquatic Sciences, University of Geneva, Switzerland

1.09.P-Mo066 Investigating the Sensitivity of Daphnia magna to Natural and Synthetic Microfibers | **Tham Hoang**, Auburn University, United States

1.09.P-Mo067 Biological Effects of Microcapsules 2 | **Norihisa Tatarazako**, Ehime University, Japan

1.09.P-Mo068 Evaluating the Role of Sinotaia quadrata (Benson, 1842) as a Bioindicator of Microplastic Pollution in Tuscany's (Italy) Freshwater Ecosystems | **Alice Gabetti**, The Veterinary Medical Research Institute for Piedmont; Regional Reference Centre for the Biodiversity of Aquatic environments (BioAqua), Italy

1.09.P-Mo069 Ecotoxicological Impacts of Microplastics on the Freshwater Species Danio rerio and Daphnia magna | **Ana Rita Correia Fernandes**, University of Aveiro, Portugal

1.09.P-Mo070 Interactive Effects of Polystyrene Nanoplastics and Climate Change Stressors on Zebrafish Embryo Development and Behavior | **Monica Torres-Ruiz**, Centro Nacional de Sanidad Ambiental, Instituto de Salud Carlos III, Spain

1.09.P-Mo071 Toxic effects of PET microfibers on sheepshead minnow, Cyprinodon variegatus | **Jin Soo Choi**, korea institute of toxicology (KIT), "Korea, Republic of"

1.09.P-Mo072 Enhanced Fish Ingestion of Microplastics Due to Colonization and Stimulated Bioluminescence of Luminescent Bacteria on Microplastics | **Dali Wang**, Jinan University, China (Mainland)

1.09.P-Mo073 Effects of Environmental Microplastic on wild Wharf Roach (Ligia exotica) as plastic detritus consumer | **Jee-Hyun Jung**, Korea Institute of Ocean Science & Technology (KIOST), "Korea, Republic of"

1.09.P-Mo074 Effects of Poly(Methyl)Methacrylate (PMMA) nanoplastics in shore crab Carcinus maenas: A behavioural and biochemical assessment | **Miguel Oliveira**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

1.09.P-Mo075 Microplastics in sentinel species (mussels, polychaetes and shrimps): Accumulation, depuration and tissue localization in experimental set ups and in the environment | **Manu Soto**, Plentzia Marine Station, University of the Basque Country, Spain

1.09.P-Mo076 Transcriptomic and Metabolomic Responses of Juvenile Rockfish (Sebastes schlegeli) to Fiber-Shaped Polyethylene Terephthalate Microplastics | **Seong Hee Mun**, Korea Institute of Ocean Science & Technology (KIOST), "Korea, Republic of"

1.09.P-Mo077 Plastic Debris in Mussels: Molecular Responses and Role in Okadaic Acid Uptake and Toxicity | **Mario Araujo**, CIIMAR, Portugal

1.09.P-Mo078 Harmonizing Data for Dietary Microplastic Exposure: Insights into Seafood and Age-Specific Risks | **Maxime Vankoningsloo**, Service Risk and Health Impact Assessment, Sciensano, Belgium

1.09.P-Mo079 Effects of micro(nano)plastics on amphibian cell lines | **Miguel Oliveira**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

1.09.P-Mo080 Adsorption and protection of environmental DNA (eDNA) on polymer and silica surfaces | **Roman Schefer**, ETH Zurich, Switzerland

1.09.P-Mo081 Bioconcentration and Metabolism of 3H-6PPD quinone in Zebrafish (Danio rerio) | **Jung-Hoon Jung**, korea institute of toxicology (KIT), "Korea, Republic of"

1.09.P-Mo082 Histopathological Alterations in Adult Zebrafish Tissues Subchronically Exposed to Microplastics and Fipronil | **Flavio Tominaga**, UNIFESP, Brazil

1.09.P-Mo083 Impacts of Microplastics and Glyphosate on the Microalgae Arthrospira platensis | **Dercia Santos**, Centre for the Research and Technology of Agro-Environmental and Biological Sciences, CITAB, University of Tras-os-Montes and Alto Douro, Portugal

1.09.P-Mo084 Visual evidence of multigenerational transfer of nanoplastics in Pea plants | **Dokyung Kim**, Konkuk University, "Korea, Republic of"

1.09.P-Mo085 Size matters less? Exploring the Cross-species Intricacies of Nanoplastics Toxicity from Zebrafish to Chicken | **Elvis Genbo Xu**, University of Southern Denmark, Denmark

1.09.P-Mo086 Microplastics Reduce Endocytosis of Earthworm Immune Cells | **JIN IL KWAK**, Konkuk University, "Korea, Republic of"

1.09.P-Mo087 Effects of Environmental Microplastics on Soil Microarthropods Survival, Behaviour and Biodiversity | **Marco Scaramelli**, Department of Life Sciences, University of Modena and Reggio Emilia; NBFC, National Biodiversity Future Center, Italy

1.09.P-Mo088 Unveiling Microplastic and Metal Pollution in Giant Armadillos (Priodontes maximus) | **Barbara Rani-Borges**, Institute of Chemistry, University of Sao Paulo (USP), Brazil

1.09.P-Mo089 Biodistribution of Polystyrene Nanoplastics in Mice: Advancing Analytical Techniques Using Metal-doped Plastics | **Denise M. Mitrano**, ETH Zurich, Switzerland

1.09.P-Mo090 Detection of Model Micro And Nano Plastics in Living Cells With Synchrotron Techniques | **Sara Bozzer**, Institute for Maternal and Child Health, IRCCS Burlo Garofolo, Italy

1.09.P-Mo091 Effects of Polyethylene (PE) and Polyvinyl Chloride (PVC) Plastic Particles on Isolated Human Erythrocytes | **Maja Henjakovic**, Department of Medicine, Faculty of Medicine and Dentistry, Danube Private University, Austria

1.09.P-Mo092 Detection of microplastics in the human penis | **Lars Hildebrandt**, Helmholtz-Zentrum Hereon, Germany

1.09.P-Mo093 Impact of Micro- and Nanoplastics on Human Monocytes: A Focus on Autophagy, Lysosomal Integrity, and Mitochondrial Function | **Stefania Pezzana**, University of Milan, Italy

1.09.P-Mo094 Investigating the Production, Reproducibility, and Particle Characteristics of Fluorescence-Labeled Micro-Nano-Plastic Reference Material and Their Possible Cell Uptake | **My Vanessa Nguyen Hoang**, University of Vienna, Austria

1.09.P-Mo095 In Vitro Effects Of Micro- And Nanoplastics On The Human Immune System | **Martina Broggiato**, University of Milan, Italy

1.09.P-Mo096 Impact of Microwave-Treated Polypropylene Microplastics on Caco-2 Cells | **Raphaela Ferreira**, University College Dublin, Ireland

1.09.P-Mo097 Intracellular Fate of Polymer Nanoparticle Systems Monitored Through mid-Infrared Photothermal Microscopy | **Verena Karl**, Research Center for Non-Destructive Testing (RECENDT), IR & Raman Spectroscopy, Austria

1.09.P-Mo098 Valorizing Fungal Biomass from Microplastic Bioremediation | **Ana Sousa**, Associate Laboratory i4HB - Institute for Health and Bioeconomy, University Institute of Health Sciences - CESPU; UCIBIO - Applied Molecular Biosciences Unit, Toxicologic Pathology Research Laboratory, University Institute of, Portugal

1.09.P-Mo099 The Power of Electron Microscopy in Plastic Particle-Cell Interaction Studies | **Anita Jemec Kokalj**, University of Ljubljana, Biotechnical Faculty, Slovenia

1.09.P-Mo100 A Comprehensive Analysis of Plastic Pollution in Greenhouse Agricultural Environments: The Case of Almería (Spain) | **Gerardo Pulido-Reyes**, Universidad Autonoma de Madrid, Spain

1.09.P-Mo101 Trends in Study Quality and Reporting in Microplastics Research | **Magdalena Mair**, Statistical Ecotoxicology, Bayreuth Center of Ecology and Environmental Research (BayCEER), University of Bayreuth, Germany

1.09.P-Mo102 Paint: a ubiquitous yet disregarded piece of the microplastics puzzle | **Zoie Diana**, Department of Ecology and Evolutionary Biology, University of Toronto, Canada

1.09.P-Mo103 Sniping the Hotspots: Identification, Analysis and Elimination of Microplastic by Microflotation from Sedimentation Tanks | **Stefan Grass**, MicroBubbles GmbH, Germany

1.09.P-Mo104 Development of methods for materials and analytical techniques of Metal embedded Nanoplastics and their application to environmental behavior evaluation | **Hyojung Choi**, Gwangju Institute of Science and Technology, "Korea, Republic of"

1.09.P-Mo105 Detailed Characterization of Polymers and Microplastics by KMD Plots of Complex MS Spectra | **Arnd Ingendoh**, Bruker Daltonics GmbH & Co KG, Germany

1.09.P-Mo106 Accurate High Throughput Microplastics Characterization on Aluminum-Coated Filter Using the Agilent 8700 Laser Direct Infrared (LDIR) Chemical Imaging System | **Andreas Kerstan**, Agilent Technologies, Inc., USA

1.09.P-Mo107 Micro- and nanoplastics - a wish list for reliable determination of the risks for humans | **Dana Kuhnel**, Helmholtz Center for Environmental Research (UFZ), Germany

1.09.P-Mo108 Detection of Microplastics in Amniotic Fluid and Placenta in Preeclampsia and Healthy Full-Term Pregnant Women without Underlying Conditions | **DaEun Jeong**, Department of Obstetrics and Gynecology, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Korea, Republic of

Ecological Impacts of Chemical Mixtures and Multiple Stressors: From Evaluation to Prediction | Naeem Shahid, Verena Schreiner, Claire Duchet, Matthias Liess

2.01.P-Mo109 Long-term trends for biodiversity in a multi-stressor environment | **Jan Koschorreck**, German Environment Agency (UBA), Germany

2.01.P-Mo110 Defining a Safe Operating Space for European River Biodiversity in the Context of Multiple Stressors - DESTRESS Project | **Jennifer Laurent**, Stockholm University, Sweden

2.01.P-Mo111 Effect of Cumulative Municipal Wastewater Exposure on Benthic Macroinvertebrate Assemblages: An Experimental Stream Approach | **Aphra Sutherland**, University of Calgary, Canada

2.01.P-Mo112 Basal Autotrophic and Heterotrophic Food Web Responses to Municipal Wastewater Effluent Exposure | **Breanna Sayles**, University of Calgary, Canada

2.01.P-Mo113 Effect of Co-exposition of Cadmium and Phthalate on Development of the Insect Agricultural Pest Spodoptera Littoralis | **David Siaussat**, Sorbonne Universite, France

2.01.P-Mo114 Zebrafish physiological and sub-cellular changes under the combined exposure of the nanomaterial Mg-Al LDH and the antineoplastic Epirubicin | **Diana Carneiro**, Centre for Environmental and Marine Studies (CESAM) & Department of Chemistry, University of Aveiro, Portugal

2.01.P-Mo115 The Acute Oral Toxicity of Pesticide Mixtures Identified in Agricultural Fields to Honey Bees (Apis mellifera L.) | **Erin Henry**, Wildlife Ecology and Conservation Group, Wageningen University & Research, Netherlands

2.01.P-Mo116 Genotoxic Effects of Three Anticancer Drug Mixtures to Zebrafish | **Daniel Bruno**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

2.01.P-Mo117 Disentangling the Web: The Impacts of Binary Chemical Mixtures on Consumer-Resource Feeding Interactions | **Dylan Asbury**, University of Sheffield, United Kingdom

2.01.P-Mo118 First Analysis of the application of health impact assessment in Italy: The role of effect-based methods in mixtures assessment | **Mario Carere**, Italian National Institute of Health, Department of Environment and Health, Italy

2.01.P-Mo119 Assessing the Toxicity of a Mixture of Benzotriazole Ultraviolet Stabilizers to Zebrafish (Danio rerio): insights into embryotoxic and molecular effects | **Luis Terrazas Salgado**, Department of Biological Sciences, University of Lethbridge, Canada

2.01.P-Mo120 Response of freshwater periphyton to pesticides, their mixture and transformation products: New insight from untargeted metametabolomics | **Melissa Eon**, INRAE, France

2.01.P-Mo122 Screening of mixture toxicity of major biocides in Allivibrio fischeri | **Sunmi Kim**, Korea Research Institute of Chemical Technology, "Korea, Republic of"

2.01.P-Mo123 Development of Strategy for Mixture Toxicity Screening in Consumer Products: A Case Study on 1,2-Benzisothiazol-3(2H)-one | **Gaeul Yang**, University of Seoul, "Korea, Republic of"

2.01.P-Mo124 Evaluation of Wastewater Treatment Plant Outfalls as Attractive Habitats for Fish and Invertebrates | **Lea Lovin**, Swedish University of Agricultural Sciences (SLU), Sweden

2.01.P-Mo125 Linking Aquatic-Terrestrial Ecosystems: Effects of Wastewater and Warming on Aquatic Insects | **Iva Kokotovic**, University of Zagreb, Faculty of Science, Croatia

2.01.P-Mo126 Impact of Environmental Matrix Effects on Toxicity-driving Compounds in Wastewater Effluent | **Yan Wang**, Dept. of Plant and Environmental Sciences, University of Copenhagen, Denmark

2.01.P-Mo127 Assessing the Environmental Ecotoxicity of Wastewater Effluents Contaminated with Illicit Drugs and Benzodiazepines: Insights from Zebrafish Liver Cell Exposure | **Paloma de Oro-Carretero**, Department of Analytical Chemistry, Complutense University of Madrid, Spain

2.01.P-Mo128 Effects of urban wastewater effluents containing antibiotics treated by AnFBBR reactor on the aquatic insect Chironomus sanctic aroli | **Rodrigo Carneiro**, University of Sao Paulo (USP), Brazil

2.01.P-Mo129 Application of Mixture Assessment Factor in South Korea's Chemical Regulation | **Dawoon Jung**, Korea Environment Institute, "Korea, Republic of"

2.01.P-Mo130 CheOSmix - A Data-Reuse Approach to Determining Chemical Mixture Risk Driver Heterogeneity in European Freshwater | **Jorg Hackermuller**, Helmholtz Center for Environmental Research (UFZ), Germany

2.01.P-Mo131 The Use of Ecological Modelling in System-based Environmental Risk Assessment: Investigating the Influence of Landscape Heterogeneity and Pesticide Mixtures | **Dana Bashkir**, Wageningen Environmental Research, Netherlands

2.01.P-Mo132 Modelling effects of multiple stressors - A case study with imidacloprid and aquatic insects | **Evridiki Klagkou**, University of Crete, Greece

2.01.P-Mo133 Probabilistic Risk Characterisation for Chemical Mixtures: Hierarchical Integration of Models for Similar and Different Mode of Action | **Jannicke Moe**, Norwegian Institute for Water Research (NIVA), Norway

2.01.P-Mo134 Bush encroachment coupled with climate change and variability in protected and communal areas: A species distribution modelling approach | **Thabang Maphanga**, Cape Peninsula University of Technology, South Africa

2.01.P-Mo135 Evaluation of the Population-level impacts of Chemical Exposures on Pacific Salmon in the Puget Sound, Washington, USA - Part 1 - Model development and legacy contaminants. | **C. Andrew James**, University of Washington Tacoma, United States

2.01.P-Mo136 Probabilistic Modelling of Pharmaceutical Pollution in a Scottish Meso-scale Catchment | **Miriam Glendell**, The James Hutton Institute, United Kingdom

2.01.P-Mo137 Predicting Cellular Level Vulnerability to Combined Stress of a Non-chemical Stressor and Chemical Toxicity Using the Stress Additional Model (SAM) | **Syarifatun Nisa Nurdhy**, UFZ Helmholtz Center for Environmental Research, Germany

2.01.P-Mo138 Linking Micropollutants Toxicity and Macroinvertebrate Communities in German Rivers Using AI-Based Toxicity Predictions | **Ariane Moulinec**, Senckenberg Research Institute and Natural History Museum Frankfurt, Department of River Ecology and Conservation, Germany

2.01.P-Mo140 Multistress in a Changing World: Impacts of Pollutant Mixture and Temperature on Gene Expression of the Freshwater Gastropod Physella acuta | **Ahlam Mohamed-Benhammou**, National University of Distance Education, Spain

2.01.P-Mo141 Sublethal chemical exposure alters thermal tolerances of freshwater fish and invertebrates | **Helena Soraya Bayat**, Research Center One Health Ruhr, University Alliance Ruhr & Faculty of Biology, University Duisburg-Essen, Germany

2.01.P-Mo142 How Does Copper Alter the Thermal Tolerance of Calanus Copepods in Oslo Fjord? | **Aase Gressetvold Finstad**, Section for Aquatic Biology and Toxicology, Department of Biosciences, University of Oslo, Norway

2.01.P-Mo143 Comparing the Thermal Tipping Point of the Overwintering and Summer Arctic Calanus Copepods in Response to Copper Pollution | **Milla Mona Sophie Albertsen**, Section for Aquatic Biology and Toxicology, Department of Biosciences, University of Oslo, Norway

2.01.P-Mo144 Chronic Toxicity of Methoxyfenozide to Aquatic Macroinvertebrates at Two Different Temperatures | **Iim Imroatushshoolikhah,** Wageningen University and Research (WUR), Netherlands

2.01.P-Mo145 Impact of Increasing Temperature Fluctuations on the Toxicity of λ-Cyhalothrin to Chironomus riparius | **Maren Dill**, GG BioTech Design GmbH, Germany

2.01.P-Mo146 Influences of Sertraline on the Activity Patterns of the Phantom Midge Larvae Chaoborus Under Varying Temperature Conditions | **Frida Pallapies**, Ruhr-University Bochum, Department of Animal Ecology, Evolution and Biodiversity, Germany

2.01.P-Mo147 Interactive effects of mixtures of Copper and Pendimethalin to microalgae - temperature matters! | **Micael Neves**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

2.01.P-Mo148 Effects of altered metamorphosis on the population maintenance of amphibians - a systematic review | **Adam Jonas**, Regartis, Czech Republic

2.01.P-Mo149 Oxidative status in two populations of the invasive Asian clam in a major estuary in South America | **Florencia Liquin**, Facultad de Ciencias Naturales, Instituto para el Estudio de la Biodiversidad de Invertebrados (IEBI), Universidad Nacional de Salta, Argentina; Faculty of Biological Sciences, Goethe University Frankfurt, Frankfurt am Main, Germany., Argentina

2.01.P-Mo150 Evaluation of the Population-Level Impacts of Chemical Exposures on Pacific Salmon in the Puget Sound, Washington, USA. - Part 2 - Emerging Contaminants and Sublethal Effects | **Maya Faber**, University of Washington Tacoma, United States

2.01.P-Mo151 Chemical Stressors and Their Impacts on Edaphic Organisms: The Role of MPs and Pesticides | **Amanda Araujo**, LEEA/SHS, Sao Carlos Engineering School, University of Sao Paulo, Brazil

2.01.P-Mo152 Ecotoxicological assessment of anti-tuberculosis medications in aquatic environments: occurrence, reproductive effects and ecological risks | **Wei-Yu Chen**, Department of Ecology and Environmental Resources, National University of Tainan, Taiwan (Greater China)

2.01.P-Mo153 The Practical Application of Toxic Pressure and Bioassays for the Micropollutants Measurement Network HHNK 2023 | **Chantal K.E. van Drimmelen**, HHNK, Netherlands

2.01.P-Mo154 Assessing the Reproductive Status of Fathead Minnows (Pimephales promelas) Exposed to Frank Lake, AB, Canada Effluent as a Bio-indicator of Ecosystem Health | **Rayen Morales Urrutia**, University of Lethbridge, Canada

2.01.P-Mo155 Co-occurrence of Microplastics and Contaminants of Emerging Concern in River Water, Sediment and Fish: The Case Study of Júcar River basin (Spain) | **Vasiliki Soursou**, University of Valencia, Spain

2.01.P-Mo156 Vulnerability of groundwater species to wildfire ashes | **Nelson Abrantes**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

New Developments in Sediment Ecotoxicology and Risk Assessment | Alan Jones, Michiel Kraak, Henriette Selck, Ivo Roessink

2.08.P-Mo157 Effect-Based Trigger Values for a Mixture of Aryl Hydrocarbon Receptor Agonists in Sediments Derived from In Vitro Bioassays | **Jiyun Gwak**, Department of Earth, Environmental & Space Sciences, Chungnam National University, "Korea, Republic of"

2.08.P-Mo158 Toxicity assessment of freshwater sediments: Proposing the European amphipod Gammarus fossarum for the development of new standardised bioassays | **Cecile LUC-REY**, Biomonitoring Aquatic Environment - BIOMAE and RiverLy - Fonctionnement des hydrosyst mes - INRAE, France

2.08.P-Mo159 "In Vivo" ECOD Assay: A Proxy To Unveil Biotransformation In Sediment-Dwelling Invertebrates. | **Elettra D'Amico**, Roskilde University, Denmark

2.08.P-Mo160 Overcoming Challenges in Chronic Toxicity Testing of Sediment-Dwelling Organisms: Validating Spiked Sediment Studies for a Variety of Species across Diverse Taxonomic Groups | **Apostolos Koutsaftis**, Environmental Resources Management (ERM), Netherlands

2.08.P-Mo162 Development of a conceptual model for sediment dynamics and pollutant distribution in a connected pond system | **Sebastian Hoss**, Ecossa, Germany

2.08.P-Mo163 Distribution of Potentially Toxic Elements in Sediments in Millstream Creek, Langford, BC, Canada | **Matt Dodd**, Royal Roads University, Canada

2.08.P-Mo164 Influence of sediments spiked with "smart" anti-corrosion nanoadditives in Hediste diversicolor: biomarkers and bioaccumulation | **Mariana Bruni Marques do Prado e Silva**, University of Aveiro, Portugal

2.08.P-Mo165 Hediste diversicolor model for the evaluation of estuarine sediment toxicity impacted by sewage treatment plants | **Evgeni Bunin**, Universite de Pau et des Pays de l Adour, E2S UPPA, CNRS, IPREM, Institut des Sciences Analytiques et de Physico-chimie pour l Environnement et les materiaux; CBET Research Group, Dept. of Zoology and Animal Cell Biology, Faculty of Science and Technology, Spain

2.08.P-Mo166 Distribution Characteristics and Potential Toxicity of Dioxin-Like Chemicals in Sediments from Busan Bay, South Korea | **Songyeon Lee**, Department of Earth, Environmental & Space Sciences, Chungnam National University, "Korea, Republic of"

2.08.P-Mo167 Exploring Coconut Husk as an Organic Matter Enrichment Alternative to Peat in Sediment Toxicity Test | **Davide Asnicar**, Huntsman Marine Science Centre, Canada

2.08.P-Mo168 Tubifex tubifex Bioturbation and Biotransformation Ability Determine the Distribution of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls Mixtures in the Sediment. | **Elettra D'Amico**, Roskilde University, Denmark

2.08.P-Mo169 The Amphipod Hyalella curvispina as an Ecotoxicological Biotool for Environmental Risk Assessment of Sediments in Río de la Plata Ports, Buenos Aires, Argentina | **Walter di marzio**, PRIET DCB UNLU CONICET, Argentina

2.08.P-Mo170 Assessment of the Detergent Concentrations in Water and Sediments of the Papaloapan River, Veracruz, Mexico | **Alma Sobrino-Figueroa**, Alejandro Villalobos Laboratory. Autonomous Metropolitan University-Iztapalapa, Mexico

Measuring, Modelling and Monitoring the Environmental Behaviour and Exposure of Pesticides | Bernhard Jene, Joachim Dayteg, Pauline Adriaanse

3.03.P-Mo171 Sorption-mediated bioavailability and AMPA influence on bacterial glyphosate transformation | **Kleanthi Kourtaki**, Department of Geosciences, Eberhard Karls University of Tubingen, Germany

3.03.P-Mo172 Effect of Soil Particle Size and Organic Matter on Pesticide Sorption Behavior in Agricultural Soils | **Marija Gadzimuradova**, Wageningen University, Netherlands

3.03.P-Mo173 UAV spray applications as innovative solution for heroic vineyards: a case study in Northern Italy | **Nicoleta Suciu**, Department for Sustainable Food Process, Universit Cattolica del Sacro Cuore, Italy

3.03.P-Mo174 Environmental parameter-calibrated models for predicting sediment-water partitioning behaviors of diverse emerging contaminants in lotic waterways | **Huizhen Li**, Jinan University, China (Mainland)

3.03.P-Mo175 Effect of fertilizers on dissipation kinetics of Imidacloprid in cultivated and non-cultivated arid soils | **Hattan A Alharbi**, Department of Plant Protection, College of Food and Agriculture Sciences, King Saud University, Saudi Arabia

3.03.P-Mo176 A Simplified Approach to Represent Bioturbation Effects on Pesticide Contents in Upper Sediment by the TOXSWA Model | **Almir Nunes**, Wageningen Environmental Research, Wageningen University and Research, Netherlands

3.03.P-Mo177 Global Meta-Analysis and Machine Learning Reveal the Critical Role of Soil Properties in Influencing Biochar-Pesticide Interactions | **Jingyu Wang**, Department of Agroecology, Aarhus University, Denmark

3.03.P-Mo178 SWAN's Evolution: Bridging Recent Modelling Advances and Regulatory Risk Assessment | **Stefan Reichenberger**, knoell, Germany

3.03.P-Mo179 Derivation of updated SWAN-VFSMOD scenarios for FOCUS step4 simulations | **Stefan Reichenberger**, knoell France SAS, France

3.03.P-Mo180 Modelling Framework to Identify FOCUS Step 3 Surface Water 'Screening' Scenarios Following Use of REACH-IN LET | **Abdul Abu**, Cambridge Environmental Assessments, RSK ADAS Ltd., United Kingdom

3.03.P-Mo181 Reduction of Complexity: Variance-based Sensitivity Analysis for FOCUS STEP 3 | **Dimitrios Skodras**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

3.03.P-Mo182 Probabilistic Spray Drift Model for Realistic Spray Applications in Arable Crops in the Netherlands | **Henk Jan Holterman**, Wageningen University and Research (WUR), Netherlands

3.03.P-Mo183 Assessing connectivity of uncertain field sites in groundwater Tier-4 programmes using conservative tracers | **Fabrizio Rama**, Syngenta Crop Protection, United Kingdom

3.03.P-Mo184 Groundwater Dilution Factor Evaluation in the EU Using the Spatial LUCAS PEARL Modelling Framework | **Chunming Sui**, BASF SE, Germany

3.03.P-Mo185 Enhancing Groundwater Exposure Assessments for Pesticides: Addressing the Challenges of Monitoring Studies in the Absence of Harmonized Guidance Document | **Gabriella Carlotta Fait**, European Food Safety Authority (EFSA), Italy

3.03.P-Mo186 Challenges for Soil Photolysis Modelling in Groundwater Risk Assessment: an Analysis of Surface Layer Dynamics in FOCUS Models | **George Mahoney**, Syngenta Crop Protection, United Kingdom

3.03.P-Mo187 Modelling bromide breakthrough in railway lysimeters | **Valerian Zeender**, Agroscope, Switzerland

3.03.P-Mo188 Assessment of Organochlorine Pesticides and Chlorpyrifos in groundwater in the Yucatan Peninsula | **Alejandra Sanchez-Gonzalez**, Posgrado Ciencias del Mar y Limnolog a (UNAM), Mexico

3.03.P-Mo189 CF3-containing pesticides and widespread TFA contamination of groundwaters: Source evidence and uncertainties from Luxembourgish studies | **Tom Galle**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

3.03.P-Mo190 Landscape level modelling for derivation and contextualization of worst-case surface water dilution factors at drinking water abstraction locations | **Mohammad Hatamjafari**, BASF SE, Germany

3.03.P-Mo191 Use of Geospatial Analysis Techniques to Evaluate Potential Risks of Plant Protection Products to Drinking Water Abstraction Points in the Netherlands | **Olha Khomenko**, Cambridge Environmental Assessments, United Kingdom

3.03.P-Mo192 Scoping refinements for surface water metabolites in relation to the Drinking Water Treatment guidance | **Linda Maguire**, Enviresearch Ltd, United Kingdom

3.03.P-Mo193 Muddy waters. Navigating the EFSA/ECHA drinking water treatment guidance for biocidal products: Impacts, challenges and uncertainties | **Helen Sneath**, TSG Consulting, United Kingdom

3.03.P-Mo194 Robust and Representative Allocation of Arable Land in Spatial Layers used for Risk Assessments | **Fabrizio Rama**, Syngenta Ltd, United Kingdom

3.03.P-Mo195 Global pesticide application data as input for assessing ecosystem exposure and impacts | **Yuyue Zhang**, Technical University of Denmark, Denmark

3.03.P-Mo196 Assessing Exposure to Pesticides with Spatially Distributed Environmental Scenarios at Field Level in Czechia | **Artur Radomyski**, RECETOX, Masaryk University, Czech Republic

3.03.P-Mo197 Challenge accepted - First ultra-trace level monitoring data of pyrethroids in Bavarian rivers | **Sonja Krezmer**, Bavarian Environment Agency, Germany

3.03.P-Mo198 Occurrence, Spatial Distributions, and Influencing Factors of Neonicotinoid insecticides in Soils from Agricultural Farmlands in China: A National Study | **Jie Hou**, Key Laboratory for Earth Surface Processes, College of Urban and Environmental Sciences, Peking University, China (Mainland)

3.03.P-Mo199 Analysis of the contamination and reduction of pesticide residues during transition from conventional to organic rice production in the Mekong Delta of Vietnam | **Linda Klamann**, Research Center Julich GmbH, Germany

3.03.P-Mo200 Pesticides Contamination in the Irrigation System of Arequipa, Peru | **Pedro Carvalho**, Aarhus University, Denmark

3.03.P-Mo201 Meter-Scale Heterogeneity of Soil Properties Shapes Residual Pesticides and Potential Risk in an Agricultural Field | **Yiqing Zhang**, Helmholtz Centre for Environmental Research (UFZ), Department of Applied Microbial Ecology, Germany

3.03.P-Mo202 GB stereoisomer guidance: experience of applying the guidance to an active substance assessment | **Emily Cumming**, Chemicals Regulation Division, Health & Safety Executive, United Kingdom

3.03.P-Mo203 Worked Examples for the Proposed Revision of the Aged-Sorption Guidance Document | **Bernhard Jene**, BASF, Germany

3.03.P-Mo204 xCropProtection: a Spatiotemporal Component to Simulate Prospective and Retrospective PPP Applications in Real World Landscapes | **Christopher Holmes**, Applied Analysis Solutions LLC, United States

3.03.P-Mo205 Is a common environmental risk assessment approach for non-professional uses possible across Europe? | **Iker Garcia-Garizabal**, GAB Consulting Spain SLU, Spain

3.03.P-Mo206 A hidden potential of national registers of PPP authorizations - Generalized Application Patterns | **Jakub Hofman**, Masaryk University, Czech Republic

3.03.P-Mo207 A Novel Approach for Large GAP Screening in View of EU Member State Authorisation - Extension for Groundwater and Drinking Water Treatment | **Gunnar Kahl**, knoell Germany GmbH, Germany

3.03.P-Mo208 FOCUS MACRO 5 Multithreading for FOCUS SW and GW Modelling | **Denis Weber**, Exponent International Ltd., Switzerland

3.03.P-Mo209 Establishing a Link Between Calendar Dates, Degree-day and BBCH Stages of Relevant Crops Across the EU | **Franco Ferilli**, European Food Safety Authority (EFSA), Italy

3.03.P-Mo210 Improved soil fumigants exposure-related data and mitigation measures efficacy of different fumigation strategy and techniques | **Maura Calliera**, Opera Research Centre Universit Cattolica Sacro Cuore Piacenza, Italy

3.03.P-Mo211 Establishment of a Simultaneous Analytical Method for 370 Pesticides and Metabolites in Honey Using LC-MS/MS | **Yoon-Hee Lee**, Department of Applied Bioscience, Dong-A University, "Korea, Republic of"

3.03.P-Mo212 Novel Triple Quad Approaches for Sensitive Quantification of > 1000 Pesticides in Single Runs | **Arnd Ingendoh**, Bruker Daltonics GmbH & Co KG, Germany

3.03.P-Mo213 Determination of Pyrethroids in Water Samples According to the EU Water Framework Directive Using Atmospheric Pressure Gas Chromatography Tandem Mass Spectrometry (APGC-MS/MS) | **Claudia Rathmann**, Waters GmbH, Germany

3.03.P-Mo214 QuEChERS-Based Optimization and Application of Broflanilide Analysis in Persimmon Flesh, Peel, Peduncle, and Fully Ripened Fruits for Assessing Washing Efficiency | **Jae-Woon Baek**, Department of Applied Bioscience, Dong-A University, "Korea, Republic of"

3.03.P-Mo215 Determination of Pesticide Residues in Fiber and Cottonseed in Major Cotton (Gossypium hirsutum L.) Production Regions of Türkiye and Assessment of Risk to Consumers | **Volkan Mehmet Cinar**, Anadolu University, Turkiye

3.03.P-Mo216 Fate and Transport of Microplastics and Micropollutant in Soil Environment | **Ambika Selvaraj**, Faculty, Department of Civil Engineering, Indian Institute of Technology Hyderabad , Adjunct Faculty, Department of Climate Change, Indian Institute of Technology Hyderabad, Adjunct Faculty, Greenko School of Sustainability, Indian Institute of Technology, India

3.03.P-Mo217 Dissipation pattern of spirotetramat during cultivation of agricultural products for establishing post-harvest residue level in Korea | **Young-Jun Lee**, Korea Testing & Research Institute, "Korea, Republic of"

3.03.P-Mo218 Flood Mediated Pesticide Uptake into Riparian Plants and Phytophagous Aphids | **Franziska Fiolka**, RPTU - Kaiserslautern - Landau, Germany

3.03.P-Mo219 Blooming concerns: Evaluating exposure towards pollinators from ornamental plants | **Mafalda Castro**, Syngenta Nordics A/S, Strandlodsvej 44, 2300 Copenhagen, Denmark, Denmark

3.03.P-Mo220 Development of Disposable Biosensors of Acetylcholinesterases from Leaf-Cutting Ants For the Detection of Potential Pesticides. | **Joao Fernandes**, Chemistry Department - Federal University of Sao Carlos, Brazil

3.03.P-Mo221 Occurrence and spatial distribution of neonicotinoids in South Korean honey and pollen samples | **Jun-Tae Kim**, Center for Climate and Carbon Cycle Research, Korea Institute of Science and Technology (KIST), "Korea, Republic of"

3.03.P-Mo222 Building age and seasonality impact levels of pesticides in household dust | **Lisa Melymuk**, Masaryk University, Czech Republic

3.03.P-Mo223 Dissipation Patterns and Pre-Harvest Residue Limits of Pesticides in Ponytail Radishes in Korea | **Jang-Hun Kim**, Wonkwang University, "Korea, Republic of"

3.03.P-Mo224 Effectiveness of home-based methods for reducing pesticide residues on grapes | **Rozarka Jilkova**, RECETOX, Masaryk University, Czech Republic

3.03.P-Mo225 Geospatial Analysis as a Toolbox for Identification of Antibiotics Sources in European Surface Water Bodies at a Catchment Scale | **Olha Khomenko**, Cambridge Environmental Assessments, United Kingdom

Wide-Scope Target and Non-Target Screening Strategies for Enhanced Chemical Coverage in Environmental Monitoring and Chemical Exposome Assessment | Alberto Celma, Adrià Sunyer-Caldú, Lidia Belova, Maria Margalef

3.07.P-Mo226 What's in Our Consumer Products? Target, Suspect, and Non-Target Screening | **Lisa Reinhardt**, University of Copenhagen, Denmark

3.07.P-Mo227 Can the Use of Menstrual Products Contribute to Chemical Exposure? | **Lara Cioni**, Institute of Environmental Assessment and Water Research - Spanish Council for Scientific Research (IDAEA-CSIC), Spain

3.07.P-Mo228 Untargeted Screening for PFAS Chemicals Using Comprehensive Feature Detection | **Michael Mccullagh**, Waters Corporation, United Kingdom

3.07.P-Mo229 Chemical Background in Blood Microsampling Devices by Non-Target Chemical Exposomics | **Solveig Thiele**, Department of Environmental Science (ACES, Exposure & Effects), Science for Life Laboratory, Stockholm University, Sweden

3.07.P-Mo230 Effect-Directed Analysis of Human Cord Blood to Identify Potential Thyroid Hormone System Disrupting Chemicals | **Maria Margalef**, Vrije Universiteit Amsterdam, Netherlands

3.07.P-Mo231 Throughput enhancement and modelling dimensionality reduction by sampling LC-HRMS data | **Deirdre de Boon**, Van t Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, Netherlands

3.07.P-Mo232 Suspect Screening of Endocrine Disruptive Compounds (EDCs) in the European Environment | **Nina HUYNH**, Institut National de l Environnement Industriel et des Risques (INERIS), France

3.07.P-Mo233 Usage of Liquid Chromatography and High-Resolution Mass Spectrometry to Detect and Monitor New Contaminants in Resources and Drinking Water | **Alexandre Guironnet**, SUEZ, CIRSEE (Centre International de Recherche Sur l Eau et l Environnement), France

3.07.P-Mo234 Setting the baseline of contamination by emerging pollutants in the Saronikos Gulf, Greece, utilizing state-of-the-art HRMS techniques and novel chemometric tools | **Rallis Lougkovois**, Hellenic Centre for Marine Research, Greece

3.07.P-Mo235 Investigating the chemical imprint of human-related activities on the Red Sea marine ecosystem utilizing novel complementary Mass Spectrometric techniques | **Rallis Lougkovois**, National & Kapodistrian University of Athens, Greece

3.07.P-Mo236 Investigating Fire Fighter and E-waste Handlers Exposure to PFAS Using Liquid Chromatography and Cyclic Ion Mobility Mass Spectrometry | **Michael andrew McCullagh**, Waters Corporation, United Kingdom

3.07.P-Mo237 The Occurrence of Contaminants of Emerging Concern in Swedish Landfill Leachate | **TSZ YUNG WONG**, Swedish University of Agricultural Sciences (SLU), Sweden

3.07.P-Mo238 Improved Environmental Contaminant Identification using a novel Dual-Ionization GC-EI&CI-TOFMS | **Philippe Diederich**, Bruker Daltonics Gmbh & Co KG, Germany

3.07.P-Mo239 Non-targeted analysis of contaminants of emerging concerns (CECs) in consumer food packaging using ultra-performance liquid chromatography high-resolution mass spectrometry (UPLC-HRMS) | **Patricia Aguilar-Alarcon**, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Netherlands

3.07.P-Mo240 Uncovering the chemicals in house dust | **Pim Leonards**, Vrije Universiteit Amsterdam, Netherlands

3.07.P-Mo241 The Capability of Silicone Wristbands for Targeted and Suspect Screening of Toxic Compounds in Primary Schools | **Hale Demirtepe**, Izmir Institute of Technology, Faculty of Engineering, Department of Environmental Engineering, Turkiye

3.07.P-Mo242 Reaching High Throughput for Chemical Exposomics of Human Serum by Phospholipid Removal and LC - HRMS | **Solveig Thiele**, Department of Environmental Science, Exposure and Effects Unit, Science for Life Laboratory, Stockholm University, Sweden

3.07.P-Mo243 Integrated exposure assessment of bisphenol A and bisphenol S considering both life stages and exposure route | **Inhye Lee**, Department of Environmental Health Sciences, Seoul National University, "Korea, Republic of"

3.07.P-Mo244 Innovative non-targeted screening approach using High-resolution mass spectrometry for the screening of organic chemicals and identification of specific tracers of soil and dust exposure in children | **Natalia Soares Quinete**, Florida International University, United States

3.07.P-Mo245 Deepen the characterisation of the perinatal chemical exposome thanks to SS/NTS global profiling strategies | **Jean-Philippe ANTIGNAC**, Oniris, INRAE, LABERCA, France

Photochemical Transformation of Contaminants in Aquatic Environments | Sarah Pati, Juliana Laszakovits

3.16.P-Mo246 Sunlight-Responsive Photocatalytic Membrane for the Treatment of Emerging Contaminants | **Venkateshwaran Gopal**, Department of Civil Engineering, Indian Institute of Technology Hyderabad, India

3.16.P-Mo248 Understanding the Role of Photolysis in the Aquatic Fate of Antimicrobial Transformation Products | **Paul Loffler**, Swedish University of Agricultural Sciences (SLU), Sweden

3.16.P-Mo249 Photodegradation of Trifluoromethyl-Substituted Aromatic Compounds: Effect of Nitrogen Presence in Aromatic Rings | **Mattia Balestra**, Institute of Biogeochemistry and Pollutant Dynamics (IBP), Department of Environmental Systems Science, ETH Zurich, Switzerland

3.16.P-Mo250 Photochemical Degradation of Dimethylsilanediol in Fluvial Environments: Effects of Dissolved Organic Matter | **Aleksandar I. Goranov**, Old Dominion University, United States

3.16.P-Mo251 Comparative investigation of microplastic fiber formation from five synthetic textile fabrics under UV-A exposure | **Indumathi M Nambi**, Indian Institute of Technology Madras, India

3.16.P-Mo252 Role of Direct and Sensitized Photolysis in the Photomineralization of Dissolved Organic Matter and Model Chromophores to Carbon Dioxide | **Shelby Buckley**, ETH Zurich, Switzerland

3.16.P-Mo253 The Role of Lipids in the Photoinactivation of Enveloped Viruses | **Eliane Ballmer**, ETH Zurich, Switzerland

Chemical Emissions and Associated Environmental Impacts from Offshore Energy Production | Anna Ebeling, Daniel Profrock, Bavo De Witte, Ingo Weinberg

3.18.P-Mo254 Regulation of Chemical Emissions from Offshore Wind Farms: An Overview and Comparison for the North Sea Region | **Ingo Weinberg**, Federal Maritime and Hydrographic Agency (BSH), Marine Sciences Department, Germany

3.18.P-Mo255 Techniques to Avoid or Minimize Chemical Emissions from Offshore Wind Facilities | **Ingo Weinberg**, Federal Maritime and Hydrographic Agency (BSH), Marine Sciences Department, Germany

3.18.P-Mo256 Strategies for Emission Monitoring in Offshore Renewable Energy | **Anna Ebeling**, Helmholtz-Zentrum Hereon, Germany

3.18.P-Mo257 Occurrence of organophosphate esters, benzotriazoles, phenols and primary aromatic diamines in offshore windfarm areas from the North Sea | **Pablo Zapata-Corella**, French National Institute for Ocean Science and Technology (Ifremer), Atlantic Center, Chemical Contamination of Marine Ecosystems Unit (CCEM), France

3.18.P-Mo258 Microplastics and Offshore Wind: Context and First Data from the Belgian North Sea | **Alexa Zonderman**, Helmholtz-Zentrum Hereon, Germany

3.18.P-Mo259 Ecological impacts of wind turbine blade erosion on blue mussels (Mytilus edulis) | **Daria Bedulina**, Department of Integrative Ecophysiology, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Germany

3.18.P-Mo260 Analysis of coating particles from offshore wind farms in sediment samples | **Elena Hengstmann**, Federal Maritime and Hydrographic Agency (BSH), Germany

3.18.P-Mo261 Settling velocities of particle emissions from offshore wind farms | **Niklas Czerner**, TU Braunschweig, Germany

3.18.P-Mo262 Assessing the environmental risks of offshore hydrogen production using energy from offshore wind farm: An anticipatory approach. | **Tiphaine Labed-Veydert**, France Energies Marines, France

3.18.P-Mo263 Microbial Assays for Risk Assessment to Evaluate Toxicity of Chemicals and Environmental Samples | **Kirit Wadhia**, NOV, United Kingdom

3.18.P-Mo264 Possible ecotoxicological effects of wind turbines | **Joachim Sturve**, Dept of Biological and Environmental Sciences, Gothenburg University, Sweden

3.18.P-Mo265 Applying frameworks for risk assessment of hydrocarbon streams and feeds to alternative non crude oil-based feeds | **Louise Camenzuli**, ExxonMobil Petroleum & Chemical BV, Belgium

Analysis and Monitoring of Per- and Polyfluoroalkyl Substances (PFAS): Challenges, Standardization and Innovative Analytical Approaches | Lara Cioni, Björn Meermann, David Schaffert, Sara Ghorbani Gorji

3.24.P-Mo266 Monitoring PFASs and Alternatives in Seafood: Analytical Method Development and Effects of Cooking Processes | **Younglim Kho**, Eulji University, "Korea, Republic of"

3.24.P-Mo267 Identification of Neutral Fluorotelomer Substances in Sediment using Gas Chromatography-Atmospheric Pressure Chemical Ionization-Ion Mobility-Mass Spectrometry | **Xiaodi Shi**, Stockholm University, Sweden

3.24.P-Mo268 Exploring the detection capability of PFAS using high-resolution mass spectrometry | **Juan F. Ayala-Cabrera**, Plentzia Marine Station, University of the Basque Country, Spain

3.24.P-Mo269 A novel PFAS workflow for comprehensive analysis and fingerprinting of contaminated areas | **Jan Jordens**, VITO, Belgium

3.24.P-Mo270 Enhancing Per- and Polyfluoroalkyl Substance (PFAS) Analysis Efficiency in Solid and Liquid Matrices Using Automated Online SPE and LC-MS/MS | **Lilit Ispiryan**, Trajan Scientific and Medical, Australia

3.24.P-Mo271 Quantification and Identification of PFAS substances in dilute solutions by 19F-NMR spectroscopy | **David Schaffert**, BASF SE, Analytical and Material Science, Germany

3.24.P-Mo272 PFOA sensor | **Ambika Selvaraj**, Faculty, Department of Civil Engineering, Indian Institute of Technology Hyderabad , Adjunct Faculty, Department of Climate Change, Indian Institute of Technology Hyderabad, Adjunct Faculty, Greenko School of Sustainability, Indian Institute of Technology, India

3.24.P-Mo273 Ultrashort Chain and Highly Polar PFAS Analysis: Development of Methodology for the Determination of Residues in Human and Environmental Samples | **Stephen Brewin**, Labcorp, United Kingdom

3.24.P-Mo274 Who doesn't love dilute and shoot? Robust methodologies for analyzing PFAS in varying matricies | **Tom Hey**, PerkinElmer, Canada

3.24.P-Mo275 Evaluation of DESI mounted on Q-Tof and TQ mass spectrometers to image PFAS compounds in different matrices | **michael mccullagh**, Waters Corporation, USA

3.24.P-Mo276 Harnessing the Power of Mass Spectrometry and Automation to Reduce Sample Size, Sample Preparation Time and Increase Laboratory Efficiency | **Claudia Rathmann**, Waters Corporation, Germany

3.24.P-Mo277 Identification and Quantification of Ultra-Short Chain and Short Chain Per and Polyfluorinated Alkyl Substances (PFAS) Using Ion Ratios With Low Mass product Ions In a Single LC-MS/MS Run | **Claudia Rathmann**, Waters Corporation, Germany

3.24.P-Mo278 Ultra-sensitive PFAS analysis according to EU regulations in drinking water | **Philippe Diederich**, Bruker Daltonics Gmbh & Co KG, Germany

3.24.P-Mo279 Expanding the Analytical Toolbox for Environmental Monitoring: Volatile PFAS Analysis in Surface Water Using Triple Quadrupole GC/MS | **Michael Rothaupt**, Agilent Technologies Inc, Switzerland

3.24.P-Mo280 Analysis of Ultra-Short PFAS Using the Latest LC/TQ | **Day Powell**, United Kingdom

3.24.P-Mo281 Automated Workflow for PFAS Quantitation in Seafood: Enhancing Precision, Efficiency, and Compliance | **Marcus Chadha**, Agilent Technologies, Inc., United Kingdom

3.24.P-Mo282 Comparing Data Dependent and Data Independent Workflows for Per- and Polyfluoroalkyl Substances Analysis of NIST Interlaboratory Study Samples | **Shi-Fen Xu**, Agilent Technologies, Finland

3.24.P-Mo283 Evaluating TD-GC-MS/MS For Measuring PFAS In Air | **Chris Llewellyn**, Markes International Ltd., United Kingdom

3.24.P-Mo284 enviPath-PFAS: A Publicly Available, Expert-Curated Database and Pathway Prediction System for Biotransformations of Precursors to Persistent Perfluorinated Alkyl Substances (PFASs) | **Stephanie Rich**, University of Zurich, Switzerland

3.24.P-Mo285 Per- and polyfluoroalkyl substances (PFAS) in ski waxes and snow from cross-country skiing in Germany - Comparative study of target analysis and sum parameters | **Christian Vogel**, Bundesanstalt für Materialforschung und -prüfung (BAM), Germany

3.24.P-Mo286 Detection, quantification, and treatment of per- and polyfluoroalkyl substances (PFAS) in groundwater (DFEAT-PFAS) | **Christian Vogel**, Bundesanstalt für Materialforschung und -prüfung (BAM), Germany

3.24.P-Mo287 Investigating the Release and Fate of Poly- and Perfluoroalkyl Substances (PFAS) in Wastewater Treatment Works by Using Diffusive Gradient in Thin-film (DGT) Passive Samplers | **Rafael Georgiou**, Lancaster University, United Kingdom

3.24.P-Mo288 Analysis and Monitoring of Per- and polyfluoroalkyl substances (PFAS) levels in Drinking Water: Method Validation and Application in a Real Case Study | **Belen Gonzalez-Gaya**, Research Centre for Experimental Marine Biology and Biotechnology, University of the Basque Country (PiE-UPV/EHU), Spain

3.24.P-Mo289 Declining Trends of PFASs in the Pearl River Estuary, China: Insights from Oyster-Based Biomonitoring (2015-2020) | **Huizhen Li**, Jinan University, China (Mainland)

3.24.P-Mo290 Leaching of PFAS from soil to groundwater in the Netherlands: Potential implications and measures for Dutch drinking water | **Louise van Mourik**, National Institute for Public Health and the Environment (RIVM), Netherlands

3.24.P-Mo291 Monitoring of Per- and Polyfluoroalkyl Substances (PFAS) in German Wolves (Canis lupus) | **Bernd Gockener**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

3.24.P-Mo292 The Role of Sea Spray Aerosols in the Atmospheric Transport of Perfluoroalkyl Acids to the Arctic | **Bo Sha**, Stockholm University, Sweden

3.24.P-Mo293 The INBO Fish Tissue Collection: a Historical Resource | **Lies Teunen**, Research Institute for Nature and Forest, Belgium

3.24.P-Mo294 Looking Back on PFAS Contamination in 'Historical' Eel Samples From Flanders, Belgium (2000-2008) and the Comparison to More Recent Results | **Lies Teunen**, Research Institute for Nature and Forest, Belgium

3.24.P-Mo295 PFAS pollution in fish and water from the United Kingdom and Spain: temporal trends and implications for human dietary exposure | **Eva Junque**, University of Birmingham, United Kingdom

3.24.P-Mo296 Quantifying PFAS Release From Solar Panels During the Use Phase | **Lars Michael Skjolding**, Department of Environmental and Resource Engineering, Technical University of Denmark, Denmark

3.24.P-Mo297 Spatial and seasonal characterization of 17 PFAS in two different estuarine systems along the Portuguese coast | **Vania Amorim**, Interdisciplinary Centre for Marine and Environmental Research (CIIMAR/CIMAR), University of Porto, Portugal

3.24.P-Mo298 Evaluating the adsorption performance of activated carbon for in-situ remediation at PFAS contaminated sites | **Ariette Schierz**, Helmholtz Centre for Environmental Research (UFZ), Department of Technical Biogeochemistry, Germany

3.24.P-Mo299 In-depth per- and polyfluoroalkyl substances (PFAS) assessment in marine organisms from the Seine Estuary (France) using suspect and non-target approaches | **Ninon Serre**, French National Institute for Ocean Science and Technology (Ifremer), Atlantic Center, Chemical Contamination of Marine Ecosystems Unit (CCEM), France

3.24.P-Mo300 Assessment of PFAS adsorption in PBAT bio-based microplastics | **Sonia Gaaied**, Department for Sustainable Food Process (DiSTAS), Universit Cattolica del Sacro Cuore, Italy

3.24.P-Mo301 Isolation of PFAS-degrading bacteria and assessment of microbial diversity in contaminated soil in North Italy | **Sonia Gaaied**, Department for Sustainable Food Process (DiSTAS), Universit Cattolica del Sacro Cuore, Italy

3.24.P-Mo302 Expanding the Search for PFAS in San Francisco Bay: Emerging Trends in Surface Water and Sediment | **Miguel Mendez**, San Francisco Estuary Institute, United States

3.24.P-Mo303 Estimation of Background Contamination with Per- and Polyfluorinated Substances (PFAS) in Various Environmental Matrices by Measuring Plants, Soil and Water Samples From two National Parks in Austria | **Oliver Mann**, ESW Consulting Wruss ZT GmbH, Austria

3.24.P-Mo304 Validation of a method for assessing Per- and Polyfluoroalkyl Substances (PFAS) in human serum from South Florida (USA) populations using online SPE-LC-MS/MS | **Carolina Cuchimaque**, Florida International University, United States

3.24.P-Mo305 Assessment of PFAS contamination in German soils: Non-target identification, total oxidizable precursor assay and microcosm studies | **Joel Fabregat-Palau**, University of Tuebingen, Germany

3.24.P-Mo306 Impacts of sea spray aerosol transport of perfluoroalkyl acids (PFAAs) on coastal regions | **Theresa Doring**, Stockholm University, Sweden

3.24.P-Mo308 Determination of persistent and mobile organic compounds in the river-groundwater interface of the Bes´os river delta, Spain, using a wide extraction approach | **Marinella Farre**, ON-HEALTH group, Institute for Environmental Assessment and Water Research (IDAEA-CSIC), Spain

3.24.P-Mo309 PFAS in the Air: Insights from the Belgian Frontline | **Stefan Voorspoels**, VITO, Belgium

3.24.P-Mo310 Distribution and Characteristics of Per- and Polyfluoroalkyl Substances (PFASs) in Surface Waters of the Western Pacific Ocean | **MENG-DER FANG**, Green Energy and Environment Research Laboratories, Industrial Technology Research Institute, Taiwan (Greater China)

3.24.P-Mo311 Advanced Modeling of PFAS Sorption in Soils Through Machine Learning | **Amirhossein Ershadi**, Universty of Tuebingen, Germany

POSTER AREA 2 (Hall X3, Level -2)

Non Target Arthropods: A New European Risk Assessment Guidance on the Rise | Stefan Kimmel, Ivo Roessink, Michael Marx

4.05.P-Mo315 The Effect of Targeted Vegetation Sampling on Diversity and Variation of Mite Populations | **Melanie Hagen-Kissling**, Eurofins MITOX B.V., Netherlands

4.05.P-Mo316 Non-Target Arthropods: Effect of Sampling Effort on the Data Quality in Higher-tier Field Studies | **Melanie Hagen-Kissling**, Eurofins MITOX B.V., Germany

4.05.P-Mo317 Non-Target Arthropods: Differences in Sensitivity to Pesticide Treatment In-Field vs. Off-Crop? | **Melanie Hagen-Kissling**, Eurofins MITOX B.V., Netherlands

4.05.P-Mo318 Proposing Data Quality Criteria for Environmental Stressor Identification on Insect Biodiversity | **Carola Schriever**, BASF SE, Germany

4.05.P-Mo319 Establishing Normal Operating Ranges of Key Non-Target Arthropod Taxa: Comparison of Approaches and Taxonomic Resolution | **Oliver Jakoby**, RIFCON GmbH, Germany

4.05.P-Mo320 The impact of selected plant protection products on two Coleoptera species: Aleochara bilineata and Poecilus cupreus | **Pawel Pieczka**, Iukasiewicz-IPO Branch Pszczyna, Poland

4.05.P-Mo321 Moving forward on NTA ERA: Contributions to assessing the inter-species sensitivity to insecticides | **Steven Droge**, Team Environmental Risk Assessment, Wageningen Environmental Research, Wageningen University and Research, Netherlands

4.05.P-Mo322 How do Landscape Compositions Influence Pesticide Effects in Landscape Models? | **Leonhard Bürger**, Osnabrück University, Germany

4.05.P-Mo323 Modelling the Accumulated External Pesticide Load of NTAs- Spatial and Trait-Specific Patterns for In-Field and Specific Off-Field Scenarios | **Thomas Preuss**, Bayer AG, Germany

4.05.P-Mo324 Hoverfly decline in the context of landscape intensification | **Michael Thomas Marx**, Bayer AG, Germany

Bioremediation and Phytoremediation for Recovering Ecosystems From Legacy and Emerging Contaminants | Anna Barra Caracciolo, Isabel Cadena Aizaga, Rayco Guedes-Alonso, Jose Julio Ortega-Calvo

4.06.P-Mo326 Organic amendments and Forest restoration as a nature based solution for recovering a construction site area with spoil material treated with lime | **Anna Barra Caracciolo**, Water Research Institute-National Research Council, Italy

4.06.P-Mo327 Compost effectiveness in improving soil quality and plant growth in an agricultural soil contaminated by antibiotics and copper | **Anna Barra Caracciolo**, Water Research Institute, National Research Council (IRSA-CNR), Italy

4.06.P-Mo328 Plant-assisted bioremediation and Bio-augmentation treatments for recovering multi-contaminated soils | **Cristina Cavone**, Water research Institute, Italian National Reserach Council, Italy

4.06.P-Mo329 Assessment of microplastic effects on Plant Assisted Bioremediation strategy for recovering contaminated soils | **Valeria Ancona**, Construction Technology Institute, Italian National Research Council, Italy

4.06.P-Mo330 Collaborative approaches to water management: Bridging the Global North and South | **Pedro Carvalho**, Department of Environmental Science, Aarhus University, Denmark

4.06.P-Mo331 Potential of Bivalves for Bioremediation of Wastewater - Comparative Assessment of Biofiltration and Biosorption | **Joana Luisa Pereira**, University of Aveiro, Portugal

4.06.P-Mo332 Sorption of Road Runoff Pollutants to Wood-Derived Biochars | **Xiangyu Ji**, Helmholtz Centre for Environmental Research (UFZ), Department of Applied Microbial Ecology, Germany

4.06.P-Mo333 Industrial Hemp (Cannabis sativa) as a Dual-Purpose Solution for Soil Remediation and Bioenergy Production in Sewage Sludge-Amended Soils | **Inesa Kniuipyte**, Laboratory of Heat Equipment Research and Testing, Lithuanian Energy Institute, Lithuania

4.06.P-Mo334 How persistent are persistent organic pollutants in soil? Exploring bioavailability | **Jose Julio Ortega-Calvo**, Institute of Natural Resources and Agrobiology of Seville - Spanish National Research Council (IRNAS-CSIC), Spain

4.06.P-Mo335 Influence of a natural nonionic surfactant on biodegradation of slowly desorbing PAHs in contaminated soil | **Rosa Posada-Baquero**, Instituto de Recursos Naturales y Agrobiolog a de Sevilla (IRNAS-CSIC), Spain

4.06.P-Mo336 Improving remediation of military-contaminated soil by natural-based solutions | **Carmen Fernandez-Lopez**, Centro Universitario de la Defensa-Universidad Politecnica de Cartagena (CUD-UPCT), Spain

4.06.P-Mo337 Metagenomic and Metatranscriptomic Analyses of a Bacterial Consortium for the Bioremediation of Total Petroleum Hydrocarbons Polluted soil | **Rafael Rivilla**, UAM, Spain

4.06.P-Mo338 Shotgun metagenomic analysis of microbial community profiles and functions in petroleum hydrocarbon-polluted soils | **Chidinma Okafor**, IMO State University, Nigeria

4.06.P-Mo339 Assessing the Impact of Metals on Ecotoxicological Responses, Biomarkers, and Bioaccumulation in Ceratophyllum demersum: Implications for Phytoremediation Strategies | **Walter di marzio**, PRIET DCB UNLU CONICET, Argentina

4.06.P-Mo340 A Phytoremediation Mesocosm Using Aquatic Macrophyte Species at Different Plant Densities: First Results | **Walter Dario Di Marzio**, PRIET - Depto Cs Bs UNLu CONICET, Argentina

4.06.P-Mo341 LIFE PFASTER (PFAS systemic regional approach to Assess Spatial distribution, Transfer, Exposure and Remediation of wide-spread pollution in Willebroek, Flanders) | **John, Lies van Tol, Teunen**, TAUW bv, Flemish Research Institute for Nature and Forest (INBO), Netherlands, Belgium

4.06.P-Mo342 Remediation of PFAS contaminated soil using the novel combination of biochar sorbent stabilization and phytoaccumulation: First insights | **Ingrid Rijk**, orebro University, Sweden

4.06.P-Mo343 What biochar properties determine sorption strength of perfluorooctanoic acid (PFOA) to 23 biochars produced from various organic waste types? | **Hans Peter Arp**, Norwegian Geotechnical Institute (NGI), Norwegian University of Science and Technology (NTNU), Norway

4.06.P-Mo344 Potentially Toxic Elements Distribution and In Vitro Bioaccessibility at House Fire Impacted Sites on Gitxsan Territory (Hazelton), British Columbia, Canada | **Matt Dodd**, Royal Roads University, Canada

Advancing Treatment of Organic Micropollutants in Water and Wastewater | Sanjeeb Mohapatra, Marc Teixido Planes, Gabriel Sigmund, Sanne Smith

4.07.P-Mo345 Characterization and removal of contaminants of emerging concern (CECs) during the biological treatment of wastewater batches from individual wastewater treatment systems | **Paula Yumi Takeda**, University of S o Paulo, Brazil

4.07.P-Mo346 Wide-scope suspect screening of 24 sewage treatment plants | **Nienke Meekel**, KWR Water Research Institute | Vrije Universiteit Amsterdam, Netherlands

4.07.P-Mo347 Understanding the Influence of Micro and Nano plastics (PP, PE, and PS) on MBR Performance: A Comprehensive Study | **Imane Fellahi**, IMDEA Water Institute Chemical Engineering Department, University of Alcala, Spain

4.07.P-Mo349 Biotransformation and Biodefluorination of n:3 Fluorotelomer Acids in Sludge-Derived Enrichment Culture | **Anindya Dey**, McGill University, Canada

4.07.P-Mo351 Can Wastewater Treatment Plants' mitigate microplastic contaminations? - A comparative study of sludge treatments. | **Asta Poulsen**, Roskilde University, Denmark

4.07.P-Mo352 Effect of Thermal Hydrolysis on the Behaviour of Target Organic Micropollutants in Sewage Sludge | **Andrea Deiana**, Section Sanitary Engineering, Department of Water Management, Delft University of Technology, Netherlands

4.07.P-Mo353 Sorption and Biodegradation of Organic Micropollutants in Aerobic Granular Sludge | **Nora Sutton**, Environmental Technology, Wageningen University & Research (WUR), Netherlands

4.07.P-Mo354 Removal of Persistent, Mobile, Organic Compounds (PMOC) Using Activated Sludge-Based Hydrochars in a Decentralized Municipal Wastewater System | **Sampriti Chaudhuri**, Department of Technical Biogeochemistry, Helmholtz Centre for Environmental Research GmbH UFZ, Germany

4.07.P-Mo355 Biochar as a Green Remediation Approach for Per- and Polyfluoroalkyl Substances in Contaminated Stormwater | **Alberto Celma**, Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU), Sweden

4.07.P-Mo356 Understanding Sorption and Enhancing Sorption of OMPs in Soils to Optimize Nature-Based OMP Removal in Drinking Water Treatment | **Anne van Dalen**, Wageningen University and Research (WUR), Netherlands

4.07.P-Mo357 Photochemical degradation of a mixture of pharmaceuticals in wastewater | **Sanjeeb Mohapatra**, National University of Singapore (NUS), Singapore

4.07.P-Mo358 Treatment of pharmaceutical industry wastewater using peroxydisulfate activated by nano-scale zero valent iron | **Adam Loos**, Department of Environmental Chemistry, University of Chemistry and Technology Prague, Czech Republic

4.07.P-Mo359 Removal of Perfluorooctanoic Acid using Biopolymer Functionalized Graphene Oxide Nanocomposites: Isotherm, Kinetics, and Thermodynamics | **Byomkesh Mahanty**, Indian Institute of Technology Patna, India

4.07.P-Mo360 Preparation of green synthesized nano-catalyst for the sono-catalytic degradation of emerging organic contaminants | **Binay Kumar Tripathy**, Manipal Institute of Technology, Manipal, India

4.07.P-Mo361 Evaluation of the Environmental Toxicity of Wastewater Treated by the Emerging Solar Chlor-photo-Fenton Process for Reuse in Agricultural Irrigation | **Peter Roslev**, Department of Chemistry and Bioscience, Section of Bioresources and Process Engineering, Aalborg University, Denmark

4.07.P-Mo362 Phytotoxicity as a Tool for Evaluating Toxin Removal from Industrial Waste Following EGSB Reactor Operation | **Caroline Varella Rodrigues**, University of Sao Paulo (USP), Brazil

4.07.P-Mo363 Assessing Ecotoxicity of Textile Effluents: A Comparative Study of Electrochemical Ozone Oxidation (ECOOP) and conventional Treatments with Focus on River Ecosystem Impact | **Anju Anna John**, IIT Madras, India

4.07.P-Mo364 Spatial Distribution of Pharmaceutical Compounds and Pesticides Concentration in Zarqa River, Jordan | **Hadeel Hosney**, Lecturer & Researcher in Wastewater Treatment and Reuse in Agriculture, Netherlands

4.07.P-Mo365 Evaluating Organophosphate Flame Retardant (OPFR) Removal in Drinking Water Treatment: A Multi-Site Study in England and Wales | **Megan Griffiths**, Ricardo, United Kingdom

4.07.P-Mo366 Removal of micropollutants in Phytoparking pilot: insights from the MULTISOURCE project | **Vaidotas Kisielius**, Aarhus University, Department of Environmental Science, Denmark

4.07.P-Mo367 Novel Laser Pre-structured Silicon Filters for Micro and Nanoplastics Analysis | **Korinna Altmann**, Federal Institute for Materials Research and Testing (BAM), Germany

4.07.P-Mo368 Co-benefit or antagonisms of a reed filter for water treatment and biodiversity? | **Juliette Fabure**, University of Paris-Saclay, INRAE, AgroParisTech, UMR ECOSYS, France

4.07.P-Mo369 Simultaneous Partial Nitritation, Anammox and Denitrification Reactor: A Focus on Alkalinity Availability Under Mainstream Conditions | **Paula Yumi Takeda**, University of S o Paulo, Brazil

4.07.P-Mo370 Aqueous Phase Mitigation of Chemical Oxygen Demand in Wastewater using Adsorbents from Delonix regia Pod Husks | **Emmanuel Onche**, Joseph Sarwuan Tarka University (Formerly Federal University of Agriculture, Makurdi), Nigeria

4.07.P-Mo371 Removing Chromium (VI) from wastewater with crosslinked Calciumphosphate/Chitosan/Gelatine coated Polylactic acid pellets | **Michelle Reese**, University of Potsdam, Germany

4.07.P-Mo372 Mitigation of Hydrogen Sulfide Emissions and Corrosion in Wastewater Treatment Using Ferric Chloride Foam: A Comparative Study with $FeCl_3$ Mixing | **Seung-Woo Jeong**, Kunsan National University, "Korea, Republic of"

4.07.P-Mo373 Effluent reuse in greenhouse horticulture: measures to ensure safe and sufficient irrigation water | **Stefan Kools**, KWR Water Research Institute, Netherlands

Sustainable Remediation of Mining Impacts and Critical Materials Recovery | Andrew Cundy, Mohamed Merroun, Daniele Silvestri, Miroslav Cernik

4.10.P-Mo374 Secondary minerals formed in mine impacted waters (Smolnik-Slovakia) | **Zuzana Bartova**, Institute of Geotechnics of the Slovak Academy of Sciences, Slovakia

4.10.P-Mo375 Study of Microbial Communities of mine drainage from the Maria mine in Roznava, Slovakia | **Lenka Hagarova**, Institute of Geotechnics of the Slovak Academy of Sciences, Slovakia

4.10.P-Mo376 Potential for critical element recovery using autochthonous microbial community from former mining sites | **Veronika Hlavackova**, Inst. of Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Czech Republic

4.10.P-Mo377 Performance of Sediment Bacterial Communities Upon Acid Uranium Mining: Advances for In Situ Recovery Technology | **Mohamed L Merroun**, Department of Microbiology, Faculty of Science, University of Granada, Spain

4.10.P-Mo378 Biosynthesis of selenium nanoparticles by Variovorax sp. a bacterium isolated from a former gold and copper mine | **Alena Sevcu**, Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Czech Republic

4.10.P-Mo379 Selenite Reduction by Bentonite Microbial Communities: Insights from a Long-Term Study for Deep Geological Repositories | **Cristina Povedano-Priego**, Department of Microbiology, Faculty of Science, University of Granada, Spain

4.10.P-Mo380 A Hyphal Mat Solution? Root-like Fungal Networks for Mining Waste Remediation and Metal Bioextraction | **Nhung Nguyen**, Department of Applied Biology, Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Czech Republic

4.10.P-Mo381 Circular Economy Approach for Cr^{6+} Adsorption from Water Using Black Carbon | **Mohammad Gheibi**, Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Czech Republic

4.10.P-Mo382 Low-energy electrokinetic remediation for site risk management and metal recovery | **Ruby Lunn**, University of Southampton, United Kingdom

4.10.P-Mo383 A Sustainable Hybrid Thermo-Chemical Recycling Approach for High-Performance Graphite Regeneration from Spent Lithium-ion Batteries | **Anusha Vishwakarma**, Indian Institute of Technology Patna, India

Sunscreens and Personal Care Products in the Environment: New Data and Approaches to Evaluate Environmental Risks and Possible Solutions | Carys Mitchelmore, Iain Davies, Eva Iñiguez Santamaría, Anneliese Hodge

4.15.P-Mo384 Monitoring and effects of UV-filters on diverse algal species | **Alejandra Bouzas**, University of York, United Kingdom

4.15.P-Mo385 Occurrence and Distribution of UV Filters in Sediments from the Baltic Sea | **Harshada Sakpal**, Julius Kuhn-Institut, Germany

4.15.P-Mo386 Organic UV filters detected in Coastal Waters and in the coral Acropora cervicornis on the Florida Reef Tract | **D. Abigail Renegar**, National Coral Reef Institute, Nova Southeastern University, United States

4.15.P-Mo387 Dissipation Kinetics of Ultraviolet Filters in Mesocosms and Occurrence in a Freshwater Beach on the Canadian Prairies | **Alistair Brown**, University of Manitoba, Canada

4.15.P-Mo388 Environmental fate of UV filters: comparing lake monitoring data with controlled exposure in artificial ponds | **Armin Zenker**, University of Applied Sciences Northwestern Switzerland (FHNW), School of Life Sciences, Institute of Ecopreneurship, Switzerland

4.15.P-Mo389 Freshwater Safety Assessment of UV-filters using a Spatially Resolved Aquatic Exposure Model for Down-the-Drain Substances in Europe | **Kathleen McDonough**, Procter & Gamble, USA

4.15.P-Mo390 Developing reliable standard analytical protocols for the detection of multiple organic UV filters in environmental matrices | **Carys Mitchelmore**, UMCES, CBL, United States Territories and Minor Outlying Islands

4.15.P-Mo391 Temporal and Spatial Variations of UV filters at a popular recreational beach in Florida, USA | **Carys Mitchelmore**, UMCES, CBL, United States

4.15.P-Mo392 Monitoring Campaign for Organic UV Absorbents from Recreational Sunscreens on Okinawa Beaches Using Passive Sampling with Alabaster-Cement Composite Disks, Grab Sampling, and a Questionnaire Survey | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.15.P-Mo393 Organic UV Filters in Irish Sediments and Biosolids | **Martin Sharkey**, University of Galway, Ireland

4.15.P-Mo394 The ecotoxicological effects of two contrasting UV filters derived from sunscreens (oxybenzone & nano titanium dioxide), on the temperate marine microalgae species Isochrysis galbana. | **Anneliese Hodge**, Plymouth Marine Laboratory & University of Plymouth, United Kingdom

4.15.P-Mo395 The Hidden Impact of Human Presence: Organic UV Filter Levels on an Oceanic Island Coastal Waters, Northeast Atlantic | **Eva Iniguez Santamaria**, MARE - Marine and Environmental Sciences Centre/ ARNET - Aquatic Research Network, Regional Agency for the Development of Research, Technology and Innovation (ARDITI); CIIMAR-Interdisciplinary Center of Marine and Environmental Research, University of Por, Portugal

4.15.P-Mo396 UV filters modify light colour preference in the zooplanktonic species Daphnia magma | **Carlos Barata**, IDAEA-CSIC, Spain

4.15.P-Mo397 A new approach to assessing the impact of active ingredients and cosmetic formulations on coral reefs | **Julien Bertin**, SGS France, France

4.15.P-Mo398 Advances in Standardized Ecotoxicological Testing with Scleractinian Coral Larvae | **Laura Jana Fiegel**, Environmental Biochemistry Group, Institute for Chemistry and Biology of the Marine Environment (ICBM), Carl von Ossietzky University of Oldenburg, Germany

4.15.P-Mo399 Improving the Accuracy of ex-situ Coral Growth Measurements using 3D-Scanning | **David Brefeld**, Environmental Biochemistry Group, Institute for Chemistry and Biology of the Marine Environment (ICBM), Carl von Ossietzky University Oldenburg, Germany

4.15.P-Mo400 Octocrylene shows ultimate inherent biodegradation in OECD screening tests | **Harald Streicher**, Beiersdorf AG, Germany

4.15.P-Mo401 Environmental Fate, Hazard and Risk Assessment of the Ultraviolet Filter Bemotrizinol in Water and Soil | **Ahmed Tlili**, DSM-Firmenich, Switzerland

Pushing the Limits: Incorporating Absolute Limits in Life Cycle Assessment | Andrea Paulillo, Anders Bjørn, Valeria De Laurentiis, Esther Sanye-Mengual

5.01.P-Mo402 Inclusion of Albedo-Induced Climate Impacts of Land Use in Planetary Boundaries-based Life Cycle Assessment | **Kathryn Loog**, CIRAIG, Department of Mathematical and Industrial Engineering, Polytechnique Montreal, Canada

5.01.P-Mo403 Developing Characterization Factors and Carrying Capacities for Land Use Impacts on Ecosystem Functions Provision | **Zongyue Zhang**, Section for Quantitative Sustainability Assessment, Department of Environmental and Resource Engineering, Technical University of Denmark, Denmark

5.01.P-Mo404 Land-Use-Related Biodiversity Loss Embedded in Global Mining Supply Chains | **Shuntian Wang**, ETH Zurich, Switzerland

5.01.P-Mo405 Just Allocation Principles for the Absolute Sustainability of European Battery Manufacturing | **Maeva Lavigne Philippot**, Vrije Universiteit Brussel, Belgium

5.01.P-Mo406 Bringing Together Global and Regional Biophysical Limits of the German Bioeconomy and Corresponding Bioeconomy Scenarios Facilitating Absolute Environmental Assessment of the Sector - A review | **Matthias Welker**, Helmholtz-Centre for Environmental Research (UFZ), Department of Bioenergy, Germany

5.01.P-Mo407 Operationalization of the Absolute Environmental Sustainability Assessment for the Safe and Sustainable by Design Framework: an Approach | **Sarah Devecchi**, GreenDecision S.r.l., Italy

5.01.P-Mo408 Translating Planetary Boundaries into Material-Level Life Cycle Assessments | **Xue Sun**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

5.01.P-Mo409 A Boundary for Global Abiotic Resource Use: Constraints from Limited Regional Water Availability | **Kamrul Islam**, National Institute of Advanced Industrial Science and Technology, Japan

5.01.P-Mo410 Using Absolute Limits at Regional Level: Is Flanders Living Within its Fair Share of the Planetary Boundaries? | **Karolien Peeters**, Flemish Institute for Technological Research (VITO), Belgium

5.01.P-Mo411 Challenges in Aligning the European Chemical Industry with Planetary Boundaries | **Carlos Pozo**, Rovira i Virgili University (URV), Spain

5.01.P-Mo412 Combining Life Cycle Assessment and Planetary Boundaries in the Textile Fiber Sector: Absolute Environmental Sustainability Assessment of Regenerated Cellulosic Fibers | **Juulia Suuronen**, University of Helsinki, Finland

5.01.P-Mo413 Planetary Boundaries and Absolute Sustainability in LCA - past, present and future | **Tomas Rydberg**, Swedish Environmental Research Institute (IVL), Sweden

5.01.P-Mo414 A Step Beyond Life Cycle Thinking: Linking Supply Chain With Planetary Boundaries | **Sara Toniolo**, University of Verona, Department of Management, Italy

Dimensions and Challenges of Life Cycle Assessment to Steer Innovation and Competiveness of Safe and Sustainable Chemicals and Materials | Daniela Groiss-Fuertner, Andrea Amadei, Carla Caldeira, Roland Hischier

5.02.P-Mo415 SaSo-HS tool: Leveraging Safety and Social Impact in the Safe and Sustainable by Design (SSbD) Framework | **Antonio Nogueira**, HOLOSS, Portugal

5.02.P-Mo416 Estimating the Carbon Footprint of 130,000 Organic Chemicals with FineChem2 | **Dachuan Zhang**, ETH Zurich, Switzerland

5.02.P-Mo417 A qualitative Social Life Cycle Assessment approach for early-stage Safe and Sustainable by Design (SSbD) projects | **Daniela Groiss-Fuertner**, Wood K plus, Austria

5.02.P-Mo418 Integrating risk assessment and life cycle assessment methods in a Safe and Sustainable by Design context | **Neeraj Shandilya**, TNO, Netherlands

5.02.P-Mo419 Integrating the 'Safe and Sustainable-by-Design' Principles with Life Cycle Assessment: A Practical List of Data Requirements and Approach for the Mineral Carbonation of Steel Slags Case Study | **Ponnapat Watjanatepin**, KU Leuven, Belgium

5.02.P-Mo420 Monitoring and Evaluating Sustainable Public Procurement: A Multi-Level Methodology Integrating Environmentally Extended Input-Output Analysis and Life Cycle Assessment | **Mila Garcia Valicente**, RIVM, Netherlands

5.02.P-Mo421 Integrating Agent-Based Modeling and Life Cycle Assessment for Informed Decision-Making in the Energy Transition: A Case Study on Photovoltaics | **Joris Quik**, RIVM, Netherlands

5.02.P-Mo422 Integrating BIM and LCA for sustainable high-speed rail infrastructure: A framework for early design stage environmental assessment | **Asmaa Benzidane**, ENPC, France

5.02.P-Mo423 Decision Support in Safe and Sustainable by Design: A Case Study in the Energy Storage Sector | **Claudia Mair-Bauernfeind**, Department of Environmental Systems Sciences, University of Graz, Austria

5.02.P-Mo424 Parametric life cycle assessment of lithium production: Prospective model | **Mehdi Iguider**, Universiy of Strasbourg. CNRS. IPHC UMR 7178, France

5.02.P-Mo425 Designing a Sustainable Future: Assessment of a Novel Niobium-Based Anode Material (XNO®) for Lithium-Ion Batteries Using the Safe and Sustainable by Design Framework | **Ligia da Silva Lima**, ARCHE Consulting, Belgium

5.02.P-Mo426 LCA for biowaste turned into value-added products | **Jorge Senan-Salinas**, BETA-UVIC, Spain

5.02.P-Mo427 Applying the Safe-and-Sustainable-by-Design Framework: Life Cycle and Risk Assessment of a Microalgae-Based Product | **Iratxe Fernández**, Tecnalia Research & Innovation, Spain

5.02.P-Mo428 Applying the Three Dimensions of Sustainability of the Safe and Sustainable by Design framework to Evaluate the Shift From Bisphenol-A-Based to Lignin-Based Epoxy Resins | **Astrid Stalmans**, VITO, Belgium

5.02.P-Mo429 Safe and sustainable by design (SSbD) MAX Phases and MXenes: environmental impacts comparison through Life Cycle Assessment (LCA) | **Valeria Acevedo-Garcia**, AIMEN Research Center, Spain

5.02.P-Mo430 The role of SSbD for pesticides substitution | **Phatchari Mankong**, Quantitative Sustainability Assessment, Technical University of Denmark, Denmark

5.02.P-Mo431 Comparative Assessment of Early-Stage social and critical raw material asssesment in the SSbD Framework: Addressing current generic Databases | **Ashrakat Hamed**, GreenDelta GmbH, Germany

5.02.P-Mo432 Visualization of nitrogen flow in Japan using IDEA database | **Yuki Ichisugi**, Nationl Institute of Advanced Industrial Science and Technology (AIST), Japan

5.02.P-Mo433 Integrated freshwater risks of nano-encapsulated imidacloprid versus its conventional counterpart: A life cycle perspective | **Fan Wu**, Jinan University, China (Mainland)

5.02.P-Mo434 Life cycle assessment of electronic, electric and nonelectric detonators; a site-specific case for Czech Republic | **Hana Brunhoferova**, University of Chemistry and Technology, Prague, Czech Republic

5.02.P-Mo435 A Comprehensive Life Cycle Assessment of Carbon Capture Enabled by Metal-Organic-Framework CALF-20 | **Ayse Ay**, BASF SE, Germany

5.02.P-Mo436 Dual Importance of Method and Data for Robust Sustainability Assessment: Integrating Life Cycle Assessment and Principles of Green Chemistry to Identify More Sustainable Cosmetic Product Ingredients | **Jennifer Saxe**, Kenvue, United States

Prospective Life Cycle Assessment for Safe and Sustainable by Design (SSbD) Innovations | Nils Thonemann, Alexis Laurent, Jorge Senan-Salinas, Heather Logan

5.03.P-Mo437 SSbD Approach to Enhance the Environmental Sustainability of Industrial Washing Processes through Usage Biodegradable Detergent Based on Life Cycle Assessment | **Anastasiia Timofeeva**, University of Bologna, Italy

5.03.P-Mo438 Prospective Life Cycle Assessment of Advanced Materials - The case study of graphene oxide in drinking water filters | **Rayén Mentler**, TEMAS Solutions GmbH, Switzerland

5.03.P-Mo439 Prospective Life Cycle Assessment of a Modular Shared Autonomous Vehicle production phase | **Albert Jan van Zuilichem**, Technical University Darmstadt, Germany

5.03.P-Mo440 Ex-ante Life Cycle Assessment of Lipids Extraction from Insect Biomass | **Francesco Celauro**, University of Bologna, Italy

5.03.P-Mo441 Revealing Biodiversity Impacts of Land Use Intensification: A Spatio-temporally resolved Global Assessment (2005-2019) | **Veronika Schlosser**, Technical University Munich, Germany

5.03.P-Mo442 Influence of Different Uncertainties Types in Prospective LCA: A Case Study on Organic Active Materials for Flow Batteries | **Julia Wenger**, Science, Technology and Society Unit, Graz University of Technology; Department of Environmental Systems Sciences, University of Graz, Austria

5.03.P-Mo443 Implementing prospective life cycle assessment in process systems engineering: A case study of bio-based acrylic acid production from wheat straw through thermo-mechanical pulp mill side stream | **Safdar Abbas**, Institute of Process Engineering, Environmental Engineering and Technical Biosciences, TU Wien, Austria

5.03.P-Mo444 Generative Multi-Agent Framework for Prospective Life Cycle Assessment Aligned with Safe and Sustainable by Design Principles | **Jinliang Xie**, Tsinghua University, China (Mainland)

5.03.P-Mo445 ProScale-E: Ecotoxicity potential assessment, from method development to application | **Rosella Telaretti Leggieri**, Swedish Environmental Research Institute (IVL), Sweden

5.03.P-Mo446 Advancing Maritime and Aviation Fuels Through Prospective LCA: A Safe and Sustainable by Design Approach | **Samaneh Fayyaz**, SDU-IGT, Denmark

5.03.P-Mo447 Toward circular shifting of phosphate mining industry in Morocco: Scenarios and prospective LCA | **Safa Rachid**, Mohemmed VI polytechnic university, Morocco

5.03.P-Mo448 Evaluating Sustainability: Life Cycle Assessment of Hybrid Biological-Inorganic Systems for Safe Nitrogen Recovery from Wastewater | **Hadis Marami**, SDU-IGT, Denmark

Exploring Earth System Boundaries and Staying within those Boundaries for Chemical Pollutants | Miriam Diamond, Anna Shalin, Zhanyun Wang

6.01.P-Mo449 Moving Forward with Safe and Just Earth System Boundaries for Chemical Pollutants | **Miriam Diamond**, University of Toronto, Canada

6.01.P-Mo450 Outside the Safe Operating Space of a New Planetary Boundary for PFAS: An Update | **Ian Cousins**, Stockholm University, Sweden

6.01.P-Mo451 The Global Threat from the Irreversible Accumulation of Trifluoroacetic Acid (TFA) | **Hans Peter Arp**, Norwegian Geotechnical Institute (NGI), Oslo and Department of Chemistry, Norwegian University of Science and Technology (NTNU), Norway

6.01.P-Mo452 A multidisciplinary perspective on the role of plastic pollution in the triple planetary crisis | **Annika Jahnke**, Helmholtz Center for Environmental Research (UFZ), Germany

6.01.P-Mo453 Combining methods to characterize the planetary boundary for chemical pollution | **Leo Posthuma**, RIVM/DMG and Radboud University, Netherlands

6.01.P-Mo454 Where is the Greta Thunberg for Chemicals? A Discussion on Effective Advocacy and the Importance of Youth Perspectives in Earth System Boundaries | **Anna Shalin**, University of Toronto, Canada

Tackling the Triple Planetary Crisis: Implementing Lessons Learned from the Past 30 Years of Research and Regulations to Solve Present Challenges | Lonneke van Leeuwen, Ronny Blust, Emily Garman, Leo Posthuma

6.02.P-Mo455 Key elements of a Sustainable and Protective Chemical Control Strategy | **Marlene Ågerstrand**, Stockholm University, Sweden

6.02.P-Mo456 Assessing EU's Legal Frameworks: Hazard Classification and Data Generation under CLP Criteria | **Mathilda Andreassen**, Department of Environmental Science, Stockholm University, Sweden

6.02.P-Mo457 Assessing Risks to Biodiversity from Exposure to Chemicals: ECETOC Task Force Findings and Next Steps | **Lorraine Maltby**, University of Sheffield, United Kingdom

6.02.P-Mo458 RE-MIX: Options to assess and REgulate chemical MIXtures - A new PARC cooperation towards regulatory solutions | **Marion Junghans**, Swiss Ecotoxcentre, Switzerland

6.02.P-Mo459 Co-occurrence of chemicals in the environment and their mixture risks - (first results from) a literature review | **Marius Schubert**, UBA, Germany

6.02.P-Mo460 Screening Concept for the Hazard Assessment of Green Platform Chemicals | **Simone Muhlegger**, Regulatory (eco)toxicologist, Austria

6.02.P-Mo461 Survey of Green Platform Chemicals | **Josef Kerschbaum**, TU Wien, Austria

Scientific Input to the New Global Science-Policy Panel | Marlene Ågerstrand, Katerina Sebkova, Marta Venier, Gabriel Sigmund

6.03.P-Mo462 A Systems Analysis of the European Green Deal: Policy Framework and Science-Policy Interface for Global Environmental Governance | **Ayazhan Nurpeiis**, Tsinghua University, School of Environment, China (Mainland)

6.03.P-Mo463 Defining Intrinsic Chemical Properties in the context of Global Chemical Regulations | **Hans Peter Arp**, NGI/NTNU, Norway

6.03.P-Mo464 Considerations on Chemicals Sound Management | **Anahit Aleksandryan**, Ministry of Environment of the Republic of Armenia, Armenia

6.03.P-Mo465 Translating Lessons Learnt from Communicating Microplastic-Related Research to Chemicals: Making the Invisible Visible | **Annika Jahnke**, Helmholtz Center for Environmental Research (UFZ), Germany

6.03.P-Mo467 Evidence and Insights From Cross-disciplinarians on the New Multi-disciplinary Science Skills and Expertise Needed for the UN Science-Policy Panel on Chemicals, Waste and Pollution Prevention | **Frank Adiga**, UCL/Amentum, United Kingdom

6.03.P-Mo468 Bridging the Knowledge Gap on Plastic Pellet Releases: A Case Study in the Port of Antwerp, Belgium | **Hanne Diels**, University of Antwerp, Belgium

6.03.P-Mo469 Can Unintentional Emissions in China Explain the Rapid Rise of Global Atmospheric Contamination with Hexachlorobutadiene? | **Chengkang Chen**, University of Toronto Scarborough, Canada

6.03.P-Mo470 Matrixing of use categories and analysis on comprehensive risk indicator for each category | **Yoshitaka Imaizumi**, National Institute for Environmental Studies (NIES), Japan

6.03.P-Mo471 Hidden in plain sight - Solvents masking persistent solutes | **Carl Clarke**, Centre for Environment, Fisheries and Aquaculture Science (Cefas), United Kingdom

6.03.P-Mo472 Overview of current key projects and research networks linking chemical pollution and biodiversity change in Europe | **Henner Hollert**, Faculty of Biological Sciences, Goethe University Frankfurt, Germany

6.03.P-Mo473 Reevaluating New and Existing Challenges That Early Career Researchers Face Across Regulatory Ecotoxicology | **Harry Bond-Taylor**, University of Sheffield, United Kingdom

Framework for Post-Conflict Environmental Damage Assessment | Richard Wenning, Ted Tomasi

7.01.P-Mo474 Applying the US Natural Resource Damage Assessment Framework to Post-Conflict Damage Assessment | **Richard Wenning**, Wenning Environmental LLC, USA

7.01.P-Mo475 Assessment of Environmental Impacts Due to the War in Ukraine | **Fuyuki Hayashi**, Waseda University, Japan

7.01.P-Mo476 Environmental Resilience during Prolonged Armed Conflict | **Tatiana Biloborodova**, Academia, Ukraine

Get involved in SETAC Europe!

As a member society, we rely on enthusiastic individuals who are willing to volunteer their time by joining a standing committee. We welcome professional members, students, and recent graduates who want to share their expertise and help guide SETAC Europe in areas such as **science, education, diversity and inclusion, awards, branches, and financial matters**.

This is a great opportunity to contribute to SETAC Europe, help shape its future, and connect with a network of like-minded professionals!

Explore our standing committees and express your interest by 22 May.

TUESDAY SCHEDULE		
08:30–18:15	Badge Pick-Up, Registration & Cloakroom	Entrance Hall
08:30–18:15	Speaker Ready Room	0.12
08:30–09:30	Poster Setup	Exhibition Hall
08:30-12:55	Corteva Business Meetings	0.11
08:30-18:00	ibacon Business Meetings	0.45
08:30-18:15	FERA Science Business Meetings	0.16
09:00–10:00	IBERA Breakfast Information Session	Hall L1
08:30–12:30	Job Event	0.49-0.50
09:30–10:50	**Presentation Sessions**	
10:50–11:35	Coffee & Poster Break	Exhibition Hall
11:00-12:00	Omics Interest Group Meeting	0.96-0.97
11:35–12:55	**Presentation Sessions**	
12:15-13:45	Eurometaux	0.96-0.97
12:55–14:25	Lunch & Poster Break	Exhibition Hall
12:55–14:25	ET&C and IEAM Joint Editorial Meeting	0.14
12:55–14:25	Sciex Sponsored Lunch Seminar	Hall L1
12:55–14:25	Labcorp Sponsored Lunch Seminar	Hall L2
12:55–14:25	Agilent Sponsored Lunch Seminar	Hall L3
14:25–15:45	**Presentation Sessions**	
14:30–16:00	Regional Branches Committee Meeting	0.14
15:00–17:00	Taiwan's Ministry of Environment: Carbon Footprint Database and Exchange Opportunities	0.96-0.97
15:30–16:30	SETAC Europe Science Committee Meeting	0.51
15:45–16:45	Coffee & Poster Break	Exhibition Hall
16:00–16:45	**Poster Corners**	**Foyer D**
16:00–17:30	Pharmaceuticals Interest Group Meeting	Hall D2
16:00–18:00	Animal Alternatives Interest Group Meeting	0.49-0.50
16:00–18:00	Metals Interest Group Meeting	Hall L1
16:00–18:00	Persistence Science Interest Group Meeting	0.14
16:30–17:30	SETAC Europe Awards Committee Meeting	0.51
16:45–17:45	**Tuesday Plenary: Marco Baity-Jesi**	**Hall E**
17:45–18:15	**Poster Social**	**Exhibition Hall**
19:30–22:00	Strauss Dinner Show	Straus Dinner Show (Prater 75)
21:00 - ...	SETAC Party (entrance closes at 23:30)	Ottakringer Brewery

Plenary Speaker

16:45–17:45 | Hall E

A Roadmap for Machine Learning in Predictive Ecotoxicology

Marco Baity-Jesi, Eawag, Switzerland

Marco Baity-Jesi is a theoretical physicist specialized in machine learning and complex systems, with applications in environmental sciences and toxicology. At Eawag, the Swiss Federal Institute of Aquatic Science and Technology, he leads the Machine Learning & Complex Systems Research Group, where he develops computational methods to analyze ecological and water quality challenges, including the prediction of chemical toxicity and pollutant behavior. His academic background is rooted in the study of high-dimensional systems. He earned his Ph.D. in physics from Universidad Complutense de Madrid and Sapienza University of Rome, where he worked under the supervision of Víctor Martín-Mayor and Nobel laureate Giorgio Parisi, focusing on criticality and energy landscapes in complex systems. His postdoctoral research at CEA Saclay and École Normale Supérieure in Paris expanded into the study of deep neural networks, before he moved to Columbia University in the City of New York to explore the dynamics of deep learning and interacting systems with a large number of degrees of freedom. Since joining Eawag in 2019, Baity-Jesi has been integrating machine learning techniques with environmental research to improve data-driven assessments of chemical and ecological risks. His research contributes to a broader understanding of predictive modeling in environmental science, bridging theoretical approaches with practical applications in toxicology and water research.

★ Special Session

09:30-10:50 | Hall F2

8.03 - European Commission Roadmap Towards Phasing Out Animal Testing for Chemical Safety Assessments: State of the Process and How Can the SETAC Community Contribute

Georg Streck, Adam Lillicrap, Bruno Campos, Jose V. Tarazona

Currently, we are witnessing increased scientific and social movement with a desire to accelerate the uptake of non-animal methods to support chemical safety. A good example of this is the European Citizens Initiative, "Save Cruelty-Free Cosmetics – Commit to a Europe Without Animal Testing," which was signed by more than one million European citizens last year. In response to this, the European Commission committed to develop a roadmap towards phasing out animal testing for chemical safety assessments. This is intended to be a policy document which will outline milestones and specific actions, addressing all relevant pieces of chemical legislation currently requiring animal testing for chemical safety assessments. The roadmap will outline the path to expand and accelerate the development, validation and implementation of non-animal methods based on best available science, as well as a means to facilitate their uptake across all relevant legislations. The roadmap will be published latest by early 2026.

These actions are bound to have a broad range of impacts across the SETAC community, from academia (method development, research, training), industry (manufacturers, downstream users and service providers, applied research) to government (researchers and risk assessors providing science-based support and risk managers who need certainty to ensure robust decisions protecting people and the environment). We believe this is a perfect time to stage a session on this topic with the SETAC community. We foresee this session to be of very high value to the membership and advancing the field of non-animal methods in environmental chemical safety assessments. SETAC is one of the largest, multi stakeholder communities of environmental scientists, and improving regulatory uptake of robust science requires all involved to be working towards common goals.

The session intends to be highly interactive. Key experts will present proposals for potential inclusion in the roadmap on how to move to animal-free chemical safety assessments, allowing consistent and robust decisions anchored in state-of-the-art science in the different fields of environmental assessments. After each proposal, the audience will have the opportunity to discuss the points, including key development needs. Interactive tools will be used to further involve the audience and to receive feedback. This session intends to create a forum to bring together all the recent activities, creating new opportunities for discussion in a wider stakeholder format, and ensure the SETAC membership are at the core of providing input on decisions on chemical safety assessment approaches with broad range societal impact.

★ Special Session

11:35-12:55 | Hall F2

8.01 - Biodiversity and Chemical Hazard/Risk Assessment: Regulatory Frameworks, Integrative Approaches and Research for a Sustainable Future

Romana Hornek Gausterer, Anni Nyman, Gabriele Treu

Chemical pollution is a major driver of biodiversity loss as identified by the Convention of Biological Diversity. To protect nature and reverse the degradation of ecosystems, the European Commission has adopted the new EU's biodiversity strategy for 2030 (COM/2020/380 final). However, it remains unclear whether current regulatory risk assessments of chemicals are fit for purpose to predict, mitigate and prevent adverse effects on biodiversity and how to embed new approaches or methodologies into such assessments carried out under existing regulatory frameworks such as REACH, the Biocides and Plant Protection Product Regulation, and the Water Framework Directive.

This special session will explore how different approaches or methodologies can facilitate the assessment of adverse effects of chemicals on biodiversity within current legal frameworks and examine the links between biodiversity threats, including chemical pollution, climate change, habitat loss, and invasive alien species. The aim is to discuss integrative approaches strengthening environmental risk assessments (ERA) and management of chemicals to better protect biodiversity.

We invite you to a special session, in which the following topics will be discussed:

- Current state of ERA and biodiversity
- Knowledge gaps and barriers
- Understanding of biodiversity and its interrelated threats
- New, innovative methodologies to asses impact of chemicals on biodiversity focusing on prediction

This special session will serve as an open forum, moderated by two chairs, featuring two panel debates with the audience and representatives of regulatory agencies, academia and industry. Additionally, Slido will be used to gather input from and interact with the audience.

The panels will discuss the state of art and knowledge gaps, seeking to foster collaboration and drive innovative solutions. Together panellists and participants will identify practical ways forward to overcome current barriers to adopting holistic frameworks for ERA, implement the uptake of NAMs, and improve data and knowledge integration, with an emphasis on collaborative problem solving.

★ Special Session

14:25-15:45 | Hall F2

8.04 - Next-Gen Environmental Science: Collaborative Networks for a Sustainable Future

Micha Wehrli, Markus Schmitz, Shaleen Glasgow, Maria Tannous

Creating communities for early-stage researchers (ESRs) and junior members helps them connect with international peers, boost their careers, and stay up-to-date on the latest developments in the field. This session aims to introduce three European-based ESR communities created with this objective in mind:

1. The SETAC Europe Student Advisory Council (SAC) provides a broad platform for ESR and especially the students of SETAC for networking and career development and representing interests within SETAC
2. The ASPIS Academy, ESR network emerged from the ASPIS Cluster of three EU Horizon 2020 Research Projects, holds a focus on New Approach Methods (NAMs) and offers diverse career development opportunities, including specialized training for its more than 120 members
3. The PARC Junior Group, focusing on the Risk Assessment of Chemicals, organizes Lunch Talks, specialized courses and training and informative newsletters for its 70 members from over 50 organizations

Joining forces, we want to promote the development of such communities for once in the scientific field while also daring to look outside the box and cross disciplines. This session shall engage the audience in a discussion on effective strategies for building, sustaining, and maximizing the impact of these networks for the successful career development of ESRs. After a thorough introduction of each group, the SAC, ASPIS Academy, and PARC JC, the session shall also give an insight into the communities' active work and scientific scope. Hence, ESR members of the Junior Community were invited to contribute short presentations of their work and discuss them with their peers in the second half of the session. Per group, up to two short presentations of five minutes are planned, briefly highlighting one specific (research) activity related to a community. Presentations were chosen by an open call for contributions within each of our three networks to fill the first half of the session and, in the case of the PARC Junior Community, by an internal presentation competition. A thorough review of the submitted presentations by experienced members of all three groups ensured the scientific quality of the presented work and compliance with SETAC principles.

We strongly believe that this initiative has promising potential in increasing the strength of our network by joining our forces, pursuing mutual goals, and finding synergistic strength in exploring communities outside of each other, yet adjacent to our fields of research. We are convinced that this session will not only offer significant benefits to the SETAC Europe annual meeting Vienna student programme but also a great initiative for appreciating the SETAC Europe ESRs who are not covered by the SETAC student status anymore.

Tuesday Platform Presentations Morning 1

Tuesday Platform Presentations Morning 1

	09:35	09:50	10:05
Hall M	**Future of Suspect and Non-Target Screening to Monitor Emerging Contaminants in the Environment** | Frederic Been, Anneli Kruve, Juliane Hollender		
	3.09.A.T-01 Integrating TIMS-PASEF with LC-HRMS and Biotransformation-Driven Suspect and Non-Target Screening Workflows to Address Key Challenges in Xenometabolome Analysis | **Dimitrios Damalas**, Laboratory of Analytical Chemistry, National and Kapodistrian University of Athens (NKUA), Greece	**3.09.A.T-02** Identification of novel highly polar sulfonated disinfection by-products in drinking water using supercritical fluid chromatography-high resolution mass spectrometry | **Maolida Nihemaiti**, Helmholtz Center for Environmental Research (UFZ), Germany	**3.09.A.T-03** Extensive chromatographic platform comparison (LC-, HILIC-, IC-, SFC-HRMS) for polar contaminants in groundwater | **Jonathan Zweigle**, Analytical Chemistry Group, Department of Plant and Environmental Science, University of Copenhagen, Denmark
Hall N	**Advancements in Life-Cycle Inventory (LCI): Enhancing Data Collection and Management, and Addressing Temporal Aspects** | ...		
	5.04.T-01 Supporting the Desing of Renewable Energy Scenarios: EnergyPLAN-LCA Framework | **Lasse Krogh Poulsen**, Department of Sustainability and Planning, Aalborg University, Denmark	**5.04.T-02** SHRECC: Simple Hourly-Resolution Electricity Consumption Calculation | **Sabina Bednarova**, Luxembourg Institute of Science and Technology (LIST), Luxembourg	**5.04.T-03** Toxicity assessment of agricultural raw materials: addressing the major shortcoming of substances' inventory data in a changing (regulatory, technological and climatic) landscape | **Anne Asselin**, Sayari, France
Hall E	**Endocrine Disruption Assessment: Opportunities to Enhance and Complement Current Approaches** | Natalie Burden, Julie Krzykwa, Francesca Pellizzato, Lennart Weltje		
	1.12.A.T-01 Animal-free In Vitro Assessment of Receptor-Mediated Endocrine Activity Including Phase-1 Metabolism | **Inska Reichstein**, Evolutionary Ecology & Environmental Toxicology, Goethe University, Germany	**1.12.A.T-02** In vitro potencies of chemicals for inhibition of thyroperoxidase (TPO) in four fish species compared to mammalian potencies in the ToxCast database | **Vann Lynne Boyte**, Louisiana State University, United States	**1.12.A.T-02** Metamorphosis as an Endpoint for Thyroid Hormone Disruption in Fish | **Lauren Eagon**, Louisiana State University, United States
Hall F1	**Exploring the Complex Dynamics and Ecotoxicological Impacts of Micro- and Nanoplastics in Aquatic Systems** | ...		
	1.10.A.T-01 Exploring Vegetation Complexity as a Driver of Microplastic Accumulation in Coastal Marshes | **Hayley McIlwraith**, Plymouth Marine Laboratory and University of East Anglia, United Kingdom	**1.10.A.T-02** Leaching Potential of Weathered Ocean Plastics: Insights from Cross Sectional Metals Analysis and Mapping | **Lyndsey Hendriks**, University of Vienna, Austria	**1.10.A.T-03** A High-Resolution Spatial Model to Predict the Distribution of Microplastics in European River Basins: ePLAS | **Yichen Sun**, Radboud university, Netherlands
Hall F2	★ **European Commission Roadmap Towards Phasing Out Animal Testing for Chemical Safety Assessments: State of the Process and How Can SETAC Community**		
	09:30	**09:35**	**09:40**
	8.03.T-01 Introductory Remarks | **Georg Streck**, European Commission, Belgium	**8.03.T-02** EC commission road map process and EPAA ESA work | **Georg Streck**, European Commission, Belgium	**8.03.T-03** EPAA ESA structure and work | **Jose V. Tarazona**, Institute of Health Carlos III (ISCIII), Spain and **Bruno Campos**, Unilever, United Kingdom
Hall G	**Evolutionary and Mechanistic Insights to Improve Ecotoxicology** | Chao Zhang, Anita Jemec Kokalj, Matthias Liess, Carlos Barata		
	2.02.T-01 The use of ecological relevant high-throughput video-tracking behavioral responses in Daphnia magna in environmental risk assessment of chemicals | **Carlos Barata**, IDAEA-CSIC, Spain	**2.02.T-02** Data-Driven Characterization of Chemical Impacts on the Genetic Diversity of Wild Populations: A Case Study | **Marissa Kosnik**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland	**2.02.T-03** Evolutionary Adaptation to Predation Mediates Microplastics Sensitivity in Daphnia Magna: The Critical Role of Gut Microbiota | **Chao Zhang**, Shandong University, China
Hall K1	**Pharmaceuticals in the Environment: Innovations in Risk Assessment, Regulation, and the Science Globally** | John Wilkinson, Todd Davidson, Gerd Maack, Dean Leverett		
	4.14.T-01 Assessing the environmental sustainability of human medicinal products: A proposed medicinal product sustainability index (MPSI) | **Jason Snape**, University of York, United Kingdom	**4.14.T-02** Using High Resolution Mass Spectrometry Non-Target Screening Data to Detect Exposure Patterns of Pharmaceuticals in German Rivers | **Anna Lena Kronsbein**, UBA (German Environment Agency), Germany	**4.14.T-03** Fate of Pharmaceuticals in Aquatic-riparian Food Webs at Sites Receiving Municipal Wastewater Discharges | **Karen Kidd**, McMaster University, Canada
Hall K2	**From Persistence to Mobility: Integrating Science with Policy and Bridging Gaps in Understanding Impact and Mobility** | Adam Peters, Michael Neumann, Marie Collard		
	3.14.T-01 Scoping the Limitations of Koc to Assess Mobility of Acidic Pesticides | **Reiner Yah**, Wageningen University and Research (WUR), Netherlands	**3.14.T-02** Weight of Evidence in the Persistence and Mobility Assessment of Data-Rich Substances | **Bernhard Jene**, BASF SE, Germany	**3.14.T-03** Enhancing Regulatory Implementation for PMT and PBT Substances: A Comprehensive Categorization Approach Using the NORMAN SusDat Database | **Adriana Sardi**, INERIS, France
Hall D2	**Unraveling the Complexities of PFAS From Environmental Toxicology to Human Health** | Francesco Dondero, Antreas Afantitis, Tommaso Serchi, Iseult Lynch		
	1.11.T-01 A tale of banned and novel PFAS: approach to developmental toxicity in zebrafish embryo | **Opeoluwa Ogunsuyi**, Luxembourg Institute of Science and Technology (LIST), Luxembourg	**1.11.T-02** Upscaling PFAS Dynamics from Trophic Chains to Ecosystem Responses in an AFFF Contaminated Environment | **Davide Gualandris**, Department of Science and Technological Innovation, University of Eastern Piedmont, Italy	**1.11.T-03** Blood-based Lipid Perturbations Linked to Per- and Polyfluoroalkyl Substances (PFAS) in Drinking Water and Occupational Exposures | **Ashlee Falls**, University of North Carolina at Chapel Hill, United States
Hall D3	**Implementing Holistic SSbD Approaches to Chemicals and Materials: What Do Academia, Industry, Regulators and Policymakers Propose?** | ...		
	6.05.A.T-01 Enhancing the Communication in the Value Chain for the Safe and Sustainable by Design Framework Implementation | **Irantzu Garmendia Aguirre**, European Commission, Joint Research Centre (JRC), Italy	**6.05.A.T-02** Stakeholder Engagement for Advancing Socio-economic Assessment in Safe and Sustainable by Design | **Claudia Mair-Bauernfeind**, Department of Environmental Systems Sciences, University of Graz, Austria	**6.05.A.T-03** Combining Policy and Industry Perspectives for building a Safe and Sustainable by Design Scoping Approach | **Vrishali Subramanian**, RIVM, Netherlands

	10:20	10:35
Hall M	**Future of Suspect and Non-Target Screening to Monitor Emerging Contaminants in the Environment** | Frederic Been, Anneli Kruve, Juliane Hollender	
	3.09.A.T-04 Chemical Profiling and Toxicity of the Airborne Exposome in Indoor and Outdoor Environments using Polydimethylsiloxane (PDMS) Foam Passive Samplers | **Adri Sunyer-Caldu**, Department of Environmental Science, Exposure and Effects Unit, Science for Life Laboratory, Stockholm University, Sweden	**3.09.A.T-05** Connecting Contamination Fingerprints and Toxicity Patterns in Source-Related Effluents using Non-Target Screening | **Iker Alvarez-Mora**, Helmholtz Center for Environmental Research (UFZ), Germany
Hall N	| Michele De Rosa, Roland Hischier, Anna Wikstrom, Tomas Ekvall	
	5.04.T-04 Inventory Data Curing for Circular Clothing Business Models and Uncertainty | **Sarah Gray**, The Waste and Resources Action Programme (WRAP), United Kingdom	Poster spotlights: 5.04.P-Tu407 Dicussion
Hall E	**Endocrine Disruption Assessment: Opportunities to Enhance and Complement Current Approaches** | Natalie Burden, Julie Krzykwa, Francesca Pellizzato, Lennart Weltje	
	1.12.A.T-03 Immunotoxic effects of endocrine disruptors - an understudied adverse outcome in fish | **Lisa Baumann**, Vrije Universiteit Amsterdam, Amsterdam Institute for Life & Environment, Section Environmental Health & Toxicology, Netherlands	**1.12.A.T-04** Elucidating the Mode of Action of Priority Pollutants on the Thyroid Axis by Combining Two Eleuthero-embryonic Bioassays | **Sara Cvetkovics**, Laboratoire Watchfrog S.A., France
Hall F1	| Georgiana Amariei, Raymond Kwong, Shooka Karimpour, Roberto Rosal	
	1.10.A.T-04 Investigations of Fragmentation, Aggregation and Settling of Microplastic in Complex Riverine Environments | **Lucas Kurzweg**, Dresden University of Applied Sciences (HTWD), Germany	**1.10.A.T-05** Microplastic Fate and Transport in Rivers: A Flume Experiment | **David Mennekes**, ETH Zurich, Switzerland
Hall F2	★ **Contribute** | Georg Streck, Adam Lillicrap, Bruno Campos, Jose V. Tarazona	
	09:45	**10:45**
	8.03.T-04 Discussion with audience: recommendations for the EC roadmap | **Georg Streck**, European Commission - DG GROW, Belgium	**8.03.T-05** Concluding Remarks
Hall G	**Evolutionary and Mechanistic Insights to Improve Ecotoxicology** | Chao Zhang, Anita Jemec Kokalj, Matthias Liess, Carlos Barata	
	2.02.T-04 Determination of Immuno-ecotoxic Effects and Evaluation of their Relevance for Chemical Hazard Assessment | **Kirsten Germing**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany	**2.02.T-05** Does thermal evolution influence thermal performance curves under pollutant exposure? | **Ying Dong**, KU Leuven, Belgium
Hall K1	**Pharmaceuticals in the Environment Innovations in Risk Assessment, Regulation, and the Science Globally** | John Wilkinson, Todd Davidson, Gerd Maack, Dean Leverett	
	4.14.T-04 Assessing the Suitability of Recent EU Environmental Quality Standards that Account for the Ecotoxicity and Prevalence of Transformation Products | **Lucy Kennelly**, wca environment Ltd, United Kingdom	**4.14.T-05** A tiered secondary poisoning risk assessment approach to prevent unnecessary fish bioaccumulation testing of pharmaceuticals | **Gemma Janer**, Novartis, Spain
Hall K2	**From Persistence to Mobility: Integrating Science with Policy and Bridging Gaps in Understanding Impact and Mobility** | Adam Peters, Michael Neumann, Marie Collard	
	3.14.T-04 Groundwater Monitoring Insights of 101 PMT/vPvM and PFAS | **Qiuguo Fu**, Helmholtz Centre for Environmental Research (UFZ), Department of Environmental Analytical Chemistry, Germany	**3.14.T-05** Scoping unregulated pollutants in aqueous effluents for circular water use in the Netherlands | **Jill Soedarso**, Wageningen University, Departement of Environmental Technology, Netherlands
Hall D2	**Unraveling the Complexities of PFAS From Environmental Toxicology to Human Health** | Francesco Dondero, Antreas Afantitis, Tommaso Serchi, Iseult Lynch	
	1.11.T-04 Next Generation Risk Assessment of Poly- and Perfluoroalkyl Substances through Bayesian Network based Quantitative Adverse Outcome Pathway | **Hyunwoo Kim**, University of Seoul, "Korea, Republic of"	Poster spotlights: 1.11.P-Tu103, 1.11.P-Tu104, 1.11.P-Tu123
Hall D3	| Alberto Katsumiti, Emma Stromberg, Eugenia Valsami-Jones	
	6.05.A.T-04 Value creation and tiering: incentives of SSbD integration into industrial innovation projects with LCA and measured safety screenings | **Wendel Wohlleben**, BASF SE, Germany	Poster spotlights: 6.05.P-Tu446, 6.05.P-Tu455, 6.05.P-Tu462

Tuesday Platform Presentations Morning 2

Tuesday Platform Presentations Morning 2

	11:40	11:55	12:10	12:25	12:40
Hall M	**Future of Suspect and Non-Target Screening to Monitor Emerging Contaminants in the Environment** | Frederic Been, Anneli Kruve, Juliane Hollender				
	3.09.B.T-01 Non-target screening of water samples and application of different prioritization strategies | **Nienke Meekel**, KWR Water Research Institute | Vrije Universiteit Amsterdam, Netherlands	**3.09.B.T-02** Prioritization of unknown features based on predicted toxicity categories | **Viktoriia Turkina**, University of Amsterdam, Netherlands	**3.09.B.T-03** PubChemLite plus Collision Cross Section (CCS) Values for Enhanced Interpretation of Non-Target Environmental Data | **Emma Schymanski**, Luxembourg Centre for Systems Biomedicine (LCSB), University of Luxembourg, Luxembourg	**3.09.B.T-04** Enhancing Regulatory Environmental Monitoring: Expanding Chemical Domain in HRMS Non-Target Screening | **Eric Rosenheinrich**, German Environment Agency (UBA), Germany	**3.09.B.T-05** Target-decoy strategy for controlling false discovery rates in structure annotation of small organic molecules in environmental non-targeted analysis by computational mass spectrometry | **Lee Ferguson**, Duke University, United States
Hall N	**Methodological Advancements in Life Cycle Assessment of Emerging Bio-Based Systems** | Nariê Rinke Dias de Souza, Marjorie Morales, Kira Lancz				
	5.05.T-01 Challenges in Substituting Fossil Products with Bio-based Alternatives | **Ewa Lagodzka**, Life Cycle Sustainability, Department of Sustainability and Planning, Aalborg University, Denmark	**5.05.T-02** Tipping points in polymer life cycle greenhouse gas emissions | **Stuart Walker**, University of Sheffield, United Kingdom	**5.05.T-03** Upscaling Framework for Laboratory-Scale Life Cycle Assessment | **Hanna Sofia Leiter**, Wood K plus, Austria	**5.05.T-04** Job Creation Potential Tool for Assessing Employment Opportunities in a Bio-Economy Context | **Eduardo Entrena-Barbero**, Contactica Innovation, Spain	Poster spotlights: 5.05.P-Tu421, 5.05.P-Tu424, 5.05.P-Tu426
Hall E	**Endocrine Disruption Assessment: Opportunities to Enhance and Complement Current Approaches** | Natalie Burden, Julie Krzykwa, Francesca Pellizzato, Lennart Weltje				
	1.12.B.T-01 Tiered assessment scheme linking NAMs to adverse outcomes to identify thyroid disruptors in aquatic vertebrates | **Laurent Lagadic**, Bayer AG R&D, Crop Science Division, Environmental Safety, Germany	**1.12.B.T-02** Assessing the Impact of Dietary Restriction on Endpoints in the Fish Short-Term Reproduction Assay: Implications for Interpreting Endocrine Activity | **James Wheeler**, Corteva Agriscience, Netherlands	**1.12.B.T-03** The population relevance of effect in mammals: experience and future perspective | **Maria Arena**, European Food Safety Authority (EFSA), Italy	**1.12.B.T-04** Risk Management of Environmental Endocrine Disrupting Chemicals (EDCs) - Derivation of Predicted No Effect Concentrations (PNECs) | **Morne Van Der Mescht**, Environment Agency, United Kingdom	**1.12.B.T-05** An Integrative Framework for the Identification and Prioritization of the Risk Assessment of Endocrine Disrupting Chemicals (EDCs) | **David Lopez Rodriguez**, University of Lausanne, Switzerland
Hall F1	**Exploring the Complex Dynamics and Ecotoxicological Impacts of Micro- and Nanoplastics in Aquatic Systems** | ...			| Georgiana Amariei, Raymond Kwong, Shooka Karimpour, Roberto Rosal	
	1.10.B.T-01 New versus Naturally Aged Greenhouse Cover Films: Degradation and Micro-Nanoplastics Characterization under Sunlight Exposure | **Patricia Taladriz-Blanco**, Adolphe Merkle Institute, University of Fribourg, Switzerland	**1.10.B.T-02** Unveiling the Leaching Dynamics of Hydrophobic Additives from UV-Weathered Plastics Using a Cosolvent Approach | **Jiejie Ma**, GEOMAR, Germany	**1.10.B.T-03** Unveiling the Multi-Tier Effects of Commercial PVA-based Dishwasher Pods on Danio rerio Embryos: Insights on the Role of Additives | **Giada Caorsi**, University of Milan, Italy	**1.10.B.T-04** In vitro toxicity of an environmental micro and nanoplastic mix representative of plastics collected at five beaches of the Bay of Biscay | **Nagore Gonzalez Soto**, CBET+ Research Group, Department of Zoology and Animal Cell Biology, University of the Basque Country UPV/EHU,& EPOC UMR 5805, University of Bord, Spain	**1.10.B.T-05** Predicting Microplastic Toxicity for Aquatic Organisms Using Machine Learning | **Ana Leticia Antonio Vital**, University of Bayreuth, Germany
Hall F2	★ **Biodiversity and Chemical Hazard/Risk Assessment: Regulatory Frameworks, Integrative Approaches and Research for a Sustainable Future** | ...			| Romana Hornek-Gausterer, Anni Nyman, Gabriele Treu	
	11:35	**11:40**	**11:55**	**12:15**	**12:30** / **12:50**
	8.01.T-01 Introductory Remarks | **Romana Hornek-Gausterer**, Environment Agency Austria, Austria	**8.01.T-02** Panellist Group 1: Flash Presentations	**8.01.T-03** Discussion with Panellists group 1 and Audience	**8.01.T-04** Panellist Group 2: Flash Presentations	**8.01.T-05** Discussion with Panellists group 2 and Audience / **8.01.T-06** Concluding Remarks
Hall G	**Unveiling Long-Term Ecological Impacts: From Epigenetic Biomarkers to Multigenerational and Chronic Effects of Environmental Contaminants Including Their Mixtures**			| Jana Asselman, Laia Navarro Martin, Joana Luisa Pereira	
	1.01.T-01 PFAS across generations: developmental exposure in zebrafish drives behavioural, transcriptomic and epigenetic disruptions | **Manon Fallet**, MTM Research Center, orebro University, Sweden	**1.01.T-02** Multigeneration Responses of Daphnia magna to Short Chain Per- and Polyfluorinated Substances (PFAS) | **Ge Xie**, Vrije Universiteit Amsterdam, Netherlands	**1.01.T-03** Multigenerational reproductive toxicity of arsenic in zebrafish (Danio rerio) | **Markus Hecker**, University of Saskatchewan, Canada	**1.01.T-04** New Insights Into Cadmium Sub-Lethal Effects on Daphnia magna | **Albano Pinto**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal	**1.01.T-05** Beyond Exposure: Investigating the Transgenerational Effects of Bisphenol S in Zebrafish | **Marta Ribeiro**, CIIMAR/FCUP, Portugal
Hall K1	**Antimicrobials and Antimicrobial Resistance in the Environment** | Joanne Elmoznino, Wiebke Schmidt, Jens Schonfeld, Laura Carter				
	4.08.T-01 Minimum Selective Concentrations of Antibiotics: A resistance cost-based Approach towards Representative Estimates | **David Kneis**, TU Dresden, Institute of Hydrobiology, Germany	**4.08.T-02** Antibiotics Residues in Irish Sediments | **Martin Sharkey**, University of Galway, Ireland	**4.08.T-03** Evaluation of antibiotic mixtures through the SELECT assay and risk assessment of antibiotics in the world's rivers | **Alejandra Bouzas Monroy**, University of York, United Kingdom	**4.08.T-04** Flow of AMR drivers through the farm environment | **Laura Carter**, University of Leeds, United Kingdom	**4.08.T-05** Implementing environmental criteria for antibiotics production - antibiotic occurence in wastewater, runoff and impacted water bodies | **Ursula Karges**, IWW Water Research Institute, Germany
Hall K2	**Environmental Risk Assessment Under Biocides and Other EU Legislations** | Heike Schimmelpfennig, Andrea Brunswik-Titze, Aiga Latsone				
	6.07.T-01 Take EU Biocides Legislation to the Next Level | **Stefanie Wieck**, German Environment Agency (UBA), Germany	**6.07.T-02** A city is not a field - progress in the groundwater assessment for urban biocide emissions | **Maura Schwander**, German Environment Agency (UBA), Germany	**6.07.T-03** Comparison of Environmental Exposure Assessment Strategies in Different EU Legislation | **Heike Schimmelpfennig**, Dr. Brill Regulatory Services GmbH, Germany	**6.07.T-04** Towards a holistic approach in chemical exposure assessment: the ExpoAdvance roadmap | **Lara Lamon**, ESQlabs, Germany	Poster spotlights: 6.07.P-Tu463, 6.07.P-Tu464, 6.07.P-Tu468
Hall D2	**Emerging and Novel Per- and Polyfluoroalkyl Substances (PFASs): Latest Findings and Innovation Towards Safe and Sustainable Alternatives** | ...			| Zhanyun Wang, Ian Cousins	
	3.25.T-01 Colloidal side-chain fluorinated polymer nanoparticles are a significant source of PFAS contamination in textile wastewater | **Lee Ferguson**, Duke University, United States	**3.25.T-02** Evaluating Sorptive Removal of Novel Fluorochemicals from Lithium-Ion Batteries Using Commercial Sorbents | **Faezeh Pazoki**, McGill University, Canada	**3.25.T-03** To Treat or Not To Treat: Comparing Health Impacts of PFAS Exposure to Health Impacts of PFAS Removal Technologies | **Sanne J. Smith**, Delft University of Technology (TU Delft), Netherlands	**3.25.T-04** Unveiling PFAS in Cosmetics: Global Insights and Australian Market Analysis Using Non-Target and Suspect Screening Analysis | **Sara Ghorbani Gorji**, Queensland Alliance for Environmental Health Sciences (QAEHS), The University of Queensland, Australia	Poster spotlights: 3.25.P-Tu280, 3.25.P-Tu283, 3.25.P-Tu286
Hall D3	**Implementing Holistic SSbD Approaches to Chemicals and Materials: What Do Academia, Industry, Regulators and Policymakers Propose?** | ...			| Alberto Katsumiti, Emma Stromberg, Eugenia Valsami-Jones	
	6.05.B.T-01 Redefining Drug Innovation: How to Integrate the Safe and Sustainable by Design (SSbD) framework to the Pharmaceuticals and Nanomedicines Sector | **Jacopo Sorani**, EMPA / Eth Zurich, Switzerland	**6.05.B.T-02** Enabling Safe and Sustainable Innovation: Transparent Decision Support | **Hedwig Braakhuis**, National Institute for Public Health and the Environment (RIVM), Netherlands	**6.05.B.T-03** Benchmarking the "Safety and Sustainability by Design" (SSbD) Culture | **Claire Mays**, Institut Symlog de France, France	**6.05.B.T-04** An auto-diagnostic SSbD tool to facilitate the integration of Safe and Sustainable by Design approach in the innovative stage | **Josephine Steck**, Univ. Grenoble Alpes, CEA, France	Poster spotlights: 6.05.P-Tu442, 6.05.P-Tu447, 6.05.P-Tu458

Tuesday Platform Presentations Afternoon

Tuesday Platform Presentations Afternoon

	14:30	14:45	15:00	15:15	15:30
Hall M	**In silico New Approach Methodologies for Enhancing Understanding of Chemical Safety: Getting your Questions Answered by the Developers** | ...			| Niladri Basu, Claudia Rivetti, Natalie Burden, Jessica Ewald	
	1.08.T-01 The Exposure And Safety Estimation (EAS-E) Suite Platform to Aid Chemical Assessments | **Alessandro Sangion**, ARC Arnot Research and Consulting Inc, Canada	**1.08.T-02** Web-based platforms for toxicogenomics data analysis: EcoToxXplorer and ExpressAnalyst | **Niladri Basu**, McGill University, Canada	**1.08.T-03** EnviroTox: A Curated Aquatic Toxicology Database | **Julie Krzykwa**, Health and Environmental Sciences Institute (HESI), United States	**1.08.T-04** Leveraging Molecular Docking Techniques to Support Virtual Screening of Cross-species Susceptibility to Chemical Effects | **Rama Krishnan**, Cardiff University, United Kingdom	Poster spotlights: 1.08.P-Tu050, 1.08.P-Tu052, 1.08.P-Tu053
Hall N	**Life Cycle Assessment Relevant Resource Indicators for Providing Guidance Towards a Transition to a Resilient Carbon Neutral and Circular Economy** | ...			| Guido Sonnemann, Louis Freboeuf	
	5.07.T-01 Integrating physical material quality of recycled materials as part of the life cycle inventory in life cycle assessment | **Simon Alexander Saxegaard**, Norwegian Institute for Sustainability Research (NORSUS), Norway	**5.07.T-02** A change of paradigm on mineral resources flows in LCA: necessary, and feasible | **Antoine Beylot**, BRGM, France	**5.07.T-03** Scenario-specific characterization factors of dissipative flows of 53 abiotic resources: Introduction to the ACP and RESEDA methods | **Titouan Greffe**, CIRAIG, Institute of Environmental Sciences, UQAM, Canada	**5.07.T-04** Spatially and Temporally Differentiated Characterization Factors for Supply Risk of Abiotic Resources in Life Cycle Assessment | **Anish Koyamparambath**, Universite de Bordeaux, France	**5.07.T-05** Holistic Sustainability Assessment of Packaging - the Viennese Model of Sustainability Assessment | **Manfred Tacker**, Circular Analytics TK GmbH, Austria
Hall E	**Innovative Analytical Methodologies to Support Next-Generation Risk Assessment and Early Warning** | Nicole Bandow, Marja Lamoree			**Innovative Analytical Methodologies to Support Next-Generation Risk Assessment and Early Warning** | Nicole Bandow, Marja Lamoree	
	3.01.T-01 Innovative suspect and non-targeted screening approaches as a support to chemical risk assessment: from research results and promises to regulatory expectations | **Jean-Philippe Antignac**, Oniris, INRAE, LABERCA, France	**3.01.T-02** Utilities of long-term chemical pollution monitoring data of surface waters in the Netherlands | **Thomas Hofman**, RIVM, Netherlands	**3.01.T-03** In Vitro Bioassay Profiling of Endocrine Activities in European Surface Waters: a Large-Scale Pilot Project | **Elise Chatillon**, INERIS, France	**3.01.T-04** Integration of Dysregulation Measures in Behavior and Exo-Metabolic Profile for Biological Early Warning System Using Daphnia magna | **Hyeon-Jeong Bae**, Hankuk University of Foreign Studies, "Korea, Republic of"	Poster spotlights: 3.01.P-Tu197, 3.01.P-Tu208, 3.01.P-Tu214
Hall F1	**Matching Microplastic and Nanoplastic Reference Materials to Exposure Scenarios** | Denise Mitrano, Ines Zucker, Wendel Wohlleben, Andy Booth			**Matching Microplastic and Nanoplastic Reference Materials to Exposure Scenarios** | Denise Mitrano, Ines Zucker, Wendel Wohlleben, Andy Booth	
	3.22.T-01 Nano-sized Polypropylene as a Promising Candidate Reference Material: Preparation, Characterization and Stability in Complex Matrices | **Florian Meier**, Postnova Analytics GmbH, Germany	**3.22.T-02** Advancing Environmental Fate Assessments: Generation and Tracking the Fate of Realistic (UV-Degraded) Nanoplastics | **Patrizia Pfohl**, BASF SE, Germany	**3.22.T-03** Harmonisation of Sample Preparation for the Microplastic Analysis: Recovery Rates of Tablets containing Microplastics as Reference Material for Food and Environmental Matrix | **Korinna Altmann**, BAM Bundesanstalt fur Materialforschung und -prufung, Germany	**3.22.T-04** A Paint Library of Plastic Particles (PLoPP): Fourier Transform Infrared Spectral Analysis of Paint Microplastics | **Zoie Diana**, Department of Ecology and Evolutionary Biology, University of Toronto, Canada	**3.22.T-05** Do Polymer Interactions Impact the Accuracy of Microplastic Quantification in Mass Spectrometry-Based Analysis? | **Sevda Eryılmaz Soydan**, Delft University of Technology (TU Delft), Netherlands
Hall F2	★ **Next-Gen Environmental Science: Collaborative Networks for a Sustainable Future** | Micha Wehrli, Markus Schmitz, Shaleen Glasgow, Maria Tannous			★ **Next-Gen Environmental Science: Collaborative Networks for a Sustainable Future** | Micha Wehrli, Markus Schmitz, Shaleen Glasgow, Maria Tannous	
	14:25 **8.04.T-01** Introductory remarks | **Markus Schmitz**, Goethe University Frankfurt, Germany	**14:30** **8.04.T-02** Introduction to SETAC SAC | **Markus Schmitz**, Goethe University Frankfurt, Germany, and **Micha Wehrli**, Eawag, Switzerland	**14:35** **8.04.T-03** Introduction to ASPIS Academy | **Shaleen Glasgow**	**14:40** **8.04.T-04** Introduction to PARC Junior Community | **Maria Tannous**, ANSES, French Agency for Food, Environmental and Occupational Health & Safety, France	**14:45** **8.04.T-05** PARC I: Integrated Risk Assessment for Pyrethroids: A "Proof of Concept" approach for toxicokinetics' supported NAM-based toxicodynamics | **Ana Fernandez Agudo**, ISCIII, Spain	**14:51** **8.04.T-06** PARC II: Tissue-specific responses to a binary mixture of bisphenol A substitutes in zebrafish embryos: a focus on two estrogenic and metabolic bioassays | **Florian Geffroy**, INERIS, Universite Paris Cite, France	**14:57** **8.04.T-07** APSIS Academy: Advancing NAMs-based DNT risk assessment through refined biokinetic models | **Susana Proenca**, esqLABS GmbH, Netherlands	**15:07** **8.04.T-08** Closing the Circle: How SETAC and Early Career Networks Shape Environmental Science | **Markus Brinkmann**, Toxicology Centre, University of Saskatchewan, Canada	**15:17** **8.04.T-09** Panel discussion: SETAC ESR and other ESR associations: networking & cooperation	**15:40** **8.04.T-10** Concluding Remarks
Hall G	**Mechanistic Insights, Advances, and Challenges in Behavioral Ecotoxicology and Neurotoxicity Assessment** | Colette vom Berg, David Leuthold, Carla Melo, Miguel Oliveira			**Mechanistic Insights, Advances, and Challenges in Behavioral Ecotoxicology and Neurotoxicity Assessment** | Colette vom Berg, David Leuthold, Carla Melo, Miguel Oliveira	
	2.04.T-01 Pharmaceutical Pollution Alters River-to-Sea Migration Success in Atlantic Salmon (Salmo salar) | **Michael Bertram**, Swedish University of Agricultural Sciences (SLU), Sweden	**2.04.T-02** Mechanism of ocular toxicity of antidepressants in zebrafish | **Marwin Jafari**, University of Stavanger, Department of Chemistry, Bioscience and Environmental Engineering, Norway	**2.04.T-03** Early life exposure to endocrine disruptors: Understanding the neuroendocrine impact using metabolome mapping of rat models | **Pim Leonards**, Vrije Universiteit Amsterdam, Netherlands	**2.04.T-04** The Application of Mass Spectrometry Imaging to Study Neurodevelopment and its Disruption by PFOS in a Tadpole Model | **Rikke Poulsen**, University of Victoria, Canada	Poster spotlights: 2.04.P-Tu173, 2.04.P-Tu175, 2.04.P-Tu178
Hall K1	**Microbiota Under Stress: Impacts of Environmental Pollutants on Ecosystem and Host Health** | Alexander Feckler, Jason Snape, Despo Fatta-Kassinos			**Microbiota Under Stress: Impacts of Environmental Pollutants on Ecosystem and Host Health** | Alexander Feckler, Jason Snape, Despo Fatta-Kassinos	
	1.05.T-01 Linking Pesticide Degradation with Microbial Community Shifts in Agricultural Soils | **Marija Gadzimuradova**, Wageningen University, Netherlands	**1.05.T-02** Investigating Microbiota and Geochemical Characteristics of Colorado Mining-Influenced Waters | **Emma Jones-Fredrickson**, Department of Chemistry, Colorado School of Mines, United States	**1.05.T-03** Assessing microbial community functions as an indicator of marine ecosystem disturbance | **Leila Chapron**, Plastic At Sea, France	**1.05.T-04** Effects of micropollutants and their degradation on prokaryotic communities at the sediment-water interface | **Gwenael Imfeld**, Institut Terre et Environnement de Strasbourg, UMR 7063 CNRS, ENGEES, Universite de Strasbourg, France	Poster spotlights: 1.05.P-Tu027, 1.05.P-Tu039, 1.05.P-Tu045
Hall K2	**Regulatory Risk Management of Chemicals Integrating Risks, Impacts and Socio-Economic Assessments for Robust Policy Decisions** | ...			| Thea Sletten, Julia Sussams, Christoph Rheinberger, Peter Simpson	
	6.08.T-01 Why Should we Integrate Risks, Impacts and Socio-economic Assessments for Speeding-up the Phase-out and Substitution of Harmful Chemicals? | **Silke Gabbert**, RIVM, Netherlands	**6.08.T-02** A ecosystem service impact assessment framework applicable to any chemical pollutant | **David Spurgeon**, UK Centre for Ecology and Hydrology (UKCEH), United Kingdom	**6.08.T-03** Integrating Risk and Socio-Economic Assessments to Support Decision-Making in Soil Remediation | **Elvia Rufo**, Vrije Universiteit Amsterdam, Netherlands	**6.08.T-04** Using price incentives to substitute hazardous chemicals in the European Union | **Daniel Slunge**, Environment for Development, University of Gothenburg, Sweden	Discussion
Hall D2	**Mechanistic Effect Models and Statistical Methods in Regulatory Science: Progress and Innovation for Environmental Risk Assessment?** | ...			| Andreas Focks, Sandrine Charles, Peter Vermeiren, Sabine Duquesne	
	4.04.T-01 Towards the implementation of FAIR principles for mechanistic effect models (MEMs) in the regulatory environmental risk assessment (ERA) of pesticides | **Alberto Linguadoca**, European Food Safety Authority, Environment, Plants and Ecotoxicology (PLANTS) unit, Italy	**4.04.T-02** BufferGUTS - A Toxicokinetic-Toxicodynamic (TKTD) Model for Above-Ground Terrestrial Invertebrates | **Leonhard Bürger**, Osnabrück University, Germany	**4.04.T-03** Breaking Up is Hard to Do? Assessing growth and reproduction in Lumbriculus variegatus after antidepressant exposure by using a novel DEB model approach | **Jacqueline Hilgendorf**, Centre for Environmental and Marine Studies (CESAM) & University of Aveiro, Portugal	**4.04.T-04** Handling experimental variability in the context of calibration and validation of DEB-TKTD models: A case study using cross-laboratory results for Daphnia magna | **Neil Sherborne**, Syngenta Ltd., United Kingdom	**4.04.T-05** Integrated Risk Assessment for Pyrethroids: A "Proof of Concept" approach for toxicokinetics' supported NAM-based toxicodynamics | **Ana Fernandez Agudo**, National Environmental Health Center (CNSA-ISCIII), Spain
Hall D3	**Implementing Holistic SSbD Approaches to Chemicals and Materials: What Do Academia, Industry, Regulators and Policymakers Propose?** | ...			| Alberto Katsumiti, Arianna Livieri, Eugenia Valsami-Jones	
	6.05.C.T-01 A pragmatic approach to merge concepts of risk assessment and life cycle assessment toward operationalization of SSbD: a case study | **Veronica Di Battista**, Arcadis, Germany	**6.05.C.T-02** Safe-and-Sustainable-by-Design Advanced Materials: Application of the HARMLESS Approach to Imogolites for Agricultural Application | **Veronique Adam**, TEMAS Solutions GmbH, Switzerland	**6.05.C.T-03** Build on The International Fragrance Association (IFRA) case-study on methyl salicylate to enhance the European Union Safe and Sustainable by Design (SSbD) framework in 2025 | **Annika Batel**, BASF, Germany	**6.05.C.T-04** Application of the safe and sustainable by design (SSbD) principle in the development of circular and recyclable composites for automotive and aerospace sectors | **Elvira Villaro**, Avanzare Innovacion Tecnologica, Spain	Poster spotlights: 6.05.P-Tu450, 6.05.P-Tu451, 6.05.P-Tu453

Schedule

Setup	08:30–9:30
Poster Viewing	10:50–11:35
Poster Viewing	12:55–14:25
Poster Viewing	15:45–16:45
Poster Social	17:45–18:15
Take Down	by 18:15
Poster Corners	16:00–16:45

Late-Breaking Science Posters

Late-breaking science posters are not included in the printed programme book. For a full list of poster presentations, please visit the online meeting platform.

Poster Corners

Poster Corner 1

The Chemical Defensome: Novel Insights Into the Mechanisms of Defense Allowing Species to Cope With Environmental Pollution | Marco Franco, Vladimír Žlábek, Daniel Cerveny, Michael Bertram

1.02.P-Tu013, 1.02.P-Tu014, 1.02.P-Tu015, 1.02.P-Tu016

Poster Corner 2

Developing Science-Based Metrics to Quantify Fashion and Apparel's Chemical and Biodiversity Impacts on Nature | Catherine Rudisill, Scott Echols

1.03.P-Tu021, 1.03.P-Tu022, 1.03.P-Tu023, 1.03.P-Tu024

Poster Corner 3

Mercury In The Environment - Science To End Mercury Pollution | Tom Cresswell, Tarren Reitsema

3.26.P-Tu300, 3.26.P-Tu301, 3.26.P-Tu302, 3.26.P-Tu303, 3.26.P-Tu304, 3.26.P-Tu305

Poster Corner 4

Statistics for Risk Assessment from Tried and Tested to New and Exciting Methods | Pernille Thorbek, Magdalena Mair, Benjamin Daniels, Raoul Wolf

4.03.P-Tu316, 4.03.P-Tu317, 4.03.P-Tu318, 4.03.P-Tu319, 4.03.P-Tu327

Poster Corner 5

Flame Retardants Regulatory and Circular Economy Challenges | Jacob de Boer, Martin Sharkey, Stuart Harrad

6.11.P-Tu492, 6.11.P-Tu493, 6.11.P-Tu494, 6.11.P-Tu495, 6.11.P-Tu496, 6.11.P-Tu497

Poster Corner 6

Health and Well-Being Effects of Blue Spaces: The Ocean-Human Health Nexus in an Ocean Under Stress | Gert Everaert, Manuel Soto, Mathew White, Jana Asselman

7.03.P-Tu499, 7.03.P-Tu500, 7.03.P-Tu501, 7.03.P-Tu502, 7.03.P-Tu503, 7.03.P-Tu504

Poster Sessions

POSTER AREA 1 (Hall X1, Level -2)

Unveiling Long-Term Ecological Impacts: From Epigenetic Biomarkers to Multigenerational and Chronic Effects of Environmental Contaminants Including Their Mixtures | Jana Asselman, Laia Navarro Martin, Joana Luisa Pereira

1.01.P-Tu001 Sub-lethal Effects of Cadmium and Ciprofloxacin in Freshwater Green Microalgae: Epigenetic and Phenotypic Responses | **Joana I. Santos**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

1.01.P-Tu002 Impact of endocrine disrupting chemicals on reproduction and intergenerational inheritance of epigenetic traces in the freshwater snail Biomphalaria glabrata | **Elisabeth Simboeck**, UAS Technikum Wien, Austria

1.01.P-Tu003 Multigeneration Responses of Folsomia candida to Short Chain Per- and Polyfluorinated Substances (PFAS) | **Ge Xie**, Vrije Universiteit Amsterdam, Netherlands

1.01.P-Tu004 Neurobehavioral impairments in the sea bass (Dicentrarchus labrax) chronically exposed to cadmium and ciprofloxacin contaminated diets. | **Janan Gawra**, Department of Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain

1.01.P-Tu005 Effects of Cadmium in Acartia tonsa: Epigenetic and phenotypic responses | **Joana Pereira**, Unversity of Aveiro, Portugal

1.01.P-Tu006 DNA methylation and ocean acidification: Insights from Patella caerulea at the natural CO2 vent systems of Ischia Island | **Silvia Giorgia Signorini**, Department of Biosciences, University of Milan; Department of Integrative Marine Ecology, Stazione Zoologica Anton Dohrn, Italy

1.01.P-Tu007 Investigating the Effects of Glyphosate Exposure on Survival, Reproduction, and Development in Drosophila melanogaster | **Tolulope Ajayi**, Technological University of the Shannon Midlands: Midwest (Athlone), Ireland

1.01.P-Tu008 Terrestrial Ecotoxicity Evaluation of Rock Powders Used in Agriculture in Brazil: Preliminary Results with Enchytraeus crypticus and Folsomia candida | **Cristina Sisinno**, Center for Mineral Technology (Biotechnology Laboratory), Brazil

1.01.P-Tu009 Linking Molecular and Phenotypic Endpoints in Zebrafish Larvae Exposed to Ciprofloxacin and Cadmium | **Janan Gawra**, Department of Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain

1.01.P-Tu010 Effects of Bisphenol S (BPS) in the Threespine Stickleback (Gasterosteus aculeatus): Exploring the Links Between Biomarker and Life History Traits Responses | **Ugo IARIA**, UMR-I 02 SEBIO, INERIS, URCA, ULHN, France

1.01.P-Tu011 Embryonic Exposure to the Endocrine Disrupting Chemical, TBCO, Causes an Intragenerational Decrease in Reproductive Performance of Female Japanese medaka (Oryzias latipes) by Impairing Oocyte Maturation | **Steve Wiseman**, University of Lethbridge, Canada

1.01.P-Tu012 Two-Generation Toxicity Assessment of the Antioxidant Propyl-Propane Thiosulfonate (PTSO) | **Cristina Plata-Calzado**, Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, Spain

The Chemical Defensome: Novel Insights Into the Mechanisms of Defense Allowing Species to Cope With Environmental Pollution | Marco Franco, Vladimír Žlábek, Daniel Cerveny, Michael Bertram

1.02.P-Tu013 Evolution of the Chemical Defensome in Marine Mammals | **Anders Goksoyr**, Department of Biological Sciences, University of Bergen, Norway

1.02.P-Tu014 Exploring the role of the defensome in endocrine disruption: interspecies differences in sensitivity to thyroid system interference | **Daniel Pickford**, Syngenta, United Kingdom

1.02.P-Tu015 Biochemical Responses of Danio rerio and Daphnia magna to pharmaceuticals Isoeugenol and Altrenogest | **Madalena Vieira**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

1.02.P-Tu016 Defense Mechanisms of Sulforaphane Against Environmental Toxins and Contaminants: A Systematic Review | **Cristina Plata-Calzado**, Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, Spain

1.02.P-Tu017 Polymorphisms of the metallothionein 2A gene in relation to heavy metal levels in a Colombian population | **Belkis Palacio**, Universidad de Cartagena, Colombia

1.02.P-Tu018 Effects of Oxyfluorfen on Biochemical Activities in Non-Target Aquatic Invertebrate Organisms | **Pinar Arslan Yuce**, Cankiri Karatekin University, Faculty of Science, Department of Biology, Turkiye

1.02.P-Tu019 The evaluation of the effect of sublethal diflubenzuron on antioxidant enzyme systems in freshwater mussels | **Aysel Caglan Gunal**, Gazi University, Faculty of Gazi Education, Department of Biology Education, Turkiye

1.02.P-Tu020 Surviving in the sediment: Behavioral and toxicological effects of nano-biocides on the marine gastropod Gibbula umbilicalis | **Caio Cesar-Ribeiro**, University of Aveiro, Portugal

Developing Science-Based Metrics to Quantify Fashion and Apparel's Chemical and Biodiversity Impacts on Nature | Catherine Rudisill, Scott Echols

1.03.P-Tu021 Textile case study for integrated chemicals and waste management | **Alexis Michael Bazzanella**, International Sustainable Chemistry Collaborative Centre (ISC3), Germany

1.03.P-Tu022 Development of a Rapid Screening Method for Detection of Hazardous Additives in Textiles | **Alyssa Wicks**, University of Notre Dame, United States

1.03.P-Tu023 Impact of Microfibre Emissions from Textile Industries | **Ishrat Badruddin**, University of Leeds, United Kingdom

1.03.P-Tu024 Forest biodiversity indicators for sustainability reporting in the wood-based (regenerated cellulose) fiber industry for fashion | **Andreas Barth**, Wood K plus, Austria

1.03.P-Tu025 Embryonic Exposure to Alizarin Yellow Dye Alter Embryonic Development and Behavior in Zebrafish (Danio rerio) | **Luis Terrazas Salgado**, Department of Biological Sciences, University of Lethbridge, Canada

1.03.P-Tu026 Measuring So We Can Manage: The Current Landscape of Textile Chemical Impacts on Biodiversity and Ecological Health | **Catherine Rudisill**, Safer Chemistry Advisory LLC, United States

Microbiota Under Stress: Impacts of Environmental Pollutants on Ecosystem and Host Health | Alexander Feckler, Jason Snape, Despo Fatta-Kassinos

1.05.P-Tu027 Potential Adverse Effects of Plant protection products on Non-Target Organisms' Microbiome: Regulatory Challenges and Progress in the Environmental Risk Assessment | **Franco Ferilli**, European Food Safety Authority (EFSA), Italy

1.05.P-Tu028 Impact of Engineered Nanomaterials on Microbial Communities in the Aquatic Environment | **Milena Frelih**, Federal Institute for Materials Research and Testing (BAM), Germany

1.05.P-Tu029 Combining tools for early warning in water quality monitoring | **Marlea Wagelmans**, Ministry of Infrastructure and Water Management (RWS), Netherlands

1.05.P-Tu030 Better or worse? Assessing the Effects of Warming on Interactions Between Emerging Contaminants and Freshwater Primary Producers | **Benjamin Thorpe**, The University of York, United Kingdom

1.05.P-Tu031 Development of a Multispecies Test Method for Evaluating Phytoplankton Sensitivity to Chemical Exposure | **Lalita Chomphen**, Environment and Geography Department, University of York, United Kingdom

1.05.P-Tu032 Optical Microrespirometry: A Comprehensive Tool for Profiling Toxic Responses in Plankton Communities | **Paolo Taborelli**, Department of Chemistry and Bioscience, Aalborg University, Denmark

1.05.P-Tu033 How sensitive are aquatic fungi? A case study in the light of environmental risk assessment using the fungicide trifloxystrobin as model | **Laís Conceição Menezes da Silva**, Institute for Environmental Sciences (iES Landau), University of Kaiserslautern-Landau (RPTU), Germany

1.05.P-Tu034 Spatiotemporal Dynamics of Riverine Benthic Microbial Communities and their Biodegradation Potential | **Joeselle Serrana**, Stockholm University Center for Circular and Sustainable Systems (SUCCeSS), Stockholm University, Sweden

1.05.P-Tu035 Does Exposure History Affect the Sensitivity of Sediment-Associated Microorganisms? | **Hajar Bourassi**, Institute for Environmental Sciences (iES Landau), University of Kaiserslautern-Landau (RPTU), Germany

1.05.P-Tu036 Interactive Effects of Pollutants and Parasites on Cyanobacterial Metabolism | **Erika Berenice Martinez-Ruiz**, Leibniz Institute of Freshwater Ecology and Inland Fisheries, Germany

1.05.P-Tu037 Toxicity of 'Eco-friendly' Plasticizers on Plastic-Degrading Bacteria: Effects on microbial biofilm formation and oxidative stress response | **Dana Mohamed**, Korea University, "Korea, Republic of"

1.05.P-Tu038 Exploring the Biodegradation of Microplastics Using Gut Microbiota from Freshwater Insects | **Dimitrija Savic-Zdravkovic**, University of Nis, Faculty of Sciences and Mathematics, Serbia

1.05.P-Tu039 Do microplastics change the microbial risk profile of wastewater? | **Olga Pantos**, Institute of Environmental Science and Research, New Zealand

1.05.P-Tu040 Microbial Degradation Potential of Hydrocarbon Contaminants in the Baltic Sea | **Joeselle Serrana**, Stockholm University Center for Circular and Sustainable Systems (SUCCeSS), Stockholm University, Sweden

1.05.P-Tu041 Sea urchin Microbiota/Immune Cell Model for Assessing the Mutual Immune Response to Nanoparticles | **Andi Alijagic**, Man-Technology-Environment Research Center (MTM), orebro University, Sweden

1.05.P-Tu042 Impact of Mining-Derived Metal Contamination on Fish Parasites at Tar Creek Superfund Site, Oklahoma | **Aryanna Carr**, Oklahoma State University, United States

1.05.P-Tu043 Ecotoxicological Assessment of a copper-based Nanopesticide toward Xenopus leavis and its gut microbiota | **Thomas Moura**, Centre de Recherche sur la Biodiversite et l'Environnement (CRBE), Universite de Toulouse, CNRS, IRD, Toulouse INP, Universite Toulouse 3 Paul Sabatier (UT3), France

1.05.P-Tu044 Effects of Graphene Oxide on Xenopus Laevis After Multi Pathway Exposure: Focus on Host Associated Microbiomes | **Florian Chapeau**, Centre de Recherche sur la Biodiversite et l'Environnement (CRBE), Universite de Toulouse, CNRS, IRD, Toulouse INP, Universite Toulouse 3 Paul Sabatier (UT3), France

1.05.P-Tu045 Assessing the Effects of Pollutants in Stormwater Wetlands on Sedimentary Microbial Community Structure Using eDNA Metabarcoding | **Anna Flynn**, RMIT University, Australia

1.05.P-Tu046 Soil Microbial Ecotoxicology - Protecting Ecosystem Key Players and Preserving Ecosystem Services | **Lara Jochum**, Ramboll Deutschland GmbH, Germany

1.05.P-Tu047 High-Throughput Screening of Organic Contaminants Affecting Host-Associated and Environmental Microbiomes | **Göksu Celik**, University of Vienna, Centre for Microbiology and Environmental Systems Science, Division of Environmental Geosciences, Austria

In silico New Approach Methodologies for Enhancing Understanding of Chemical Safety: Getting your Questions Answered by the Developers | Niladri Basu, Claudia Rivetti, Natalie Burden, Jessica Ewald

1.08.P-Tu048 The Many Pros and a Few Cons of Mechanistic in silico NAMs | **Paul Thomas**, KREATiS, France

1.08.P-Tu049 Performance Evaluation of QSAR Model "KATE2020" in Algal Toxicity Prediction using CSCL Newly Announced Chemical Substances as Validation Set | **Yuto Itami**, National Institute for Environmental Studies (NIES), Japan

1.08.P-Tu050 QSAR-ME Profiler 2025: QSAR predictions, similarity analysis, domain inspection and metabolites profiling | **Marco Evangelista**, QSAR Research Unit in Environmental Chemistry and Ecotoxicology, Department of Theoretical and Applied Sciences (DiSTA), University of Insubria, Italy

1.08.P-Tu051 Predictive model for identifying thyroid endocrine disrupting chemicals using the Comptox Chemicals Dataset | **Inhye Lee**, Department of Environmental Health Sciences, Seoul National University, "Korea, Republic of"

1.08.P-Tu052 Computational Approach to Evaluate Cross-Species Binding Affinity and Susceptibility of Endocrine Disrupting Chemicals in Consumer Products | **Keon Kang**, University of Seoul, "Korea, Republic of"

1.08.P-Tu053 An open-source computational pipeline for predicting binding affinity and use in chemical hazard and species sensitivity ranking. | **Nicolas Bury**, University of Southampton, United Kingdom

1.08.P-Tu055 Evidence-based model-informed platform to integrate knowledge and data towards prediction of apical toxicities | **Huan Yang**, onehealthsimulation, Netherlands

1.08.P-Tu056 Let's FOCUS: Temperature in Population Models | **Anna Huang**, Environmental Risk Assessment team, Wageningen Environmental Research, Netherlands

1.08.P-Tu057 Initial experience with the application of in silico methods in the context of the new EFSA/ECHA guidance on the impact of water treatment processes on the production of drinking water | **Antje Gerloff-Elias**, knoell Germany GmbH, Germany

Exploring the Complex Dynamics and Ecotoxicological Impacts of Micro- and Nanoplastics in Aquatic Systems | Georgiana Amariei, Raymond Kwong, Shooka Karimpour, Roberto Rosal

1.10.P-Tu058 Assessing the Plastic Removal Efficiency of Riverine Litter Collection and Prevention Solutions | **Mariana N. Miranda**, VLIZ - Flanders Marine Institute, Research Department, Ocean and Human Health Division, Belgium

1.10.P-Tu059 Evaluation of the effectiveness of flocculants in the removal of plastics in wastewater treatment plants and related ecotoxicological impacts | **Cristina Cremonesi**, University of Milan, Italy

1.10.P-Tu060 Modelling the environmental fate of microplastics with UTOPIA, an evaluative unit world model for microplastics | **Maria del Prado Domercq**, Stockholm University, Sweden

1.10.P-Tu061 Untangling the Influencing Factors Governing the Interaction Between Plastics and Metals: A Focus on Conventional and Compostable Plastics | **Ludovica Botta**, Department of Science and High Technology, University of Insubria, Italy

1.10.P-Tu062 Bridging Laboratory and Nature: Exploring the Adsorption Behaviours on True-to-Life Microplastics | **Mario Rigo**, University of Brescia, Italy

1.10.P-Tu063 Factors Impacting Resuspension of Microplastics from Rivers: Analysis of Burial and Shielding Effects of Sediment Beds | **Francesco Parrella**, ETH Zurich, Switzerland

1.10.P-Tu064 The Role of Flooding in the Distribution of Microplastics in an Arid Zone Stream | **Michael Barry**, Sultan Qaboos University, Oman

1.10.P-Tu065 Testing single and combined environmental stresses on their potential to induce microplastic fragmentation and dissolution: Results on abiotic hydrolysis | **Patrizia Pfohl**, BASF SE, Germany

1.10.P-Tu066 Microplastic Contamination at Various Early Developmental Stages of Marine Fish from Coastal Waters in Taiwan | **Ming-Yih Leu**, Department of Biology, National Museum of Marine Biology and Aquarium, Taiwan (Greater China)

1.10.P-Tu067 Identification and Characterization of Microplastics in Mussels from the Bay of Biscay | **Miren P Cajaraville**, CBET Research Group, Faculty of Science and Technology and Research Centre for Experimental Marine Biology and Biotechnology PiE, University of the Basque Country UPV/EHU, Spain

1.10.P-Tu068 The Role of Organismal Traits in Understanding Variability & Uncertainty in Reported Biota Microplastics Concentrations | **Davide Asnicar**, Huntsman Marine Science Centre, Canada

1.10.P-Tu069 A new active device for sampling microplastics in lakes: development of a floating sampling station | **Isabella Gambino**, University of Insubria, Italy

1.10.P-Tu070 Qualitative and Quantitative Assessment of Microplastics derived from Antifouling Paint in Effluent from Ship Hull Hydroblasting and Their Emission into the Marine Environment | **Taekhyun Kim**, Korea Institute of Ocean Science & Technology (KIOST), "Korea, Republic of"

1.10.P-Tu071 Integrating Metals in the Complex Array of (Micro)Plastic Additives: A Preliminary Screening in Conventional and Biodegradable Polymers | **Gilberto Binda**, Norwegian Institute for Water Research (NIVA), Norway

1.10.P-Tu072 Physical and Chemical Stability of Recycled Plastic Aggregates as Natural Aggregate Replacement in a Cementitious Matrix | **Hasanthi Kosgahakumbura**, Centre for Agroecology, Water and Resilience, Coventry University, United Kingdom

1.10.P-Tu073 Conventional and biodegradable microplastics influence nutrient cycling in the aquatic environment | **Ula Putar**, University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia

1.10.P-Tu074 Effects of plastics and tire rubber leachates on free-living freshwater bacteria | **Marius Schubert**, UBA, Germany

1.10.P-Tu075 Identification of Metabolism and Degradation Patterns of 6PPD-quinone in Aerobic Soil Using Liquid Chromatography-Tandem Mass Spectrometry | **Seonghoon Jeong**, Korea Institute of Toxicology (KIT), "Korea, Republic of"

1.10.P-Tu076 Impact of UV Weathered Polystyrene and Polyethylene Microplastics on Microbially Mediated Nitrate Reduction in Floating Treatment Wetlands | **Meredith Sutton**, University of Nebraska Lincoln, United States

1.10.P-Tu077 Unity Is Strength: Contrasting Responses in Group Formation Between the Green-algae Tetradesmus obliquus and the Cyanobacteria Dolichospermum flos-aquae When Exposed to Nanoplastics | **Franca Stabile**, Functional Ecology, Department of Biology, Lund University, Sweden

1.10.P-Tu078 Evaluation of Photosynthetic Parameters of Raphidocelis subcapitata Exposed to Polystyrene Micro- and Nanoplastics | **Giseli Swerts Rocha**, Universitat Rovira i Virgili, Spain

1.10.P-Tu079 Analysis of High Mass Polycyclic Aromatic Hydrocarbons (PAHs) Extracted from Microplastics Spilled in the Marine Environment | **Michael andrew McCullagh**, Waters Corporation, United Kingdom

1.10.P-Tu080 Investigating the Complex Impacts of Plastic Pollution in Aquatic Ecosystems: Insights from a Laboratory Experiment | **Gilberto Binda**, Norwegian Institute for Water Research (NIVA), Norway

1.10.P-Tu081 Ecotoxicological Assessment (Daphnia magna) of Safe, Sustainable and Recyclable by Design SURPASS Polymeric Alternatives for Food, Building, and Transport Applications | **Ruben Martinez**, Leitat Technological Center, Spain

1.10.P-Tu082 Combined toxicity of antibiotic ciprofloxacin and polylactic acid microplastics to Daphnia magna: Role of dissolved humic acid | **Hanseong Kim**, Division of Environmental Science and Ecological Engineering, Korea University, "Korea, Republic of"

1.10.P-Tu083 Ecotoxicity of microplastics from biodegradable mulch films: Metabolomic analysis on Daphnia magna | **Zhihan Chao**, Korea University, China (Mainland)

1.10.P-Tu084 Effect of Conventional and Biodegradable Microplastics on Daphnia magna Population | **Changhae Kim**, Korea University, "Korea, Republic of"

1.10.P-Tu085 Role of humic acid in the combined toxicity of biodegradable polylactic acid microplastics and the pesticide diflubenzuron to Daphnia magna | **Joorim Na**, OJeong Resilience Institute (OJERI), Korea University, "Korea, Republic of"

1.10.P-Tu086 Egestion Rates of Microplastics in Daphnia magna Depending on Food Uptake | **Haemi Kim**, Department of Environmental Health Science, Konkuk University, "Korea, Republic of"

1.10.P-Tu087 The long-term effects of plastics in semi-natural population of zooplankton | **Jyri Tiroriemi**, The Finnish Environment Institute, Finland

1.10.P-Tu088 Ingestion and depuration rates of Metal-Doped Nanoplastics (Pd-PS NPs) in pelagic and benthic copepods: Implications for trophic transfer | **Kevin Ugwu Hernandez**, Department of Science and Environment, Roskilde University, Denmark

1.10.P-Tu089 Distinct Chronic Toxic Effects of Fragmented and Fibrous Polyethylene Terephthalate Microplastics on Marine Amphipod Monocorophium uenoi | **Jinyoung Song**, korea institute of toxicology (KIT), "Korea, Republic of"

1.10.P-Tu090 Biological Response and Molting Regulation of Whiteleg Shrimp to Microplastic Fibers | **Lia Kim**, Konkuk University, "Korea, Republic of"

1.10.P-Tu091 Comparative Toxicity of Dialyzed Nanoplastic and Leachates in Zebrafish Larvae | **Mohamed Helal**, University of Southern Denmark (SDU), Denmark

1.10.P-Tu092 Effects of Field-Collected Microplastic Particles on Zebrafish (Danio rerio) Embryos: Importance of Particle Size | **Lisa Bauer**, Heidelberg University, Centre for Organismal Studies, Germany

1.10.P-Tu093 Nanoplastic alleviates neurotoxicity of mercury in zebrafish through regulating the metabolic pathways of brain-gut-microbiota axis | **Liqiang Chen**, Institute of International Rivers and Eco-security, Yunnan Key Laboratory of International Rivers and Trans-Boundary Eco-security, Yunnan University, China (Mainland)

1.10.P-Tu094 Polyvinyl Chloride Microplastics Modulate Fipronil Accumulation and Toxicity in Zebrafish | **Dali Wang**, Jinan University, China (Mainland)

1.10.P-Tu095 Multi-omics Insights into the Combined Ecotoxicity of Antibiotics and Microplastics in Zebrafish under Acute and Chronic Exposure | **Mingcan Li**, Department of Civil and Environmental Engineering, National University of Singapore, Singapore

1.10.P-Tu096 Application of Probabilistic Species Sensitivity Distribution Modelling to Characterize Microplastic Risk for Marine and Freshwater Environments | **Tham Hoang**, Auburn University, USA

1.10.P-Tu097 Horizontal gene transfer Antibiotic Resistance Gene in presence of Bio-plastics: PLA and PHBV | **Nhung H.A. Nguyen**, Institute for Nanomaterials, Advanced Technologies and Innovation, Technical University of Liberec, Czech Republic

1.10.P-Tu098 Microplastic Pollution: A Hidden Driver of Antibiotic Resistance Gene Transfer? | **Ting Zhang**, Blue Growth Research Lab (BGRL), Ghent University, Belgium

1.10.P-Tu099 Chironomids as Vectors for Microplastic Transfer Across Ecosystems | **Dimitrija Savic-Zdravkovic**, Faculty of Sciences and Mathematics, University of Nis, Serbia

1.10.P-Tu100 Natural particles to be used as reference for the risk assessment of particulate pollutants | **Sebastian Hoss**, Ecossa, Germany

Unraveling the Complexities of PFAS From Environmental Toxicology to Human Health | Francesco Dondero, Antreas Afantitis, Tommaso Serchi, Iseult Lynch

1.11.P-Tu101 Effects of flame retardants on survival, reproduction, energy metabolism, and transcriptional modulation of brackish water flea Diaphanosoma celebensis | **Young-Mi Lee**, Sangmyung University, "Korea, Republic of"

1.11.P-Tu102 Investigating In-vivo Toxicity of PFAS on the Development of Zebrafish Embryos as a Model for Environmental Impact | **Venkata Koulini Garimella**, Environmental Engineering Division, Department of Civil Engineering, Indian Institute of Technology Madras, India

1.11.P-Tu103 Toxicogenomic Assessment of PFAS in Modified Zebrafish Embryo Test (FET) and Immune-Challenged Assays | **Tim Benad**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

1.11.P-Tu104 Major Alterations in Guppy Reproductive Traits Induced by PFOA and GenX Environmental Concentrations | **Marianna Pauletto**, University of Padova - Department of Comparative Biomedicine & Food Science, Italy

1.11.P-Tu105 Hemolytic Activity and Proteomic Insights into PFAS Toxicity in Eisenia fetida | **Davide Rotondo**, Universit del Piemonte Orientale, Italy

1.11.P-Tu106 Modulatory Impact of PFAS on GABA Receptor-Mediated Currents in Neuron-like Cells | **Davide Rotondo**, Universit del Piemonte Orientale, Italy

1.11.P-Tu107 PFAS and nanoplastics co-exposure impacts on human intestinal cells: Combining metabolomics and phenomics | **Andi Alijagic**, Man-Technology-Environment Research Center (MTM), orebro University, Sweden

1.11.P-Tu108 Evaluating PFAS-Related Human Health and Environmental Risks before and after the implementation of the LIFE SOuRCE Solution | **Mireia Mesas**, Eurecat, Centre Tecnol gic de Catalunya. Water, Air and Soil Unit, Spain

1.11.P-Tu109 In Silico Classification Model to Screen the Potential Thyroid Hormone System-Disrupting Activity of Per- and Polyfluoroalkyl Substances | **Marco Evangelista**, QSAR Research Unit in Environmental Chemistry and Ecotoxicology, Department of Theoretical and Applied Sciences (DiSTA), University of Insubria, Italy

1.11.P-Tu110 Does the addition of perfluoro-moieties impact mechanisms of toxic action of organic chemicals? An in silico approach | **Paul Thomas**, KREATiS, France

1.11.P-Tu111 Scientific basis for guide values for 11 PFASs in soil | **Marion Junghans**, Ecotox Centre, Switzerland

1.11.P-Tu112 Transcriptomic Sensitivity of Acute and Chronic In Vitro Exposure to Perfluorooctanoic Acid in Human Vascular Endothelial Cells: Insights from Benchmark Concentration Modeling | **Marija Opacic**, University of Novi Sad, Faculty of Sciences, Department of Biology and Ecology, Serbia, Serbia

1.11.P-Tu113 In vitro toxicological assessment of PFAS using Seahorse extracellular flux analysis | **Eva Junque**, University of Birmingham, United Kingdom

1.11.P-Tu114 High serum concentrations of perfluoroalkyl substances (PFAS) in Norwegian children and associations with adverse health effects | **Maria Averina**, Department of Laboratory Medicine, University Hospital of North Norway, Norway

1.11.P-Tu115 Comparative Acute Toxicity Assessment of Fluorinated and Fluorine-Free Firefighting Foams on Zebrafish Embryos | **Simone Helmer**, University of Applied Sciences Vienna, Austria

1.11.P-Tu116 Membrane Water Partition Coefficients of Per- and Polyfluoroalkyl Substances (PFAS): A Promising Descriptor of their Bioaccumulation and Toxicity | **Ge Xie**, VU University Amsterdam (VU), Netherlands

1.11.P-Tu117 Applying Newly Suggested Simultaneous Analysis of Metabolomics and Lipidomics into Perfluorooctanesulfonate-derived Neurotoxicity Mechanism in Zebrafish Embryos | **Eun Ki Min**, Seoul National University Science and Technology, "Korea, Republic of"

1.11.P-Tu118 Early Detected Snapshot of Neurodevelopment Toxicity in Zebrafish Embryos Exposed to Perfluorooctanesulfonate | **Eun Ki Min**, Seoul National University Science and Technology, "Korea, Republic of"

1.11.P-Tu119 Immunotoxicity and Autotoxicity of Poly- and Perfluoroalkyl Substances in Fish | **Wenhui Qiu**, Guangdong Provincial Key Laboratory of Soil and Groundwater Pollution Control, School of Environmental Science and Engineering, Southern University of Science and Technology, China (Mainland)

1.11.P-Tu120 Additive Effects of PFAS Mixtures on Acute Toxicity, Phenotypic and Behavioral Endpoints in Zebrafish Embryos | **Wibke Busch**, Helmholtz Center for Environmental Research (UFZ), Germany

1.11.P-Tu121 Causal Analysis of PFAS Toxicity and Disease Associations Using Bayesian Networks with Data Integration | **Jaeseong Jeong**, University of Seoul, "Korea, Republic of"

1.11.P-Tu122 Head To Head: How Polar Head Group Drives Toxicity Of Per- And Polyfluoroalkyl Substances To Daphnia Magna | **Ge Xie**, Vrije Universiteit Amsterdam, Netherlands

1.11.P-Tu123 Discrepancies between CCK-8 and Trypan Blue Assays in PFAS-Exposed ZF4 Cells: Implications for Metabolic Stress Assessment | **Timothy Prince Chidike Ezeorba**, School of Geography, Earth, and Environmental Sciences, University of Birmingham, United Kingdom

1.11.P-Tu124 Evaluation of immunological impact of PFAS exposure on cytokine release and gender-based responses in PBMCs | **Luisa Nunziangeli**, Polo d'Innovazione di Genomica Genetica e Biologia, Italy

1.11.P-Tu125 Toxicokinetics of PFOS in freshwater macroinvertebrates | **Ayesha Siddiqa**, Wageningen University and Research (WUR), Netherlands

1.11.P-Tu126 An In-depth Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Prenatal and Cord Blood Samples | **Garry Codling**, Exeter University, United Kingdom

Endocrine Disruption Assessment: Opportunities to Enhance and Complement Current Approaches | Natalie Burden, Julie Krzykwa, Francesca Pellizzato, Lennart Weltje

1.12.P-Tu127 Learnings from Identification of Endocrine Disrupting Properties for the Environment under REACH with focus on Mode of Action Analysis | **Francesca Pellizzato**, European Chemicals Agency (ECHA), Finland

1.12.P-Tu128 Use Of The Weight-of-evidence In The Identification Of Endocrine Disruptors Under REACH | **Francesca Pellizzato**, European Chemicals Agency (ECHA), Finland

1.12.P-Tu129 Developing the new CLP Guidance on Endocrine Disrupting properties: Stakeholder engagement, key considerations and discussion points | **Francesca Pellizzato**, European Chemicals Agency (ECHA), Finland

1.12.P-Tu130 Variability of Vitellogenin in Fish Studies for Endocrine Assessment | **Simone Rizzuto**, European Food Safety Authority (EFSA), Italy

1.12.P-Tu131 Amphibian Studies Investigating the Endocrine Disrupting Properties of Chemicals: A comparison of their statistical power | **Simone Rizzuto**, European Food Safety Authority (EFSA), Italy

1.12.P-Tu132 How to break the silos and strengthen the weight of evidence: An example | **Maria Arena**, European Food Safety Authority (EFSA), Italy

1.12.P-Tu133 Avoiding unnecessary animal testing: Applying a weight of evidence approach to challenge regulatory decisions on endocrine disrupting potential | **Jutta Fuhlrott**, CFCS Consult GmbH, Germany

1.12.P-Tu134 Navigating New Challenges and Divergences in Endocrine Disruptor Assessments Under

European Regulations | **Chloe Eastabrook**, Enviresearch Ltd, United Kingdom

1.12.P-Tu135 A word of caution on the use of poorly documented Adverse Outcome Pathways for endocrine disruption assessment | **Laurent Lagadic**, Bayer AG, Crop Science Division, Germany

1.12.P-Tu136 The SETAC MAPPED workshop: Population modelling to assess the effects of endocrine disruption on freshwater fish | **Udo Hommen**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

1.12.P-Tu137 A 2024 Inventory of Test Methods Relevant to Thyroid Hormone System Disruption for Human Health and Environmental Regulatory Hazard Assessment | **Lucia Vergauwen**, Zebrafishlab, Veterinary Physiology and Biochemistry, University of Antwerp, Belgium

1.12.P-Tu138 Mapping, Identification, and Assessment of Endocrine Disrupting Chemicals | **Sandrine Andres**, INERIS, France

1.12.P-Tu139 Weight of evidence endocrine disruptor assessments for hydrocarbon UVCBs | **Rebecca Brown**, wca, United Kingdom

1.12.P-Tu140 Endocrine Disruption Assessment of UVCBs (substances of unknown or variable composition, complex reaction products or biological materials): A case study using grease thickeners | **Rebecca Brown**, wca Environment Ltd, United Kingdom

1.12.P-Tu141 Validation of the tFET: Enhancing the OECD 236 Fish Embryo Toxicity Test with Novel Endpoints to Assess Thyroidal Hormone System Disruption by Chemicals | **Stefan Hoeger**, Innovative Environmental Services (IES) Ltd, Switzerland

1.12.P-Tu142 The zebrafish extended one generation reproduction test (ZEOGRT) - experiences and current results from the validation exercise | **Matthias Teigeler**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

1.12.P-Tu143 An Extended Amphibian Metamorphosis Assay (EAMA) with the reference compound Propylthiouracil (PTU) | **Joseph Marini**, Smithers Environmental Risk Sciences, United States

1.12.P-Tu144 Advancing In Vitro Assessment of Iodide Uptake Inhibition: Integrating a Novel Biotransformation Pretreatment Step | **Klara Hilscherova**, RECETOX, Masaryk University, Czech Republic

1.12.P-Tu145 Assessment of the In Vitro Test Guideline OECD 455 for Detecting Estrogenic Activity using Animal-Free Conditions and Animal-Free Metabolization Systems | **Denise Horte**, Goethe-Universität Frankfurt, Faculty of Biological Sciences, Department Evolutionary Ecology and Environmental Toxicology, Germany

1.12.P-Tu146 Zebrafish hepatic 3D spheroid models for high-throughput screening of endocrine disruptors promoting steatotic liver disease | **Maria Hultman**, Norwegian Institute for Water Research (NIVA), Norway

1.12.P-Tu148 Morphological changes in brain development of zebrafish embryos after exposure to Thyroid Hormone System Disrupting Chemicals | **Elise Pesce**, Vrije Universiteit Amsterdam, Amsterdam Institute for Life & Environment, Section Environmental Health & Toxicology, Netherlands

1.12.P-Tu149 Comparison of Thyroid Disruption Potentials of Urinary Plasticizer Exposure Profiles among Children of Four Asian Countries using Larval Zebrafish | **Yujin Park**, Seoul National University, "Korea, Republic of"

1.12.P-Tu150 New Data To Determine The Thyroid Mode Of Action Covered By The Xenopus Eleutheroembryonic Thyroid Assay | **Gregory Lemkine**, Laboratoire Watchfrog S.A., France

1.12.P-Tu151 TG252 the Rapid Estrogen ACTivity In Vivo (REACTIV) Assay - Results from the OECD Validation and Next Steps | **Andrew Tindall**, Laboratoire Watchfrog S.A., France

1.12.P-Tu152 Identification of Chemical Substances with Ecdysteroid Activity in Daphnia magna using in Silico Analysis, in Vitro and in Vivo Assays | **Haruna Watanabe**, National Institute for Environmental Studies (NIES), Japan

1.12.P-Tu153 Investigation into the Mechanism(s) of Chronic Copper Effects on Zebrafish Reproduction | **Yamini Gopalapillai**, International Copper Association, Canada

1.12.P-Tu154 Developmental and Reproductive Toxicity of Bisphenol AP in the Great Pond Snail Lymnaea stagnalis | **Gaetan Yannick Tucoo**, University of Southern Denmark, Department of Biology, Denmark

1.12.P-Tu155 Chronic Effects of Bisphenol A and Three Structural Analogues on Freshwater Snails and Amphipods | **Natalie Reininger**, Goethe University Frankfurt, Institute for Ecology, Evolution and Diversity, Germany

1.12.P-Tu156 Effects of BPS on the Early Developmental Stage of Stickleback | **Ugo Iaria**, INERIS-UMR SEBIO, France

1.12.P-Tu157 Assessing safety of BPA alternatives: Impacts on Thyroid hormone system (THS)- and developmental neurotoxicity (DNT) sensitive endpoints in zebrafish (Danio rerio) | **Pernille Ambus Hansen**, University of Southern Denmark (SDU), Denmark

1.12.P-Tu158 New Approaches in the Evaluation of the Thyroid Disruptive Potential of BPA Analogues | **Monica Torres-Ruiz**, Centro Nacional de Sanidad Ambiental, Instituto de Salud Carlos III, Spain

1.12.P-Tu159 CRISPR/Cas9 makes its way into ecotoxicology - A tale of estrogenic antagonism | **Gustavo Guerrero-Limon**, Vitis Regulatory, Belgium

1.12.P-Tu160 QSAR in Silico Model for Predicting Thyroid Receptor Endocrine Disruption Potential | **Paul Thomas**, KREATiS, France

1.12.P-Tu161 Molecular Modeling Framework to Predict Protein-Ligand Interactions to Detect Endocrine Disrupting Potential of Chemicals, Upgrade and Validation | **Paul Thomas**, KREATiS, France

1.12.P-Tu162 In Silico Tools for Endocrine Disruption Assessment: A Focus on Human Transthyretin Disruptors | **Marco Evangelista**, QSAR Research Unit in Environmental Chemistry and Ecotoxicology, Department of Theoretical and Applied Sciences (DiSTA), University of Insubria, Italy

Evolutionary and Mechanistic Insights to Improve Ecotoxicology | Chao Zhang, Anita Jemec Kokalj, Matthias Liess, Carlos Barata

2.02.P-Tu163 Evolved Differences in Toxicity: Insights from the Daphnia pulex-Daphnia pulicaria complex | **Emily DeTemple**, Paul H. O'Neill School of Public and Environmental Affairs, Indiana University, United States

2.02.P-Tu164 Non-invasive automated approach for evaluating the size of small aquatic organisms: Daphnia magna case study | **Sizenando Abreu**, Centre for Environmental and Marine Studies (CESAM), University of Aveiro, Portugal

2.02.P-Tu165 Sex-specific Vulnerability of Marine, Freshwater and Terrestrial Animals to Pollutants: A Meta-analysis Study | **Eira Ronneberg**, Norwegian University of Life Sciences, Faculty of Environmental Sciences and Natural Resource Management, Norway

2.02.P-Tu166 Decades of e-waste recycling activities reshaped local mosquitofish by adaptation to AhR agonists | **Huizhen Li**, Jinan University, China (Mainland)

2.02.P-Tu167 Sensitivity of Fishes to Aryl Hydrocarbon Receptor Activation by Polycyclic Aromatic Hydrocarbons Follows Phylogenetic Relationships | **Justin Dubiel**, University of Lethbridge, Canada

2.02.P-Tu168 Exploring the Applicability of the OECD TG 249 Fish Cell Line Acute Toxicity Assay in Environmental Hazard and Risk Assessment of Cosmetic and Personal Care Product Ingredients | **Ryan Heisler**, ICCS, United States

2.02.P-Tu169 Comparing evolutionary AhR2-activation in transfected COS-7 cells exposed to the benzotriazole UV-stabiliser UV-P | **Andreas Eriksson**, University of Lethbridge, Canada

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2.04.P-Tu172 EthoCRED: A Framework to Guide Reporting and Evaluation of the Relevance and Reliability of Behavioural Ecotoxicity Studies | **Michael Bertram**, Swedish University of Agricultural Sciences (SLU), Sweden

2.04.P-Tu173 Environmentally relevant concentrations of seleno-methionine impair neurodevelopment and behaviour in larval zebrafish (Danio rerio) | **Md Helal Uddin**, Department of Biology, University of Saskatchewan, Canada

2.04.P-Tu174 Mechanism of ocular toxicity of antidepressants in zebrafish | **Marwin Jafari**, University of Stavanger, Department of Chemistry, Bioscience and Environmental Engineering, Norway

2.04.P-Tu175 High-Content Screening in C. elegans for Neuronanosafety: Impacts of Silver Nanoparticles on Neurodegeneration | **Nivedita Chatterjee**, International Iberian Nanotechnology Laboratory, Portugal

2.04.P-Tu176 Integrating habitat selection response with biochemical and behavioral effects in zebrafish caused by glyphosate under both forced and non-forced exposures | **Beatriz Barbosa Moreno**, Universidade Federal de Sao Paulo, Brazil

2.04.P-Tu177 Impacts of the Antidepressant Fluoxetine on Behaviours and Immune Responses in Fish | **Gabriel Melhado**, School of Biological Sciences, Monash University, Australia

2.04.P-Tu178 Neurobehavioural Effects of Bisphenol S on the Early Life Stages in Zebrafish (Danio rerio) | **A K M Munzurul Hasan**, Department of Biology, University of Saskatchewan, Canada

2.04.P-Tu179 From brain to sperm: how psychoactive drugs can affect fish reproduction | **Ganna Fedorova**, University of South Bohemia in ceske Budejovice Faculty of Fisheries and Protection of Waters, Czech Republic

2.04.P-Tu180 Exploring the Molecular Basis of Transient versus Persistent Behavioral Alterations Using a Multi-Omics Approach in the Zebrafish Model | **Colette vom Berg**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland

2.04.P-Tu181 Early life stress disrupts later life coping behaviours in zebrafish | **Carla Melo**, University of Aveiro - CESAM, Portugal

2.04.P-Tu182 Assessing Neurodevelopmental Impacts of a Novel Bio-Hybrid Fuel for Combustion Engines in Zebrafish | **Angelina Miller**, Institute for Environmental Research (IFER), RWTH Aachen University, Germany

2.04.P-Tu183 Psychoactive pollutant alters movement dynamics of fish in a natural lake system | **Jack Brand**, Swedish University of Agricultural Sciences (SLU), Sweden

2.04.P-Tu184 Behavioral and reproductive effects of the antidepressant fluoxetine associated with traditional and compostable microplastics | **Beatriz Barbosa Moreno**, Universidade Federal de Sao Paulo, Brazil

2.04.P-Tu185 Alterations in behaviour after exposure to leachate from SARS CoV-2 colloidal gold test strips in Danio rerio (zebrafish) | **Christene Goldman**, University of Johannesburg, South Africa

2.04.P-Tu186 In Silico Pre-Screening to Identify Neurotoxic Substances Which Are Considered Out of Applicability Domain for The Fish Embryo Acute Toxicity (FET) Test | **Pia Talja**, European Chemicals Agency (ECHA), Finland

2.04.P-Tu187 Neurobehavioral and neurochemical effects of nano-polypropylene accumulation in Zebrafish (Danio rerio) | **Minji Kim**, School of Environment and Energy Engineering, Gwangju Institute of Science and Technology (GIST), "Korea, Republic of"

2.04.P-Tu188 Flazasulfuron based-herbicide and glyphosate effects on zebrafish (Danio rerio) larvae behavior | **Dercia Santos**, Centre for the Research and Technology of Agro-Environmental and Biological Sciences, CITAB, University of Tras-os-Montes and Alto Douro, Portugal

2.04.P-Tu189 Innovative AI-Driven Bioluminescence Paper Biosensing: Advancing Rapid Toxicity Testing and Next-Generation Risk Assessment through Integrated Analytical and Computational Approaches | **Faisal Nazir**, Department of Chemistry Giacomo Ciamician , University of Bologna, Italy

2.04.P-Tu190 An effect of color? Impact of food dyes and micro(nano)plastics on fish | **Miguel Oliveira**, University of Aveiro, Portugal

2.04.P-Tu191 Fish on Zoloft: Physiological and Behavioural Effects of Sertraline on Danio rerio early life stages | **Miguel Oliveira**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

2.04.P-Tu192 BMAA-Induced Neurotoxicity: Unveiling the Behavioural and Developmental Impacts on Larval Zebrafish | **Jinnath Rehana Ritu**, Department of Biology, University of Saskatchewan, Canada

2.04.P-Tu193 Early stage behavior and sleeping pattern disorder in zebrafish larvae after DEP and BBzP exposure | **Woo-Keun Kim**, korea institute of toxicology (KIT), "Korea, Republic of"

2.04.P-Tu194 Neurotoxic effects of dibutyl phthalate and its metabolite in zebrafish larvae model | **Sangwoo Lee**, korea institute of toxicology (KIT), "Korea, Republic of"

2.04.P-Tu195 Ecotoxicological Effects of Imidacloprid: Study of Neurotoxic Impacts on Zebrafish Embryos and Daphnia Magna | **Ines Lacchetti**, Italian National Institute of Health, Italy

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3.01.P-Tu197 A new systems approach addressing chemical risks to terrestrial biodiversity in Europe | **Guy Duke**, Environmental Institute, Slovakia

3.01.P-Tu198 Integrated Solutions for Managing Contaminants of Emerging Concern: TerraChem's Approach to Data, Modeling, and Visualization in Terrestrial Ecosystems | **Guy Duke**, Environmental Institute s.r.o., Slovakia

3.01.P-Tu199 Enhanced EASZY Assay for a Comprehensive in vivo Endocrine Activity and Toxicity Assessment of Environmental Samples | **Alizee Desrousseaux**, INERIS, France

3.01.P-Tu200 High Throughput Adaptation of Standardized Ecotoxicological Tests for the Model Freshwater Invertebrate Daphnia magna | **Angel Ceballos Ramirez**, University of York, United Kingdom

3.01.P-Tu201 Make your research regulatory relevant: how scientists can contribute to validated and standardised test methods | **Blanca Suarez-Merino**, TEMAS Solutions GmbH, Switzerland

3.01.P-Tu202 Tailored analytical approaches for safety assessment | **Xiaoyu Zhang**, Flemish Institute for Technological Research (VITO), Belgium

3.01.P-Tu203 Determination of Technology-Critical Elements in Urban Plants and Water using Inductively Coupled Plasma Tandem Mass Spectrometry | **Simone Trimmel**, Montanuniversitat Leoben, Department General, Analytical and Physical Chemistry, Chair of General and Analytical Chemistry, Austria

3.01.P-Tu204 Enhancing Industrial Wastewater Monitoring: A Novel Dual Ionization GC-EI&CI HRTOFMS Approach for Comprehensive Pollutant Identification | **Eliška Ceznerová**, TOFWERK AG, Switzerland

3.01.P-Tu205 Development of a single biofilm extraction method for non-target analysis and bioassays to monitor wastewater micropollutants | **Anna Voiland**, Institut National de l Environnement Industriel et des Risques (INERIS), France

3.01.P-Tu206 Development of an Analytical Method for Dissociative Acidic Herbicides in Agricultural Commodities for Food Safety Monitoring | **Won-Yeong Choi**, Wonkwang University, "Korea, Republic of"

3.01.P-Tu207 The Molecular Structure and Composition of Indoor Dust Revealed by Comprehensive Multiphase Nuclear Magnetic Resonance Spectroscopy: Implications for Indoor Chemical Exposure and Risk Assessment | **William Fahy**, Department of Chemistry, University of Toronto, Canada

3.01.P-Tu208 Increased (S)VOC Identification in Complex Samples using a Dual-Ionization EI&CI-TOFMS hyphenated with a Flow Modulated GCxGC system | **Eliška Ceznerová**, TOFWERK AG, Switzerland

3.01.P-Tu209 Strategies and Approaches for Particulate Matter Analysis in Air | **Tom Hey**, PerkinElmer Inc. (US), Canada

3.01.P-Tu210 Identification of Urinary Biomarkers and Biotransformation Pathways of DEHCH: A Step Toward Improved Biomonitoring of Non-Phthalate Plasticizers | **Younglim Kho**, Eulji University, "Korea, Republic of"

3.01.P-Tu211 Enhanced Nanoplastics Detection via Optical-Photothermal Infrared (O-PTIR) Coupled with Simultaneous Raman Spectroscopy | **Miriam Unger**, Photothermal Spectroscopy Corp. GmbH, Germany

3.01.P-Tu212 Determination of food microplastics using depolymerization and ultra-performance liquid chromatography/tandem mass spectrometry | **Yang-Hsueh Chen**, Institute of Environmental and Occupational Health Sciences, College of Public Health, National Taiwan University, Taiwan (Greater China)

3.01.P-Tu213 Enhanced digital quantification of Microplastics using sequential Nile Red and Rose Bengal staining | **Benedetta Villa**, Department of Science and High Technology, University of Insubria, Italy

3.01.P-Tu214 Comprehensive Pesticide Screening with Dual Ionization GC-HRMS: Bridging Targeted and Non-Targeted Analysis | **Eliška Ceznerová**, TOFWERK AG, Switzerland

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3.09.P-Tu215 First steps in the non-targeted identification of poly- and perfluorinated substances using two-dimensional liquid chromatography coupled with high-resolution tandem mass spectrometry (LCÃ—LC-HRMS/MS) | **Lapo Renai**, Van t Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, Netherlands

3.09.P-Tu216 Non-targeted analysis of PFAS in drinking and source water using liquid chromatography high-resolution mass spectrometry and QSRR retention time prediction | **Yong-Lai Feng**, Health Canada, Canada

3.09.P-Tu217 Detecting PFAS beyond the Current Regulative Request: a Comprehensive Overview of the Contamination in Dutch Water by UPHLC-Ion mobility-HRMS | **Carsten Baessmann**, Bruker Daltonics GmbH & Co KG, Germany

3.09.P-Tu218 Identifying Hidden Trends in PFAS Exposure: A Retrospective Suspect Screening Study of High-Resolution Mass Spectrometry Data | **Federica Calabro**, University of Amsterdam - Van 't Hoff Institute for Molecular Sciences, Netherlands

3.09.P-Tu219 Identification of Transformation Products of Pharmaceutical Compounds Generated by Photo-degradation by Suspect and Non-Target Screenings | **Marie-Hel ne Devier**, Univ. Bordeaux, CNRS, Bordeaux INP, EPOC, France

3.09.P-Tu220 Rapid screening using an electronic nose for evaluating odor compound removal in reverse osmosis of oil sands process-affected water | **Eun Ju Kim**, Korea Institute of Civil Engineering and Building Technology, "Korea, Republic of"

3.09.P-Tu221 Assessment of Emerging Contaminants in Irrigation Canal Waters: A Suspected Non-target Screening Approach | **Igor Antic**, University of Novi Sad, Faculty of Technology, Serbia

3.09.P-Tu222 Natural Wetlands: Challenging the Conventional Perspective on Wastewater Treatment Processes | **Blake Hunnie**, Toxicology Centre, University of Saskatchewan, SK, Canada

3.09.P-Tu223 Prioritizing organic toxicants in hydraulic fracturing flowback and produced water from shale gas sites using integrative effect-directed analysis and nontarget screening | **Jing You**, Jinan University, China (Mainland)

3.09.P-Tu224 Combining Advanced Analytical and Effect-Based Approaches for Characterization of Wastewater | **Kevin Rocco**, orebro University, Man-Technology-Environment (MTM) Research Center, Sweden

3.09.P-Tu225 An Extensive Pollutant Characterization Method for Organic Fertilizers Combining Accelerated Solvent Extraction, Chemical Analysis and Cell-based Bioassays | **Rhayn Werz**, orebro University, Sweden

3.09.P-Tu226 Identification of Major AhR and ER Agonists in Freshwater Fish from the Gapcheon River in Korea Using Effect-Directed Analysis and Nontarget Screening | **Jihyun Cha**, Chungnam National University, "Korea, Republic of"

3.09.P-Tu227 Efficient Identification of Chemical Indicators for Enhanced Pollution Management in Industrialized Coastal Regions | **Mangong Shin**, Department of Marine Science and Convergence Technology, College of Science and Convergence Technology, Hanyang University, "Korea, Republic of"

3.09.P-Tu228 Non-Targeted Microplastic Leachate Analysis Using Dual Electron Ionization/Chemical Ionization Gas Chromatography-High Resolution Mass Spectrometry | **Pegah Mousazadehfazeli**, BOKU University, Institute of Analytical Chemistry, Austria

3.09.P-Tu229 Development of a GC-HRMS Spectral Database for Photolytic Degradation Byproducts of Common Organic Pollutants | **Thanh Wang**, Linkoping University, Sweden

3.09.P-Tu230 High-Resolution Mass Spectrometry Screening of Quaternary Ammonium Compounds (QACs) in Dust from Homes and Various Micro-environments in South China | **Guomao Zheng**, Southern University of Science and Technology, China (Mainland)

3.09.P-Tu231 Development and Validation of an Open Access High Resolution Mass Spectral Library for Detection of Food Toxicants | **Serena Rizzo**, Wageningen Food Safety Research (WFSR), Netherlands

3.09.P-Tu232 Analysis of Pesticide Residue Using High-Resolution Mass Spectrometry in Korea Herbal Medicines | **Hyeong-Wook Jo**, HKNU IACF, "Korea, Republic of"

3.09.P-Tu233 Development of an Optimized Workflow for Suspect Screening of Persistent, Mobile, and Toxic (PMT) Substances in Circular Food Systems | **Serena Rizzo**, Wageningen Food Safety Research (WFSR), Netherlands

3.09.P-Tu234 Combining Retention Factor and Retention Index: A new Approach for Enhancing Retention Prediction Using Chemometrics | **Jasmin Schwarte**, University of Amsterdam, Netherlands

3.09.P-Tu235 Refining Molecular Networks: The Power of Distance Metrics in Spectral Differentiation | **Quinten van Erp**, university of amsterdam, Netherlands

From Persistence to Mobility: Integrating Science with Policy and Bridging Gaps in Understanding Impact and Mobility | Adam Peters, Michael Neumann, Marie Collard

3.14.P-Tu236 Is the Organic Carbon Normalised Partition Coefficient the most Appropriate Measure of Partitioning for Substances that are Highly Mobile in the Environment? | **Adam Peters**, wca environment Ltd, United Kingdom

3.14.P-Tu237 Fate and Transport of Biosolid-derived PFAS Across the Terrestrial-aquatic Continuum of Agroecosystems | **Diana Oviedo Vargas**, Stroud Water Research Center, United States

3.14.P-Tu238 The Leaching Calculator: A Tool for Predicting Leachability within the Framework of Mobility in the New PMT/vPvM Hazard Class | **Dimitrios Skodras**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

3.14.P-Tu239 Challenges in assessing the mobility of specific substance groups | **Marlies Bergheim**, Henkel AG & Co, Germany

3.14.P-Tu240 Issues Related to the Measurement of Log Koc using the OECD TG 121 | **Marie Collard**, DSM-Firmenich, Belgium

3.14.P-Tu241 An Approach for Accounting for Structural Similarity in Reference Substance Selection for Highly Mobile Test Substances in OECD TG 121 and Similar Studies | **Sylwia Kosmala-Grzechnik**, wca, United Kingdom

3.14.P-Tu242 Finding the right way to address the potential Mobility - A case of fragrance material | **Aurelia Lapczynski**, Research Institute for Fragrance Materials, United States

3.14.P-Tu243 Development of a Screening Test for the Mobility of Polar and Ionisable Substances in the Environment | **Adam Peters**, wca environment Ltd., United Kingdom

3.14.P-Tu244 Mobility of micropollutants that may occur in surface water used for irrigation, in soil | **Radka Kodesova**, Czech University of Life Sciences Prague, Czech Republic

3.14.P-Tu245 Developing the new CLP Guidance on PBT/vPvB and PMT/vPvM properties: Stakeholder engagement, key considerations and other discussion points | **Kostas Andreou**, European Chemicals Agency (ECHA), Finland

3.14.P-Tu246 From Policy Making to Implementing: first lessons learned from the harmonisation of classification and labelling of Persistent and Mobile substances under CLP | **Kostas Andreou**, European Chemicals Agency (ECHA), Finland

3.14.P-Tu247 PBT/vPvB and PMT/vPvM as hazard classes in the environmental risk assessment of Human Pharmaceuticals | **Astrid Wiemann**, German Environment Agency (UBA), Germany

3.14.P-Tu248 Development of a Method for Analyzing Persistent, Mobile and Toxic Compounds, from Groundwater to Drinking Water, using LC-HRMS | **Clementine Gavalon**, Montpellier Alliance for Metabolomics and Metabolism Analysis, Platform On Non-Target Exposomics and Metabolomics (PONTEM), Biocampus, CNRS, INSERM, University of Montpellier, France

3.14.P-Tu249 Quantification of Prioritized Persistent Mobile and Toxic Substances in Urban Water of Barcelona: A Cross-Sectional Analysis of Rainfall, Runoff, and Infiltration Water | **Filippo Chierchini**, IDAEA-CSIC, Spain

3.14.P-Tu250 Integrating groundwater in the RAIDAR environmental fate model for the screening of PMT chemicals | **Alessandro Sangion**, ARC Arnot Research and Consulting Inc., Canada

3.14.P-Tu251 Development of experimental testing for the mobility assessment of chemicals during river-bank filtration | **Prasit Shrestha**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

Matching Microplastic and Nanoplastic Reference Materials to Exposure Scenarios | Denise Mitrano, Ines Zucker, Wendel Wohlleben, Andy Booth

3.22.P-Tu252 Polystyrene Nano- And Microplastics: Are We Using Relevant Particles For Exposure, Hazard, And Risk Assessment? | **Todd Gouin**, TG Environmental Research, United Kingdom

3.22.P-Tu253 Optimized Reprecipitation Method for Nanoplastics and Small Microplastics as Test Materials | **Jinyoung Jeong**, KRIBB, "Korea, Republic of"

3.22.P-Tu254 Additive Manufacturing of Monodisperse Microplastic Reference Particles Through Micro Extrusion | **Maurice Hauffe**, Dresden University of Applied Sciences (HTWD), Germany

3.22.P-Tu255 Influence of fragmentation techniques on the biotic aging of polystyrene and polypropylene microplastics | **Gabriela Kalcikova**, Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia

3.22.P-Tu256 Developing Reference Materials for Thermal and Vibrational Analysis of Microplastics | **Huiling Liu**, Chiron, Norway

3.22.P-Tu257 Production of a 1-10 µm polypropylene reference material for development of analytical methods | **Andy M. Booth**, SINTFE Ocean, Norway

3.22.P-Tu258 Impact of UV-Induced Aging on Microplastic Composition: Identification Challenges, and Implications for Environmental Monitoring | **Isabella Gambino**, University of Insubria, Italy

3.22.P-Tu259 Experiments on fragmentation and abrasion of plastics by sediments and impacts on accelerated chemical leaching | **Francesca De Falco**, School of Biological and Marine Sciences, University of Plymouth, United Kingdom

3.22.P-Tu260 Preparation and Characterisation of Representative Micro and Nanoplastic Test Materials | **Luke Parker**, TNO, Netherlands

3.22.P-Tu261 Processing Tablets as Reference Material for Microplastics Quantification in Environmental and Food Matrices | **Mara Putzu**, National Institute of Metrological Research, INRiM, Italy

3.22.P-Tu262 Advanced approach to collect small microplastics in environmental water samples using automatic sample preparation technique | **Yoshio Ikezawa**, Shimadzu Corporation, Japan

3.22.P-Tu263 Extracting and Quantifying Nanoplastics in Food Matrices | **Enrica Alasonati**, National Metrology Institute of France (LNE), Paris, France

3.22.P-Tu264 A Roadmap for Harmonized Microplastic Analysis in Textile Wastewater Treatment Plants | **Serena Ducoli**, DIMI, University of Brescia and INSTM, Italy

3.22.P-Tu265 Developing a Protocol for Accurate Qualitative Assessment of Paint-Derived Microplastics in the Environment: Density and FTIR Analysis | **Taekhyun Kim**, Korea Institute of Ocean Science & Technology (KIOST), "Korea, Republic of"

3.22.P-Tu266 Development of Analytical Methods for Polymers (Unique Plastics) That Cannot Be Analyzed by Hydrogen Peroxide Oxidation Treatment | **Emiko Fujita**, Chiba Institute of Technology, Japan

3.22.P-Tu267 Innovations in Microplastic Measurement: A Pyrolysis-Gas Chromatography/Mass Spectrometry for a Polyethylene Terephthalate Reference Material | **Soledad Muniategui-Lorenzo**, University of A Coru a, Spain

3.22.P-Tu268 Identification of Microfibers Released from Textiles in Simulated Accelerated Washing Using International Standards: Implications for Comparative Analyses | **Ana Patrício Silva**, Center for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Campus Santiago, Portugal

3.22.P-Tu269 Approaches and Strategies for the Detection and Quantification of Nano and Microplastics by Single Particle Inductively Coupled Plasma Mass Spectrometry | **Tom Hey**, PerkinElmer, Canada

3.22.P-Tu270 Detection of Nanoplastics in Liquid Using Surface-Enhanced-Raman-Spectroscopy-tags | **Moritz Haffner**, Adolphe Merkle Institute, University of Fribourg, Switzerland

3.22.P-Tu271 Advancing Microplastic Research through True-to-Life Micro- and Nanoplastics for Environmental and Biological Studies | **Stefania Federici**, Chemistry for Technologies Laboratory, Department of Mechanical and Industrial Engineering, University of Brescia & INSTM RU of Brescia, Italy

3.22.P-Tu272 Investigation of fluorescent polystyrene uptake in Caco-2 cells using microplate readers | **Xiaohui Lin**, University College Dublin, Ireland

3.22.P-Tu273 Leaching of Plastic Additives from Custom-Made Polymers into Artificial Gut Fluids | **Karla Schmitz**, Helmholtz Center for Environmental Research (UFZ), Germany

3.22.P-Tu274 Influence of additives on the abiotic degradation of polyethylene plates | **Hulya Markl-Hahn**, Polymer Engineering, University of Bayreuth, Germany

3.22.P-Tu275 Investigation of The Photo-oxidation and Casein Interaction of Polystyrene Microplastics | **Emine Merve Canga**, University College Dublin, Ireland

3.22.P-Tu276 Bioprocessing of Printed Circuit Board microplastics | **Diogo A. Ferreira-Filipe**, Centre for Environmental and Marine Studies (CESAM) & Department of Chemistry, University of Aveiro, Portugal

3.22.P-Tu277 Rethinking Biofilms on Plastics as Environmental Defenders | **Isabel Gossmann**, Department of the Built Environment, Aalborg University, Denmark

Emerging and Novel Per- and Polyfluoroalkyl Substances (PFASs): Latest Findings and Innovation Towards Safe and Sustainable Alternatives | Zhanyun Wang, Ian Cousins

3.25.P-Tu278 A Green Transition? An Overview of Current Uses of Per- and Polyfluoroalkyl Substances in the Shift from Fossil Fuels to Green Energy | **Amanda Rensmo**, Department of Environmental Science, Stockholm University, Sweden

3.25.P-Tu279 Improved Prediction of Partitioning Properties for Data-Poor PFAS (Per- and Polyfluoroalkyl Substances) | **Trevor Brown**, ARC Arnot Research and Consulting Inc. AND University of Toronto, Canada

3.25.P-Tu280 Rapid Screening and Targeted Analysis of PFAS in Feminine Hygiene Products | **Alyssa Wicks**, University of Notre Dame, United States

3.25.P-Tu281 Comprehensive Characterization of Side-Chain Fluorinated Polymers in Consumer Products via Pyrolysis-GC-HRMS and NMR | **Racchana Ramamurthy**, McGill University, Canada

3.25.P-Tu282 Routine PFAS Testing Of Surface Water Samples Using TOP Assay and ACQUITY™ QDa™ II Mass Detector | **Michael Andrew McCullagh**, Waters Corporation, United Kingdom

3.25.P-Tu283 High-Resolution Mass Spectrometry Screening of Per- and Polyfluoroalkyl Substances (PFAS) in Plastic Products | **Xiaoyuan Guo**, Southern University of Science and Technology, China (Mainland)

3.25.P-Tu285 Simultaneous Detection of Legacy and Emerging PFAS: Gas/Particle Distribution and Partitioning in Seoul | **Jun-Tea Kim**, Center for Climate and Carbon Cycle Research, Korea Institute of Science and Technology (KIST), "Korea, Republic of"

3.25.P-Tu286 Fate and effects of perfluoroalkyl substances and their alternatives in the marine environment | **Aasim Ali**, IMR Norway, Norway

3.25.P-Tu287 Per- and Polyfluoroalkyl Substances (PFAS) Levels in Urban Stormwater Runoff Demonstrate the Importance of Outdoor Sources | **Kelly Moran**, San Francisco Estuary Institute, United States

3.25.P-Tu288 Emerging Patterns and Distributions of Select Per and Polyfluoroalkyl Substances (PFAS) in Nebraska Drinking Water | **Sarah Tucker**, University of Nebraska Medical Center, United States

3.25.P-Tu289 Wildlife affected by PFAS from remote areas in Central Europe | **Viktoria Mueller**, The James Hutton Institute, Austria

3.25.P-Tu290 Tissue-Specific Biodistribution of Emerging Per- and Polyfluoroalkyl Substances (PFAS) for Biomagnification Estimation in a Process-Based Aquatic Trophic Model | **Jingxiang Rockson Liu**, Department of Civil and Environmental Engineering, National University of Singapore, Singapore

3.25.P-Tu291 Preliminary assessment of the zebra mussel (Dreissena polymorpha) as a sentinel organism to monitor legacy and emerging PFAS in an urban river: A case study on the Seine River (France) | **Pierre Labadie**, CNRS, Universite de Bordeaux, UMR 5805 EPOC, France

3.25.P-Tu292 Toxicological Effects of PFOS and PFBS on Rainbow Trout: In Vitro and In Vivo Approaches | **Monica Hamann Sandgaard**, University of Gothenburg, Sweden

3.25.P-Tu293 Deriving Soil Threshold Values for PFASs - Navigating Toxicity, Exposure, and Practical Limits | **Elvira Rudin**, Institute of Biogeochemistry and Pollutant Dynamics (IBP), Department of Environmental Systems Science, ETH Zurich, Switzerland

3.25.P-Tu294 Enhancing Removal Efficiency of Short-Chained PFAS Using a Two-Step Treatment Train: Flocculation and Sorption | **Ingvild Haneset Nygaard**, Norwegian University of Life Sciences, Norway

3.25.P-Tu295 Soil Column Chromatography Coupled with Mass Spectrometry to Investigate the Sorption of Per- and Polyfluoroalkyl Substances (PFASs) | **Anh T.Ngoc Do**, National Institute for Environmental Studies (NIES), Japan

3.25.P-Tu296 Liquid Chromatography Retention Factors as a Metric for Hydrophobic Sorption Properties of Anionic PFAS | **Satoshi Endo**, National Institute for Environmental Studies (NIES), Japan

3.25.P-Tu297 Evaluating PFAS Adsorption with Potash Alum and Chitin-Modified Biochar | **Kayla Collins**, University of Maryland Eastern Shore, United States

3.25.P-Tu298 Contributions on the development, implementation and assessment of SSbD alternatives to PFASs in the packaging industrial sector | **Maria Rivero**, ITENE, Spain

3.25.P-Tu299 Implementing the Safe and Sustainable by Design (SSbD) criteria at an early innovation stage to develop biobased PFAS alternatives for textiles | **Steffen Schellenberger**, RISE Research Institutes of Sweden, Sweden

Mercury In The Environment - Science To End Mercury Pollution | Tom Cresswell, Tarren Reitsema

3.26.P-Tu300 Mercury in seafood - A persuasive argument to reduce mercury pollution from small-scale gold mining activities? | **Amanda Reichelt-Brushett**, Southern Cross University, Australia

3.26.P-Tu301 Mercury on the rise in aquatic biota from freshwater and marine ecosystems: A South African perspective | **Johannes Erasmus**, Water Research Group, Unit for Environmental Sciences and Management, South Africa

3.26.P-Tu302 Innovative High-Throughput Method for Ultratrace Methylmercury Detection in Biological Samples: A Breakthrough in Biomonitoring for Public Health Risk Assessment | **Davide Spanu**, University of Insubria, Italy

3.26.P-Tu303 A [203Hg]-Metacinnabar Radiotracer to Model the Behaviour and Impacts of Mercury in Decommissioned Subsea Oil and Gas Pipelines | **Elisabeth Tondl**, ANSTO, Australia

3.26.P-Tu304 A perspective on mercury methylation promoted by particulate mercury species in aquatic environments | **Yong Cai**, Florida International University, United States

3.26.P-Tu305 Mercury in a Low Trophic Level Prey-Predator System: The Freshwater Gammarid Gammarus pulex and Juvenile Brown Trout Salmo trutta | **Poul Bjerregaard**, Department of Biology, University of Southern Denmark, Denmark

3.26.P-Tu306 Mercury Accumulation in Corbicula Clams: Insights into Freshwater Pollution in South Africa | **Wynand Malherbe**, Water Research Group, UESM, North-West University, South Africa

3.26.P-Tu307 Mercury In Offshore Oil and Gas Infrastructure; Informing Ecological Risk Assessments For Decommissioning | **Tom Cresswell**, ANSTO, Australia

POSTER AREA 2 (Hall X3, Level -2)

Statistics for Risk Assessment from Tried and Tested to New and Exciting Methods | Pernille Thorbek, Magdalena Mair, Benjamin Daniels, Raoul Wolf

4.03.P-Tu316 Applying Generalized Linear Mixed Models (GLMM) for the Evaluation of Ecotoxicological Endpoints in a Regulatory Context: A Framework Demonstrated by a Small Mammal Case Study | **Oliver Jakoby**, RIFCON GmbH, Germany

4.03.P-Tu317 Four-parameter nonlinear regression and maximum achievable effect in ecotoxicology: Just visually appealing or biologically relevant? | **Benjamin Daniels**, ToxRat Solutions, Germany

4.03.P-Tu318 Leveraging Bayesian Regression Models and Data Literacy for Better Decision-Making | **Raoul Wolf**, Norwegian Geotechnical Institute (NGI), Norway

4.03.P-Tu319 Alternative Approaches to Deal with Difficult Cases in the Statistical Analysis of Ecotoxicological Data | **Zhenglei Gao**, Bayer AG, Germany

4.03.P-Tu320 Land-Use Suitability Decision Support System Tools: GIS & Geostatistical Models Versus CLEA & ICRCL Approaches for Tangier Portsmouth Landfill Site Investigation | **Precious Odika**, University of Portsmouth, United Kingdom

4.03.P-Tu321 Workshop on generating BMD10s for wild mammals under EFSA's 2023 Bird and Mammals GD | **Manousos Foudoulakis**, Corteva Agriscience, Greece

4.03.P-Tu322 Avian Reproduction Studies: Alternative Experimental Design and Statistical Methodology | **Manousos Foudoulakis**, Corteva Agriscience, Greece

4.03.P-Tu323 Critical Evaluation and Meta-Analysis of Ecotoxicological Data on Per- and Polyfluoroalkyl Substances (PFAS) in Freshwater Species | **Lixi Wang**, Key Laboratory for Earth Surface Processes, College of Urban and Environmental Sciences, Peking University, China (Mainland)

4.03.P-Tu324 How normalization and choice of endpoint of receptor based in vitro assays affect the Results | **Nina Cedergreen**, University of Copenhagen, Denmark

4.03.P-Tu325 AI-aided chronic mixture risk assessment along a small European river in Central Germany | **Fabian Weichert**, Goethe University Frankfurt, Germany

4.03.P-Tu326 Revisiting Some Decision Flowcharts for the Statistical Analysis of Ecotoxicological Data | **Zhenglei Gao**, Bayer AG, Germany

4.03.P-Tu327 Equivalence testing in honeybee semi-field studies | **Magdalena Mair**, Statistical Ecotoxicology, University of Bayreuth, Germany, Germany

Mechanistic Effect Models and Statistical Methods in Regulatory Science: Progress and Innovation for Environmental Risk Assessment? | Andreas Focks, Sandrine Charles, Peter Vermeiren, Sabine Duquesne

4.04.P-Tu328 Using GUTS Models to Predict Margins-of-Safety to Effects of Measured Pesticide Mixtures | **Paula Scharlach**, Osnabruck University, Germany

4.04.P-Tu329 TKTD models for aquatic primary producers - a new SETAC working group | **Udo Hommen**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

4.04.P-Tu330 A TKTD Module for BEEHAVEecotox - Combining BEEHAVEecotox and BeeGUTS | **Vanessa Roeben**, Bayer AG, Germany

4.04.P-Tu331 Applying a Toxicokinetic-Toxicodynamic Model to Risk Assessment of a Rooted Macrophyte, Myriophyllum spicatum | **Anastasia Del Signore**, Corteva Agriscience, Germany

4.04.P-Tu332 Moving Towards Standardisation of Literature-Based Parametrisation of DEB Models for Regulatory Relevant Non-Target Arthropods: Insights from Four Case Studies | **Josef Koch**, gaiac Research Institute, Germany

4.04.P-Tu333 Grassland as surrogate crop for winter cereals in common vole field effect studies - Hypothesis testing using mechanistic effect modelling | **Oliver Jakoby**, RIFCON GmbH, Germany

4.04.P-Tu334 APODEMUS, a Population Model for the Wood Mouse: Transparent Conceptual Model Development with Stakeholder Involvement | **Amelie Schmolke**, RIFCON GmbH, Germany

4.04.P-Tu335 Individual-Based Models (IBMs) for Fish in the Regulatory Risk Assessment of Plant Protection Products - A Practical Method | **Alice Tagliati**, Enviresearch Ltd, United Kingdom

4.04.P-Tu336 Determine Endpoints on Visual Effects for Terrestrial Plant (NTTP) Risk Assessment using deterministic and stochastic (Bayesian) statistics | **Thomas Graff**, German Environment Agency (UBA), Germany

4.04.P-Tu337 Tailored test designs to address actual challenges through mechanistic modeling - A case study for temperature dependent effects of Imidacloprid | **Silke Classen**, gaiac Research Institute, Germany

4.04.P-Tu338 How to determine if an effect in a population model should be considered "adverse"? | **Alice Tagliati**, Enviresearch Ltd, United Kingdom

4.04.P-Tu339 Spatial Heterogeneity of Environmental Exposure and Risk Assessment at Different Scales - Linking Exposure and Effects (ELINK-2) | **Oliver Jakoby**, RIFCON GmbH, Germany

4.04.P-Tu340 Advantages of Modeling Dose Response Mechanistically | **Daniel Burkow**, Bayer AG, Germany

Antimicrobials and Antimicrobial Resistance in the Environment | Joanne Elmoznino, Wiebke Schmidt, Jens Schonfeld, Laura Carter

4.08.P-Tu341 Monitoring Antibiotics and Antimicrobial Resistance in an Urban Waterway | **Shubham Anarug**, Department of Chemical Engineering, Indian Institute of Technology Madras, India

4.08.P-Tu342 Multi-contamination and antimicrobial resistance genes in a stretch of River Danube | **Paola Grenni**, Water Research Institute, National Research Council, Italy

4.08.P-Tu343 Monitoring Antibiotic Resistance from Hospital Effluent and Wastewater Treatment Plant to Surface Waters | **Judit Kalman**, Rey Juan Carlos University, Spain

4.08.P-Tu344 Dissemination of antimicrobial resistance contaminants from on-site sewage facilities and potential mitigation strategies | **Valentina Ugolini**, Swedish University of Agricultural Sciences (SLU), Sweden

4.08.P-Tu345 Tracking Antimicrobial Resistance in Hyderabad's Musi River: Identifying Simple Markers for Wastewater-Driven AMR Pollution | **Vikas Sonkar**, Indian Institute of Technology Hyderabad (IITH), India

4.08.P-Tu346 Antibiotic resistance in Lactococcus garvieae in Italy: temporal dynamics and geographic patterns | **Paolo Pastorino**, The Veterinary Medical Research Institute for Piedmont, Italy

4.08.P-Tu347 Speciation/Characterisation of Chemical of Concern in Livestock Farming Systems | **Tolulope Lawrence**, University of Bath, United Kingdom

4.08.P-Tu348 Manipulating the Antimicrobial Resistance Profile of Poultry Litter and Investigating the Effect on Microbial Community Composition and the Degradation of Trimethoprim | **Bethany Adams**, University of Leeds, United Kingdom

4.08.P-Tu349 Antimicrobial resistance profiles of Lactococcus garvieae and L. petauri isolated from cultured rainbow trout in Türkiye, Italy, Spain and Greece | **Paolo Pastorino**, The Veterinary Medical Research Institute for Piedmont, Italy

4.08.P-Tu350 In-vitro analysis of environmental factors-induced responses in multidrug-resistant Escherichia coli strains | **Maria Rosa Loffredo**, Istituto Superiore di Sanit, Environment and Health Department, Ecosystem and Health Unit, Italy

4.08.P-Tu351 A Mesocosm Study to Assess the Effects of Benzalkonium Chloride on Biofilm, Phytoplankton, and Zooplankton | **Karen Kidd**, McMaster University, Canada

4.08.P-Tu352 Sulfamethoxazole and copper effects on the plant-microbiome system in an agricultural fertilized soil | **Paola Grenni**, Water Research Institute-National Research Council, Italy

4.08.P-Tu353 Antimicrobial activity of Cadmium Sulphide nanoparticles against microbial contaminants from wastewater environment | **Mzimkhulu Monapathi**, Vaal University of Technology, South Africa

4.08.P-Tu354 Can the Type of Inhibitor Interfere with the Adsorption Dynamics of Antibiotics in Granular Anaerobic Sludge? | **Elias Gabriel Fernandes de Rezende**, Environmental Biotechnology Laboratory - Faculty of Animal Science and Food Engineering - FZEA/USP, Brazil

4.08.P-Tu355 Enhanced Antibiotic Removal in Anaerobic Wastewater Treatment Using Granular Activated Carbon | **Thiago Vinicius Ribeiro Soeira**, Biological Processes Laboratory (LPB), Sao Carlos School of Engineering (EESC), University of Sao Paulo (USP), Brazil

4.08.P-Tu356 Advancing Antimicrobial Resistance Control: Electro-Oxidation Technology for Wastewater Treatment with Comprehensive Ecotoxicology Assessment | **Thara Methale Velakkath Paramba**, Indian Institute of Technology Madras (IIT Madras), India

4.08.P-Tu357 Accounting for Microorganisms Yields Stricter Water Quality Criteria and Elevated Ecological Risks of Antibiotics: A Case Study of Sulfonamides in the Yangtze River Delta | **Nan Lin**, Shanghai Jiao Tong University, China (Mainland)

4.08.P-Tu358 Using Bayesian Networks for antimicrobial resistance risk assessment: A conceptual framework | **Mads Troldborg**, James Hutton Institute, United Kingdom

4.08.P-Tu359 Environmental Quality Standards for Antimicrobials: A Challenge for Regulatory Risk Assessment | **Gianna Ferrari**, Swiss Centre for Applied Ecotoxicology, Dubendorf/Lausanne, Switzerland

4.08.P-Tu360 Do clarithromycin, ciprofloxacin or tetracycline pose a risk for AMR selection in the environment? A check via classical PEC/PNEC approach | **Patrick Schroder**, German Environment Agency (UBA), Germany

4.08.P-Tu361 A risk-based quantitative regulatory approach to implement the assessment of AMR spread via the environment in pharmaceutical authorisation | **Patrick Schroder**, German Environment Agency (UBA), Germany

4.08.P-Tu362 The collaborative AMR Multi-Stakeholder Partnership Platform: A great opportunity to engage with partners from around the globe to address the challenges of the global risk of antimicrobial resistance | **Paola Grenni**, National Research Council, Water Research Institute, Italy

Pharmaceuticals in the Environment: Innovations in Risk Assessment, Regulation, and the Science Globally | John Wilkinson, Todd Davidson, Gerd Maack, Dean Leverett

4.14.P-Tu363 Integrating Predictive Modelling and Wastewater-Based Epidemiology for Comprehensive Environmental Risk Assessment of Pharmaceutical | **Kishore Kumar Jagadeesan**, Environmental Chemistry and Public Health Research Group, Department of Chemistry, University of Bath, United Kingdom

4.14.P-Tu364 Suspect screening of pharmaceutically active compounds in river ecosystem by high-resolution mass spectrometry | **Juan Escobar Arnanz**, CIEMAT, Spain

4.14.P-Tu365 Spatiotemporal Dynamics and Ecological Risks of Pharmaceuticals and Personal Care Products in Korean Rivers | **Jun Yub Kim**, Gwangju Institute of Science and Technology, "Korea, Republic of"

4.14.P-Tu366 Pharmaceutical Contamination in European Groundwater and Drinking Water | **Annaliese Vernon**, DTU, Denmark

4.14.P-Tu367 Evaluation of Environmental Risks Posed by Pharmaceutically Active Compounds in the Great Backa Canal | **Maja Buljovcic**, University of Novi Sad, Faculty of Technology Novi Sad, Serbia

4.14.P-Tu368 Assessing the environmental risk of pharmaceuticals in the Italian waters: An integrated approach | **Sara Valsecchi**, Water Research Institute - Italian National Research Council (IRSA-CNR), Italy

4.14.P-Tu369 Pharmaceutical removal via anaerobic digestion in different wastewater matrices: Kinetic assessment, ecotoxicological effects and biotransformation products | **Matheus Neves de Araujo**, Biological Processes Laboratory (LPB), Sao Carlos School of Engineering (EESC), University of Sao Paulo (USP), Brazil

4.14.P-Tu370 Ecotoxicological response of lichens to pharmaceuticals in the terrestrial environment | **Gintare Sujetoviene**, Vytautas Magnus University, Lithuania

4.14.P-Tu371 Assessing Environmental and Endocrine Risks of Diclofenac Liposome Encapsulation and Its Byproducts | **Carolina Machado**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

4.14.P-Tu372 Developments towards a marine Environmental Quality Standard (EQS) for Diclofenac | **Dean Leverett**, wca environment Ltd, United Kingdom

4.14.P-Tu373 A framework for interdisciplinary environmental risk assessments of antibiotics: From patient to the environment | **Qiyun Zhang**, Laboratory of Environmental Toxicology and Aquatic Ecology (GhEnToxLab), Department of Animal Sciences and Aquatic Ecology, Belgium

4.14.P-Tu374 Improving monitoring and environmental risk assessment of pharmaceuticals, antimicrobial resistance and pathogens from terrestrial to aquatic environments | **Paul Thomas**, KREATiS, France

4.14.P-Tu375 Assessing Reliability and Applicability of In Silico Tools for Chronic Aquatic Ecotoxicity of Human Pharmaceuticals | **Cristiana Cannata**, Radboud University, Netherlands

4.14.P-Tu376 Utilising Optimised Machine Learning Soil and Sediment Sorption Models for Pharmaceutical Mobility Classification | **Nahum Ashfield**, University of York, United Kingdom

4.14.P-Tu377 Prioritising Pharmaceuticals by Comparing Plasma Concentrations Predicted by a Fish PBK Model with Human Therapeutic Plasma Concentrations | **Charlie Davey**, Radboud University, Netherlands

4.14.P-Tu378 Quantification of the Potential Hazard and Risk of Pharmaceutical and Personal Care Products in Wastewater Treatment Plants, Combined with Hazard and Risk Screening Using In Silico Approaches | **Marco Evangelista**, QSAR Research Unit in Environmental Chemistry and Ecotoxicology, Department of Theoretical and Applied Sciences (DiSTA), University of Insubria, Italy

4.14.P-Tu379 PECsw refinement approaches in medical products with no well-defined treatment regimen | **Giulia Baldone**, Chemsafe Srl, Italy

4.14.P-Tu380 Assessing the Value of Including Sediments in OECD 106 Studies for Pharmaceutical Environmental Risk Assessments | **Richard Murray-Smith**, Regulatory Science Associates, United Kingdom

4.14.P-Tu382 Implementation Details Matter: Defining Micropollutants and their Hazardousness in the Context of the European Union's Revised Urban Wastewater Treatment Directive | **Sagar Thakali**, Kenvue, United States

4.14.P-Tu383 Using a Consistent Framework for Literature Reviews Improves Confidence in Environmental Risk Assessment of Pharmaceuticals | **Sagar Thakali**, Kenvue, United States

4.14.P-Tu384 A Standard Approach for Literature Data Review Required Under Revised EU Pharmaceutical Environmental Risk Assessment Guidance | **Rebecca Brown**, wca Environment Ltd, United Kingdom

4.14.P-Tu385 Applicability of the European Commission's framework on safe and sustainable by design to the pharmaceutical sector | **Elisabetta Abbate**, Department of Environmental Science, Radboud University Nijmegen & European Commission, Joint Research Centre, Italy

4.14.P-Tu386 Pan-European Risk of in-use Pharmaceuticals to the Environment | **Sarah Roberts**, UK Centre for Ecology and Hydrology, United Kingdom

4.14.P-Tu387 Exploring the Trade-Off Between Environmental Impact and Therapeutic Effect. A cross sectional study assessing preferences among Swedish general practitioners | **Johanna Villen**, Uppsala University, Sweden

4.14.P-Tu388 Unnecessary Fish Bioaccumulation Testing of Pharmaceuticals Driven by Use of Ion-Corrected LogDow in PBT Assessment | **Samuel Maynard**, AstraZeneca, United Kingdom

4.14.P-Tu389 Concept for implementation of an environmental information, classification and dissemination system in Germany ("Arzneimittelindex Umwelt") | **Clemens Woitaske-Proske**, Christian-Albrechts-University of Kiel, Germany

4.14.P-Tu390 Revision of the Guideline on the Environmental Risk Assessment of Medicinal Products for Human Use | **Annika Buck**, European Medicines Agency, Netherlands

4.14.P-Tu391 How Doctors and Pharmacists Can Avoid Harmful Medicines - A Simple Concept to Flag Environmentally Friendly Substances | **Arne Hein**, German Environment Agency (UBA), Germany

4.14.P-Tu392 Monograph system for active substances of pharmaceuticals | **Jan Pridohl**, German Environment Agency (UBA), Germany

4.14.P-Tu393 Availability, need and use of environmental data - State of the art and prospects for the future | **Daniela Gildemeister**, German Environment Agency (UBA), Germany

4.14.P-Tu394 Out of sight - The Insufficiency of Terrestrial Veterinary Pharmaceutical Regulatory Limits in Early Risk Assessment | **Gerd Maack**, German Environment Agency (UBA), Germany

4.14.P-Tu395 Toxicity of the Veterinary Pharmaceuticals Pyrantel Pamoate and Ractopamine in Zebrafish Embryos (Danio rerio) | **Luis Terrazas Salgado**, Department of Biological Sciences, University of Lethbridge, Canada

4.14.P-Tu396 Using Zebrafish G Protein-Coupled Receptors to Obtain a Better Appreciation of the Impact of Pharmaceuticals in Wastewater to Fish | **Han Zhang**, Dalian University of Technology, China (Mainland)

4.14.P-Tu397 Ecological Risk Assessment of Sulfa Drugs: A Case Study Using Component Based Approach for Chemical Mixtures | **Fujiko Ozawa**, Health and Environmental Risk Division, National Institute for Environmental Studies (NIES), Japan

4.14.P-Tu398 Determination of the Effect of the Presence of Coccidiostats and Nutritional Metals on the Degradation of Tiamulin in Poultry Litter | **Bethany Adams**, University of Leeds, United Kingdom

4.14.P-Tu399 Veterinary antimicrobials in EU: Goals, use and ecotoxicity | **Jurate Zaltauskaite**, Vytautas Magnus University, Lithuania

4.14.P-Tu400 Ecological risk assessment of human pharmaceuticals detected in Japan: Seasonal and Temporal Variations | **Hiroshi Yamamoto**, National Institute for Environmental Studies (NIES), Japan

Advancements in Life-Cycle Inventory (LCI): Enhancing Data Collection and Management, and Addressing Temporal Aspects | Michele De Rosa, Roland Hischier, Anna Wikstrom, Tomas Ekvall

5.04.P-Tu401 From aggregated data to urban building energy models to assess priorities in buildings refurbishment actions | **Antonino Marvuglia**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

5.04.P-Tu402 Evaluation of the environmental aspects of running a wind-PV hybrid park in terms of temporal resolution of energy supply and grid connection capacity | **Doris Rixrath**, University of Applied Sciences Burgenland, Austria

5.04.P-Tu403 Challenges on the upscaling of self-assembled monolayer used in perovskite PV from a LCA perspective | **Afzal khan Peerukhan**, University of Liège, Belgium

5.04.P-Tu404 Using Geography in LCI collection: An LCA model to assess the European Wind Turbine Fleet | **Dominik Huber**, Vrije Universiteit Brussel, Belgium

5.04.P-Tu405 Powering the future: Integrating battery degradation into battery life cycle assessment | **Zhi Cao**, Nankai University, China (Mainland)

5.04.P-Tu406 A Novel Tool for Generating Hybrid LCA Databases | **Michael Weinold**, Paul Scherrer Institute (PSI)/ETH Zurich, Switzerland

5.04.P-Tu407 Methodological Updates in the Agricultural Sector in the Ecoinvent Database | **Francesco Cirone**, ecoinvent, Switzerland

5.04.P-Tu408 Identifying Key Predictors for Biodiversity, Water and Climate Footprints of Crop Production | **Farhang Raymand**, Department of Environmental Science, Radboud Institute for Biological and Environmental Science (RIBES), Radboud University, Netherlands

5.04.P-Tu410 Ensuring Environmental Integrity: A Critical Assessment of Mass Balance in Food Packaging LCA | **Md.Musharof Hussian Khan**, Post-Doctoral Researcher; Natural Resources Institute Finland, Finland

5.04.P-Tu411 Transforming LCI Data for Plastic Packaging Using LLMs: A Path Toward Greater Accuracy, Transparency, and Efficiency | **Jiayi Yuan**, Tsinghua University, China (Mainland)

5.04.P-Tu412 Advancing Plastic Modelling Methods in Life Cycle Assessment | **Heather Logan**, Technical University of Denmark, Denmark

5.04.P-Tu413 Prospective LCA of Road Transport across Various Powertrain Options | **Aleš Paulu**, UCT Prague, Czech Republic

5.04.P-Tu415 Progress of carbon intensity of fossil fuels in Brazil | **Anna Mourad**, State University of Campinas (UNICAMP), Brazil

5.04.P-Tu416 A Critical Analysis of EF's Carbon Footprint Formula in the Context of Food Packaging LCA | **Katri Leino**, Natural Resources Institute Finland (Luke), Finland

5.04.P-Tu417 Evaluation of the Carbon Footprint of Ferroalloys used in Stainless Steel Manufacturing | **Neda Hashemi**, HELMo Gramme, Computer Science & Bio Tech Research Unit, Belgium

Methodological Advancements in Life Cycle Assessment of Emerging Bio-Based Systems | Nariê Rinke Dias de Souza, Marjorie Morales, Kira Lancz

5.05.P-Tu418 More Than Just Business: The Bioeconomy Supporting the Development of New Sustainable Business Models in Bulgaria | **Elena Gospodinova**, BUSINESS E-INCUBATOR GO-UP, Bulgaria

5.05.P-Tu419 30 years of life cycle assessment (LCA) in forestry: state of the art and methodological proposal for the life cycle assessment of forest operations | **Martin Kuhmaier**, BOKU University, Institute of Forest Enginnering, Austria

5.05.P-Tu420 Comparative Lifecycle Study of Wooden and Concrete Buildings in Finland: Advancing Holistic Sustainability Assessments | **Anni Vehola**, University of Helsinki, Finland

5.05.P-Tu421 Evaluation of the environmental impacts of three novel bio-based alternative solutions through a Life Cycle Assessment (LCA) | **Carlos Bernardez Casas**, AIMEN Research Center, Spain

5.05.P-Tu422 Life cycle assessment approaches and applications to emerging bio-based technologies | **Narie Rinke Dias de Souza**, NTNU, Norway

5.05.P-Tu423 Assessing Regionalization of LCI Datasets of Fossil-Based and Biodegradable Bio-Based Polymers Used for Food Packaging in the European Context | **Elena Semenzin**, Ca' Foscari University of Venice, Italy

5.05.P-Tu424 Assessing Environmental Performance Improvements in Microalgae-based Products via the ALIGNED Framework | **Mathias Gustavsen**, Aalborg University, Denmark

5.05.P-Tu425 Life Cycle Costing Tool for Assessing Economic Impacts of Bio-based Products and Systems | **Lucia Garcia-Santos**, Contactica, Spain

5.05.P-Tu426 Towards the Integration of Bioeconomy Constraints in Life Cycle Assessment | **Kira Lancz**, Life Cycle Sustainability, Department of Sustainability and Planning, Aalborg University, Denmark

5.05.P-Tu427 Density and moisture content impact on the environmental and economic performance of woody feedstock | **Maxim Tschulkow**, Department of Engineering Management, University of Antwerp & End-to-End lab of KU Leuven, Flanders Make at University of Antwerp, Belgium

5.05.P-Tu428 Towards alternative fertilising products PEFCR: from methodological hotspots identification to industrial case studies validation | **Jorge Senan-Salinas**, BETA-UVIC, Spain

5.05.P-Tu429 Assessing Environmental Impacts in Single Cell Protein Production: A Prospective LCA Approach | **Eva Martinez-Ibanez**, Department of Chemical and Biomolecular Engineering. University of Cantabria, Spain

Life Cycle Assessment Relevant Resource Indicators for Providing Guidance Towards a Transition to a Resilient Carbon Neutral and Circular Economy | Guido Sonnemann, Louis Freboeuf

5.07.P-Tu430 Understanding the Production of Natural and Synthetic Battery-grade Graphite: European Union Perspective on Supply Risk and Environmental Impact Implications | **Aina Mas Fons**, BRGM, France

5.07.P-Tu431 Integrative Review of Circular Strategies: Developing a Value Assessment Framework | **Lowik Pieters**, Centre for Sustainability, Environment and Health, RIVM Dutch National Institute for Public Health and the Environment, Netherlands

5.07.P-Tu432 An Integrated Approach to Quantify the Life Cycle Impacts and Circularity of the Digital Infrastructure | **Thomas Hennequin**, Department of Circularity & Sustainability Impact, Energy and Material Transition, TNO, Netherlands

5.07.P-Tu433 How to assess impacts on biodiversity of metal sources? Providing indicators for decision-making. | **Anne Asselin**, Sayari, France

5.07.P-Tu434 TOC/TN Measurement for the Control and Evaluation of Methane Fermentation of Food Waste | **Yoshio Ikezawa**, Shimadzu Corporation, Japan

5.07.P-Tu435 Facilitate Decision Making in LCA Introducing the Measure of Resource Efficiency | **Louis Frebouef**, Universite de Bordeaux, France

5.07.P-Tu436 Developing a Comprehensive Framework for Optimal Circular Cascading Use of Wood: Sustainable Criteria and Application Selection | **Nadia Malinverno**, Technology and Society Laboratory, Swiss Federal Laboratories for Materials Science and Technology (Empa), Switzerland

5.07.P-Tu437 Holistic Environmental Assessment of Packaging and Potential Material Substitution Impacts | **Manfred Tacker**, Circular Analytics TK GmbH / University of Applied Life Sciences, Austria

Implementing Holistic SSbD Approaches to Chemicals and Materials: What Do Academia, Industry, Regulators and Policymakers Propose? | Alberto Katsumiti, Michaël Saidani, Irantzu Garmendia Aguirre

6.05.P-Tu438 Exposure Assessment Along the Life Cycle of Nanocomposites | **Gunther Van Kerckhove**, OCSiAl Europe Sarl, Luxembourg

6.05.P-Tu439 Implementation of Safe and Sustainable by Design (SSbD) approach in the development of bio-based products | **Ronnie Juraske**, knoell Germany GmbH, Germany

6.05.P-Tu440 A Safe & Sustainable by Design R&D pipeline using in silico methodology | **Gaspard Levet**, KREATiS, France

6.05.P-Tu441 Redesigning for the Future: Applying Safe and Sustainable by Design (SSbD) Principles in High-Impact Chemical Industries | **Matiss Reinfelds**, BioNanoNet Forschungsgesellschaft mbH, Austria

6.05.P-Tu442 Screening Sustainability Assessment of Innovative Bio-Based Solution for Art Restoration | **Martina Menegaldo**, Ca Foscari University of Venice, Department of Environmental Sciences, Informatics and Statistics, Italy

6.05.P-Tu443 From ambition to action: Navigating obstacles and opportunities of 'Safe and Sustainable by Design' | **Joanke van Dijk**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

6.05.P-Tu444 Chemical Assessment Frameworks and their Alignment to the EC Safe and Sustainable by Design Framework: An Initial Exploration | **Martina Menegaldo**, Ca Foscari University of Venice, Italy

6.05.P-Tu445 Application of SSbD concepts to the development of bio-based epoxy compounds for polymer coatings | **Andy M. Booth**, SINTEF Ocean, Norway

6.05.P-Tu446 A Multi-actor Approach to Facilitate the SSbD Implementation in SURFs UP Bio-based Value Chains | **Socorro Vazquez-Campos**, Leitat Technological Center, Spain

6.05.P-Tu447 The SUNRISE SSbD integrated impact assessment framework | **Arianna Livieri**, GreenDecision s.r.l., Italy

6.05.P-Tu448 SEARCULAR: towards the practical implementation of a circular economy for fisheries | **Alberto Katsumiti**, GAIKER Technology Centre, Basque Research and Technology Alliance (BRTA), Spain

6.05.P-Tu449 Key Performance Indicators in SSbD: A Transparent and Data-Driven Methodology | **Irini Furxhi**, CNR ISSMC, Italy

6.05.P-Tu450 Methodological approaches and applications for early TRL SSbD: Case study on upconverting particles used in biocidal coatings | **Merve Tunali**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

6.05.P-Tu451 Safe and Sustainable by Design Strategies: A Hotspot-based Approach for Advanced Materials | **Sarah Devecchi**, GreenDecision S.r.l., Italy

6.05.P-Tu452 Unlocking the Future: SSbD as the Sustainable Solution for the Life Science Industry | **Athanasios Gkrillas**, Merck Life Science BV, Belgium

6.05.P-Tu453 Engaging Stakeholders and Applying Safe and Sustainable by Design (SSbD) Principles in the PROTEUS EU Project | **Valentina Pauna**, NORSUS, Norway

6.05.P-Tu454 Early-stage application of the SSbD framework on PFAS alternatives for textile and packaging sectors | **Blanca Suarez-Merino**, TEMAS Solutions GmbH, Switzerland

6.05.P-Tu455 How Can Innovation Management Support SSbD? | **Nina Melander**, Research Institutes of Sweden, Sweden

6.05.P-Tu456 Balancing the Unseen: Resolving Conflicts in Safe and Sustainable by Design Frameworks | **Lasse Steffens**, Institute of Safety and Risk Sciences, University of Natural Resources and Life Science, Austria

6.05.P-Tu457 Application of the SSbD framework in bio-based plastics: lessons learned from the BIORING case studies | **Cyrille Durand**, TEMAS Solutions GmbH, Switzerland

6.05.P-Tu458 Methods and tools to assess exposure and risk for Steps 2-3 of the SSbD framework for Advanced Materials | **Vicenc Pomar-Portillo**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

6.05.P-Tu459 Integrating computational models and balancing SSbD dimensions to satisfy the industry needs for responsible innovation on advanced materials and chemicals | **Iseult Lynch**, Centre for Environmental Research & Justice (CERJ), University of Birmingham, United Kingdom

6.05.P-Tu460 Navigating through Safe-and-Sustainable-by-Design (SSbD): Scoping Analysis | **Elvira Villaro**, Avanzare Innovacion Tecnologica, Spain

6.05.P-Tu461 Interoperability fir bridging SSbD dimensions, value chains and material life cycle stages | **Iseult Lynch**, University of Birmingham, United Kingdom

6.05.P-Tu462 Bringing Safe-and-Sustainable-by-Design to the public - exploring stakeholders' concerns and needs towards nanotechnologies | **Stefanie Prenner**, Brimatech Services GmbH, Austria

Environmental Risk Assessment Under Biocides and Other EU Legislations | Heike Schimmelpfennig, Andrea Brunswik-Titze, Aiga Latsone

6.07.P-Tu463 Comparing Environmental Risk Assessment Frameworks under different EU Legislations | **Franco Ferilli**, European Food Safety Authority (EFSA), Italy

6.07.P-Tu464 Mapping Chemicals across EU's Legal Frameworks towards a 'One Substance, One Assessment' approach | **Mathilda Andreassen**, Department of Environmental Science, Stockholm University, Sweden

6.07.P-Tu465 Advancing the Environmental Risk Assessment of Pesticides to better protect biodiversity under PARC | **Johan Axelman**, Swedish Chemicals Agency (KemI), Sweden

6.07.P-Tu466 What Will be ECHA's Role in Protecting Environmental Waters in the EU? | **Pia Talja**, European Chemicals Agency (ECHA), Finland

6.07.P-Tu468 Combined sewer overflows - a neglected source of biocide emissions?! | **Christiane Meier**, German Environment Agency (UBA), Germany

6.07.P-Tu469 The Environmental Impact of AAV Gene Therapy vectors | **Tobias Fleischmann**, Pfizer, Germany

6.07.P-Tu470 Aerial application of plant protection products with drones in Germany | **Bianca Kuhne**, Federal Office of Consumer Protection and Food Safety, Departement of Plant Protection Products, Unit Environment, Germany

6.07.P-Tu471 Beyond default Mixture Allocation Factor-settings: How can we increase the applicability and scientific-relevance of mixture risk assessments for metal(oid)s? | **Charlotte Nys**, ARCHE Consulting, Belgium

6.07.P-Tu472 Ecotoxicological biomonitoring using in situ caging of Gammarus sp. (crustacea): Large and local scale implementation in France | **Anthony Mathiron**, Biomae, France

6.07.P-Tu473 Current Risk Assessment of Non-Target Terrestrial Plants Under the Regulation (EU) 1107/2009: Deficit Analysis and Recommendations for the Revision of the Terrestrial Guidance Document | **Harry Byers**, German Environment Agency (UBA), Germany

6.07.P-Tu474 Reproductive Endpoints and Phenological Stage Exposed in Non-Target Terrestrial Plants Studies: A Meta-Analysis Using a Percentile Approach and Consequence for Risk Assessment Under (EU) 1107/2009 | **Sweba Ghani**, German Environment Agency (UBA), Germany

6.07.P-Tu475 German Court Judgement: The Right to Environmental Information Grants Access to ERA Data and Studies from the Human Medicinal Product Authorisation Procedure - Recommendations for its Implementation | **Carolin Floeter**, University of Applied Sciences Hamburg, Germany

Regulatory Risk Management of Chemicals Integrating Risks, Impacts and Socio-Economic Assessments for Robust Policy Decisions | Thea Sletten, Julia Sussams, Christoph Rheinberger, Peter Simpson

6.08.P-Tu477 A Framework to Break Down Silos Across Disciplines and Enable More Holistic Decisions and Communication: Case Study for Octocrylene Environmental and Public Health | **Jennifer Saxe**, Kenvue, United States

6.08.P-Tu478 Transferable quotas for PFAS in the EU | **Daniel Slunge**, University of Gothenburg, Sweden

6.08.P-Tu479 Chemical stock pollution modelling to determine the environmental impact of emission intervention measures for persistent mobile and toxic substances: The case of PFOA | **Silke Gabbert**, RIVM, Netherlands

6.08.P-Tu480 A stepwise prioritization approach towards effective regulatory measures of PMT/vPvM substances in the REACH registration database | **Michael Neumann**, German Environment Agency (UBA), Germany

6.08.P-Tu481 An attempt to establish recycled plastic grades focusing on plastic additives to enable appropriate recycling | **Kyoko Ono**, Advanced Industrial Science and Technology, Japan

6.08.P-Tu482 The Qualitative Quotient: The Importance of Applying Mixed Methods to Understand Circularity of Hospital Plastics | **Nikoline Oturai**, Roskilde University, Denmark

6.08.P-Tu483 A circular economy of chemicals roadmap for the UK | **Miriam Fsadni**, Newcastle University, United Kingdom

6.08.P-Tu484 Implications for Implementing the "Essential-Us" Concept in Chemical Regulations | **Romain Figuiere**, Stockholm University, Sweden

6.08.P-Tu485 Ecotoxicological hazards of lithium and its salts and regulatory risk management measures | **Odile Kerkhof**, ANSES French Agency for Food, Environmental and Occupational Health & Safety, France

6.08.P-Tu486 D.N.A-based Development of Chemical Accident Prediction and Risk Assessment Technology | **Yoon-Kyung Gwak**, Research Institute for Living and Industrial Environment in Seokyeong University, "Korea, Republic of"

6.08.P-Tu487 Risk-based Approach for Regulation of Marine Pollution | **Kirit Wadhia**, NOV, United Kingdom

6.08.P-Tu488 Exposure based risk assessment for absorbent hygiene products | **Taryn Kirsch**, Procter & Gamble, Germany

6.08.P-Tu489 A tragedy of the commons - the case of the Lake Kutubu Indigenous Fishery in Papua New Guinea | **Ross Smith**, Hydrobiology, Australia

6.08.P-Tu490 Revitalizing indigenous knowledge in global climate science and policy processes | **Beatrice Opeolu**, BEE Solutions and Consultancy Services, South Africa

6.08.P-Tu491 Energy Efficiency, Effectiveness, and Derivatives Assessment in the Crop Agricultural Sector: Parametric and Non-Parametric Methods Application Review | **Hamza Taoumi**, Sidi Mohamed Ben Abdellah University (USMBA), IPI Laboratory, ENS, Morocco

Flame Retardants Regulatory and Circular Economy Challenges | Jacob de Boer, Martin Sharkey, Stuart Harrad

6.11.P-Tu492 An industry perspective - how are the producers of phosphorus, inorganic and nitrogen flame retardants (pinfa) reacting to the regulatory and circular economy challenges? | **Adrian Beard**, Clariant, Germany

6.11.P-Tu493 Safe and Sustainable by Design, Scoping, and Simplified Assessment of 30 Alternative Flame Retardants for Use in Polymer Insulation Foams | **Ayse Ay**, BASF SE, Germany

6.11.P-Tu494 Quantifying efficiency of managing POPs waste in the UK | **Richard McKinlay**, Water Research Centre Ltd, United Kingdom

6.11.P-Tu495 The Emergence of Alternatives to Restricted Brominated Flame Retardants in the Irish and UK Waste Streams | **Stuart Harrad**, University of Birmingham, United Kingdom

6.11.P-Tu496 PBDEs in Recycled Fertilizers - Implications for the Circular Economy | **Martin Sharkey**, University of Galway, Ireland

6.11.P-Tu497 Questionable Safety vs. Known Risks: Reevaluating Flame Retardants in Lithium-Ion Battery Enclosures Amid New Safety Standards and Regulations | **Anna Shalin**, University of Toronto, Canada

6.11.P-Tu498 Legacy Flame Retardants: A Key Challenge for the Transition to a Circular Economy for Plastics in Building and Infrastructure | **David Laner**, Research Center for Resource Management and Solid Waste Engineering, University of Kassel, Germany

Health and Well-Being Effects of Blue Spaces: The Ocean-Human Health Nexus in an Ocean Under Stress | Gert Everaert, Manuel Soto, Mathew White, Jana Asselman

7.03.P-Tu499 From the Blue Gym to Blue Health, Blue Communities and Blue Prescriptions: 15 Years of Promoting the Oceans for Human Health | **Mathew White**, University of Vienna, Austria

7.03.P-Tu500 The coastal exposome: investigating the link between sea spray aerosols and human health benefits | **Silke Lambert**, Ghent University, Blue Growth Research Lab, Belgium

7.03.P-Tu501 The social structuring of coastal visitation behavior | **Alexander Hooyberg**, Ghent University, Belgium

7.03.P-Tu502 Assessing the Emotional Impact of Landscape Features on Well-being: An Online Video Experiment Across Flanders | **Yangyang Shi**, Division Forest, Nature and Landscape, KU Leuven, Belgium

7.03.P-Tu503 Ocean and Health: A paradigm to face the challenge of Sustainable Development Goals (SDGs) at Plentzia Marine Station (PiE-UPV/EHU) | **Manu Soto**, 1 CBET Research Group, Dept. Zoology and Animal Cell Biology, University of the Basque Country (UPV/EHU) 2 Research Centre for Experimental Marine Biology and Biotechnology (PIE), University of the Basque Country (UPV/EHU), Spain

7.03.P-Tu504 Using Wearable Technology to Assess Physiological and Cognitive Health Effects of Coastal Walking Exposure in Older Adults: A Field Experiment | **Gert Everaert**, Flanders Marine Institute (VLIZ), Belgium

7.03.P-Tu505 The Effect of Coastal Exposure and the Role of Activation on Emotions and Emotion Regulation: an Innovative Experimental Design | **Gert Everaert**, Flanders Marine Institute (VLIZ), Research department, Belgium

SETAC Africa 12th Biennial Meeting/

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Sustainable Development in a Changing World: Integrating Environmental Science, Policy and Practice

Submit an abstract by 28 May at **setac.org/Johannesburg**.

Wednesday, 14 May

WEDNESDAY SCHEDULE		
08:30–18:15	Badge Pick-up, Registration & Cloakroom	Entrance Hall
08:30–18:15	Speaker Ready Room	0.12
08:30–09:30	Poster Setup	Exhibition Hall
08:30-18:00	Corteva Business Meetings	0.11
08:30-18:15	FERA Science Business Meetings	0.16
09:30–10:50	**Presentation Sessions**	
10:00-12:00	Application of SSbD Framework to Polymeric Materials Workshop	0.96-0.97
10:50–11:35	Coffee & Poster Break	Exhibition Hall
11:00-12:00	SETAC Europe Italian Language Branch Meeting	0.49-0.50
11:35–12:55	**Presentation Sessions**	
12:55–14:25	Lunch & Poster Break	Exhibition Hall
12:55–14:25	SETAC Europe Annual General Assembly	Hall L1
12:55–14:25	Bayer Sponsored Lunch Seminar	Hall L2
12:55–14:25	Bionomous Lunch Seminar	Hall L3
12:55–14:25	Waters Sponsored Lunch Seminar	0.14
13:30–14:25	Wildlife Toxicology Interest Group Meeting	0.49-0.50
14:25–15:45	**Presentation Sessions**	
15:00-16:00	SETAC Europe Council Meeting	0.49-0.50
15:45–16:45	Coffee & Poster Break	Exhibition Hall
16:00–16:45	**Poster Corners**	**Foyer D**
15:45-16:45	SETAC Journals: Meet the Editors	SETAC Square
16:00-18:00	Plants Interest Group Meeting	0.51
16:00-18:00	Plastics Interest Group Meeting	0.49-0.50
16:15-16:45	Student Advisory Council General Assembly	Hall L1
16:15-18:00	SETAC UK Branch Speed Networking	0.96-0.97
16:30-18:00	Global Soils Interest Group Meeting	0.14
16:45–17:45	**Wednesday Plenary: Yaz Ellis**	**Hall E**
16:45-18:00	Biodiversity Interest Group Meeting	Hall L1
17:45–18:15	**Poster Social**	**Exhibition Hall**

Plenary Speaker

16:45–17:45 | Hall E

Surviving the City: The Impact of Urbanisation on Vienna's Wildlife

Yaz Ellis, Wildlife filmmaker and cinematographer, Austria

Yaz Ellis is an award-winning wildlife filmmaker and camerawoman specializing in Austrian wildlife stories. Originally from the UK, she moved to Vienna when she fell in love with filming the European hamsters that live wild in the city. Her films reveal fascinating secrets of Viennese and Austrian wildlife and have won multiple awards, including Jackson Wild (considered the Oscars of natural history filmmaking), United Nations' World Wildlife Day and National Geographic's Wild Pitch. She focuses on how wildlife is adapting to and challenged by human impacts, which is reflected best in her film "Beavers About Town," following a family of beavers as they navigate life in urban Vienna. In 2024, Yaz completed her work as the director of photography on Terra Mater Studio's wildlife documentary "Wild Vienna." She filmed unique animal behaviour sequences in Vienna for over two years, revealing how biodiverse the city is – a home to wild hamsters, ground squirrels, long-eared owls and beavers. Yaz was recently awarded the My World Film Grant and is now directing a film about Austria's life-saving rescues of deer fawn. She is also currently working as the director of photography on a new urban wildlife documentary for ORF Universum.

★ Special Session

14:25–15:45 | Hall F2

8.06 - The Planetary Boundaries for Biodiversity in the Context of Safe and Sustainable by Design

Leo Posthuma, Annegaaike Leopold

In this session, the intersection of biodiversity loss, SSbD and absolute sustainability will be addressed in a visionary way, and in this context, the value of the concept of a Planetary Boundary for chemicals will be challenged. Visions of how to bend the curve of biodiversity loss will be approached from a series of perspectives by the six panel members, who will each present their vision in five-minute pitches. Examples of the approaches that will be presented and subsequently discussed are: 1) taking a holistic approach forecasting changes in biodiversity by looking at data from the past and present, while specifically considering the role of chemicals in these changes and linking these changes to the economy and social wellbeing, 2) building modelling approaches that allows us to have a data-driven demonstration of the overall impact of chemicals on biodiversity, 3) leveraging genetic diversity as an early warning system of biodiversity change into an operational framework, and 4) developing concepts that will help to recognise generalisable relationships between biodiversity and (chemical) stressor responses. This special session is actively linked to Special Session 8.1, which has a more regulatory focus on chemical pollution and biodiversity. The plan is to have one or two publications emerge from these two sessions.

Wednesday, 14 May

★ Special Session

09:30–10:50 | Hall F2

8.02 - Bridging the Scientific and Regulatory Gap Towards Effective Chemical Safety Assessment

Wim De Coen, Marta Baccaro, Simone Rizzuto, Marlene Ågerstrand

This session addresses the critical challenge of aligning scientific advancements with regulatory frameworks to enhance chemical safety assessments. Despite progress in research and regulatory practices, significant barriers persist in managing chemical risks effectively to protect human health and the environment. These challenges stem from the differing priorities of academia, regulatory agencies, and industry, as well as the lag between scientific developments and their integration into policy. The session will explore strategies to bridge these gaps, foster collaboration among stakeholders, and create a regulatory environment that is both responsive to new scientific knowledge and supportive of innovation.

Academia often focuses on pioneering research and exploring innovative methodologies, driven by the pursuit of knowledge and long-term impact. In contrast, regulators require research that directly addresses specific regulatory gaps and uncertainties, ensuring that regulations are both protective and based on the latest evidence. Industry, on the other hand, seeks to balance compliance and product safety with innovation, often prioritizing practical, cost-effective solutions that operate within existing regulatory frameworks. The session will examine how to converge these differing priorities to ensure that scientific advancements lead to practical and effective regulatory outcomes.

One of the key challenges in this alignment is the slow pace of regulatory change, which often lags behind the rapid development of new scientific insights. This delay can create a gap between what is scientifically possible and what is legally enforceable, potentially compromising the effectiveness of chemical safety regulations. The session will explore strategies to accelerate the regulatory process and policy cycle, ensuring that regulations keep pace with scientific advancements and remain sufficiently protective of both human health and the environment. Effective collaboration between academia, industry, and regulators requires a deep understanding of each sector's needs and constraints. Building strong partnerships and fostering open communication are essential for co-creating research agendas that facilitate the swift translation of scientific findings into regulatory frameworks.

Expected Outcomes: Participants will gain a deeper understanding of the distinct research needs across academia, regulators, and industry. The session aims to provide actionable strategies to enhance collaboration among these stakeholders, ultimately leading to the development of a dynamic regulatory environment that can swiftly respond to scientific advancements. This approach will better protect human health and the environment while fostering continued innovation in chemical safety assessment.

Wednesday Platform Presentations Morning 1

Wednesday Platform Presentations Morning 1

	09:35	09:50	10:05
Hall M	**Analysis, Assessment and Management of Contaminants of Emerging Concern and Their Transformation Products** | ...		
	3.10.A.T-01 Keep it cool in your lab! Why "cold" OECD TG 309 degradation tests are the new hot trend for assessing chemical persistence | **Michael Neumann**, German Environment Agency (UBA), Germany	**3.10.A.T-02** Sulfamethoxazole Transformation by Heat-Activated Persulfate: Linking Transformation Products Patterns with Compound-Specific Isotope Analysis | **Xiao Liu**, Institut Terre et Environnement de Strasbourg (ITES), Universite de Strasbourg/EOST/ENGEES, France	**3.10.A.T-03** Towards Predicting Persistent Transformation Products in Different Environments | **Jasmin Hafner**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), University of Zurich, Switzerland
Hall N	**Life Cycle Assessment of Waste and Waste Management Systems for Safe and Sustainable Futures** | ...		
	5.10.T-01 A global life cycle inventory model for urban wastewater treatment and sanitation | **Ivan Munoz**, 2.-0 LCA consultants, Spain	**5.10.T-02** Reducing the Climate Impact of Residual Waste Treatment: A Comparative LCA of Carbon Management Strategies in a German Context | **Sarah Schmidt**, Research Center for Resource Management and Solid Waste Engineering, University of Kassel, Germany	**5.10.T-03** Modelling metals recycling with a dynamic LCA approach: A methodological discussion based on a real-world case study | **Federico Rossi**, Sant'Anna School of Advanced Studies, Italy
Hall E	**Molecular Ecotoxicology and Omics Perspectives: Advancing Mechanistic Understanding for Environmental Risk Assessment** | ...		
	1.04.A.T-01 Exploring mechanisms of chemical toxicity using Chlamydomonas reinhardtii mutants library | **Tim Godec**, National Institute of Biology, Slovenia	**1.04.A.T-02** Tipping points in the lipidomes of Arctic zooplankton under global change | **Mathieu Lutier**, Section for Aquatic Biology and Toxicology, Department of Biosciences, University of Oslo, Norway	**1.04.A.T-03** Development of an in vivo high throughput screening approach for mechanism-based toxicity assessment of plastic additives chemicals using Caenorhabditis elegans Transcription Factor RNAi library | **Siyeol Ahn**, School of Environmental Engineering, University of Seoul, Korea, Republic of
Hall F1	**Can Biodegradable Polymers Serve as a Safe and Sustainable Solution to Environmental Accumulation of Polymers?** | ...		
	3.06.A.T-01 A conceptual model to overview microplastic persistence and environmental impact of biodegradable and non-biodegradable polymers | **Miriam Weber**, HYDRA Marine Sciences, Germany	**3.06.A.T-02** Analysis of (Micro)Plastic Biodegradation at Single-Cell Level by Stable Isotope Raman Microspectroscopy | **Natalia Ivleva**, Chair of Analytical Chemistry and Water Chemistry, Technical University of Munich, Germany	**3.06.A.T-03** Biodegradable Mulch Films in Agricultural Soils: The Effect of Temperature on Biodegradation Dynamics | **Flora Wille**, ETH Zurich, Switzerland
Hall F2	★ **Bridging the Scientific and Regulatory Gap Towards Effective Chemical Safety Assessment** | Wim De Coen, Marta Baccaro, Simone Rizzuto, Marlene Ågerstrand		
	09:30	**09:36**	**09:48**
	8.02.T-01 Introductory Remarks | **Marlene Ågerstrand**, Stockholm University, Stockholm, Sweden	**8.02.T-02** Metabolic disruptors: achievements and challenges | **Juliette Legler**, Utrecht University, Netherlands	**8.02.T-03** Managing risks posed by legacy pharmaceuticals under the Water Framework Directive | **Lina Gunnarsson Kearney**, Swedish Agency for Marine and Water Management, Sweden
Hall G	**Linking Lab and Field Evidence on Pesticide Effects on Biodiversity and Ecosystem Functions** | Alina Koch, Jes Rasmussen, Ayesha Siddique, Stephen Short		
	2.03.T-01 Revealing the Cascade of Pesticide Effects from Genes to Communities | **Naeem Shahid**, Helmholtz Center for Environmental Research (UFZ), Germany	**2.03.T-02** A Streamlined Approach to Pesticide Risk Assessment that Aligns Prediction and Reality | **Matthias Liess**, UFZ - Helmholtz Centre for Environmental Research, Leipzig, Germany	**2.03.T-03** Benthic diatoms as indicators of pesticide pollution in Swiss watercourses | **Sarah Descloux**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland
Hall K1	**Legacy and Emerging Organic Contaminants in the Global Ocean and Polar Regions: Long-Range Transport, Local Sources and Climate Change Impacts** | ...		
	3.19.A.T-01 Local Sources vs Long-Range Environmental Transport of Contaminants to the Arctic - State of Knowledge, Conclusions and Recommendations | **Cynthia de Wit**, Department of Environmental Science, Stockholm University, Sweden	**3.19.A.T-02** Arctic Amphipods as bioindicators of plastic pollution: identification and simultaneous quantification of small microplastics and microlitter (< 100 µm) | **Giulia Vitale**, Ca' Foscari University of Venice, Italy	**3.19.A.T-03** Non-target screening of chemicals of emerging concern in marine mammals in the Nordic environment | **Linyan Zhu**, Aarhus University, Department of Environmental Science, Denmark
Hall K2	**Chemical Fate in the Soil-Plant-System and Related Impacts and Risks** | Arno Rein, Andreas Schwen, Marc Lamshoft		
	3.20.T-01 Uptake of Tire-derived Compounds by Lettuce Grown in Soils | **Anya Sherman**, University of Vienna, Centre for Microbiology and Environmental Systems Science, Austria	**3.20.T-02** Do persistent and mobile chemicals impact agricultural wastewater reuse? - Accumulation in arugula | **Daniel Zahn**, Helmholtz Center for Environmental Research (UFZ), Germany	**3.20.T-03** Passive Sampling in Soil | **Abdullah Shahid**, Imperial College London, United Kingdom
Hall D2	**Understanding the Complexity of Tire Particles and Associated Chemicals: Environmental Monitoring, Toxicological Effects and Strategies for Mitigation** | ...		
	3.21.T-01 Leaching of Organic Compounds from Tire Particles Under Conditions Simulating the Deep Sea | **Natascha Schmidt**, NILU, Norway	**3.21.T-02** Stability Assessment of Tire-Derived Chemicals for Quantitative Air Monitoring with Passive Samplers and Filters | **Raimon M. Prats**, Environment and Climate Change Canada (ECCC), Canada	**3.21.T-03** Tyre Particles: Who Dares Win. A Comparison Study Evaluating the Sensitivity of Two Marine Invertebrates to Whole Tyre Particle Toxicity | **Charlotte Woodhouse**, Plymouth Marine Laboratory, University of Exeter, United Kingdom
Hall D3	**Advances in Exposure Modelling Towards a Safe and Sustainable Tomorrow for Both Humans and the Environment** | ...		
	3.02.A.T-01 Exposure modelling in Europe: how to pave the road for the future as part of the European Exposure Science Strategy 2020-2030 | **Urs Schluter**, Federal Institute for Occupational Safety and Health (BAuA), Germany	**3.02.A.T-02** Identification of environmental release hotspots along the product life cycle through HotSpot Scan tool | **Neeraj Shandilya**, TNO, Netherlands	**3.02.A.T-03** Predicting the Fate of 40 Emerging Contaminants: A Case Study of SimpleTreat and TOXCHEM | **Pinelopi Savvidou**, Cranfield University, United Kingdom

	10:20	10:35
Hall M	| Daniel Zahn, Sandra Perez Solsona, Gabriel Sigmund, Nicola Montemurro	
	3.10.A.T-04 Identifying Potentially Hazardous Transformation Products from Compounds on the Global Chemical Inventory | **Emma Palm**, University of Luxembourg, Luxembourg	Poster spotlights: 3.10.P-Th148, 3.10.P-Th149, 3.10.P-Th150
Hall N	| Heather Logan, Anna Wikstrom, Tomas Ekvall, Tomas Navarrete Gutierrez	
	5.10.T-04 Does Machine Learning Pay Off in Terms of Environmental Impacts? Insights from the Waste Management Sector | **Julian Baehr**, Institute IWAR, Material Flow Management and Resource Economy, Technische Universitat Darmstadt, Germany	Poster spotlights: 5.10.P-We468, 5.10.P-We480, 5.10.P-We481
Hall E	| Ksenia Groh, Denina Simmons, Pedro Inostroza, Sebastian Eilebrecht	
	1.04.A.T-04 Impact of Simvastatin on Gammarus locusta: Metabolomic Measurement of Direct and Transgenerational Effects | **João Rodrigues**, Department of Chemistry and CICECO Aveiro Institute of Materials, University of Aveiro, Portugal	Poster spotlights: 1.04.P-We006, 1.04.P-We007, 1.04.P-We014
Hall F1	| Glauco Battagliarin, Andrea Valsesia, Julia Peters, Michael Zumstein	
	3.06.A.T-04 Case studies that show the predictive modelling of microplastic accumulation in the natural environment | **Marieke Brouwer**, Wageningen University and Research (WUR), Netherlands	Poster spotlights: 3.06.P-We244, 3.06.P-We245, 3.06.P-We251
Hall F2	★ **Bridging the Scientific and Regulatory Gap Towards Effective Chemical Safety Assessment** | Wim De Coen, Marta Baccaro, Simone Rizzuto, Marlene Ågerstrand	
	10:00	**10:40**
	8.02.T-04 Panel discussion	**8.02.T-05** Concluding Remarks | **Simone Rizzuto**, European Food Safety Authority (EFSA), Parma, Italy
Hall G	**Linking Lab and Field Evidence on Pesticide Effects on Biodiversity and Ecosystem Functions** | Alina Koch, Jes Rasmussen, Ayesha Siddique, Stephen Short	
	2.03.T-04 Behavioural effects of pesticide mixtures and caffeine on Hyalella azteca | **Kathrin Fisch**, Julius Kuhn-Institut, Federal Research Centre for Cultivated Plants, Germany	Poster spotlights: 2.03.P-We046, 2.03.P-We052, 2.03.P-We061
Hall K1	| Zhiyong Xie, Katrin Vorkamp, Francesca Spataro, Rainer Lohmann	
	3.19.A.T-04 Contaminant incorporation in sea ice: understanding the roles of sea ice formation and contaminant properties | **Denise M. Mitrano**, ETH Zurich, Switzerland	**3.19.A.T-05** Investigating climate change impacts on PCB-153 exposure in Arctic food webs using the Nested Exposure Model | **Ingjerd Sunde Krogseth**, NILU, Norway
Hall K2	**Chemical Fate in the Soil-Plant-System and Related Impacts and Risks** | Arno Rein, Andreas Schwen, Marc Lamshoft	
	3.20.T-04 The enantiomeric uptake, translocation, and metabolism of ibuprofen in rice (Oryza sativa L.) | **Pengfei Zhao**, Huzhou University, China (Mainland)	**3.20.T-05** Terrestrial pollution: A case study of fate and impact of antibiotics on soil microbes | **Oluyemi Ojo**, University of York, United Kingdom
Hall D2	| Farhan Khan, Thorsten Huffer, Elisabeth Rødland, Nicola Montemurro	
	3.21.T-04 Realistic Stress Scenarios for the Ecotoxicity Evaluation of Tire Wear Particles | **Marcus Lukas**, German Environment Agency (UBA), Germany	Poster spotlights: 3.21.P-Th278, 3.21.P-Th283, 3.21.P-Th295
Hall D3	| Stefan Hahn, Joris Quik, Antonia Praetorius, Sam Harrison	
	3.02.A.T-04 A Framework for Projection of Future Chemical Emissions Under the UK Shared Socioeconomic Pathways | **Hongyan Chen**, UKCEH, United Kingdom	**3.02.A.T-05** Towards the Assessment of Risk of Contaminants of Emerging Concern in Surface Waters using HydroFATE, a Global Contaminant Fate Model | **Heloisa Ehalt Macedo**, McGill University, Canada

Wednesday Platform Presentations Morning 2

	11:40	11:55	12:10
Hall M	**Analysis, Assessment and Management of Contaminants of Emerging Concern and Their Transformation Products** | ...		
	3.10.B.T-01 Fate and Occurrence of Quaternary Ammonium Compounds in Aquatic Environments: From Photochemical Transformation of Ionic Liquid Cations to Suspect Screening in Lake Sediments | **Sarah Pati**, Centre for Microbiology and Environmental Systems Science, University of Vienna, Austria	**3.10.B.T-02** Efficiency of sustainable urban drainage system in emerging pollutants abatement. Which is the fate of mobile compounds and transformation products in these systems? | **Sergio Santana-Viera**, Institute of Environmental Assessment & Water Research (IDAEA), CSIC, Spain	**3.10.B.T-03** Occurrence of Organic Micropollutants and Transformation Products in Managed Groundwater Aquifer Recharge: from Surface Water Infiltration to Produced Drinking Water | **Alessia Ore**, Wageningen University, Netherlands
Hall N	**LCA for Decision-Making, Communication and Reporting** | Nicole Unger, Iris Kral, Michele De Rosa		
	5.09.T-01 Using absolute environmental sustainability assessment and mid-to-endpoint modelling to identify the most relevant impact categories to include in a building LCA | **Manja Nørrekær Lund**, Technical University of Denmark, Denmark	**5.09.T-02** Allocation in ISO, GHG Protocol, and Environmental Footprints | **Tomas Ekvall**, Tomas Ekvalol Research, Review & Assessment, Sweden	**5.09.T-03** Module D in Environmental Product Declarations (EPDs): Sorting the Weed of Misinterpretation | **Ashrakat Hamed**, GreenDelta GmbH, Germany
Hall E	**Molecular Ecotoxicology and Omics Perspectives: Advancing Mechanistic Understanding for Environmental Risk Assessment** | ...		
	1.04.B.T-01 Comparative assessment of the tPOD of tamoxifen in zebrafish embryos with chronic endpoints from a two generation study | **Matthias Teigeler**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany	**1.04.B.T-02** Sex Hormone Disruption of Biodegradable Plastic Extracts in Comparison with Conventional Plastics: Observations in H295R Cells and Adult Male Zebrafish | **Eunhye Kim**, School of Public Health, Seoul National University, Korea, Republic of	**1.04.B.T-03** Disturbance in the metabolic pathways of tree frogs living in the Chernobyl Exclusion Zone: from gene, protein expression patterns to metabolic enzyme activity and body condition index | **Sandrine Frelon**, French Institute of Radiation Protection and Nuclear Safety, France
Hall F1	**Can Biodegradable Polymers Serve as a Safe and Sustainable Solution to Environmental Accumulation of Polymers?** | ...		
	3.06.B.T-01 Polymer Biodegradability 2.0: A holistic view on polymer biodegradation in natural and engineered environments for a reliable product development | **Andreas Kunkel**, BASF SE, Germany	**3.06.B.T-02** Relationships between Structure and Soil Biodegradability for Synthetic Polyesters: Tracking Carbon using Stable-Isotope Labelling | **Taylor Nelson**, University of Konstanz, Germany	**3.06.B.T-03** Review of Experimental Approaches and Analytical Methods for Biodegradability and Persistence Assessment of Water-Soluble Polymers | **Christopher Hughes**, Embark Chemical Consulting, United Kingdom
F2	**Global Drinking Water Quality: Exposure to Natural and Anthropogenic Contaminants and Their Human-Health Effects** | Kelly Smalling, Paul Bradley		
	4.09.T-01 Pilot-Scale Suspect Screening and Non-Targeted Analysis with Integrated Toxicity Evaluation of Polar to Non-Polar Organic Contaminants in Tap Drinking Water from Western Oregon, USA | **Peter Bright**, OSU, United States	**4.09.T-02** Identification and risk screening of micropollutants in processed drinking water | **Mulatu Nanusha**, Technical University of Denmark (DTU), Denmark	**4.09.T-03** Revealing Per- and Polyfluoroalkyl Substance (PFAS) Contamination and Exposure Pathways in Suriname and Ghana | **Arundhati Tewari**, University of Pittsburgh, United States
Hall G	**Lab and Field Collected Invertebrates and in Situ Studies in Ecotoxicology: Challenges and Opportunities** | Carlos Barata, Ben Kefford, Claudia Rivetti, James Lazorchak		
	2.05.T-01 Evaluating the Sensitivity of Diverse Freshwater Macroinvertebrates to Chemicals with Different Toxic Modes of Action | **Amy Ockenden**, University of Sheffield, New Zealand	**2.05.T-02** How to Use Experimental Data and Modelling of the Wild-Caught Non-Standard EPT Taxon Cloeon dipterum for Environmental Risk Assessments of Pesticides | **Hanna Schuster**, Cambridge Environmental Assessments, United Kingdom	**2.05.T-03** Sequential Pesticide Exposure: Concentration Addition at High Concentrations _ Inhibition of Hormesis at Ultra-Low Concentrations | **Imrana Mushtaq**, Helmholtz Centre for Environmental Research (UFZ) & Institute for Environmental Research (Biology V), RWTH Aachen University, Germany
Hall K1	**Legacy and Emerging Organic Contaminants in the Global Ocean and Polar Regions: Long-Range Transport, Local Sources and Climate Change Impacts** | ...		
	3.19.B.T-01 Emerging and Legacy Per- and Polyfluoroalkyl Substances in the Global Ocean and Polar Regions | **Zhiyong Xie**, Helmholtz-Zentrum Hereon, Germany	**3.19.B.T-02** Role of Marine Bacteria on the Interactions Between Perfluoroalkyl Substances and Bioplastics | **Clara Serrano Lorigados**, IDAEA-CSIC, Spain	**3.19.B.T-03** Emerging organic compounds occurrence in the "touristic" Antarctic Peninsula | **Belen Gonzalez-Gaya**, Plentzia Marine Station, University of the Basque Country, Spain
Hall K2	**Soil Environmental Risk Assessment: Navigating Changing Regulatory Frameworks and Field-Realistic Predictions of Contaminants, Mixtures, and Stressors in**		
	4.12.T-01 MICROSOIL- Proposal for a refined risk assessment scheme to assess effects on function and structure of soil microbial communities | **Karsten Schlich**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany	**4.12.T-02** Effects of realistic pesticide mixtures on springtails, terrestrial plants, and soil microbes - an overview | **Paula Tourinho**, RECETOX, Masaryk University, Czech Republic	**4.12.T-03** Assessing the Risk of Tank Mixtures to In-Soil Organisms: From Single to Sequential Applications | **Fernanda de Santo**, University of Coimbra, Portugal
Hall D2	**Methods and Tools Enabling Safe and Sustainable by Design (SSbD) Strategies** | Barry Hardy, Bernd Nowack, Zhanyun Wang, Maja Halling		
	6.04.T-01 Hazard Assessment of Safe, Sustainable and Recyclable by Design Polymeric SURPASS Alternatives for Food, Building, and Transport Applications | **Ruben Martinez**, Leitat Technological Center, Spain	**6.04.T-02** Toward a better integration of Risk Assessment and Life Cycle Assessment for Safer and more Sustainable Chemicals | **Erwan Saouter**, Net-Zero Impact (SAS), France	**6.04.T-03** Decision Support System for SSbD of Advanced Nanomaterials | **Hedwig Braakhuis**, National Institute for Public Health and the Environment (RIVM), Netherlands
Hall D3	**Advances in Exposure Modelling Towards a Safe and Sustainable Tomorrow for Both Humans and the Environment** | ...		
	3.02.B.T-01 An Integrated Water and Air Modelling Study for a Comprehensive Evaluation of Shipping Environmental Impacts in the Northern Adriatic Sea | **Loris Calgaro**, University Ca' Foscari of Venice, Italy	**3.02.B.T-02** Reconciling plastic release: Comprehensive modeling of macro- and microplastic flows to the environment | **Danyang Jiang**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland	**3.02.B.T-03** PROTEX: Chemical Safety and Sustainability Assessment from Production Lines to Human and Ecological Receptors | **Alessandro Sangion**, ARC Arnot Research and Consulting Inc., Canada

Wednesday Platform Presentations Morning 2

	12:25	12:40
Hall M	| Daniel Zahn, Sandra Perez Solsona, Gabriel Sigmund, Nicola Montemurro	
	3.10.B.T-04 Pesticides as a source of trifluoroacetate (TFA) to the environment | **Finnian Freeling**, TZW: DVGW-Technologiezentrum Wasser (German Water Centre), Germany	Poster spotlights: 3.10.P-Th145, 3.10.P-Th146, 3.10.P-Th173
Hall N	**LCA for Decision-Making, Communication and Reporting** | Nicole Unger, Iris Kral, Michele De Rosa	
	5.09.T-04 Decision-Oriented Choice for Electricity Supply Modelling in Attributional LCA: Location-Based or Market-Based Approach? | **Anne Grau**, EDF R&D, France	Poster spotlights: 5.09.P-We443, 5.09.P-We444, 5.09.P-We445
Hall E	| Ksenia Groh, Denina Simmons, Pedro Inostroza, Sebastian Eilebrecht	
	1.04.B.T-04 Exploration of Transcriptomic Data with Over-Representation Analysis (ORA) Enhanced by Aggregated Biological Prior Knowledge | **Ellis Franklin**, Universite de Lorraine, CNRS, LIEC; Universite de Lyon, CNRS, VetAgro Sup, LBBE, France	Poster spotlights: 1.04.P-We008, 1.04.P-We009, 1.04.P-We030
Hall F1	| Glauco Battagliarin, Andrea Valsesia, Julia Peters, Michael Zumstein	
	3.06.B.T-04 Photochemical Chain Scissions Enhance Polyethylene Glycol Biodegradability: From Probabilistic Modelling to Experimental Demonstration | **Kevin Kleemann**, ETH Zurich, Switzerland	Poster spotlights: 3.06.P-We233, 3.06.P-We235, 3.06.P-We252
F2	**Global Drinking Water Quality: Exposure to Natural and Anthropogenic Contaminants and Their Human-Health Effects** | Kelly Smalling, Paul Bradley	
	4.09.T-04 Challenges of Managed Aquifer Recharge (MAR) - Potential pathway of contaminants of emerging concern (CECs) into ground- and drinking water systems or effective treatment? | **Tabea Mumberg**, University of Gothenburg, Department of Earth Sciences, Sweden	**4.09.T-05** A harmonized approach for the conduction of treatments and analytics according to EFSA/ECHA GD on water treatment | **Michael Kubicki**, Bayer AG, Germany
Hall G	**Lab and Field Collected Invertebrates and in Situ Studies in Ecotoxicology: Challenges and Opportunities** | Carlos Barata, Ben Kefford, Claudia Rivetti, James Lazorchak	
	2.05.T-04 Improving interim freshwater guideline values for Aluminium by investigating the effects of laboratory-spiked and field-collected water on aquatic invertebrates | **Sara Long**, Aquatic Environmental Stress Research Group (AQUEST), School of Science, Bundoora West Campus, RMIT-University, Australia	**2.05.T-05** Organophosphate Esters Disrupt Copepods Health and their Associated Microbiome: From a Large Cross-Atlantic Ocean Field Study to Confirmatory Lab Experiments | **Maria Paula Carrillo**, IDAEA-CSIC, Spain
Hall K1	| Zhiyong Xie, Katrin Vorkamp, Francesca Spataro, Rainer Lohmann	
	3.19.B.T-04 High-Resolution Record of Global Background Persistent Organic Pollutants from Antarctic Marine Sediments | **Jun-Tae Kim**, Korea Institute of Science and Technology, Korea, Republic of	Poster spotlights: 3.19.P-We261, 3.19.P-We271, 3.19.P-We278
Hall K2	**Europe and Beyond** | Pia Kotschik, Ricardo Petersen, Ingrid Rijk, Paola Grenni	
	4.12.T-04 Next Generation Soil Risk Assessment: Application of the FORESEE Earthworm Model for Europe | **Vanessa Roeben**, Bayer AG, Germany	**4.12.T-05** National Approaches to European Soil Threshold Values: A Review Towards a Degree of Harmonization | **Stijn Van Hees**, ARCHE consulting, Belgium
Hall D2	**Methods and Tools Enabling Safe and Sustainable by Design (SSbD) Strategies** | Barry Hardy, Bernd Nowack, Zhanyun Wang, Maja Halling	
	6.04.T-04 Life Cycle Based Risk and Opportunity Mapping: A Systematic Collaborative Procedure to Integrate Environmental and Health in Early Innovation | **Therese Karnman**, Swedish Environmental Research Institute (IVL), Sweden	**6.04.T-05** MechoA+: One Scheme to Bind Them All | **Gaspard Levet**, KREATiS, France
Hall D3	| Stefan Hahn, Joris Quik, Antonia Praetorius, Sam Harrison	
	3.02.B.T-04 Exploring the Long-term Human Exposure to Short-, Medium-, and Long-chain Chlorinated Paraffins Under Variant Environmental Release Trends and Patterns | **Chengkang Chen**, University of Toronto Scarborough, Canada	**3.02.B.T-05** What Does the Next Generation of Environmental Exposure Models Look Like? | **Sam Harrison**, UKCEH, United Kingdom

Wednesday Platform Presentations Afternoon

	14:30	14:45	15:00
Hall M	**Developments, Challenges and Solutions in Chemical (Bio)Degradation and Persistence Assessment** | Christopher Hughes, Delina Lyon, Romanas Cesnaitis, Aina Wennberg		
	3.05.T-01 Regulatory challenges and needs in degradation testing and persistence assessment of difficult to test substances | **Kostas Andreou**, European Chemicals Agency (ECHA), Finland	**3.05.T-02** Building Knowledge from Available Degradation Simulation Studies to Improve Use in Regulatory Persistence Assessments | **Louise Camenzuli**, ExxonMobil Petroleum & Chemical BV, Belgium	**3.05.T-03** Does benchmarking increase the accuracy of predicting biodegradation across aquatic ecosystems? | **Run Tian**, Department of Environmental Science (ACES), Stockholm University, Sweden
Hall N	**Life Cycle Impact Assessment Modeling Including Normalization & Weighting** | Roland Hischier, Jacques L'Haridon, Olivier Jolliet, Esther Sanye-Mengual		
	5.08.T-01 Getting Water Impacts Right - Methodological Developments from Inventory Modelling to Regionalized Impact Assessment in the ecoinvent Database | **Thomas Sonderegger**, ecoinvent, Switzerland	**5.08.T-02** Midpoint characterization model for water consumption impacts on aquatic ecosystem: RESCUE model | **Masaharu Motoshita**, AIST, Japan	**5.08.T-03** Accounting for specific impacts of fisheries in the Environmental Footprint Method - Combining Fishery Science and LCA | **Anne Asselin**, Sayari, France
Hall E	**Next Generation of Environmental Risk Assessment - From Data to Design** | Tobias Pamminger, José Vicente Tarazona Lafarga, Averina Nicolae, Matthew Hall		
	7.02.T-01 Development of a New Framework Advancing the Integration of New Approach Methodologies in Environmental Risk Assessment | **Claudia Rivetti**, Unilever, United Kingdom	**7.02.T-02** Leveraging Cell Painting for cytotoxicity and mode-of-action analysis of 1085 diverse compounds | **Jessica Ewald**, EMBL-EBI, Broad Institute of MIT and Harvard, United Kingdom	**7.02.T-03** Combination and interpretation of datasets with mechanistic models for informed decision making and increased certainty in regulatory risk assessment | **Thomas G. Preuss**, Bayer AG, Germany
Hall F1	**Addressing Regulatory Gaps in Polymer Risk Assessment: Advances in Testing, Novel Test Methods, and Environmental Impact Evaluations** | ...		
	4.02.T-01 Leveraging increased microbial cell concentrations to assess the biodegradability of water soluble and water-dispersible polymers in laboratory tests | **Glauco Battagliarin**, BASF SE, Germany	**4.02.T-02** Moving Biodegradation Testing of Water-Soluble Polymers Closer to Environmentally Realistic Scenarios | **Aaron Kintzi**, University of Vienna, Centre for Microbiology and Environmental Systems Science, Division of Environmental Geosciences, Austria	**4.02.T-03** Phys-Chem Challenges in Regulatory: Water Solubility and Octanol/Water Partition Coefficient | **Joachim Venzmer**, Evonik Operations GmbH, Research Interfacial Technology, Germany
Hall F2	★ **The Planetary Boundaries for Biodiversity in the Context of Safe and Sustainable by Design** | Leo Posthuma, Annegaaike Leopold		
	14:25	**14:30**	**14:35**
	8.06.T-01 Introductory Remarks | **Annegaaike Leopold**, Calidris Environment BV, Netherlands	**8.06.T-02** Introduction to the cross-cutting issues with regard to carrying capacity, SSbD, governance, planetary boundaries for biodiversity | **Leo Posthuma**, National Institute for Public Health and the Environment (RIVM), Netherlands	**8.06.T-03** Pitch talks: What is essential and innovative? - A few expert perspectives
Hall G	**Integrative Approaches to Biomonitoring and Wildlife Toxicity: Improving the Assessment of Exposure and Effects of Legacy and Emerging Contaminants.** | ...		
	2.10.T-01 Brown rat (Rattus norvegicus) metabolic adaptation to high rodenticide usage in the sewer system of the city core of Madrid | **Azucena Bermejo-Nogales**, Instituto Nacional de Investigacion y Tecnologia Agraria y Alimentaria (INIA-CSIC), Spain	**2.10.T-02** Dermal Pesticide Exposure of Sand Martins (Riparia riparia) and Barn Swallows (Hirundo rustica) as a Potential Cause for their Acute Death | **Aafke Saarloos**, WUR, Netherlands	**2.10.T-03** Developing non-invasive tools for monitoring pharmaceutical exposure in avian scavengers | **Marta Herrero-Villar**, Institute for Game and Wildlife Research (IREC-CSIC-UCLM-JCCM), Spain
Hall K1	**Marine and Coastal Pollution: Novel Quality Assessment Strategies and Management** | Mathijs Smit, Ioanna Katsiadaki, Milo de Baat, Belen Gonzalez-Gaya		
	4.11.T-01 Tracing Contaminants in Seafood Across the Global Ocean: Current Status and Future Management Directions | **Maria Vittoria Barbieri**, IDAEA-CSIC, Spain	**4.11.T-02** Spatial distribution of per- and polyfluoroalkyl substances (PFAS) in natural and restored intertidal wetlands in the Scheldt estuary | **Thimo Groffen**, University of Antwerp, Belgium	**4.11.T-03** Patterns of Accumulation of Plastic Additives in Top Predator Sharks from the North Atlantic Ocean | **Roger Casado**, MARE Marine and Environmental Sciences Centre & ARNET - Aquatic Research Network, ESTM, Polytechnic of Leiria, Portugal
Hall K2	**Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment** | Rena Isemer, Valeska Contardo, Guido Gonsior, Joshua Arnie		
	2.09.T-01 Temporal heterogeneity of periphyton microbial activity and photosynthesis sensitivity to the chemical stress and its environmental drivers | **Lin Zi**, INRAE, EABX, France	**2.09.T-02** Investigating the Impact of Herbicide Exposure on Macrophyte Community Composition and Long Term Recovery | **Isabel Navarro Law**, University of York, United Kingdom	**2.09.T-03** Overspray of herbicides poses risk for floating aquatic macrophytes | **Gertie Arts**, Wageningen University and Research (WUR), Netherlands
Hall D2	**Communication for Tomorrow: From Experimental Design Towards Societal Impact** | Leonie Mueller, Annika Mangold-Doring, Lena Benner, David Mennekes		
	6.06.T-01 Bridging Science and Law: Effective Communication in Water Reuse Projects | **Jan Specker**, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Netherlands	**6.06.T-02** What's in Our Water? Sailor's Scientific Strategies | **Katie Reilly**, University of Birmingham, United Kingdom	**6.06.T-03** The Price of PFAS: How Access to PFAS Information Affects Willingness-to-Pay for Products Labelled as "PFAS Free" or "Contains PFAS" | **Sabine Pahl**, University of Vienna, Austria
Hall D3	**Ecotoxicology and Environmental Chemistry in Mountain and Remote Areas: Challenges, Impacts, and Future Directions** | Paolo Pastorino, Damia Barcelo		
	2.12.T-01 Polycyclic Aromatic Hydrocarbon (PAHs) Contents in Soil Organic Matter Fractions Along an Elevation Gradient in the French Alps | **Lise Marchal**, University Savoie Mont-Blanc, France	**2.12.T-02** Airborne Benzothiazoles and Organophosphate Flame Retardants at a High-altitude Background Site in the Eastern Italian Alps: Occurrence, Sources and Temporal Trends | **Eleonora Favaro**, Department of Environmental Sciences, Informatics and Statistics (DAIS), Ca Foscari University of Venice, Italy	**2.12.T-03** High-Mountain Lakes as Indicators of Microplastic Pollution: Insights From the Alps | **Alice Gabetti**, The Veterinary Medical Research Institute for Piedmont; Regional Reference Centre for the Biodiversity of Aquatic environments (BioAqua), Italy

Wednesday Platform Presentations Afternoon

	15:15	15:30
Hall M	**Developments, Challenges and Solutions in Chemical (Bio)Degradation and Persistence Assessment** | Christopher Hughes, Delina Lyon, Romanas Cesnaitis, Aina Wennberg	
	3.05.T-04 Opportunities and Limitations of Data-Driven Models to Predict Environmental Persistence | **Jose Cordero Solano**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	Poster spotlights: 3.05.P-We209, 3.05.P-We210, 3.05.P-We219
Hall N	**Life Cycle Impact Assessment Modeling Including Normalization & Weighting** | Roland Hischier, Jacques L'Haridon, Olivier Jolliet, Esther Sanye-Mengual	
	5.08.T-04 Cellulosic Versus Synthetic Fibers: How Do They Compare in a Life Cycle Assessment When Fibers Emissions are Included? | **Nadim Saadi**, CIRAIG, Department of Chemical Engineering, Polytechnique Montreal, Canada	**5.08.T-05** Life Cycle Impact Assessment for Positive and Negative Impacts of Offshore Wind Farms on Benthic Marine Biodiversity | **Liv Stranddorf**, Section for Quantitative Sustainability Assessment, Department of Environmental and Resource Engineering, Technical University of Denmark, Denmark
Hall E	**Next Generation of Environmental Risk Assessment - From Data to Design** | Tobias Pamminger, José Vicente Tarazona Lafarga, Averina Nicolae, Matthew Hall	
	7.02.T-04 Spot the Differences: Does Biotransformation Explain Sensitivity Variations in Non-Target Aquatic Arthropods to a Plant Protection Product? | **Giulia Cafiero**, Wageningen University and Research (WUR), Netherlands	**7.02.T-05** Joining Structural and Genetic Similarity Modelling: Advancing QSAR for Cross-Species Toxicity Predictions | **Mirko Forastiere**, Institute of Environmental Sciences (CML), Leiden University, Netherlands
Hall F1	| Friederike Luenne, Mike Rasenberg, Amelie Ott, Ksenia Groh	
	4.02.T-04 Anticipating the Implementation of Polymer REACh: Exploring the Technical Challenges for Polymers in OECD Test Guidelines for Solubility and (Eco-)Toxicity Tests | **Patrick Baudy-Groh**, BASF SE, Germany	Poster spotlights: 4.02.P-We324, 4.02.P-We330, 4.02.P-We335
Hall F2	★ **The Planetary Boundaries for Biodiversity in the Context of Safe and Sustainable by Design** | Leo Posthuma, Annegaaike Leopold	
	15:10	**15:40**
	8.06.T-04 Discussion with Panellists and Audience	**8.06.T-05** Concluding Remarks
Hall G	| Pablo Sanchez Virosta, Nico van den Brink, Pilar Gomez-Ramirez, Annalisa Zaccaroni	
	2.10.T-04 A bat-barber for metal exposure? | **Annalisa Zaccaroni**, Department Veterinary Medical Sciences, University of Bologna, Italy	Poster spotlights: 2.10.P-We115, 2.10.P-We119, 2.10.P-We136
Hall K1	**Marine and Coastal Pollution: Novel Quality Assessment Strategies and Management** | Mathijs Smit, Ioanna Katsiadaki, Milo de Baat, Belen Gonzalez-Gaya	
	4.11.T-04 Minimum necessary copper release rates for effective antifouling coatings in European coastal waters | **Maria Lagerstrom**, Chalmers University of Technology, Sweden	**4.11.T-05** Current levels of OCPs residues in sediments: towards an environmental risk assessment for a coastal lagoon in the southern Gulf of Mexico | **Victor G. Elias-Garcia**, Posgrado en Ciencias del Mar y Limnolog a, Universidad Nacional Autonoma de Mexico, Mexico
Hall K2	**Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment** | Rena Isemer, Valeska Contardo, Guido Gonsior, Joshua Arnie	
	2.09.T-04 Estimating Fifty Percent Effect Rates for Plant Visual Injury via a Decision Tree | **Gunther du Hoffmann**, Eurofins EAG Agrosciences, United States	**2.09.T-05** First Insights into Drift Capture Efficiency of Non-Target Terrestrial Plants | **Rena Isemer**, Bayer AG, Germany
Hall D2	**Communication for Tomorrow: From Experimental Design Towards Societal Impact** | Leonie Mueller, Annika Mangold-Doring, Lena Benner, David Mennekes	
	6.06.T-04 Cosmetics labelling and ingredients: disentangling false-claims and empowering consumers | **L. Cristiana Gheorghe**, University of Birmingham, United Kingdom	**6.06.T-05** Getting Beyond the Bubble: Measuring Effectiveness of Outreach Activities for SSbD-Related EU Projects | **Caitlin Ahern**, BioNanoNet Forschungsgesellschaft mbH, Austria
Hall D3	**Ecotoxicology and Environmental Chemistry in Mountain and Remote Areas: Challenges, Impacts, and Future Directions** | Paolo Pastorino, Damia Barcelo	
	2.12.T-04 Using Dragonflies as Bioindicators of Per-and Polyfluoroalkyl Substances (PFAS) Exposure in United States Protected Areas | **Kelly Smalling**, US Geological Survey, United States	**2.12.T-05** No longer pristine! Occurrence of perfluoroalkyl chemicals (PFAS) and an herbicide in water bodies in the tropical rainforest of Madagascar | **Walter Cristiano**, Unit of Ecosystems and Health, Department of Environment and Health, Italian National Institute of Health (ISS), Italy

Schedule

Setup	08:30–9:30
Poster Viewing	10:50–11:35
Poster Viewing	12:55–14:25
Poster Viewing	15:45–16:45
Poster Social	17:45–18:15
Take Down	by 18:15
Poster Corners	16:00–16:45

Late-Breaking Science Posters

Late-breaking science posters are not included in the printed programme book. For a full list of poster presentations, please visit the online meeting platform.

Poster Corners

Poster Corner 1

Molecular Ecotoxicology and Omics Perspectives: Advancing Mechanistic Understanding for Environmental Risk Assessment | Ksenia Groh, Denina Simmons, Pedro Inostroza, Sebastian Eilebrecht

1.04.P-We001, 1.04.P-We002, 1.04.P-We003, 1.04.P-We004, 1.04.P-We005, 1.04.P-We010

Poster Corner 2

Vanishing Scales and Slimy Trails: Interdisciplinary Perspectives on Amphibian and Reptile Conservation | Valentin Mingo, Giulia Simbula, Marion Junghans

2.11.P-We144, 2.11.P-We145, 2.11.P-We146, 2.11.P-We147, 2.11.P-We148, 2.11.P-We149

Poster Corner 3

One Health: Contributions From Environmental Toxicology and Chemistry to This Global Initiative | Gerd Maack, Jorge Herkovits, James Lazorchak

4.01.P-We315, 4.01.P-We316, 4.01.P-We317, 4.01.P-We318, 4.01.P-We319, 4.01.P-We322

Poster Corner 4

Understanding, Detection, Monitoring, and Management of Harmful Algal Blooms (HABs) and Natural Toxins in the Environment | Begoña Espina , Marisa Passos

4.16.P-We401, 4.16.P-We402, 4.16.P-We403, 4.16.P-We404, 4.16.P-We405, 4.16.P-We406

Poster Corner 5

Including the Biogenic Carbon Emissions and Removals in Life Cycle Assessment: Advances and Challenges | Ilkka Leinonen, Anniina Lehtila, Hafiz Usman Ghani

5.06.P-We415, 5.06.P-We416, 5.06.P-We417, 5.06.P-We418, 5.06.P-We419, 5.06.P-We420

Poster Corner 6

Almost there? Latest News on Pollinator Risk Assessment in the EU | Stefan Kimmel, Jens Pistorius, Ivo Roessink, Johannes Luckmann

6.09.P-We508, 6.09.P-We509, 6.09.P-We510, 6.09.P-We511, 6.09.P-We512, 6.09.P-We513

Poster Sessions

POSTER AREA 1 (Hall X1, Level -2)

Molecular Ecotoxicology and Omics Perspectives: Advancing Mechanistic Understanding for Environmental Risk Assessment | Ksenia Groh, Denina Simmons, Pedro Inostroza, Sebastian Eilebrecht

1.04.P-We001 Role of Nutritional Status on Arsenic Toxicity in Daphnia pulex: A Combined Life History and Multi-Omics Perspective on Individual and Interactive Effects | **Emily DeTemple**, Paul H. O'Neill School of Public and Environmental Affairs, Indiana University, United States

1.04.P-We002 Transcriptomic fingerprinting of pyriproxyfen and abamectin exposure in zebrafish embryos and daphnia: implications for species sensitivity and risk assessment | **Steve Ayobahan**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

1.04.P-We003 The Potential of OMICs in Anticipating and Differentiating Modes of Action of Fungicides | **Fatma Marghany**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

1.04.P-We004 A Transcriptomic Points of Departure Assay for Rainbow Trout Embryos: Comparisons with fish acute and chronic toxicity data | **Niladri Basu**, McGill University, Canada

1.04.P-We005 Contribution of Dose-Response Modelling for Mechanistic Understanding of (Multi-) Omics Data and Risk Assessment | **Elise Billoir**, LIEC, Universite de Lorraine, CNRS, France

1.04.P-We006 Cellular Handling, Transformation Pathways and Metabolic Disturbances of Mercury in Freshwater Phytoplankton | **Vera Slaveykova**, University of Geneva, Switzerland

1.04.P-We007 Towards Mechanistic Understanding of Reduced Cell Proliferation: An RNA- and RIBOseq Approach | **Sven Mosimann**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.04.P-We008 Metabolomic and transcriptomic changes in larval zebrafish after developmental exposure to Aroclor 1254 | **Corey Green**, Eastern New Mexico University, United States

1.04.P-We009 Ecotoxicogenomic Hazard Assessment of the Artificial Sweetener Sucralose | **Alexandra Loll**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

1.04.P-We010 Sex-Specific Behavioural Ecotoxicology and Transcriptomic Responses to Phenanthrene in the Amphipod Parhyale hawaiensis | **Ibrahim Lawan**, Heriot-Watt University, United Kingdom

1.04.P-We011 Metabolomics Analysis for the Investigation of New Endocrine-Sensitive Endpoints in the Great Pond Snail Lymnaea stagnalis | **Gaetan Yannick Tucoo**, University of Southern Denmark, Department of Biology, Denmark

1.04.P-We012 Disruption of Thyroid and Sex Steroid Hormones by Trioctyl Trimellitate in Zebrafish: Integrating Mechanistic and Transcriptomic Analysis | **Yunchul Ihn**, Seoul National University, "Korea, Republic of"

1.04.P-We013 Association between exposure to environmental pollutants and non-alcoholic fatty liver disease (NAFLD) and development of hepatotoxicity biomarker using zebrafish | **Kyunghee Ji**, Yongin University, "Korea, Republic of"

1.04.P-We014 An Integrative Omics Approach for the Development of Conceptual Adverse Outcome Pathways: A Case Study Map[ing Metabolic Syndrome in Tributyltin-Exposed Adipocytes | **Fotini Nikiforou**, Aristotle University of Thessaloniki, Greece

1.04.P-We015 Toxicophenomic Assessment of the Combined Effect of Metsulfuron-methyl Exposure and Drought on Sinapis Arvensis | **Valentine Guzniczak**, Copenhagen University, Denmark

1.04.P-We016 Evaluating the potential of bioactive metabolites in Red seaweed extracts: addressing key challenges through integration and innovation of cell assays | **Ilias Semmouri**, Ghent University, Belgium

1.04.P-We017 de novo transcriptome assembly and annotation of Gammarus pulex: a valuable resource for ecotoxicogenomics | **Camilo Escobar Sierra**, Institute of Zoology, Faculty of Mathematics and Natural Science, University of Cologne, Germany

1.04.P-We018 AQUADIVERS: Employing Metabarcoding to Assess the Local Impact of Metal Emissions on Freshwater Biodiversity | **Vanessa Moreira**, GhEnToxLab - Ghent University (UGent), Belgium

1.04.P-We019 Aerial eDNA - A New Approach to Identify and Monitor Species in Farmland: A pilot study | **Martin Vallon**, RIFCON GmbH, Germany

1.04.P-We020 Metabolomics reveal polyethylene terephthalate microplastic-induced metabolic disturbances dependent on different shapes and sizes | **Kiyun Park**, Chonnam National University, Korea, Republic of

1.04.P-We021 Transcriptomic analysis of Daphnia magna following exposure to biodegradable and conventional microplastics: Insights into molecular toxicity pathways | **Nik Nurhidayu Nik Mut**, Korea University, Malaysia

1.04.P-We022 Size- and shape-dependent toxicity of microplastics on the marine rotifer Brachionus koreanus: in vivo toxicity and multi-omics approach | **Young-Mi Lee**, Sangmyung University, "Korea, Republic of"

1.04.P-We023 An integrated multi-omics approach to uncover the shape-dependent toxicity mechanisms of microplastics in juvenile rockfish Sebastes schlegeli | **Kwang-Min Choi**, Korea Institute of Ocean Science & Technology (KIOST), "Korea, Republic of"

1.04.P-We024 Comparing In-Silico Predicted and Observed Transcriptomic Responses of Gammarus pulex to Micropollutants in Germany | **Pedro A. Inostroza**, RWTH-Aachen University, Germany

1.04.P-We025 Temporal Trends in Transcriptomic Changes Induced by Suspended Particulate Matter Extracts in Zebrafish Embryos | **Vanessa Runge**, Department Evolutionary Ecology & Environmental Toxicology, Goethe University Frankfurt, Germany

1.04.P-We026 Effects of alternative phthalates on growth hormone-related endocrine system, neurobehavioral development and oxidative stress in zebrafish larvae | **Kyunghee Ji**, Yongin University, "Korea, Republic of"

1.04.P-We027 Investigation of adverse outcome pathways associated with preeclampsia and use of zebrafish to screen environmental pollutants | **Inhye Lee**, Department of Environmental Health Sciences, Seoul National University, "Korea, Republic of"

1.04.P-We028 Transcriptomic Responses of Embryonic Flounder (Paralichthys olivaceus) to Hull In-Water Cleaning Wastewater Exposure | **Seong Hee Mun**, Korea Institute of Ocean Science & Technology (KIOST), "Korea, Republic of"

1.04.P-We029 Analyzing the Metabolic Effects of Nitrobenzene Exposure in Japanese Medaka (Oryzias latipes) with Consideration of Reproductive Cycle | **Jaehyeon Park**, School of Environment and Energy Engineering, Gwangju Institute of Science and Technology (GIST), "Korea, Republic of"

1.04.P-We030 Investigating the Effects of N-alkyl Dimethyl Benzyl Ammonium Chloride (ADBAC) on the Fathead Minnow (Pimephales promelas) Proteome, in a Two-Phase Approach and as Part of a Whole-Ecosystem Study | **Raina Hubley**, Ontario Tech University, Canada

1.04.P-We031 Chronic Pollutant Exposure: Implications for Estuarine Fish Under Multi-Stressor Conditions | **Juliane Schulte**, University of Hamburg, Institute for Cell and Systems Biology of Animals, Molecular Animal Physiology, Germany

1.04.P-We032 Optimization of Non-Lethal Fish Epidermal Mucus Collection Methods for Remote Fieldwork, Community-Based Monitoring, and Community Science | **Denina Simmons**, Ontario Tech University, Canada

1.04.P-We033 Exploring the Trophic Transfer Risks of Titanium Dioxide Nanoparticles in Aquatic Organisms | **Mario Araujo**, CIIMAR, Portugal

1.04.P-We034 Toxicokinetics of perfluorinated compounds (PFCs) in frogs (Rana tigrina cantor) via skin exposure and effects of hibernation | **Xiao-Jun Luo**, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, China (Mainland)

1.04.P-We035 Hepatic Transcriptome Alterations of Xenopus Laevis Following Multi Route Exposure to Graphene Oxide | **Florian Chapeau**, Centre de Recherche sur la Biodiversite et l'Environnement (CRBE), Universite de Toulouse, CNRS, IRD, Toulouse INP, Universite Toulouse 3 Paul Sabatier (UT3), France

1.04.P-We036 Protein Panel to Assess Toxicity Mechanisms and Effects in the Zebrafish PAC2 Cell Line | **Mihai-Ovidiu Degeratu**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.04.P-We037 Time-resolved analysis of trifloxystrobin-induced proteome alterations in a fish cell line | **Ksenia Groh**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.04.P-We038 Assessing the Effects of Emerging Contaminants on Gene Expression in Stenella coeruleoalba Biopsies and Human Cell Cultures | **Antonino Alessi**, University of Siena, National Biodiversity Future Center (NBFC), Italy

1.04.P-We039 Transcriptomic Analysis of Diesel Particulate Matter-Induced Molecular Effects in H9C2 Cardiomyocytes | **Kyoung Jin Nho**, Institute of Occupation and Environment, COMWEL, "Korea, Republic of"

1.04.P-We040 Impact of Neuroactive Pharmaceuticals and Pesticides on Excitability of Neuronal SH-SY5Y cells: Role in Identification of Biomarkers of Effect of Neuroactive Compounds | **Irina Vulin**, Laboratory for Ecophysiology and Ecotoxicology LECOTOX, Department of Biology and Ecology, University of Novi Sad, Serbia

1.04.P-We041 In Vitro Transcriptomic Analyses and MicroFlow Assay for Natural Anthraquinone Dyes | **Mikko Herrala**, University of Eastern Finland, Finland

Linking Lab and Field Evidence on Pesticide Effects on Biodiversity and Ecosystem Functions | Alina Koch, Jes Rasmussen, Ayesha Siddique, Stephen Short

2.03.P-We042 Effects of the Antimicrobial Triclosan on Community Structure and Ecosystem Functioning in Sub-tropical Freshwater Ecosystems | **Kai-Sheng Yao**, Aquatic Ecology and Water Quality Management Group, Wageningen University & Research, Netherlands

2.03.P-We043 Towards the integration of periphyton in pesticide biomonitoring to assess ecological impacts on agricultural streams | **Alina Koch**, Swedish University of Agricultural Sciences (SLU), Sweden

2.03.P-We044 Investigating the Role of Pesticides and Pharmaceuticals in Riparian Ecosystems: Insights from the RIPARIANET Project | **Monika Laux**, Institute for Environmental Sciences (iES Landau), University of Kaiserslautern-Landau (RPTU), Germany

2.03.P-We045 Effects of Flood-Mediated Pollutant Transfer on Total Polyphenol Content in Riparian Plants | **Maria Jose Gormaz-Aravena**, Institute for Environmental Sciences (iES Landau), University of Kaiserslautern-Landau (RPTU), Germany

2.03.P-We046 Behavioural response of a native and invasive amphipod to sublethal pesticide exposure | **Darragh Melaugh**, School of Biological Sciences, Queen's University Belfast, United Kingdom

2.03.P-We047 Effects of Triticonazole on a Simple Freshwater Ecosystem under Elevated Temperature | **Banchiamlak Admasu**, Wageningen University and Research (WUR), Netherlands

2.03.P-We048 The effects of commercial 2,4-D herbicide on larval fathead minnows: Natural lake water vs. laboratory system water | **Serena George**, University of Wisconsin-Madison, United States

2.03.P-We049 Weight-of-evidence approaches for interpreting multiple mesocosm studies: A case study with Lambda-cyhalothrin. | **Daniel Pickford**, Syngenta, United Kingdom

2.03.P-We050 Short-term toxicity of agricultural pesticides imidacloprid and tebuconazole in three freshwater invertebrates: A comparative study | **David Silva Alexandre**, Laboratory of Ecotoxicology and Applied Ecology, Department of Hydraulic and Sanitation, Sao Carlos School of Engineering, University of Sao Paulo (USP), Brazil

2.03.P-We051 Effect of the Fungicide Tebuconazole With Herbicidal Mode of Action on Plankton and Periphyton Communities in Freshwater Mesocosms | **Erik Sperfeld**, German Environment Agency (UBA), Germany

2.03.P-We052 Effects of the Fungicide Tebuconazole with Endocrine Acting Potential on a Macroinvertebrate Community in Stream-Lake Mesocosms | **Silvia Mohr**, German Environment Agency (UBA), Germany

2.03.P-We053 Functional and Behavioral Responses of Physa acuta Snails Exposed to Fungicide Tebuconazole | **Thandy Junio da Silva Pinto**, Universidade Estadual de Campinas (UNICAMP), Brazil

2.03.P-We054 Use of a native Amazonian ostracod in the evaluation of the submetallic effects of tebuconazole and imidacloprid | **Diego Ferreira Gomes**, LEEA/SHS, Engineering School, University of Sao Paulo, Brazil

2.03.P-We055 Imidacloprid: Spatial avoidance and behavioral impacts on the organism Poecilia reticulate | **Teresa Paiva**, University of Sao Paulo, Brazil

2.03.P-We057 Acute toxicity of the Bacillus thuringiensis commercial bio-insecticide for aquatic invertebrates | **Marina Botelho**, Universidade de Campinas, Brazil

2.03.P-We058 Ecotoxicological Sensitivity Mapping of the Province of Buenos Aires to Agrochemical Use | **Walter di marzio**, PRIET DCB UNLU CONICET, Argentina

2.03.P-We059 Pesticide residues in bio-based fertilizer products - Assessing product safety by bioassays | **Salla Selonen**, Finnish Environment Institute (SYKE), Finland

2.03.P-We060 Non-target arthropod testing under extended study conditions: How to handle study validity? | **Stephen Vinall**, Mambo Tox, United Kingdom

2.03.P-We061 Evaluation of triazole fungicide exposure to the development of Tenebrio molitor | **Paula Bolivar**, University of Castilla-La Mancha (UCLM), Spain

2.03.P-We062 Assessing Seed Coating Pesticide Risk to Honey Bee (Apis mellifera anatoliaca) Populations: A Study on Toxicity, Residue Levels, and Ecotoxicological Implications in Turkish Maize Fields | **Cafer Turgut**, Aydin Adnan Menderes University, Turkiye

2.03.P-We063 Nationwide monitoring and risk assessment of neonicotinoid insecticides in Korean river basins: A species sensitivity distribution approach | **Daeho Kang**, Changwon National University, "Korea, Republic of"

2.03.P-We064 Wellness Peeling? Reduced Exposure to Pesticides via Dehusking in Small Mammals | **Tina Grimm**, RIFCON GmbH, Germany

2.03.P-We065 Peel, eat, repeat - Monitoring of Bird Dehusking Behaviour | **Martin Vallon**, RIFCON GmbH, Germany

2.03.P-We066 Effects of Subchronic Exposure to Pyriproxyfen and Fipronil in Zebrafish (Danio rerio): Impacts on Thyroidal and Gonadal Axis Disruption and Oxidative Stress Gene Expression | **Bruno Fiorelini Pereira**, Federal University of Sao Paulo, Brazil

2.03.P-We067 Toxic Response of Danio rerio Exposed to Two Commercial Formulations of Glyphosate | **Fernando Martinez-Jeronimo**, Instituto Politecnico Nacional. Escuela Nacional de Ciencias Biologicas, Mexico

2.03.P-We068 Pesticide mixture effects on bioaccumulation and toxicity in biofilms | **Betty Chaumet**, Stockholm University, Sweden

2.03.P-We069 Histopathological Effects of Commercial Diflubenzuron Formulations on Wild-Type Zebrafish (Danio rerio): A Sub-Chronic Exposure Study | **Amanda Valle**, Laboratory of Molecular and Translational Endocrinology, Department of Medicine, Escola Paulista de Medicina, Universidade Federal de Sao Paulo, Brazil

2.03.P-We070 Histopathological effects caused by chronic exposure to the insecticide diflubenzuron in zebrafish | **Rafaella Brito**, Laboratory of Molecular and Translational Endocrinology, Division of Endocrinology, Department of Medicine, Escola Paulista de Medicina, Universidade Federal de Sao Paulo, Brazil

Lab and Field Collected Invertebrates and in Situ Studies in Ecotoxicology: Challenges and Opportunities | Carlos Barata, Ben Kefford, Claudia Rivetti, James Lazorchak

2.05.P-We071 In Situ Mussel Watch at Volcanic CO_2 Vents: exploring Ocean Acidification impacts on contaminant dynamics and One Health Risks | **Silvia Signorini**, University of Milan, Italy

2.05.P-We072 Unveiling the toxic trail: how methylmercury accumulates and impacts zebra mussels in field and the lab | **Clarisse Seguin**, Universite de Reims Champagne-Ardenne, UMR-I 02 SEBIO, France

2.05.P-We073 Investigating primary producers buffer effect against mercury pollution in two marine invertebrate species | **Ilaria D'Aniello**, University of Padova, Italy

2.05.P-We074 Di(2-ethylhexyl) phthalate induced altered expressions of genes involving in immune response, cellular defense and apoptosis in the mud crab | **Ihn-Sil Kwak**, Chonnam National University, "Korea, Republic of"

2.05.P-We075 Effects of Neonicotinoids Exposure on the Blue Crab (Callinectes sapidus): Bioaccumulation, Neurotoxicity, and Behavioral Implications | **Pilar Gomez-Ramirez**, University of Murcia, Spain

2.05.P-We076 The Amphipod Marinogammarus marinus in Ecotoxicological Studies: Evaluating Responses to Environmental Stressors | **Tiago Simoes**, MARE Marine and Environmental Sciences Centre & ARNET Aquatic Research Network Associate Laboratory, Polytechnic of Leiria, Portugal

2.05.P-We077 Effects of Gadolinium Exposure at Environmentally Relevant Levels in two Freshwater Invasive Species | **Alessandra Maganza**, The Veterinary Medical Research Institute for Piedmont; Regional Reference Centre for the Biodiversity of Aquatic environments (BioAqua); University of Perugia, Italy

2.05.P-We079 Dynamics of Zooplankton Biodiversity and Abundance in the Freshwater Lentic Mesocom System Located in Southern Poland | **Zuzanna Kacperek-Karetta**, lukasiewicz-IPO Branch Pszczyna, Poland

2.05.P-We080 Do mesocosm studies still have a future as higher tier risk assessment tool? | **Udo Hommen**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

2.05.P-We081 Maximising species abundance counts in mesocosm: What traps work best? | **Zoe Parker-Crosse**, Cambridge Environmental Assessments, United Kingdom

2.05.P-We082 Mesocosms offer a robust higher tier test system with high repeatability despite biological variability: A case study with diflufenican | **Eric Bruns**, Bayer AG, Germany

2.05.P-We083 Using Multiple Exposure Techniques to Identify the Sub-lethal Effects of Recycled Water Exposure on Shrimp | **Gina Mondschein**, RMIT University, Australia

2.05.P-We085 Analysis of Phospholipids Modulation by Perfluorononanoic Acid on the Freshwater Gastropod Physella acuta | **Ignacio Lopez-Alonso**, Universidad Nacional de Educacion a Distancia, Spain

2.05.P-We086 Acute Oral Exposure of the Non-target Foliar-dwelling Arthropod Chrysoperla carnea (Stephens) Using Artificial Diets | **Sergio Lopez**, Spain

Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment | Rena Isemer, Valeska Contardo, Guido Gonsior, Joshua Arnie

2.09.P-We087 Efficacy of Pseudomonas fluorescens and Azospirillum brasiliense based-biostimulant in forage plant development in a historically contaminated soil under climate change scenarios | **Patricia V. Silva**, Centre for Environmental and Marine Studies (CESAM), University of Aveiro, Portugal

2.09.P-We088 How to address herbicide effects in lotic ecosystems - A test system with benthic algal communties | **Silke Classen**, gaiac Research Institute, Germany

2.09.P-We089 Late nights and early mornings; impacts on freshwater algal morphology | **Zoe Parker-Crosse**, Cambridge Environmental Assessments, United Kingdom

2.09.P-We090 Combined effects of methylmercury and temperature in Chlamydomonas reinhardtii | **Claudia Cosio**, Universite de Reims Champagne-Ardenne, UMR-I 02 SEBIO, France

2.09.P-We091 Assessment of the Effects of Metformin on the Macrophytes Lemna gibba and Egeria densa | **Alma Sobrino-Figueroa**, Alejandro Villalobos Laboratory. Autonomous Metropolitan University-Iztapalapa, Mexico

2.09.P-We092 Effects of cosmetic products on photosynthetic active organisms in freshwater systems | **Guido Gonsior**, GG BioTech Design GmbH, Germany

2.09.P-We093 The Effect of Elevated Temperature on Pesticide Terbuthylazine-induced Changes in Duckweed Lemna Minor Growth and Oxidative Stress Levels | **Diana Miskelyte**, Laboratory of Ecotoxicology, Nature Research Centre, Lithuania

2.09.P-We094 Extraction and quantification of caulerpin in different Caulerpa species | **Sara P. Cuellar-Bermudez**, GG BioTech Design GmbH, Germany

2.09.P-We095 Identification of negative influence of pharmaceuticals on the biodiversity of freshwater ecosystems with focus to water plant communities | **Guido Gonsior**, GG BioTech Design, Germany

2.09.P-We096 Comprehensive analysis of water hyacinth biomass for use as an agricultural soil regenerator | **Isabel Lopes**, Centre for Environmental and Marine Studies (CESAM), University of Aveiro, Portugal

2.09.P-We097 Species sensitivity distribution for aquatic macrophytes: Species and distribution selection | **Anastasia Del Signore**, Corteva Agriscience, Germany

2.09.P-We098 Aquatic Macrophyte Toxicity: water phase vs overspray application | **Jorn Rosner**, DHD-Consulting GmbH, Germany

2.09.P-We099 Comparing the Suitability of Non-Destructive Macrophyte Endpoints | **Isabel Navarro Law**, University of York, United Kingdom

2.09.P-We100 Approaching a Harmonized Assessment of Phytotoxicity in Aquatic Plants | **Eric Bruns**, Bayer AG, Crop Science Division, Germany

2.09.P-We101 Extending the standard Lemna growth inhibition test according to OECD 221with quantitative phytotoxicity assessments | **Katharina Pelka**, RIFCON GmbH, Germany

2.09.P-We102 Elevated Temperature and CO2 Conditions Attenuate the Toxicity of Sulfamethoxazole on Barley Plants at Low Concentrations but Exacerbate It at Higher Levels | **Jurate Zaltauskaite**, Vytautas Magnus University, Lithuania

2.09.P-We103 Ecotoxicological Test Protocol for the Assessment of Reproductive Endpoints in Non-Target Terrestrial Plants under Greenhouse Conditions | **Andreas Duffner**, Eurofins Agroscience Services Ecotox GmbH, Germany

2.09.P-We104 Environmental Risk Assessment of Plant Protection Product Residues on Imported Cut Roses | **Daphne de Roode**, Office for Risk Assessment & Research (BuRO), Netherlands Food and Consumer Product Safety Authority, Netherlands

2.09.P-We105 Zn-Al-NO3 layered double hydroxide as potential innovative Zn nanofertilizer: An integrated assessment of its efficacy and environmental safety | **Catarina Malheiro**, University of Aveiro, Portugal

Integrative Approaches to Biomonitoring and Wildlife Toxicity: Improving the Assessment of Exposure and Effects of Legacy and Emerging Contaminants | Pablo Sanchez Virosta, Nico van den Brink, Pilar Gomez-Ramirez, Annalisa Zaccaroni

2.10.P-We106 Chemical Profiling of Hydrophobic Organic Compounds in Terrestrial Mammals at High Trophic Levels Using Silicone Chemometers | **Caglar Akay**, Department of Exposure Science, Helmholtz Centre for Environmental Research (UFZ), Germany

2.10.P-We107 Enhancing the Risk Assessment of Pesticides on Bats: A Case Study from the SYBERAC Horizon Project | **Berta Perez Vazquez**, IDAEA-CSIC, Spain

2.10.P-We108 Immunoglobulin G characterisation in Iberian hare inhabiting agricultural landscapes and exposed to an infectious disease | **Monica Martinez-Haro**, Institute for Game and Wildlife Research (IREC, UCLM-CSIC-JCCM); CIAG del Chaparrillo, Instituto Regional de Investigacion y Desarrollo Agroalimentario y Forestal de Castilla La Mancha (IRIAF), Spain

2.10.P-We109 Assessment of environmental contamination and pathogens in the conservation of bats in wetland National Parks in Spain - QUIROTOXPATH project | **Monica Martinez-Haro**, Institute for Game and Wildlife Research (IREC, CSIC-UCLM-JCCM), Spain

2.10.P-We110 PharmaBat: Investigating Bat-Mediated Transfer of Aquatic Pharmaceuticals to Terrestrial Ecosystems and Implications for Bat Health | **Natalia Sandoval Herrera**, Swedish University of Agricultural Sciences (SLU), Sweden

2.10.P-We111 Bat Activity in Agricultural Land | **Charles Hazlerigg**, Enviresearch Ltd, United Kingdom

2.10.P-We112 Hops in Crops: Monitoring Lagomorphs in Agricultural Landscapes | **Tina Grimm**, RIFCON GmbH, Germany

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3.19.P-We260 Antarctica Sampling and Logistic hurdles for Cyclic Volatile Methylsiloxanes (cVMS) | **Rita Seston**, Hyla Consulting LLC, United States

3.19.P-We261 Investigating Microplastic Transport in Western North American Snow | **Aleksandra Karapetrova**, University of California Riverside, United States

3.19.P-We262 Patterns in Mercury Biomagnification in Boreal and Subarctic Lake Food Webs - Similarities and Differences Across Climate and Productivity Gradients | **Alexander Piro**, University of Helsinki, Finland

3.19.P-We263 Enantioselective Accumulation and Trophodynamics of p-Phenylenediamines Antioxidants and Their Quinones in the Mangrove Ecosystem | **Yuxin Sun**, South China Normal University, China (Mainland)

3.19.P-We264 Do local sources of pollution influence the exposure of ringed seals (Pusa hispida) analyzed in Arctic contaminants monitoring programs? | **Derek C.G Muir**, Environment and Climate Change Canada (ECCC), Canada

3.19.P-We265 Recording the baseline before the change: First steps towards an integrated chemical and biological pollution and effects assessment off Dronning Maud Land Antarctica | **Gesine Witt**, HAW Hamburg, Germany

3.19.P-We266 PLASTFLOW - How Much Plastic Flows Into the Sea? Quantifying Plastic Fluxes and Identifying Plastic Hotspots in the Scheldt Estuary in Belgium | **Nelle Meyers**, Flanders Marine Institute (VLIZ), Belgium

3.19.P-We267 Factors influencing regulated pollutants in the air of Admiralty Bay, Antarctic Peninsula | **Amanda Camara de Souza**, Oceanographic Institute, University of Sao Paulo, Brazil, Brazil

3.19.P-We268 Emerging Per- and polyfluoroalkyl Substances (PFAS) Induced Intestinal Barrier Dysfunction in Marine Medaka (Oryzias melastigma) | **Naiyu XIE**, City University of Hong Kong, Hong Kong (Greater China)

3.19.P-We269 Pharmaceuticals and other compounds of emerging concern in the wastewater effluent of cruise ships in the Arctic | **Lisa Melymuk**, Masaryk University, Czech Republic

3.19.P-We270 Nontarget analysis of Arctic sediments: An empirical indicator of persistent chemicals overlooked by regulation | **Xiaodi Shi**, Stockholm University, Sweden

3.19.P-We271 Microplastics distribution and occurrence in Greenlandic Fjords | **Tristan Zimmermann**, Helmholtz-Zentrum Hereon, Germany

3.19.P-We272 Global Monitoring of Microplastic Pollution Exceeding 20 Microns: A Study Using Commercial Tanker Ships in the Atlantic, Pacific, and Indian Oceans | **Yutaka Kameda**, Chiba Institute of Technology, Japan

3.19.P-We273 PFAS presence in Antarctic drinking waters | **Belen Gonzalez-Gaya**, Plentzia Marine Station, University of the Basque Country, Spain

3.19.P-We274 Cross-cutting Studies of Per- and Polyfluorinated Alkyl Substances (PFAS) in Arctic Wildlife and Humans | **Derek Muir**, Environment and Climate Change Canada (ECCC), Canada

3.19.P-We275 Developing a Risk Assessment Framework for Mineral Based Ocean Alkalinity Enhancement | **Kristi Weighman**, Hourglass Climate, United States

3.19.P-We276 Climate Change and Permafrost Thaw Impact on Drinking Water Quality in Greenland | **Ida Huusmann Knofler**, Technical University of Denmark, Denmark

3.19.P-We277 Pollution of microplastics in the Pearl River estuary of China: From the perspective of multiple environmental media | **Xinhong Wang**, Xiamen University, China (Mainland)

3.19.P-We278 Unraveling the effects of microfibers across treatment stages via a critical prey species, in the context of climate change | **Susanne Brander**, Oregon State University, United States

3.19.P-We279 Per- and Polyfluoroalkyl substances (PFAS) in Sub-Antarctic Seabirds: Evidence for Long-range Transport and Bioaccumulation of Emerging Contaminants | **Imogen Bailes**, Lancaster University, United Kingdom

3.19.P-We280 Occurrence of chemicals of emerging concern in Antarctic soil | **Zhiyong Xie**, Helmholtz-Zentrum Hereon, Germany

3.19.P-We281 Local sources versus long-range transport of POPs and CEACs in the Arctic: Future developments related to climate change | **Derek Muir**, University of Guelph, Canada

3.19.P-We282 Identifying bioaccumulative emerging per- and polyfluoroalkyl substances in a coastal food web | **Yuefei Ruan**, City University of Hong Kong, Hong Kong (Greater China)

Chemical Fate in the Soil-Plant-System and Related Impacts and Risks | Arno Rein, Andreas Schwen, Marc Lamshoft

3.20.P-We283 Forest plant uptake of metals inherited from the Great War | **Laure Parodi**, University of Picardie Jules Verne; University of Reims Champagne-Ardenne, France

3.20.P-We284 Interactions between reclaimed water irrigation and planting season revealed by non-target HRMS rice fingerprinting | **Wen-Ling Chen**, National Taiwan University, Taiwan (Greater China)

3.20.P-We285 Reactive transport of coexisting organic pollutants and nitrate | **Nikola Rakonjac**, Wageningen University, Netherlands

3.20.P-We286 Composted Biosolids and Biochar as Sources of Wastewater Derived Contaminants for Plant Uptake | **Evyatar Ben Mordaechay**, The Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Israel, Israel

3.20.P-We287 Land Application of Biosolids: Bioaccumulation of Emerging Contaminants in Vegetables | **Audrey Braun**, University of California- Riverside, United States

3.20.P-We288 Assessment of the bioaccumulation, translocation, and distribution of per- and polyfluoroalkyl substances in terrestrial plants | **Frouke Decat**, University of Antwerp, Belgium

3.20.P-We289 Imidacloprid Uptake and Accumulation in Lettuce Plant (Lactuca sativa L. var. longipolia) and Its Effects on Abundance of Microbial Communities in Cultivated and Non-Cultivated Arid Soil | **Hattan A. Alharbi**, Department of Plant Protection, College of Food and Agriculture Sciences, King Saud University, Saudi Arabia

3.20.P-We290 Absorption and translocation of 14C-glyphosate in neotropical weed Machaerium hirtum (Vell.) Stellfeld | **Kassio Mendes**, University of Sao Paulo, Brazil

3.20.P-We291 Roots of Concern: Addressing PFAS Contamination in Vegetation at a Former Military Airbase | **John van Tol**, TAUW bv, Netherlands

3.20.P-We292 The impact of container size on the plant uptake of pharmaceuticals from soil | **Radka Kodesova**, Czech University of Life Sciences Prague, Czech Republic

3.20.P-We293 Pesticides in Pollen and Nectar: Initial Residue Concentrations and Their Dependency on Chemical, Application and Plant Characteristics | **Arno Rein**, Chair of Hydrogeology, TUM School of Engineering and Design, Technical University of Munich, Germany

3.20.P-We294 Insecticide Uptake and Fate in Pepper and Tomato Plants - Experiments and Modeling Considering Different Plant Growth Assumptions | **Arno Rein**, Chair of Hydrogeology, TUM School of Engineering and Design, Technical University of Munich, Germany

3.20.P-We295 Phosphorus Mobility in Oxisols: Implications of Phosphorus Sources for Sustainable Agricultural Systems | **Rodrigo Nogueira de Sousa**, Brazil

3.20.P-We296 Seasonal variation in uptake of contaminants of emerging concern into edible plants: Insights from a field study from Australia | **Minna Saaristo**, EPA Victoria, Australia

3.20.P-We297 A Monitoring Study to Ascertain a Baseline for Organic Contaminants in UK Agricultural Soils | **John Nightingale**, University of Leeds, United Kingdom

3.20.P-We298 Understanding Movement of Dimethylsilanediol (DMSD) in Soil: In Situ Transformation and Transport Behaviors | **Jaeshin Kim**, The Dow Chemical Company, United States

3.20.P-We299 Immobilization and Geochemical Fractionation of Metalloids in Contaminated Soils Amended with Waste-based Sorbents | **Veronika Spirova**, Comenius University in Bratislava, Faculty of Natural Sciences, Department of Geochemistry, Slovakia

3.20.P-We300 Wide-scope screening of over 2000 micropollutants and transformation products in agricultural soils under long-term reclaimed water irrigation | **Despo Fatta-Kassinos**, Department of Civil and Environmental Engineering and Nireas-International Water Research Center, School of Engineering, University of Cyprus, Cyprus

3.20.P-We301 Establishing Ecosystem Stress Baselines Using Drone-Based Multispectral Imaging: Vegetation Indices and Seasonal Dynamics in Plant Communities | **Dong Geun Song**, School of Environment and Energy Engineering, Gwangju Institute of Science and Technology (GIST), "Korea, Republic of"

3.20.P-We302 PFAS Mixtures in Irrigation Ponds: Effects on Soybean (Glycine max) Reproductive Phenotype | **Eguono Omagamre**, University of Maryland Eastern Shore, United States

3.20.P-We303 Does PFAS pollution result in smaller beans? A case study on PFAS accumulation and growth hormone levels in broad beans | **Demi Rotthier**, University of Antwerp, Belgium

3.20.P-We304 Bioaccumulation of Legacy and Novel Per- and Polyfluoroalkyl Substances (PFAS) in Food Plants | **Rebecca Yates**, University of California, Riverside, Department of Environmental Sciences, United States

POSTER AREA 2 (Hall X3, Level -2)

One Health: Contributions From Environmental Toxicology and Chemistry to This Global Initiative | Gerd Maack, Jorge Herkovits, James Lazorchak

4.01.P-We315 Metals and Metalloids in Sediment and Aquatic Organisms: Implications for Human Health in Ecuadorian Mangrove Forests | **Karla Ajoy**, University of Arizona, United States

4.01.P-We316 Operational invertebrate behaviour videotracking for real-time wastewater micropollutant surveillance | **George Ruck**, INRAE, France

4.01.P-We317 The SPRINT Project - Sustainable Plant Protection Transition: A Global Health Approach | **Vera Silva**, WUR, Netherlands

4.01.P-We318 One Health Approach to Addressing Environmental Pollution: Learnings from the Environmental Pollution Programme in South Africa | **Isabella Gosetto**, Joint Nature Conservation Committee, United Kingdom

4.01.P-We319 Life Cycle Tests to Unravel Reproductive and Developmental Effects in C. elegans | **Fabio Campos**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

4.01.P-We320 Ecotoxicological effects of Copper and Pendimethalin at three different temperatures on Danio rerio - the impacts of Climate changes in One Health World | **Micael Neves**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

4.01.P-We321 Alternative Assays for Routine Toxicity Assessment | **Wouter Lanneau**, Microbiotests Inc, Belgium

4.01.P-We322 Of Pigs and Men - Comparing PFAS Toxic Load Patterns in Wild Boar Liver and Human Blood Samples | **Tobias Frische**, German Environment Agency (UBA), Section II 2.6 Soil Protection Measures, Germany

4.01.P-We323 Effects of Bisphenols to Amphibians and Fish: An Integrative Approach | **Isabel Lopes**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

Addressing Regulatory Gaps in Polymer Risk Assessment: Advances in Testing, Novel Test Methods, and Environmental Impact Evaluations | Friederike Luenne, Mike Rasenberg, Amelie Ott, Ksenia Groh

4.02.P-We324 Navigating the Limitations of SEC: Strategies for Improved Polymer Analysis in Regulatory Frameworks | **Jana Falkenhagen**, BAM Bundesanstalt fur Materialforschung und -prufung, Germany

4.02.P-We325 Error Margins in the Determination of Molar Mass and Oligomer Content of Polymers | **Jana Falkenhagen**, BAM Bundesanstalt fur Materialforschung und -prufung, Germany

4.02.P-We326 An Algorithm to Address Side Components in SEC Chromatograms of Polymers for Regulatory Purposes | **Friederike Lunne**, BASF SE, Germany

4.02.P-We327 How Applicable are Existing Methods for the Determination of Adsorption/Desorption of Polymers - Application and Comparison of Test Guidelines OECD 106 and OECD 121 | **Sebastian Schmiedt**, Eurofins Agroscience Services EAG Laboratories GmbH, Germany

4.02.P-We328 Current Plastic Definitions and the Impact on Hazard Assessment of Dispersed Persistent Polymers in the Regulation of Chemicals | **Malgorzata Wilczynska**, Centre for Environment, Fisheries and Aquaculture Science (Cefas), United Kingdom

4.02.P-We329 Assessing bioavailability water-soluble polymers: conceptual and historical considerations | **Kristin Connors**, The Procter and Gamble Company, United States

4.02.P-We330 Next-Generation Biodegradation Testing for the PLF Market: Re-envisaging Biodegradation Standards Tests | **Nick W. Johnson**, Heriot-Watt University, United Kingdom

4.02.P-We331 Risk assessment of water-soluble cationic polymers reflecting realistic environmental conditions | **Shintaro Enoki**, Kao Corporation, Japan

4.02.P-We332 Polyvinylpyrrolidon Speeds Up and Increases Methane Production from Freshwater Sediments | **Alexander Feckler**, Institute for Environmental Sciences (iES Landau), University of Kaiserslautern-Landau (RPTU), Germany

4.02.P-We333 (Semi-)Quantitative Analysis of Polyamide 6 Oligomers in Multiple Water Samples using LC-HRMS: Evidence for the Presence of Polymer Derivatives in Drinking Water and Domestic Sewage | **Kailin Shen**, Department of Environmental Engineering, Changwon National University, "Korea, Republic of"

4.02.P-We334 Elucidating the role of enzymes in polymer biodegradation: A case study on poly(aspartic acid) | **Doris Ribitsch**, ACIB - Austrian Centre of Industrial Biotechnology, Austria and Department of Agrobiotechnology, IFA-Tulln, Institute of Environmental Biotechnology, University of Natural Resources and Life Sciences Vienna, Austria

4.02.P-We335 Innovating on polymer degradation: Making two ends meet | **Nathalie Vallotton**, Dow Chemical Company, Switzerland

4.02.P-We336 Are bio-based monomers environmentally safer alternatives to bisphenol A diglycidyl ether? | **Isabel Lopes**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

Global Drinking Water Quality: Exposure to Natural and Anthropogenic Contaminants and Their Human-Health Effects | Kelly Smalling, Paul Bradley

4.09.P-We337 Toxic Legacy of Brazil's Mining Disasters: Micropollutants Profile and Health Risks in Drinking Water after Mariana and Brumadinho collapses | **Carolina Panis**, State University of Western Parana, Brazil

4.09.P-We338 Emerging Contaminant 1,4-Dioxane: Emission Sources, Global Contamination, and Regulatory Disparities | **Nan Lin**, Shanghai Jiao Tong University, China (Mainland)

4.09.P-We339 Collective Challenge: Contaminant Mixtures in United States Private, Public, and Bottled Drinking Water | **Kelly Smalling**, U.S. Geological Survey, United States

4.09.P-We340 Per- and Polyfluoroalkyl Substances in Tapwater: A Case Study in the United States | **Kelly Smalling**, US Geological Survey, United States

4.09.P-We341 Challenges and Gaps in the Human Health Risk Assessment of Per- and Polyfluoroalkyl Substances: Drinking Water Perspective | **Adeolu Aderemi**, Water Research Centre Ltd, United Kingdom

4.09.P-We342 Toxicity and exposure assessment of NDMA in drinking water: Multi-omics profiling using zebrafish | **Raquel Chaves**, CIIMAR - Interdisciplinary Centre of Marine and Environmental Research, University of Porto, Portugal

4.09.P-We343 Suspect Screening and Non-Target Transformation Product Identification in Samples Derived from Drinking Water Treatment Processes | **Rory Mumford**, Smithers, United Kingdom

4.09.P-We344 EFSA Drinking Water Treatment Guidance - Challenges of Experiments for Plant Protection Products and Biocides | **Volker Wedek**, knoell Germany GmbH, Germany

4.09.P-We345 Chemical monitoring in biota for the Water Framework Directive: Large-scale implementation in France with in situ caging of Gammarus sp. (crustacea) | **Anthony Mathiron**, Biomae, France

Marine and Coastal Pollution: Novel Quality Assessment Strategies and Management | Mathijs Smit, Ioanna Katsiadaki, Milo de Baat, Belen Gonzalez-Gaya

4.11.P-We346 Exploring the Distribution and Impacts of Chemical Pollution in Coral Reef Ecosystems | **Milo de Baat**, Department of Freshwater and Marine Ecology (FAME), Institute for Biodiversity and Ecosystem Dynamics (IBED), University of Amsterdam, Netherlands

4.11.P-We347 Impacts of chemical pollution on biodiversity and biological responses in the Archipelago Sea (Baltic Sea) | **Raisa Turja**, Finnish Environment Institute (SYKE), Finland

4.11.P-We348 Metals in Squids (Doryteuthis sanpaulensis) from the Cananéia-Iguape Estuarine-Lagoon System (SP), Brazil | **Esther Calochorios Litvac**, Oceanographic Institution of the University of Sao Paulo, Brazil

4.11.P-We349 Occurrence, Concentration, and Risk Assessment of Phthalates in Commercial Fish Species from the Italian Coast | **Andrea Maccantelli**, Department of Physical Science, Earth and Environment, University of Siena; National Biodiversity Future Center, Italy

4.11.P-We350 Plasticizer contamination in commercially important fish species from the Mediterranean Sea: assessment of potential risk to Human Health | **Chiara Dettoto**, Department of Physical Science, Earth and Environment, University of Siena, Italy

4.11.P-We351 Signatures of Exposure to Persistent Organic Pollutants in Mesopelagic Fish from Northern California Current Ecoregion | **Miguel Vasquez**, Boz Life Science Research and Teaching Institute, United States

4.11.P-We352 Potential risk assessment of microplastics ingestion by some commercial fish species in the northern Oman Sea, Iran | **Mahsa Mobasheri**, Department of Environmental Science and Forest, Science and Research Branch, Islamic Azad University (SRBIAU) & Van t Hoff Institute for Molecular Sciences, Faculty of Science, University of Amsterdam, Netherlands

4.11.P-We353 Comparison of species sensitivity distribution modeling approaches for assessing risk of microplastic particles using monitoring data from Tokyo Bay | **Wataru Naito**, Research Institute of Science for Safety and Sustainability, National Institute of Advanced Industrial Science and Technology, Japan

4.11.P-We354 'NurdleTrack' - Source Identification and Hazard Assessment of Marine Plastic Nurdle Spills | **Andy M. Booth**, SINTEF Ocean, Norway

4.11.P-We355 Application of a Matrix Scoring Technique: A Reliable Methodology for the Sourcing of Macrolitter from River-Sea Interfaces? | **Therese Nitschke**, Flanders Marine Institute (VLIZ), Belgium

4.11.P-We357 Assessment of Sediment Neurotoxicity Through Effect-Based Methods: A Case Study in a Lagoon in Central Italy | **Ines Lacchetti**, Italian National Institute of Health, Italy

4.11.P-We358 Spatial Distribution of PAHs, Ni, and V, and Ecotoxicological Risk Estimation in Sediments from Terminos Lagoon Located Near a Petroleum Extraction Area in the Southern Gulf of Mexico | **Hugo F. Olivares-Rubio**, Unidad Academica de Procesos Oceanicos y Costeros, Instituto de Ciencias del Mar y Limnolog a, Universidad Nacional Autonoma de Mexico, Mexico

4.11.P-We359 Polycyclic Aromatic Hydrocarbons during the 21st Century in Southern Gulf of Mexico, a Prominent Petroleum Area: A Review and Risk Estimation | **Hugo F. Olivares-Rubio**, Unidad Academica de Procesos Oceanicos y Costeros, Instituto de Ciencias del Mar y Limnolog a, Universidad Nacional Autonoma de Mexico, Mexico

4.11.P-We360 Environmental Risk Assessment Associated with the Discharge of Subsea Pipeline Contents Between Oil Extraction Platforms | **Walter Di Marzio**, PRIET DCB UNLU CONICET, Argentina

4.11.P-We361 Offshore Chemical Regulatory System & Risk Assessment | **Kirit Wadhia**, NOV, United Kingdom

4.11.P-We362 The Effects of Water Accommodated Fraction from Chemically Dispersed Marine Gas Oil on the Lipid and Astaxanthin Profiles of the North Atlantic Copepod Calanus finmarchicus | **Belen Gonzalez-Gaya**, University of the Basque country, Spain

4.11.P-We363 Fourth generation oil spill dispersants applied on Patagonian petroleum spills | **Walter Di Marzio**, PRIET DCB UNLU CONICET, Argentina

4.11.P-We364 Chemical mapping and hazard assessment of antifouling coating systems on the EU market | **Peiyu Hou**, Chalmers University of Technology, Sweden

4.11.P-We365 Risk Assessment of Metals Released from In-Water Hull Cleaning in Coastal Environment: Evaluating Metal Leaching from Particulate wastes and the Impact of Simultaneous Operations in Harbor | **Moonkoo Kim**, Korea Institute of Ocean Science & Technology (KIOST), "Korea, Republic of"

4.11.P-We366 Advances in the Detection of Organic Substances in Seawater Using an Improved Vortex-Assisted Liquid-liquid Microextraction (VLLME) Approach | **Valentina Di Mauro**, Environmental Biochemistry Group, Institute for Chemistry and Biology of the Marine Environment (ICBM), Carl von Ossietzky University of Oldenburg, Germany

4.11.P-We367 Automated identification of histological lesions in fish liver for environmental assessment | **Pierre Liboureau**, Faculty of Science and Technology, University of Stavanger, Norway

4.11.P-We368 Challenges in Assessing Acute Toxicity of Environmental Samples in Brine Shrimp and Coral Toxicity Assays | **Valentina Di Mauro**, Environmental Biochemistry Group, Institute for Chemistry and Biology of the Marine Environment (ICBM), Carl von Ossietzky University of Oldenburg, Germany

4.11.P-We369 Comparing the Sensitivities of Oysters and Standard Aquatic Species to Pesticide Active Substances | **Hanna Schuster**, Cambridge Environmental Assessments, United Kingdom

Soil Environmental Risk Assessment: Navigating Changing Regulatory Frameworks and Field-Realistic Predictions of Contaminants, Mixtures, and Stressors in Europe and Beyond | Pia Kotschik, Ricardo Petersen, Ingrid Rijk, Paola Grenni

4.12.P-We370 In-field Recolonisation Rate of Soil Fauna after Precision Application with High Impact on Sub-population | **Ivo Roessink**, WENR, Netherlands

4.12.P-We371 Analytics in soil laboratory studies - technical challenges and implications for soil risk assessment of plant protection products | **Michael Thomas Marx**, Bayer AG - Crop Science Division, Germany

4.12.P-We372 Central Zone Requirement for Analytical Measurements in Soil Organism Ecotoxicology Studies: What is the Impact? | **Christopher Taylor**, Consultant Ecotoxicologist, United Kingdom

4.12.P-We373 Analytics in Soil Ecotoxicological Studies: Challenges and Approaches from a Regulatory, Biological and Analytical Perspective | **Andreas Duffner**, Eurofins Agroscience Services Ecotox GmbH, Germany

4.12.P-We374 Rethinking Soil Safety: How the 2023 Central Zone Guidance Change the Risk Assessment for Rapidly Degrading Active Substances - A Practical Case Study | **Ricardo Petersen**, ERM - Environmental Resource Management, Portugal

4.12.P-We375 MICROSOIL - Degradation performance of microbial communities in agricultural soils after multiple exposure of pesticide active substances | **Karsten Schlich**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

4.12.P-We376 MICROSOIL - Antimicrobial susceptibility testing to evaluate minimum inhibitory concentration values of relevant antibiotics in soil bacteria | **Cecilia Diaz**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

4.12.P-We377 How to include effects on soil functioning in soil ERA? An ecological perspective | **Ingrid Rijk**, orebro University, Sweden

4.12.P-We378 ERAMYC: Results of a Ring Test for Standardization of Arbuscular Mycorrhizal Fungi Pre-Symbiotic and Symbiotic Phases Tests for Environmental Risk Assessment Schemes | **Patricia Ferreira**, CloverStrategy Lda, Portugal

4.12.P-We379 Independent Yet Complex: Decoding Soil Moisture and Pesticide Interactions in Toxicity Tests with Folsomia candida (Collembola) | **Liyan Xie**, Aarhus University, Denmark

4.12.P-We380 Effects of Metal-Based fungicides on the Growth, Reproduction and Avoidance Behaviour of Eisenia Andrei Under Varying Temperatures and Moistures | **Hussain Kaka**, North-West University, South Africa

4.12.P-We381 The effect of environmental conditions on heavy metal toxicity to earthworm Eisenia fetida in sewage sludge-amended soil | **Inesa Kniuipyte**, Laboratory of Heat Equipment Research and Testing, Lithuanian Energy Institute, Lithuania

4.12.P-We382 Transforming Planetary Regolith into Viable Substrates: An Ecotoxicological Approach | **Mark Maboeta**, North-West University, South Africa

4.12.P-We383 Approaches to better monitor the effects of PPP on soil mesofauna: A regulatory perspective | **Julie Ravat**, ANSES, France

4.12.P-We384 Normal Operating Range of Earthworms in European Agricultural Fields | **Neil Sherborne**, Syngenta, United Kingdom

4.12.P-We385 Recovery of earthworm populations in field test plots through migration? | **Silvio Knaebe**, Eurofins Agroscience Services US, Germany

4.12.P-We386 Comparison of Soil Ecotoxicity Results Using the TRIAD Method and USETox Ecotoxicity Assessment for Abandoned Mine Sites | **Seung-Woo Jeong**, Kunsan National University, "Korea, Republic of"

4.12.P-We387 Evaluation of an AI-based Software System for Counting and Body Size Measurement of the Springtail Folsomia candida in OECD 232 Reproduction Tests | **Andreas Duffner**, Eurofins Agroscience Services Ecotox GmbH, Germany

4.12.P-We388 The FORESEE Earthworm Model - from Conceptualisation to Completion | **Natalie Albrecht**, gaiac Research Institute, Germany

4.12.P-We389 Assessment of Surface Water and Soil Quality in the Vicinity of Cattle Farms Using an Ecotoxicological Approach | **Jurate Zaltauskaite**, Vytautas Magnus University, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

4.12.P-We390 Promoting sustainable agriculture with entomo-fertilizers from Black soldier fly: Nutrient leaching and ecotoxicity assessment of leachates | **Ines Cruz**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

4.12.P-We391 Pesticide residues in African agricultural soils | **Vera Silva**, Soil Physics and Land Management Group, Wageningen University & Research, Netherlands

4.12.P-We392 Effects of Realistic Pesticides Mixtures on the Springtail Folsomia candida | **Paula Tourinho**, RECETOX, Masaryk University, Czech Republic

4.12.P-We393 Effects of Typical Pesticide Mixtures Representing European Agriculture on Soil Microbial Activity | **Paula Tourinho**, RECETOX, Masaryk University, Czech Republic

4.12.P-We394 Toxicity and Bioaccumulation of Realistic Pesticide Mixture in Earthworm-Plant-Soil Microcosm | **Paula Tourinho**, RECETOX, Masaryk University, Czech Republic

4.12.P-We395 Simulated pesticide spray regime in five cropping systems on soil invertebrates: Effects of a cumulative pesticide mixture on European native earthworms | **Olukayode Jegede**, Department of Environmental Toxicology, University of California Davis, United States

4.12.P-We396 Health risk assessment in agricultural areas: case study of the Statte area | **Valeria Ancona**, Construction Technology Institute/ Water Research institute, Italian National Research Council, Italy

4.12.P-We397 Sustainable Integrated Management of Soil Nematode Control- The Responsibility of Choices | **Maura Calliera**, Opera Research Centre Universit Cattolica Sacro Cuore Piacenza, Italy

4.12.P-We398 Mind the Gap: Balancing the Need for Regulatory Safety and Sustainability of Crop Protection Products | **Ola Dosunmu**, Lancaster University, United Kingdom

4.12.P-We399 Effects of Realistic Pesticide Mixtures on Wheat (Triticum Aestivum) And Lettuce (Lactuca Sativa) | **Paula Tourinho**, RECETOX, Masaryk University, Czech Republic

4.12.P-We400 Towards improved risk management to reduce chemical pressure on biodiversity in Europe | **Dorte Themann**, German Environment Agency (UBA), Germany

Understanding, Detection, Monitoring, and Management of Harmful Algal Blooms (HABs) and Natural Toxins in the Environment | Begoña Espina , Marisa Passos

4.16.P-We401 Microcoleus as toxic benthic Mats on different bottom substrates: ecophysiology and distribution | **Ramesh Goel**, The Univesity of Utah, United States

4.16.P-We402 Temperature and salinity affect growth and toxin production of estuarine cyanobacterium Microcystis aeruginosa | **Wenxin Liu**, Ghent University, Belgium

4.16.P-We403 Portable and Semi-Automated System for Paralytic Shellfish Toxins' Monitoring | **Marilia Santos**, International Iberian Nanotechnology Laboratory, Portugal

4.16.P-We404 A Comprehensive Approach to Saxitoxin Effects in Daphnia magna | **Albano Pinto**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

4.16.P-We405 Marinogammarus marinus, Asparagopsis armata and Ostreopsis cf. siamensis: the Good, the Bad and the Villain | **Tiago Simoes**, MARE Marine and Environmental Sciences Centre & ARNET Aquatic Research Network Associate Laboratory, Polytechnic of Leiria, Portugal

4.16.P-We406 Hazard Characterization of the Marine Toxin Ovatoxin-a at the Skin Level | **Marco Pelin**, University of Trieste, Italy

4.16.P-We407 Detection of Potential Metabolites of Cylindrospermopsin in Rat Brain After Oral Exposure and Effects on Acetylcholinesterase Activity and on Oxidative Stress Biomarkers | **Cristina Plata-Calzado**, Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, Spain

4.16.P-We408 In Vitro Assessment of the Immunomodulatory Effects of Natural Lichen Extracts on Human Lymphocytes | **Cristina Plata-Calzado**, Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, Spain

4.16.P-We409 A MALDI-MSI-Based Approach to Characterize the Spatial Distribution of Cylindrospermopsin and Lipid Alterations in Rat Intestinal Tissue | **Cristina Plata-Calzado**, Area of Toxicology, Faculty of Pharmacy, Universidad de Sevilla, Spain

4.16.P-We410 Assessing the effects of phycotoxin mixtures on marine zooplankton: Insights from copepod responses at different life stages | **Wenxin Liu**, Ghent University, Belgium

4.16.P-We411 A step closer to link LC-PUFA fatty acids and toxin biosynthesis in toxic dinoflagellates | **Tiago Simoes**, MARE Marine and Environmental Sciences Centre & ARNET Aquatic Research Network Associate Laboratory, Polytechnic of Leiria, Portugal

4.16.P-We412 A Hyalella azteca Transgenerational Biotest to Screen Reproductive and Embryonic Development Effects of MC-LR and Exudates from Cyanobaterial Toxic Strains | **Thalita Silva**, Instituto de Pesquisas Energeticas e Nucleares IPEN/CNEN-SP, Brazil

4.16.P-We413 Cyanobacteria Survival After Exposure to UVB Radiation | **Albano Pinto**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

4.16.P-We414 Developing High Throughput Screening Approaches to Characterize Cyanobacterial Sensitivity to Herbicides | **Tham Hoang**, Auburn University, United States

Including the Biogenic Carbon Emissions and Removals in Life Cycle Assessment: Advances and Challenges | Ilkka Leinonen, Anniina Lehtila, Hafiz Usman Ghani

5.06.P-We415 Biogenic carbon accounting and in life cycle assessment of single-use plastic alternatives | **Stuart Walker**, University of Sheffield, United Kingdom

5.06.P-We416 From Macronutrient Content to Biogenic Carbon emission: Advancing Biogenic Carbon balance in Life Cycle Databases | **Francesco Cirone**, ecoinvent, Switzerland

5.06.P-We417 Investigating Approaches to Model LUC Impacts of EU Consumption | **Esther Sanye-Mengual**, European Commission - Joint Research Centre, Italy

5.06.P-We418 A time-explicit life cycle assessment of woody biomass utilisation scenarios in Switzerland | **Arthur Jakobs**, Paul Scherrer Institute (PSI), Switzerland

5.06.P-We419 Comparison of Biomass-Based Synthetic Natural Gas Production Scenarios: Cradle to Gate Life Cycle Assessment | **Diana Dimande**, TU Wien, Institute of Chemical, Environmental and Bioscience Engineering, Austria

5.06.P-We420 Exploring Multiple Approaches to Biogenic Carbon Assessment: A Comparative Life Cycle Assessment of Wooden and Resin Flooring in the Nautical Sector | **Federico Bedogni**, Department of Industrial Chemistry Toso Montanari , University of Bologna, Italy

Life Cycle Impact Assessment Modeling Including Normalization & Weighting | Roland Hischier, Jacques L'Haridon, Olivier Jolliet, Esther Sanye-Mengual

5.08.P-We421 Influence of Different Normalization and Weighting Methods in Life Cycle Impact Assessment: Single-Score Assessments of a District Cooling Plant | **Eva-Maria Wiener**, University of Applied Sciences Burgenland, Austria

5.08.P-We422 Simplified Environmental Scores for Greener Vehicle Procurement: Evaluation of Weighting Effects in Belgium's Ecoscore | **Lea D'amore**, Vrije Universiteit Brussel, Belgium

5.08.P-We423 ParaBAT: A methodology of progressive approaches to improving systems aimed at minimizing waste production originating from industrial activities | **Ivanna Harasymchuk**, Department of Sustainability and Product Ecology, University of Chemical and Technology in Prague, Czech Republic

5.08.P-We424 Characterization of land use impacts on evaporation-precipitation dynamics and its role in Earth system functioning | **Jan Matustik**, Charles University Environment Centre, Czech Republic

5.08.P-We425 Advancing Soil Quality Integration in LCA | **Esther Sanye-Mengual**, European Commission - Joint Research Centre, Italy

5.08.P-We426 Including Environmentally Relevant Effects of Microplastics in Life Cycle Impact Assessment | **Sharon Janssen**, Radboud University Nijmegen, Netherlands

5.08.P-We427 Exploring global supply chain structures for sustainable consumption of freshwater at global and regional scales | **Keitaro Maeno**, National Institute of Advanced Industrial Science and Technology, Japan

5.08.P-We428 Improving the Accountability of Green Water Flows and Stocks in Agricultural Life Cycle Assessment | **Montserrat Nunez**, IRTA, Spain

5.08.P-We429 Development of Freshwater Ecotoxicity Characterization Factors based on Nonlinear concentration-response function | **Marika Muramoto**, Waseda University, Japan

5.08.P-We430 Basin-Specific Fate Factors for Freshwater Ecotoxicity of Pharmaceuticals | **Tolga Ayeri**, Department of Environmental Science, Radboud Institute for Biological and Environmental Science (RIBES), Radboud University, Netherlands

5.08.P-We431 Clustering methodology developed by the EcoBeautyScore Association to improve the coverage of freshwater ecotoxicity characterization factors of cosmetic ingredients | **Jacques L'Haridon**, EcoBeautyScore Association/L'Oreal Recherche & Innovation, France

5.08.P-We432 How the Effect Factor calculation method developed by the EcoBeautyScore Association improves the robustness of freshwater ecotoxicity impact assessment of cosmetic products in life cycle assessment | **Jacques L'Haridon**, EcoBeautyScore Association / L Oreal Recherche & Innovation, France

5.08.P-We433 Applying Product Biodiversity Footprint Method To Cosmetic Sector: Case Study Of l'OrÃ©al | **Magdalena Czyrnek Deletre**, I Care by Bearing Point, France

5.08.P-We434 Development of Extinction Risk Maps for Terrestrial Species Due to Climate Change | **Ruri Hashimoto**, Waseda University, Japan

5.08.P-We435 Location-based global biodiversity extinction damage factor development - Under future land use change impact | **Runya Liu**, Waseda University, Japan

5.08.P-We437 Use of satellite data and spatially differentiated characterization factors for biodiversity impact of land use due to wind turbines | **Maeva Lavigne Philippot**, Vrije Universiteit Brussel, Belgium

5.08.P-We438 Calculation of characterization factors for life cycle impact assessment of biocides using USEtox | **Elisa Arteaga Prieto**, KU Leuven, Belgium

5.08.P-We439 Environmental Impact Assessment of Nanotechnology Using Life Cycle Assessment (LCA) | **Byung-tae Lee**, Advanced Institute of Instrumental Analysis, Gwangju Institute of Science and Technology, "Korea, Republic of"

5.08.P-We440 New advances to assess biodegradation and toxicity of alternative environmentally friendly polymers | **Anne-Leila Meistertzheim**, Plastic At Sea, Banyuls-sur-mer, France, France

5.08.P-We441 Evaluation of the USEtox Method for Use in the Sustainability Assessment of Selected Packaging | **Katja Wack**, Circular Analytics TK GmbH, Austria

5.08.P-We442 Refining Ecotoxicity Assessment in Life Cycle Assessment: Bridging Data Gaps for Comprehensive Environmental Impact | **Daniel Bruno**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

LCA for Decision-Making, Communication and Reporting | Nicole Unger, Iris Kral, Michele De Rosa

5.09.P-We443 From opportunities of industrial LCA usage to data specification challenges: The example of winter sport hard goods | **Ulrike Kirschnick**, Processing of Composites Group, Montanuniversitaet Leoben, Austria

5.09.P-We444 Life Cycle Costing Aligned with Life Cycle Assessment as part of Life Cycle Sustainability Assessment: Flexibility and Challenges Depending on the Decision-Making Context | **Till Bachmann**, European Institute for Energy Research (EIFER), Germany

5.09.P-We445 Knowledge Graphs for LCA: Streamlining Consistent Reporting | **Didier Beloin-Saint-Pierre**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

5.09.P-We446 Recent Advances and Future Prospects of Optimization-Based Decision Support in LCA using PULPO | **Fabian Lechtenberg**, Polytechnic University of Catalonia, Spain

5.09.P-We447 Methodological Diversity in Carbon Footprint Assessment: Challenge for Decisionmakers in the Packaging Sector | **Andrin Gstohl**, Circular Analytics TK GmbH, Austria

5.09.P-We448 A novel multidimensional impact assessment framework to bridge the gap towards a truly sustainable and circular bio-based industry | **Pedro Villanueva-Rey**, Galician Water Research Center Foundation (Cetaqua Galicia), Spain

5.09.P-We449 Beyond zero-risk assumption: Integrating accident impacts into LCA of hydrogen delivery options | **Tatiana D'Agostini**, Joint Research Centre (JRC), Netherlands

5.09.P-We450 Variability of organizational carbon footprint depending on accounting standards and data sources: A case study | **Anne de Bortoli**, CIRAIG, Polytechnique Montreal

5.09.P-We451 Comparative Assessment of Environmental Performance: Green Roofs vs Conventional Roofs | **Debora Pons Fiorentin**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

5.09.P-We452 Life Cycle Assessment of Reusable Bio-based Cups as a Substitute for Single-use Plastic at Festivals | **Jan Puhar**, University of Maribor, Slovenia

5.09.P-We453 The EcoBeautyScore Association's Approach to Quantifying Data Representativeness of Cosmetic Product Formulas and Its Applications in Environmental Scoring Calibration and Future Data Development | **Laurent Gilbert**, EcoBeautyScore Association / L Oreal Recherche & Innovation, France

5.09.P-We454 Integrating Safe and Sustainable by Design (SSbD) Principles into the Battery Passport: Necessities and Benefits | **Laura Mayor Perez**, Eurecat, Centre Tecnol gic de Catalunya. Waste, Energy and Environmental Impact Unit, Spain

5.09.P-We455 Assessing the Environmental Footprint of the Dutch Healthcare Sector - A Hybrid Methodology | **Martijn van Bodegraven**, RIVM Dutch National Institute for Public Health and the Environment, Netherlands

5.09.P-We456 Regional Variability in the Carbon Footprint of Canadians: Insights from OpenIO-Canada | **Cecile Bulle**, Montreal Polytechnic, Canada

5.09.P-We457 Life Cycle Assessment of Crops in India | **Ambika Selvaraj**, Faculty, Department of Civil Engineering, Indian Institute of Technology Hyderabad , Adjunct Faculty, Department of Climate Change, Indian Institute of Technology Hyderabad, Adjunct Faculty, Greenko School of Sustainability, Indian Institute of Technology, India

5.09.P-We458 Packaging Choices and Their Role in Reducing Product Loss and CO2 Impact of Moisturizing Products: Insights for PEF Methodology and Sustainable Design | **Tasja Hafner-Kuhn**, Circular Analytics TK GmbH, Austria

5.09.P-We459 How much of the Smart Grid have we mapped? A review of their environmental coverage | **Mikel Fadul Bonamusa**, Leiden University, Spain

5.09.P-We460 Environmental Sustainability of Conventional and Electric Bicycles: A Review | **Debora Pons Fiorentin**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

5.09.P-We461 Providing a Science-Based and Harmonized Environmental Scoring Scheme for Cosmetics: The EcoBeautyScore | **Laurent Gilbert**, L'Oreal Research & Innovation, France

5.09.P-We462 Using LCA to Support Decision-Making in Water Management: Conventional vs. Desalination Strategies in Sicily | **Edoardo Teresi**, University of Bologna, Italy

5.09.P-We463 Enhancing Environmental Impact Assessment: A Multi-Lens Approach to Sustainable Product Design for Cosmetics & Personal Care Products | **Jennifer Saxe**, Kenvue, United States

5.09.P-We464 Enhancing Sustainability in Biotechnology: A Comparative Life Cycle Assessment of Single-Use Assemblies | **Winfried Bulach**, Merck Life Science KGaA, Germany

5.09.P-We465 Quantification of Potential Impacts in the End-of-Life Phase of Construction Products in the EPD | **Tatiana Trecakova**, University of Chemistry and Technology Prague (UTC), Czech Republic

5.09.P-We466 Organizational climate impact accounting - accounting for actions that matter: supporting sustainable consumption of buildings | **Timen Boeve**, Aalborg University, Denmark

5.09.P-We467 Life-Cycle Based Assessment of Green Laboratory Practices - A Case Study From an Austrian Institution of Higher Education | **Ursula Knaack**, University of Applied Sciences Technikum Wien, Department of Life Science Engineering, Austria

Life Cycle Assessment of Waste and Waste Management Systems for Safe and Sustainable Futures | Heather Logan, Anna Wikstrom, Tomas Ekvall, Tomas Navarrete Gutierrez

5.10.P-We468 Bayesian Belief Networks as a tool to inform on plastic clean-up technologies net benefits | **Ana I. Catarino**, Flanders Marine Institute (VLIZ), Belgium

5.10.P-We469 Enhancing Environmental Sustainability through Industrial Symbiosis in Plastic Waste Recycling | **Carlos Pozo**, Universitat Rovira i Virgili, Spain

5.10.P-We470 Using life cycle assessment to evaluate the potential for compostable plastics | **Maryam Hoseini**, School of Chemical, Materials and Biological Engineering, University of Sheffield, Grantham Centre for Sustainable Futures, University of Sheffield, United Kingdom

5.10.P-We471 Environmental and economical assessment of enzymatic depolymerization for polyethylene terephthalate (PET) waste | **Ashkan Nabavi-Pelesaraei**, Department of Environmental and Resource Engineering, Technical University of Denmark, Denmark

5.10.P-We472 Processing of wastewater sludges from plastic recycling: An LCA perspective | **Kamila Sirotna**, University of Chemistry and Technology Prague (UTC), Czech Republic

5.10.P-We473 Environmental Impacts of a Circular Textiles Ecosystem in the UK with Automated Sorting and Fibre-to-Fibre Recycling | **Sarah Key**, WRAP, United Kingdom

5.10.P-We474 Advanced Analytical Strategies for Recovering Technology-Critical Elements from E-Waste: A Path Toward Circular Economy | **Tristan Zimmermann**, Helmholtz-Zentrum Hereon, Germany

5.10.P-We475 Environmental Cost-Benefit Analysis of Zero Waste Cosmetics | **Milica Velimirovic**, Flemish Institute for Technological Research (VITO), Belgium

5.10.P-We476 Comparing past and future Organic Waste Management approaches for Montreal (Canada) using Life Cycle Assessment | **Sadie MacDonald**, McGill University, Canada

5.10.P-We477 3D printed artificial reefs: LCA and LCC analysis to compare traditional cementitious mortars and innovative mixtures made from bivalve mollusk shells | **Letizia Caroscio**, University of Bologna, Italy

5.10.P-We478 Life Cycle Assessment of UK Household Leftovers: Implications for Storage and Disposal Choices | **Yiming Sui**, University of Reading, United Kingdom

5.10.P-We479 Life cycle assessment (LCA): Conventional thermal energy storage (TES) system versus alternative steel slag-based system for concentrating solar power plants (CSP) | **Carlos Vielma**, University of Barcelona, Spain

5.10.P-We480 Safe and sustainable recycling of solar panels: A scenario study | **Johannes Lijzen**, National Institute of Public Health and the Environment (RIVM), Netherlands

5.10.P-We481 Bottom-Up, Dynamic Probabilistic Material Flow Analysis of Japanese Plastic Flows as an Initial Step to Understand the Chemical Additives Flows and Stocks | **Yiwen Zhang**, Technology and Society Laboratory, Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Methods and Tools Enabling Safe and Sustainable by Design (SSbD) Strategies | Barry Hardy, Bernd Nowack, Zhanyun Wang, Maja Halling

6.04.P-We483 Towards a Flexible, Solution-Oriented SSbD Framework in Industry: A Practical Case Study | **Karoline Wowra**, Merck Life Science KGaA, Germany

6.04.P-We484 Safe and Sustainable by Design and Circularity Operationalization Via Multiple Criteria Decision Analysis | **Marco Cinelli**, Institute of Environmental Sciences (CML), Leiden University, Netherlands

6.04.P-We485 Testing and Demonstration of the Applicability of the SSbD Framework to Develop Innovative Chemicals and Materials for replacing SVHC in High-impact Markets | **Arantxa Ballesteros Riaza**, ITENE, Spain

6.04.P-We486 The MAUT Approach for the Evaluation and Comparison of Functional Alternatives: A Case Study on Fluorinated Gases Used in Insulation Materials | **Romain Figuiere**, Stockholm University, Sweden

6.04.P-We487 Addressing Data Gaps for Safe and Sustainable by Design: A Substance-Use Dataset to inform on Functional Alternatives for PMT/vPvM Chemicals | **Bianca Stadelmann**, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Netherlands

6.04.P-We488 Approaches for safety assessment and sustainability of rPEX and its additives from early stages: Development of methods and tools to implement the SSbD framework | **Pau Camilleri**, ITENE - Instituto Tecnologico del Embalaje, Transporte y Log stica, Spain

6.04.P-We489 The SAbyNA Platform: A Guidance Tool to Support Industry in the Implementation of Safe and Sustainable by Design Concept for Nanomaterials, Processes and Nano-enabled products | **Socorro Vazquez-Campos**, Leitat Technological Center, Spain

6.04.P-We490 Integrated SURPASS Scoring System for Safe, Sustainable and Recyclable by Design Assessment | **Socorro Vazquez-Campos**, LEITAT Technological Center, C/ de la Innovacio, Spain

6.04.P-We491 Workflow and overall structure of an SSbD digital infrastructure for SME and polymeric materials | **Josephine Steck**, Univ. Grenoble Alpes, CEA, Liten, France

6.04.P-We492 Tier 1a SSbD Methodology for a Preliminary Assessment Developed within SUNRISE Project | **Arianna Livieri**, Ca' Foscari University of Venice, Italy

6.04.P-We493 Safe and Sustainable Bio-Design of Polymers for a Circular Economy | **Laura Mayor Perez**, Eurecat, Centre Tecnol gic de Catalunya. Waste, Energy and Environmental Impact Unit, Spain

6.04.P-We494 An overview of the methodology and implementation of the Step 1 of the EC SSbD framework for the development of Safe and Sustainable by Design Graphene/Mxenes hybrids | **Laura Gomez-Cuadrado**, International Research Centre in Critical Raw Materials-ICCRAM, Universidad de Burgos, Spain

6.04.P-We495 Probabilistic Multi-perspective Application Selection for Safe and Sustainable-by-Design: A Case Study on Biochar | **Akshat Sudheshwar**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

6.04.P-We496 Streamlining Safe and Sustainable by Design Practices: A Knowledge-integrated Toolbox and Workflow Approach supporting Innovative and Safer Product Design | **Barry Hardy**, Edelweiss Connect GmbH, Switzerland

6.04.P-We497 Comprehensive hazard assessment of novel biobased coatings under the SSbD framework - the TORNADO project | **Ioannis Liagkouridis**, Swedish Environmental Research Institute (IVL), Sweden

6.04.P-We498 The PARC Safe and Sustainable by Design toolbox: An Integrative Toolbox for the Operationalization of SSbD | **Fotini Nikiforou**, Aristotle University of Thessaloniki, Greece

Communication for Tomorrow: From Experimental Design Towards Societal Impact | Leonie Mueller, Annika Mangold-Doring, Lena Benner, David Mennekes

6.06.P-We499 Using Art to Expand Science Understanding in the Context of River Health | **Amanda Reichelt-Brushett**, Southern Cross University, Australia

6.06.P-We500 Comic strips as a science communication tool | **Serena George**, University of Wisconsin-Madison, United States

6.06.P-We501 Knowledge, attitudes, and practices towards plastic clean-up technologies | **Ana I. Catarino**, Flanders Marine Institute (VLIZ), Belgium

6.06.P-We502 Safety and sustainability of innovative materials - the communication and knowledge base MANTRA | **Dana Kuhnel**, Department Ecotoxicology, Helmholtz Centre for Environmental Research (UFZ), Germany

6.06.P-We503 Building networks for outreach and impact | **Yulia Liu**, Swedish Life Cycle Center/Chalmers University of Technology, Sweden

6.06.P-We504 Persistently Negative? Consumer Responses to Warning Labels Denoting Persistence, Mobility and Toxicity of Chemicals in Everyday Items | **Ellise Suffill**, University of Vienna, Austria

6.06.P-We505 Estuarine & Marine Ecological Risk Assessment Research Immersion Model Improves Science Literacy and Student Engagement in Local and International Environmental Issues | **Maysoon Lehmeidi**, University of California San Diego, Division of Extended Studies, United States

6.06.P-We506 Mainstreaming the fish invitrome for animal-free environmental risk assessment: An expert interview campaign | **Marion Revel**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Department of Environmental Toxicology, Switzerland

6.06.P-We507 Dear Dearbhla: Nature's agony aunt | **Katie Reilly**, University of Birmingham, United Kingdom

Almost there? Latest News on Pollinator Risk Assessment in the EU | Stefan Kimmel, Jens Pistorius, Ivo Roessink, Johannes Luckmann

6.09.P-We508 Bee Risk Assessment in the Real Regulatory World | **Jutta Muether**, GAB Consulting GmbH, Germany

6.09.P-We509 First Practical Experiences with Equivalence Testing in Pesticide Risk Assessment for Bees | **Silvio Knaebe**, Eurofins Agroscience Services US, Germany

6.09.P-We510 Learnings from a failed meta-analysis: sub-lethal effects of plant protection products on bees - A case study | **Tobias Pamminger**, Bayer AG, Germany

6.09.P-We511 Effect Models for Higher-Tier Risk Assessments: The Example of SolBeePop_ecotox, a Population Model for Solitary Bees | **Amelie Schmolke**, RIFCON GmbH, Germany

6.09.P-We512 Bumble-BEEHAVEecotox - A Mechanistic Effect Model for Bumblebees | **Vanessa Roeben**, Bayer AG, Germany

6.09.P-We513 Simulations of population-level effects of pesticides on abundance and pollination of bumble bees in landscapes of different composition allow the identification of critical application levels | **Andreas Focks**, Osnabrück University, Germany

6.09.P-We514 B-risk, a calculator tool implementing the latest EFSA bee Guidance Document | **Alberto Linguadoca**, European Food Safety Authority (EFSA), Italy

6.09.P-We515 BeeGUTS R package, mechanistic modelling of bee survival for environmental risk assessment following EFSA guidelines | **Vanessa Roeben**, Bayer AG, Crop Science Division, Germany

6.09.P-We516 GUTS for Bee TRT Assessment: A Methodology Comparison | **Amelie Schmolke**, RIFCON GmbH, Germany

6.09.P-We517 Introduction of a New Interest Group for Bee Modelling in the Context of ICPPR | **Amelie Schmolke**, RIFCON GmbH, Germany

6.09.P-We518 Integrating Landscape-Scale Simulations with TKTD Models for Pollinator Risk Assessment | **Florian Schunck**, Osnabruck University, Germany

6.09.P-We519 Integrating Allometric Scaling in Solitary Bee Risk Assessment: A Mechanistic Approach | **Vanessa Roeben**, Bayer AG, Germany

6.09.P-We520 Realistic Field Exposure - Pilot Study on Refining Bee Exposure Residue Data: Comparative Analysis of Field and Tunnel Studies for Phacelia Crops | **Silvio Knaebe**, Eurofins Agroscience Services US, Germany

6.09.P-We521 A Case Study of Assessing Sublethal Effects to Honey Bees For A New Insecticide Considering the EFSA Revised Bee Guidance | **Charlotte Elston**, Syngenta, United Kingdom

6.09.P-We522 Toxicity based classification system for Bees: A preliminary study from Anses | **Julie Ravat**, ANSES French Agency for Food, Environmental and Occupational Health & Safety, France

6.09.P-We523 Sensitivity study using the imidacloprid neocotinoid toxicity test for native bees of the species Tetragonisca angustula (jatai) | **Eny Vieira**, IQSC-USP, Brazil

6.09.P-We524 Developments in the biocides risk assessment for bees | **Helena Crosland**, Cambridge Environmental Assessments, United Kingdom

Next Generation of Environmental Risk Assessment - From Data to Design | Tobias Pamminger, José Vicente Tarazona Lafarga, Averina Nicolae, Matthew Hall

7.02.P-We525 How FAIR is Ecotoxicology in the Era of Open Science? | **Eric Bollinger**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany

7.02.P-We526 Digital patterns for the detection and prediction of chemically induced endocrine disruption (ED) in Zebrafish Embryos (DiMEP) | **Yana Streltsova**, Bayer AG, Crop Science Division, Germany

7.02.P-We527 From Regulatory Decisions to Environmental Protection. Scientific Challenges for Informative Environmental Risk-Impact Paradigms | **Jose V. Tarazona**, Spanish National Environmental Health Centre. Instituto de Salud Carlos III, Spain

7.02.P-We528 FXMATE: Statistical evaluation of ecotoxicity effects made totally easy | **Eric Bollinger**, Palinera GmbH, Germany

7.02.P-We529 cleanventory: Harmonized Global Chemical Inventory Data for Assessing Persistence and Mobility Hazards | **Raoul Wolf**, Norwegian Geotechnical Institute (NGI), Norway

P-We | Wednesday Poster Presentations

7.02.P-We530 Inter-Species Extrapolation of Toxicokinetic Data via Mechanistic Models: Benchmarking in Small Mammals | **David Heckmann**, Bayer AG, Crop Science Division, Germany

7.02.P-We531 Mapping contaminated sites and potential sources to understand the extent of known and potential contamination in the EU | **Naila Sumreen Hina**, Eidgenossische Technische Hochschule (ETH), Switzerland

7.02.P-We532 Enhancing Environmental Exposure Assessments: A Tiered Approach for Downstream Users in the REACH Context, a Case Study with the Cosmetic Industry | **Harald Streicher**, Beiersdorf AG, Germany

7.02.P-We533 Croplife Europe: Problem Formulation Approach for Environmental Testing Strategy of Biochemical Plant Protection Products | **James Wheeler**, Shell International, United Kingdom

7.02.P-We534 Promises and Challenges on the Way to the Next Generation of Environmental Risk Assessment for Pesticides | **Tobias Pamminger**, Bayer AG, Germany

7.02.P-We535 Next Generation Risk Assessment Case Study on Biocides Regulated under K-BPR: A Role of NAMs Data in Regulatory Decision-Making | **Donghyeon Kim**, University of Seoul, "Korea, Republic of"

7.02.P-We536 EMBL AgriData Platform - Delivering Safe Food And Environmental Health | **Matthew Hall**, EMBL-EBI, United Kingdom

Notes

SETAC Europe 36th Annual Meeting

17–21 May 2026 | Maastricht, Netherlands

Join us in historic Maastricht to explore “Embrace the Outlier: In Science, Regulations and Networks.”
Save the date and learn more at setac.org/Maastricht.

Thursday, 15 May

THURSDAY SCHEDULE		
08:30–14:30	Badge Pick-Up and Registration	Entrance Hall
08:30–15:00	Cloakroom	0.15
08:30–12:00	Speaker Ready Room	0.12
08:30–09:30	Poster Setup	Exhibition Hall
09:30–10:50	**Presentation Sessions**	
10:50–11:35	Coffee & Poster Break	Exhibition Hall
11:35–12:55	**Presentation Sessions**	
12:55–14:20	Lunch & Poster Break	Exhibition Hall
14:25–15:00	**Closing Ceremony**	**Hall G**

Join Us for the Closing Ceremony!

14:25–15:00 | Hall G

Join us for the closing ceremony as we announce and celebrate the **SETAC Europe Best Student Presentation Awards** and have a look back on a successful science-packed week.

Hear delightful closing remarks from the SETAC Vienna Programme Committee Chairs and newly elected SETAC Europe President, and get a taste of next year’s meeting in Maastricht, Netherlands.

Thursday Platform Presentations Morning 1

Thursday Platform Presentations Morning 1

	09:35	09:50	10:05
Hall M	**Sampling and Analysis Methodologies, and Environmental Behavior Studies for Emerging Organic Contaminants in the Aquatic Environment: Recent Advances**		
	3.08.T-01 Passive sampling of PFAS in the aquatic environment | **Rainer Lohmann**, University of Rhode Island, United States	**3.08.T-02** Evaluation of the performances of a bio-film-based passive sampler to monitor micropollutants in wastewater | **Anna Voiland**, Institut National de l Environnement Industriel et des Risques (INERIS), France	**3.08.T-03** Pesticide Pathways Revealed: Comprehensive Analytical Methods for Multi-Compound Monitoring in Urban and Agricultural Catchments | **Kim Ngoc Tram Luong**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland
Hall N	**Food for Thought: How Do We Move Towards a Safe and Sustainable Global Food System?** | John Hader, Melanie Douziech, Roland Hischier		
	5.11.A.T-01 Towards Sustainable Agri-Food Systems: Environmental Benefits Of Climate-Smart Agriculture In Norway | **Narie Rinke Dias de Souza**, NTNU Industrial Ecology Programme, Norway	**5.11.A.T-02** Using large-scale farm surveys to identify productivity and sustainability solutions | **Juliet Telfer**, Department of Biology/Oxford Martin School, University of Oxford, United Kingdom	**5.11.A.T-03** Can 'Superfoods' Bridge Nutritional Gaps and Promote Environmental Sustainability in Spain? A Proposal for a Context-Specific Nutritional Model in Life Cycle Assessment | **Ana Fernández Ríos**, University of Cantabria, Spain
Hall E	**Data-Driven Toxicology: Practical Applications and Insights into Using Existing and Emerging Data in Support of Human and Environmental Health** | ...		
	1.06.A.T-01 FAIR toxicology data approaches being developed in PARC | **Indrani Mahapatra**, University of Birmingham, United Kingdom	**1.06.A.T-02** Precision Environmental Health: a data-driven approach that identifies hazards of complex chemical mixtures in the environment | **Xiaojing Li**, School of Bioscience, Centre for Environmental Health and Justice (CERJ), University of Birmingham, United Kingdom	**1.06.A.T-03** Ecotoxicity prediction of plastic additives and their alternatives using ToxCast/Tox21 data-based machine learning models within a cross-species adverse outcome pathway framework | **Donghyeon Kim**, University of Seoul, Korea, Republic of
Hall F1	**Plastics in Terrestrial Ecosystems: Balancing Applications With Impacts, Fate and Hazards** | Denise Mitrano, Elma Lahive, Salla Selonen, Anita Jemec Kokalj		
	3.23.A.T-01 (Micro)Plastics in Soils: From Sampling Strategy to Source Identification and Conclusions for Regulation | **Helene Walch**, Environment Agency Austria, Austria	**3.23.A.T-02** Assessment of Sampling Approaches for Representative Quantification of Microplastics in Soil | **Samuel Cusworth**, Department of Environmental Systems Sciences (D-USYS), Switzerland	**3.23.A.T-03** Fate of Microplastics Derived from Agricultural Plastics in Soil Systems: Insights from Mesocosm and Field Experiments | **Rachel Hurley**, Norwegian Institute for Water Research (NIVA), Norway
Hall F2	**Challenges and Innovations in Assessing Chemicals and Mixtures with Difficult-to-Test Properties for Environmental Risk** | ...		
	1.13.T-01 Tripartite Perspectives on Optimizing UVCB Testing: Balancing Whole Substance and Representative Constituent Approaches | **Sandrine Deglin**, Health and Environmental Sciences Institute (HESI), United States	**1.13.T-02** UVCB Biodegradation Testing Challenges and Solutions | **Heidi Birch**, Technical University of Denmark, Denmark	**1.13.T-03** Ecotoxicity Testing of Cationic Surfactant Benzalkoniums (BACs) Using a Novel Passive Dosing Method | **Anh T.Ngoc Do**, National Institute for Environmental Studies (NIES), Japan
Hall G	**Combined Effects of Contaminants and Global Change Stressors in Estuarine and Marine Environments** | ...		
	3.17.T-01 Inferring Exposure to PFAS over Time in the French Atlantic Coast by Sediment Core Analysis | **Javier Castro-Jimenez**, IFREMER, Chemical Contamination of Marine Ecosystems (CCEM), France	**3.17.T-02** Field and Laboratory Studies Assessing the Transport Behaviour of Priority Pollutants in the Tidal Elbe | **Pascal Hoppe**, Helmholtz-Zentrum Hereon, Germany	**3.17.T-03** Distribution and occurrence of emerging organic compounds in the estuary of Plentzia | **Maddi Salvoch Vilches**, Research Centre for Experimental Marine Biology and Biotechnology, University of the Basque Country (UPV/EHU), Spain
Hall K1	**Impact of Airborne Pollutants on Environmental Health and Biodiversity** | Saeed Albaseer, Hai Guo		
	2.06.T-01 Silent Threat: The Impact of Airborne Pesticides on Biodiversity | **Saeed Albaseer**, Department Evolutionary Ecology & Environmental Toxicology, Goethe University Frankfurt, Germany	**2.06.T-02** Multiphase Transformation of Nitrogen Containing Organic Compounds in the Indoor Environment | **Chen Wang**, Southern University of Science and Technology, China (Mainland)	**2.06.T-03** Toxicity assessment of airborne ultrafine particles: Role of transport emissions | **Benjamin Pina**, IDAEA-CSIC, Spain
Hall K2	**Advances in Risk Assessment for Plant Protection Products With a Non-conventional Mode-Of-Action** | ...		
	4.13.T-01 Problem Formulation for the risk assessment of Low-Concern Pesticides | **Zisis Vryzas**, Aristotle University of Thessaloniki, Greece	**4.13.T-02** RNAi as a Novel Mode of Action of Plant Protection Products: How to Assess Risks for Soil Invertebrates? | **Anja Coors**, ECT Oekotoxikologie GmbH, Germany	**4.13.T-03** The effects of a microorganism-based plant protection product on a simple aquatic ecosystem | **Judith Epping**, Aquatic Ecology and Water Quality Management Group, Wageningen University, Netherlands
Hall D2	**Advances in Bioaccumulation Science and Assessment** | Leslie Saunders, Maike Habekost, Marco Franco, Jane Caley		
	3.13.A.T-01 Irreversible receptor binding causes long-lasting bioaccumulation of insecticides in two invertebrate species | **Clarissa von Au**, Eawag (Swiss Federal Institute of Aquatic Science and Technology), Switzerland	**3.13.A.T-02** Toxicokinetics of Per- and Polyfluoroalkyl Substances (PFAS) in Amphipods using Online-SPE-LC-HRMS/MS | **Kaue de Oliveira Chinaglia**, Universidade Estadual de Campinas (UNICAMP); Swiss Federal Institute of Aquatic Science and Technology (Eawag), Brazil	**3.13.A.T-03** Bioaccumulation and Biomagnification of Per- and Polyfluoroalkyl Substances at Different Trophic Levels in the Food Web of a Polluted Ecosystem | **Ioanna Gkika**, Institute for Biodiversity and Ecosystem Dynamics (IBED), University of Amsterdam, Netherlands
Hall D3	**Scientific Advancements in the Fate and Toxicity of Metals: Data, Models, Tools, and Their Application in Environmental Regulations** | ...		
	3.04.A.T-01 Measuring Bioavailable Aluminium in Natural and Laboratory Waters | **William Adams**, Red Cap Consulting, United States	**3.04.A.T-02** Development and Application of a Cobalt Chronic Biotic Ligand Model | **Robert Santore**, Windward Environmental LLC, United States	**3.04.A.T-03** Influence of Water Chemistry on Silver Toxicity to Freshwater Algae: Development of a Chronic Biotic Ligand Model (BLM) | **Nada Basic**, GhEnToxLab - Ghent University (UGent), Belgium

	10:20	10:35
Hall M	**and Perspectives** | Wei Chen, Jun Huang, Zulin Zhang, Zhe Qian	
	3.08.T-04 Dynamics of Persistent and Mobile Chemicals, Including Ultra-Short Per- and Polyfluoroalkyl Substances, in Groundwater: Distribution, Influencing Factors, and Risk | **Xiaojing Zhu**, Helmholtz Center for Environmental Research (UFZ), Germany	Poster spotlights: 3.08.P-Th116, 3.08.P-Th117, 3.08.P-Th120
Hall N	**Food for Thought: How Do We Move Towards a Safe and Sustainable Global Food System?** | John Hader, Melanie Douziech, Roland Hischier	
	5.11.A.T-04 Safety of Circular Food Systems: Understanding the Fate of Chemicals | **Stefan van Leeuwen**, Wageningen Food Safety Research (WFSR), Netherlands	Poster spotlights: 5.11.P-Th348, 5.11.P-Th353, 5.11.P-Th363
Hall E	| Marissa Kosnik, Averina Nicolae, Bruno Campos	
	1.06.A.T-04 Revolutionizing Chemical Testing: 70% of Chemicals May Not Require Fish In Vivo Studies | **Richa Malik**, King s College London, United Kingdom	Poster spotlights: 1.06.P-Th002, 1.06.P-Th009, 1.06.P-Th011
Hall F1	**Plastics in Terrestrial Ecosystems: Balancing Applications With Impacts, Fate and Hazards** | Denise Mitrano, Elma Lahive, Salla Selonen, Anita Jemec Kokalj	
	3.23.A.T-04 Incorporation of microplastics into water-stable soil aggregates: dependencies on particle and soil characteristics | **Mike Rohling**, ETH Zurich, Switzerland	**3.23.A.T-05** Impact of Polyethylene Microplastics on the Vertical Migration of Pesticides in Soil | **Siqi Wu**, UFZ - Helmholtz Centre for Environmental Research, Department of Exposure Science, Germany
Hall F2	| Emma Danby, Edward R. Salinas, Satoshi Endo, Joop de Knecht	
	1.13.T-04 The influence of pH on the toxicity of ionizable agrochemicals to freshwater invertebrates | **Anna Huang**, Wageningen Environmental Research, Netherlands	**1.13.T-05** From Theory to Practice: Tackling Challenges and Innovations in Assessing Risks from PFAS and Tyre Wear Particles | **Andy M. Booth**, SINTEF, Norway
Hall G	| Ana I Catarino, Mark Mallory, Antonia Praetorius, Gretchen McPhail	
	3.17.T-04 Following the mixtures of organic micropollutants with in- vitro bioassays in a large lowland river from source to sea | **Elena Hommel**, UFZ, Germany	**3.17.T-05** Assessment and Prioritization of Aquatic Contaminants of Concern on Florida's Coral Reef | **Dorothy-Ellen Renegar**, National Coral Research Institute, United States
Hall K1	**Impact of Airborne Pollutants on Environmental Health and Biodiversity** | Saeed Albaseer, Hai Guo	
	2.06.T-04 Considerations for Using Moss as a Biomonitor for Airborne Microplastics | **Richard Cross**, CEH, United Kingdom	**2.06.T-05** Health quality of urban particles according to their load in endocrine-disrupting compounds and associated toxic potential | **Lucie Oziol**, Universite Paris Saclay, France
Hall K2	| Zisis Vryzas, Anne Steenbergh, Dimitrios Karpouzas, Athanasios Dalakouras	
	4.13.T-04 Microbial biopesticides are inhibited by the in vitro diet used in larval honey bee laboratory bioassays | **Daniel Schmehl**, Bayer AG, Crop Science Division, United States	Poster spotlights: 4.13.P-Th338, 4.13.P-Th339, 4.13.P-Th340
Hall D2	**Advances in Bioaccumulation Science and Assessment** | Leslie Saunders, Maike Habekost, Marco Franco, Jane Caley	
	3.13.A.T-04 Benchmarking Approach in Bioaccumulation Assessment | **Shoko Furuno**, European Chemicals Agency (ECHA), Finland	**3.13.A.T-05** Assessment of the Bioaccumulation of Organic Pollutants Using Zebrafish Liver Cells and Evaluation of the Important in vitro Parameters | **Paloma de Oro-Carretero**, Department of Analytical Chemistry, Complutense University of Madrid, Spain
Hall D3	| David Boyle, Yamini Gopalapillai, Severine Le Faucheur	
	3.04.A.T-04 Predicting metal toxicity in aquatic environments using an innovative toxico-dynamic model | **Juliette Darde**, LBBE, France	Poster spotlights: 3.04.P-Th095, 3.04.P-Th099, 3.04.P-Th107

Thursday Platform Presentations Morning 2

Thursday Platform Presentations Morning 2

	11:40	11:55	12:10	12:25	12:40
Hall M	**Integrating Ion Mobility Separations with HRMS: Transforming Environmental Contaminant Identification and Quantification Workflows** | ...			| Dimitrios Damalas, Erin S. Baker, Alberto Celma	
	3.11.T-01 Targeted and Non-Targeted Analyses of PFAS in Human Serum Samples Collected Yearly from 2003 to 2021 | **Gregory Kudzin**, University of North Carolina, Department of Chemistry, United States	**3.11.T-02** Unveiling the PFAS fingerprint in biota leveraging the technique LC-VIP HESI(-)-TIMS-HRMS and untargeted workflows | **Georgios Gkotsis**, National and Kapodistrian University of Athens, Greece	**3.11.T-03** Multidimensional-Constrained Suspect Screening of Hydrophobic Chemicals Using Gas Chromatography-Atmospheric Pressure Chemical Ionization-Ion Mobility-Mass Spectrometry | **Xiaodi Shi**, Stockholm University, Sweden	**3.11.T-04** Uncertainty estimation of qualitative and quantitative ion mobility-mass spectrometry workflows | **Stephan Hann**, BOKU University, Austria	Poster spotlights: 3.11.P-Th184, 3.11.P-Th186, 3.11.P-Th190
Hall N	**Food for Thought: How Do We Move Towards a Safe and Sustainable Global Food System?** | John Hader, Melanie Douziech, Roland Hischier			**Food for Thought: How Do We Move Towards a Safe and Sustainable Global Food System?** | John Hader, Melanie Douziech, Roland Hischier	
	5.11.B.T-01 Contribution of house gardening towards sustainable food systems in the EU | **Jan Matuštík**, Department of Sustainability and Product Ecology, University of Chemical and Technology in Prague, Czech Republic	**5.11.B.T-02** Rising Global Species Loss Embodied in Oil Crop Supply Chains | **Shuntian Wang**, ETH Zurich, Switzerland	**5.11.B.T-03** Pathways to a more sustainable Swiss food system: holistic assessment reveals synergies and trade-offs | **Thomas Nemecek**, Agroscope, Switzerland	**5.11.B.T-04** Biodiversity impacts of recent land-use change driven by increases in agri-food imports | **Veronika Schlosser**, Technical University Munich, Germany	Discussion
Hall E	**Data-Driven Toxicology: Practical Applications and Insights into Using Existing and Emerging Data in Support of Human and Environmental Health** | ...			| Marissa Kosnik, Averina Nicolae, Bruno Campos	
	1.06.B.T-01 Searching for the evolutionary origins of chemical toxicity | **John Colbourne**, University of Birmingham, United Kingdom	**1.06.B.T-02** A Harmonized ECOTOX Dataset to Train a Random Forest Model for Predicting Ecotoxicity Effects in Honeybees | **Junxuan Shi**, Department of Environmental and Resource Engineering, Technical University of Denmark, Denmark	**1.06.B.T-03** Modeling the Bigger Picture: Hierarchical Approaches for Integrating Diverse Toxicological Data in Mechanistic Models | **Florian Schunck**, Osnabruck University, Germany	**1.06.B.T-04** A Data Analysis Pipeline for High-Content Bioimage Phenotyping in Toxicology: Development and Applications | **Miha Tome**, Department of Biotechnology and Systems Biology, National Institute of Biology, Slovenia	Poster spotlights: 1.06.P-Th001, 1.06.P-Th010
Hall F1	**Plastics in Terrestrial Ecosystems: Balancing Applications With Impacts, Fate and Hazards** | Denise Mitrano, Elma Lahive, Salla Selonen, Anita Jemec Kokalj			**Plastics in Terrestrial Ecosystems: Balancing Applications With Impacts, Fate and Hazards** | Denise Mitrano, Elma Lahive, Salla Selonen, Anita Jemec Kokalj	
	3.23.B.T-01 Micro-nanoscale polystyrene and polyvinyl chloride co-exposure impacts the uptake and translocation of toxic elements and pesticides by lettuce and wheat | **Nubia Zuverza-Mena**, The Connecticut Agricultural Experiment Station, United States	**3.23.B.T-02** Single- and Multigenerational Toxicity of Seven Mulching Film - Derived Microplastics in Single Species Tests with Nine Soil Invertebrates | **Anita Jemec Kokalj**, University of Ljubljana, Slovenia	**3.23.B.T-03** Microplastics originated from agricultural mulching films affect enchytraeid multigeneration reproduction and soil properties | **Klára Šmídová**, RECETOX, Masaryk University, Czech Republic	**3.23.B.T-04** Microplastic effects on soil nematodes: Main factors and species-specific differences | **Xuchao Zhang**, Institute of Biology, Ecology Group, Humboldt-Universitat zu Berlin, Germany	**3.23.B.T-05** Effects of microplastics from mulching films on soil invertebrate communities in agricultural field plots from three different geographical regions | **Cornelis A.M. van Gestel**, Vrije Universiteit Amsterdam, Netherlands
Hall F2	**Passive Sampling: Monitoring of Environmental Contaminants Fluxes Across Spatial and Temporal Scales** | Emma Knight, Sarit Kaserzon, Branislav Vrana			**Passive Sampling: Monitoring of Environmental Contaminants Fluxes Across Spatial and Temporal Scales** | Emma Knight, Sarit Kaserzon, Branislav Vrana	
	3.12.T-01 Furthering the Capabilities of Diffusive Gradient Passive Sampling for Per- and Polyfluoroalkyl Substances | **Jarod Snook**, University of Rhode Island, United States	**3.12.T-02** Application of Chemical Activity in Environmental Risk Assessment Using a Rapid Equilibrating Sampler: A Case Study on Perfluorooctane Sulfonate (PFOS) | **Sophia S.H. Hsu**, Simon Fraser University, Azimuth Consulting Group, Canada	**3.12.T-03** Fluxes of Bisphenols and Phthalates on Trap Sediments from a Tropical Reef System of the Southern Gulf of Mexico | **Laura Salazar Remigio**, Posgrado en Ciencias del Mar y Limnologia, Universidad Nacional Autonoma de Mexico, Mexico	**3.12.T-04** Chasing equilibrium partitioning with water using silicone chemometers | **Elisa Rojo Nieto**, Department of Exposure Science, Helmholtz Centre for Environmental Research (UFZ), Germany	Poster spotlights: 3.12.P-Th196, 3.12.P-Th204, 3.12.P-Th205
Hall G	**Marine Ecotoxicology: Anthropogenic Pressures on Marine Organisms and Habitats, Current Challenges and Solutions** | ...			| Marco Munari, Daniela Maria Pampanin, Marinella FarreUrgell, Davide Asnicar	
	2.07.T-01 Intraspecific Differentiation and Importance of Cold Gametogenesis for Heat Tolerance in the Golden Kelp Laminaria ochroleuca | **Claudia Gattolin**, University of Padova, Italy	**2.07.T-02** Monitoring Plastic Additives and Micro- and Nanoplastics Contamination in Ireland's Coastal Regions | **David Alcaide Benavides**, IDAEA-CSIC, Spain	**2.07.T-03** Mapping the Fate, Ecological Interactions and Impacts of Microplastic Pollution Across the Galapagos Marine Reserve | **Ceri Lewis**, University of Exeter, United Kingdom	**2.07.T-04** Maternal Transfer of PFAS in Marine Mammals via Lactation: Quantitative and Non-Targeted Analyses | **Kara Joseph**, Department of Chemistry, University of North Carolina at Chapel Hill, United States	**2.07.T-05** Temporal Variations of Marine Toxins in Catalan (NE Spain) Seawater: A Suspect Screening Comparison | **Marinella Farre**, Institute of Environmental Assessment and Water Research - Spanish Council for Scientific Research (IDAEA-CSIC), Spain
Hall K1	**Co-occurrence of Contaminants in Urban and Rural Environments** | Nikola Rakonjac, Ravi Naidu, Vera Silva			**Co-occurrence of Contaminants in Urban and Rural Environments** | Nikola Rakonjac, Ravi Naidu, Vera Silva	
	3.15.T-01 Co-occurrence of Pesticides and PFAS from Agricultural Pesticide Applications | **Michelle Hladik**, U.S. Geological Survey, United States	**3.15.T-02** Co-occurrence of Heavy Metals (Cu, Zn, Mg) and Pesticides in European Agricultural Soils: A European Assessment | **Adelcia Veiga**, Wageningen University and Research (WUR), Netherlands	**3.15.T-03** Continuous River Monitoring Networks: Understanding Co-occurrence of Chemical Pollution from Urban and Rural Sources | **Jun Li**, University of York, United Kingdom	**3.15.T-04** Size-segregated analysis of airborne nano- and micro-plastics and their association with carbonaceous species in an urban environment | **Anju Elizbath Peter**, Leibniz Institute for Tropospheric Research (TROPOS), Germany	Poster spotlights: 3.15.P-Th240, 3.15.P-Th242, 3.15.P-Th243
Hall K2	**From Nanomaterials to Advanced Materials: Challenges and Progress in Research, Industrial Application and Regulation** | ...			| Wim De Coen, Kai Paul, Richard Cross, Wendel Wohlleben	
	6.10.T-01 Integrated Approaches to Testing and Assessment (IATA) for MXenes MAX Phases and Advanced Carbon Nanomaterials | **Javier Alcodori Ramos**, ITENE - Instituto Tecnologico del Embalaje, Transporte y Logistica, Spain	**6.10.T-02** Nanomaterials Risk Assessment - A Regulatory Framework for Assessing the Variability of Nanoforms | **Virginia Rodriguez Unamuno**, European Chemicals Agency (ECHA), Finland	**6.10.T-03** Occupational Safety and Health Profits from a Safe Design | **Rolf Packroff**, BAuA - Federal Institute for Occupational Safety and Health, Germany	**6.10.T-04** Improving the Uncertainty Evaluation for Nanomaterial Worker Exposure Assessment for SSbD | **James Hanlon**, Ricardo, United Kingdom	**6.10.T-05** Prospective material flow analysis of advanced materials: Building a European circular economy? | **Luis Mauricio Ortiz-Galvez**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland
Hall D2	**Advances in Bioaccumulation Science and Assessment** | Leslie Saunders, Maike Habekost, Marco Franco, Jane Caley			**Advances in Bioaccumulation Science and Assessment** | Leslie Saunders, Maike Habekost, Marco Franco, Jane Caley	
	3.13.B.T-01 Consensus for a Better ‚B˙-Assessment | **Caren Rauert**, German Environment Agency (UBA), Germany	**3.13.B.T-02** Determining the Uptake and Depuration Rates of Polycyclic Aromatic Compounds in a Popular Biomonitoring Species | **Danielle Philibert**, Huntsman Marine Science Center, Canada	**3.13.B.T-03** Does Dietary Microplastic Enhance The Bioaccumulation of Environmental Contaminants and Polymer Additives? | **Frank Wania**, University of Toronto Scarborough, Canada	**3.13.B.T-04** Comparing the Predictive Capacity of the OECD 319B In vitro Fish Biotransformation Assay to the In vivo OECD 305 Study for a Hydrophobic Organic Chemical | **Aurelia Lapczynski**, Research Institute for Fragrance Materials, United States	**3.13.B.T-05** Adapting In Vitro Substrate Depletion Assays (TG 319) to Study Biotransformation of Organic Chemicals in Mallard Duck | **Matthew Schultz**, University of Saskatchewan, Canada
Hall D3	**Scientific Advancements in the Fate and Toxicity of Metals: Data, Models, Tools, and Their Application in Environmental Regulations** | ...			| David Boyle, Yamini Gopalapillai, Severine Le Faucheur	
	3.04.B.T-01 Source-oriented risks of heavy metals and their effects on resistance genes in natural biofilms | **Xia Luo**, Yunnan University, China (Mainland)	**3.04.B.T-02** Metal Toxicity From Hydrothermal Vent Sediments and Its Impact on Deep-Sea Mining | **Caio Cesar-Ribeiro**, University of Aveiro, Brazil	**3.04.B.T-03** Evaluating the Impacts of Nickel on Arctic Freshwater Biota, from Crustaceans to Fish | **Connor Stewart**, University of Alberta, Canada	**3.04.B.T-04** Are physiological responses to exposure to an urban trace metal elements mixture sex-dependent in zebra finches? | **Clement Parnet**, Institut Pluridisciplinaire Hubert Curien - UMR 7178 Universite de Strasbourg, Centre National de la Recherche Scientifique, France	**3.04.B.T-05** Aquatic Ecotoxicity of Environmentally Realistic Metal-Organic Mixtures to the Algae Raphidocelis subcapitata | **Maria Laura De Donno**, Ghent University, Belgium

Schedule

Setup	0:80–9:30
Poster Viewing	10:50–11:35
Poster Viewing	12:55–14:25
Take Down	by 14:25

Late-Breaking Science Posters

Late-breaking science posters are not included in the printed programme book. For a full list of poster presentations, please visit the online meeting platform.

Poster Sessions

POSTER AREA 1 (Hall X1, Level -2)

Data-Driven Toxicology: Practical Applications and Insights into Using Existing and Emerging Data in Support of Human and Environmental Health | Marissa Kosnik, Averina Nicolae, Bruno Campos, Anze Zupanic

1.06.P-Th001 Benchmarking Environmental Risk for Plant Protection Products: A Case for Insecticides and Acaricides | **Nnamdi Paul Ozoh**, Research Center One Health Ruhr, Ecotoxicology and Faculty of Biology, University Duisburg-Essen, Germany

1.06.P-Th002 The Impact of Chemicals Found in the Urban Environment on the Genetic Variation in Mice | **Daniel Guignard**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.06.P-Th003 Data-Driven Insights into Plastic Additives-Induced Toxicities Using Stressor-centric Adverse Outcome Pathway (AOP) Networks | **Nikhil Chivukula**, The Institute of Mathematical Sciences (IMSc); Homi Bhabha National Institute (HBNI), India

1.06.P-Th004 Development of an adverse outcome pathway leading to neurodevelopmental disorders and its application to screening chemicals in consumer products | **Siyeol Ahn**, School of Environmental Engineering, University of Seoul, "Korea, Republic of"

1.06.P-Th005 Leveraging zebrafish embryo phenotypic observations to advance data-driven analyses in toxicology | **Nils Klüver**, Helmholtz Centre for Environmental Research (UFZ), Germany

1.06.P-Th006 Derivation of Hazardous Concentrations of Soil Pollutants for The TRIAD Approach | **Haemi Kim**, Department of Environmental Health Science, Konkuk University, "Korea, Republic of"

1.06.P-Th007 Network-Based Investigation of Petroleum Hydrocarbons-Induced Ecotoxicological Effects and Their Risk Assessment | **Shreyes Rajan Madgaonkar**, The Institute of Mathematical Sciences (IMSc); Homi Bhabha National Institute (HBNI), India

1.06.P-Th008 Enhancing Interpretability of High-Throughput Toxicological Data Using Self-Organising Maps | **Jessica Reinmueller**, German Federal Institute of Hydrology (BfG), Germany

1.06.P-Th009 Towards Reliable Chemical Toxicity Predictions with Quantified Uncertainty | **Kerstin von Borries**, Technical University of Denmark, Denmark

1.06.P-Th010 Prediction of in vitro neurotoxicity through machine learning | **Christoph Schuer**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.06.P-Th011 Generalized Multivariable Linear Regression-PBPK Modelling for Nanoparticle Biodistribution Prediction Using Physicochemical Properties | **Jimeng Wu**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

1.06.P-Th012 Evaluation of human exposure to phthalates and correlation with contamination in the indoor environment | **Glaucia Olivatto**, UNICAMP, Brazil

1.06.P-Th013 Improving the Reliability of Chemical Property Predictions: A Thermodynamic Perspective | **Ali Akbar Eftekhari**, Technical University of Denmark, Denmark

1.06.P-Th014 Critical Review of the Environmental Exposure and Ecotoxicity Potential of Decabromodiphenylethane (DBDPE) in Aquatic and Terrestrial Biota Using a Chemical Activity-Based Risk Assessment | **Frank Gobas**, Simon Fraser University, Canada

1.06.P-Th015 In-silico Models for the Toxicity Prediction of Disinfection By-Products (DBPs) Resulting from Disinfection Processes in Drinking Water Treatment Plants (DWTPs) | **Blanca Pozuelo Rollon**, ITENE - Instituto Tecnologico del Embalaje, Transporte y Log stica, Spain

1.06.P-Th016 Aquatic toxicity of palladium: A grouping and read-across approach for some palladium substances and why others need separate assessments | **Tina Liesirova**, European Precious Metals Federation, Belgium

1.06.P-Th017 Applying in vitro high-throughput and high-content screening assays for toxicity analysis of environmental water samples: Emphasis on liver and endocrine disrupting effects | **Shu-Ju Chuang**, NCKU, Taiwan

1.06.P-Th018 Impact of Indoor VOC Exposure on Atopic Dermatitis and Rhinitis: Insights from the Korean National Health and Nutrition Survey | **Eun-Hee Lee**, Far East University, "Korea, Republic of"

1.06.P-Th019 Digital Product Passports for Improved Consumer Transparency and Health Impact Awareness | **Asif Mohammed**, AIMEN Research Center, Spain

Challenges and Innovations in Assessing Chemicals and Mixtures with Difficult-to-Test Properties for Environmental Risk | Emma Danby, Edward R. Salinas, Satoshi Endo, Joop de Knecht

1.13.P-Th020 What drives alga toxicity of primary fatty amines? | **Dirk Scheerbaum**, Noack Laboratorien GmbH, Germany

1.13.P-Th021 Method Development and Analytical Challenges for the Quantitation of Complex Industrial Chemicals in Support of Environmental Fate and Ecotoxicology Studies | **Stephen Brewin**, Labcorp, United Kingdom

1.13.P-Th022 Sorption of Cationic Surfactants by Clay Mineral and Organic Matter: Isotherm Measurements with Conventional Batch and New Passive Sampling Methods | **Satoshi Endo**, National Institute for Environmental Studies (NIES), Japan

1.13.P-Th023 Chemical Mapping of Naturals Constituents through the Persistence, Bioaccumulation, Mobility and Toxicity (PBMT) Prism: Qualitative Analysis as a Precursor to Literature Data | **Kevin Bonnot**, dsm-firmenich, Belgium

1.13.P-Th024 Application of GCÃ—GC methodology to assess the bioaccumulation potential of hydrocarbon UVCBs in fish | **Leslie Saunders**, Concawe, Belgium

1.13.P-Th025 Evaluation of the Environmental Safety of Basil Extract (Ocimum basilicum) in Aquaculture Feeds | **Alessandra Maganza**, The Veterinary Medical Research Institute for Piedmont; Regional Reference Centre for the Biodiversity of Aquatic environments (BioAqua); Department of Chemistry, Biology and Biotechnology, University of Perugia, Italy

1.13.P-Th026 Building a Pilot Database of UVCB Chemical Characterization Information: Compiling Data on Substances of Unknown or Variable Composition, Complex Reaction Products, and Biological Materials (UVCBs) | **Julie Krzykwa**, Health and Environmental Sciences Institute (HESI), United States

1.13.P-Th027 Graphene grey areas in Daphnia ecotoxicity exposures: mixtures, movement and monitoring | **Iseult Lynch**, University of Birmingham, United Kingdom

1.13.P-Th028 Why are Commercial Surfactants Difficult to Test? Examination of the Challenges associated with Chronic Aquatic Testing | **Erin M. Maloney**, Shell Global Solutions, Netherlands

1.13.P-Th029 Providing structures for unknown constituents of hydrocarbon UVCBs: in-silico 'de novo' creation of nonpolar hydrocarbons | **Yves Verhaegen**, Concawe, Belgium

1.13.P-Th030 Optimizing OECD 236 FET for Challenging Substances: Evaluation of a Closed-System Design for Reliable Aquatic Toxicity Testing | **Stefan Hoeger**, Innovative Environmental Services (IES) Ltd, Switzerland

1.13.P-Th031 Evaluating the Reliability and Relevance of (eco)toxicity studies on micro- and nanoplastics: SciRAPplastic and plasticCRED | **Ida Due**, Department of Environmental Contamination and Chemicals, DTU Sustain, Technical University of Denmark, Denmark

1.13.P-Th032 Investigating Intrinsic Toxicity of Rare Earths to Algae - How Far to Go When Ecological Relevance Is Limited? | **Nele Deleebeeck**, Arcadis Belgium, Belgium

1.13.P-Th033 Combination of Effect Directed Analysis and Pull-down Assay Coupled to Non-target Analysis for Identification of Endocrine Disruptors in Treated Wastewater | **Klara Hilscherova**, RECETOX, Masaryk University, Czech Republic

1.13.P-Th034 Metrics for Structural Diversity in Chemical Mixtures | **Mark Parnis**, Canadian Environmental Modelling Centre, Department of Chemistry, Trent University, Canada

Impact of Airborne Pollutants on Environmental Health and Biodiversity | Saeed Albaseer, Hai Guo

2.06.P-Th035 Analytical and toxicological evaluation of residential closed combustion waste burning | **Balazs Kakasi**, University of Pannonia, Research Institute of Biomolecular and Chemical Engineering, Air Chemistry Research Group; HUN-REN-PE Air Chemistry Research Group, Hungary

2.06.P-Th036 Prolonged exposure of emerging contaminant-phthalate ester on human lung cells: cell respiration inhibition and joint toxicity prediction | **Cristian Ryan Arbolado Argamino**, Centre for Agroecology, Water and Resilience, Coventry University, United Kingdom

2.06.P-Th037 Investigating the allergenic potential of different pollen species in terms of their cell viability, ROS measurement and chemical modifications on exposure to air pollutants | **Dimple Pathania**, School of Engineering, Deakin University, Australia, & Centre for Agroecology, Water and Resilience (CAWR), Australia

2.06.P-Th038 Investigating airborne pesticide deposition using trace analysis in precipitation, soil, and agricultural plants | **Benedikt Ringbeck**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

2.06.P-Th039 Development of Evaluation Methods and Monitoring Data Analysis for External Pollutant Ingress into Vehicles During Driving | **Ho-Hyeong Yang**, Research Institute for Living and Industrial Environment in Seokyeong University, "Korea, Republic of"

2.06.P-Th040 Multiple biomarkers assessment in the gill and blood of Nile tilapia induced by settleable atmospheric particulate matter from metallurgical industries | **Marisa Fernandes**, Federal University of Sao Carlos (UFSCar), Brazil

2.06.P-Th041 Analysis of Emissions From Brake Abrasions in Rail Traffic | **Gina Bode**, German Centre for Rail Traffic Reasearch at the Federal Railway Authority, Germany

2.06.P-Th042 Challenges of Climate Change: Risk Mitigation of Plant Protection Products Containing Semi-Volatile Active Substances Using the Example of Clomazone | **Marlene Kolter**, Federal Office of Consumer Protection and Food Safety (BVL), Germany

2.06.P-Th043 In vitro human alveolar macrophage (ImmuPHAGE™ responses to particulate matter exposure | **Elinda Zeqiri**, ImmuONE Ltd and Centre for Topical Drug Delivery and Toxicology, University of Hertfordshire, United Kingdom

2.06.P-Th045 The Impacts of Gaseous Air Pollution on Insect Fitness | **Rachael Haw**, University of Sheffield, United Kingdom

2.06.P-Th046 The kinetic, modelling study of Fenton-like with organic acids and their fate in the aqueous phase fate. | **Thomas Schaefer**, TROPOS, Germany

2.06.P-Th047 Determination of PAHs in indoor house dust in Barranquilla Colombia and their relationship with health, using the biological model c. Elegans | **Belkis Palacio**, Universidad De Cartagena, Colombia

2.06.P-Th049 Incorporation of environmental airborne nanoparticles in human lung cells | **Marisa Fernandes**, Univeridade Federal de Sao Carlos, Brazil

Marine Ecotoxicology: Anthropogenic Pressures on Marine Organisms and Habitats, Current Challenges and Solutions | Marco Munari, Daniela Maria Pampanin, Marinella FarreUrgell, Davide Asnicar

2.07.P-Th050 Effects of short- and long-term exposure to natural acidified conditions in the limpet Patella caerulea | **Silvia Giorgia Signorini**, Department of Biosciences, University of Milan; Department of Integrative Marine Ecology, Stazione Zoologica Anton Dohrn, Italy

2.07.P-Th051 Can Oxygen Supersaturation Boost Thermal Tolerance in Marine Fauna? | **Ilaria D'Aniello**, Department of Biology, University of Padova, Italy

2.07.P-Th053 Physiological Responses and Adaptive Mechanisms of Ulva sp. to Marine Heatwaves | **Marta Paganin**, University of Padova, Italy

2.07.P-Th054 Health and reproduction of the red seaweed Palmaria palmata in a climate change scenario | **Pierre Liboureau**, Faculty of Science and Technology, University of Stavanger, Norway

2.07.P-Th055 Evaluating the Potential of Chemical and Thermal Priming to Enhance Thermal Tolerance in Juvenile Sporophytes of the Golden Kelp Laminaria ochroleuca | **Claudia Gattolin**, University of Padova, Italy

2.07.P-Th056 Mauritius Oil Spill: Hydrocarbon Residues Remain in the Mangrove Systems Three Years Later | **Marthe Monique Gagnon**, School of Molecular and Life Sciences, Curtin University, Australia

2.07.P-Th058 Influence of sun creams on corals | **Guido Gonsior**, GG BioTech Design, Germany

2.07.P-Th059 Toxicity of Arsenate and Arsenite to coral species Acropora cervicornis and Orbicella faveolata | **Dorothy-Ellen Renegar**, Nova Southeastern University, United States

2.07.P-Th060 Coral reef research: Identification of chemical stressors with negative influence on tropic costal ecosystems | **Guido Gonsior**, GG BioTech Design, Germany

2.07.P-Th061 Dietary Markers and Contaminant Trends in Eastern Beaufort Sea Belugas: Exploring the Impact of Prey Shifts on PCBs and PBDEs | **Laura Zeppetelli-Bedard**, Environmental Toxicology Research Center, Department of Biological Sciences, University of Quebec at Montreal, Canada

2.07.P-Th063 Comparison of metallic concentrations in two breeding colonies of the endangered African penguin (Spheniscus demersus) | **Nicole Van Gessellen**, North-West University, South Africa

2.07.P-Th064 Tracing history of microplastic pollution and associated environmental changes by using fjord sediment archives | **Karin Mattsson**, Environment Laboratories, International Atomic Energy Agency, Principality of Monaco & Department of Marine Sciences, University of Gothenburg, Sweden

2.07.P-Th065 The Impacts of Microplastic Ingestion on Zooplankton Lipid Physiology and Ecosystem Functioning: A Case Study on Arctic Copepods | **Alena Sakovich**, British Antarctic Survey/Durham University, United Kingdom

2.07.P-Th066 Effects of Ammonia and Methanol spills on zooplankton in East Baltic and Bothnian Bay | **Themistoklis Konstantinopoulos**, DTU, Denmark

2.07.P-Th068 Toxicological Assessment and Environmental Distribution of Tetracene Along the Yellow Sea Coast | **Junghyun Lee**, Kongju National University, "Korea, Republic of"

2.07.P-Th069 Alkylation and Halogenation have Position-dependent effects on PAH Potency for Aryl Hydrocarbon Receptor Activation and Early Life-stage Toxicity in Zebrafish (Danio rerio) | **Justin Dubiel**, University of Lethbridge, Canada

2.07.P-Th070 ONE-BLUE Project: Integrated Assessment of Contaminants of Emerging Concern (CECs) and Their Impacts in Marine Ecosystems: Mediterranean Case Study | **Camilla Mariani**, Universit di Milano - Dipartimento di Scienze e Politiche Ambientali, Italy

2.07.P-Th071 Spatial and temporal distribution of metals in the Salt River catchment, Cape Town | **Zikhona Menze**, SETAC member, South Africa

2.07.P-Th072 Ecological Risk Assessment Post Tourist Season at the Croatian UNESCO Heritage Island of Hvar: Student STEM Research Immersion Program Promotes Environmental Stewardship and Community Outreach | **Nikol Petric**, Pharos International Institute for Science, Arts and Culture, Croatia

2.07.P-Th073 Effects of Surfactants on Pelagia noctiluca Ephyrae, a Promising Model Organism in Marine Ecotoxicology | **Valentina Ferrari**, Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Italy

2.07.P-Th074 Ecotoxicological Effects of Metal Mixtures from Offshore Wind Turbine Galvanic Anodes on Blue Mussels Mytilus edulis | **Moses Ndugwa**, University of Antwerp, Belgium

2.07.P-Th075 Effects of underwater noise on behavior and physiological stress responses in Baltic Sea blue mussels (Mytilus spp.) | **Raisa Turja**, Finnish Environment Institute (SYKE), Finland

2.07.P-Th076 Comparative Environmental Health Status Assessment Through Cell and Tissue Level Biomarkers in Wild Mussel and Oyster Populations From Locations With Different Anthropogenic Impact in the Basque Coast | **Itziar Arranz-Veiga**, CBET Research Group, Research Centre for Experimental Marine Biology and Biotechnology PIE, University of the Basque Country UPV/EHU, Spain

2.07.P-Th077 Acute Toxicity of Lithium to Marine Organisms of Different Biological Complexity | **Laura Noguera**, CBET Research Group, Research Centre for Experimental Marine Biology and Biotechnology PIE, University of the Basque Country UPV/EHU, Spain

2.07.P-Th078 Impact of Polycyclic Aromatic Compounds and Oil Exposure on the Righting Behavior of Two Gastropod Species | **Danielle Philibert**, Huntsman Marine Science Center, Canada

2.07.P-Th079 Marine Environment Impacts from Space Launch Activity | **Imogen Bailes**, Lancaster University, United Kingdom

2.07.P-Th080 Biomakers Assesment for Matrices Artificially Contaminated with Dichlofluanid | **Ana Carolina Feitosa Cruz**, Sao Paulo State University - UNESP, Brazil

Scientific Advancements in the Fate and Toxicity of Metals: Data, Models, Tools, and Their Application in Environmental Regulations | David Boyle, Yamini Gopalapillai, Severine Le Faucheur

3.04.P-Th081 Levels of trace elements in teas and herbal infusions available on the Portuguese and French markets | **Ana Sousa**, Associate Laboratory i4HB - Institute for Health and Bioeconomy, University Institute of Health Sciences - CESPU; UCIBIO - Applied Molecular Biosciences Unit, Toxicologic Pathology Research Laboratory, University Institute of, Portugal

3.04.P-Th082 Evaluation of Cadmium and Lead Contamination in Wild Dandelion (Taraxacum officinale) from Croatia: Implications for Food Safety and Public Health | **Michaela Zeiner**, Orebro University, School of Science and Technology, Man-Technology-Environment Research Centre, Sweden

3.04.P-Th083 Assessing Heavy Metal Contamination from Shooting Ranges: A Case Study of the Munkatorp Shooting Range in Ã–rebro, Sweden | **Michaela Zeiner**, Man-Technology-Environment Research Centre, School of Science and Technology, Orebro University, Sweden

3.04.P-Th084 Analysis of the Otolith Bone for Tracing Environmental Metal Contamination in Bluegill (Lepomis macrochirus) and Green Sunfish (Lepomis cyanellus) | **Aryanna Carr**, Oklahoma State University, United States

3.04.P-Th085 Where's the Data? Updating the EU Physicochemical Freshwater Monitoring Database | **Adam Peters**, wca environment Ltd, United Kingdom

3.04.P-Th086 Simplified and Now User-Friendly! Updating bio-met for Better Risk Assessment | **Adam Peters**, wca environment Ltd, United Kingdom

3.04.P-Th087 Determination of Gallium (III) and Tin (II) Free Concentrations in Aqueous Media with the Electroanalytical Technique AGNES (Absence of Gradients and Nernstian Equilibrium Stripping) | **Josep Galceran**, Departament de Quimica, Fisica i Ciencies Ambientals i del S l. Universitat de Lleida, and AGROTECNIO-CERCA, Spain

3.04.P-Th088 Possibilities and Challenges in Setting Scientifically Defensible Discharge Limits for Aluminium in the UK | **Adam Peters**, wca environment Ltd, United Kingdom

3.04.P-Th089 Free Ion Determinations to Support Silver Bioavailability Model Development | **Edward Salisbury**, UK Centre for Ecology and Hydrology, United Kingdom

3.04.P-Th090 Development of an Approach to Account for Bioavailability in the Assessment of Potential Risks of Uranium Exposures to Freshwater Ecosystems | **Adam Peters**, wca environment Ltd, United Kingdom

3.04.P-Th091 Initial Outcomes in the Development of a Bioavailability-Based Approach to Risk Assessment of Uranium in Freshwaters: Data collection and likely bioavailability relationships | **Adam Peters**, wca environment Ltd, United Kingdom

3.04.P-Th092 Delivering a New Framework for the Implementation of Bioavailability-Based Metal Guideline Values in Australia and New Zealand | **Adam Peters**, wca environment Ltd, United Kingdom

3.04.P-Th093 Role of Medium Anionic Composition on Manganese and Zinc Cytotoxicity in Rainbow Trout Gill Cells | **Grace Baldwin**, Oklahoma State University, United States

3.04.P-Th094 Assessing the Oxidative Potential of Metals in Thoracic-Sized Fractions of Road Dust | **Clare Wiseman**, University of Toronto, Canada

3.04.P-Th095 Cobalt contamination drives the structure and the co-occurrence network of freshwater biofilms | **Severine Le Faucheur**, Université de Pau et des Pays de l'Adour, France

3.04.P-Th096 Algal acute toxicity of Silver Cyanide in freshwater environments | **Jelle Mertens**, European Precious Metals Federation, Belgium

3.04.P-Th097 Response of Scenedesmus acutus (Chlorophyta) Microalgae to Metals Exposure | **Alma Sobrino-Figueroa**, Alejandro Villalobos Laboratory. Autonomous Metropolitan University-Iztapalapa, Mexico

3.04.P-Th098 Nickel Ecotoxicity to Raphidocelis subcapitata in Standard ISO Medium vs. Ultramafic Waters | **Davide A.L. Vignati**, Universite de Lorraine, CNRS, LIEC, France

3.04.P-Th099 Pristine Ultramafic Waters Exhibit Baseline Chronic Ecotoxicity to Daphnia magna | **Davide Vignati**, Universite de Lorraine, CNRS, LIEC, France

3.04.P-Th100 Cadmium Toxicity in Daphnia magna is Modified By Food Concentration | **Fernando Martinez-Jeronimo**, Instituto Politecnico Nacional. Escuela Nacional de Ciencias Biologicas, Mexico

3.04.P-Th101 Gadolinium and Environmental Contamination: Effects Across Trophic Levels in Aquatic Ecosystems | **Camilla Mossotto**, The Veterinary Medical Research Institute for Piedmont; Regional Reference Centre for the Biodiversity of Aquatic environments (BioAqua); University of Perugia, Italy

3.04.P-Th102 Comparison of toxicity and bioaccumulation of platinum metals for organisms of different trophic levels | **Martina Buckova**, Transport Research Centre, Czech Republic

3.04.P-Th103 Assessment of Acute Toxicity in Daphnia magna Exposed to Binary and Ternary Metallic Elements Mixtures of As, Cu, Zn, and Se: Experimental Investigations and ModelingStrategies | **Wijdane Limouni**, University of Quebec in Abitibi-Temiscamingue, Canada

3.04.P-Th104 Ecotoxicity of Field-Realistic Metal-Organic Mixtures to the Freshwater Algae Raphidocelis subcapitata | **Maria Laura De Donno**, Ghent University, Belgium

3.04.P-Th105 The impact of metal mixtures on local biodiversity - An analysis of Flemish freshwater monitoring data | **Karel Viaene**, ARCHE Consulting, Belgium

3.04.P-Th106 MEED: Progress with the multiyear Metals Environmental Exposure Data Collection Program to Anticipate Challenges of the EU Zero Pollution Ambition Policy and the Chemicals Strategy for Sustainability | **Hugo Waeterschoot**, Eurometaux, Belgium

3.04.P-Th107 Updating the Bioavailability-Based Environmental Quality Standard Derivation Approach for Compliance Assessment of Zn in Freshwaters | **Charlotte Nys**, ARCHE Consulting, Belgium

3.04.P-Th108 Derivation of a Bioavailable Environmental Quality Standard for Copper | **Charlotte Nys**, ARCHE Consulting, Belgium

3.04.P-Th109 Compliance Assessment of Cu under the Water Framework Directive | **Charlotte Nys**, ARCHE Consulting, Belgium

3.04.P-Th110 Nickel Water Quality Guideline Updates in Canada | **Kelly Croteau**, Windward Environmental LLC, United States

3.04.P-Th111 The Impact of Climate Change on the Flux and Fate of Metals in Freshwaters: Implications for Metal Bioavailability Across Different Scales | **Farhan Khan**, NORCE, Norway

3.04.P-Th112 Impact of Diatom-Produced Extracellular Polymeric Substances on Silver Nanoparticle Behavior in Freshwater | **Rocco Gasco**, University of Geneva, Switzerland

3.04.P-Th113 In vitro Biotransformation of Silver Nanoparticles by Freshwater Phytoplankton | **Arin Kantarciyan**, Department F.-A. Forel for Environmental and Aquatic Sciences, Environmental biogeochemistry and ecotoxicology, University of Geneva, Switzerland

3.04.P-Th114 Tracing Microbiome Proteins in Ecocoronas: A Case Study for Titanium Dioxide Nanoparticles | **Bregje Brinkmann**, Institute of Environmental Sciences (CML), Leiden University, Netherlands

Sampling and Analysis Methodologies, and Environmental Behavior Studies for Emerging Organic Contaminants in the Aquatic Environment: Recent Advances and Perspectives | Wei Chen, Jun Huang, Zulin Zhang, Zhe Qian

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3.08.P-Th116 Source control of industrial emissions: Monitoring strategies to discern pollutant spills | **Tom Galle**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

3.08.P-Th117 Wide pesticide screening assessment in aquatic environments: Comparisons of sampling and extraction techniques | **Caterina Cacciatori**, RMIT University, Australia

3.08.P-Th118 Analysis of Pesticides, Pharmaceuticals and Personal Care Products in Water Samples According to the proposal for a Directive amending the EU Water Framework Directive | **Claudia Rathmann**, Waters GmbH, Germany

3.08.P-Th119 Pharmaceutical and Personal Care Products (PPCPs) in typical Wastewater Treatment Plants (WWTPs) in Wuhan, China | **Wei Chen**, School of Environmental Studies, China University of Geosciences, China (Mainland)

3.08.P-Th120 Occurrence, remove efficiency and modelling of pharmaceutical and personal care products (PPCPs) in a typical wastewater treatment plant in Wuhan | **Zhe Qian**, State Key Laboratory of Biogeology and Environmental Geology, China University of Geosciences, China (Mainland)

3.08.P-Th121 Seasonal study of the presence of pharmaceuticals in Mero-Barcés River Basin (NW Spain) | **Soledad Muniategui-Lorenzo**, University of A Coruña, Spain

3.08.P-Th122 Seasonal Trends and Consumption Habits of Addictive Substances in the Community of Madrid (Spain) Through Wastewater Analysis | **Emma Gracia-Lor**, Department of Analytical Chemistry, Complutense University of Madrid, Spain

3.08.P-Th123 Nationwide Monitoring of Organophosphate Esters in Korean Surface Waters | **Junseong Park**, Department of Marine Science and Convergence Technology, College of Science and Convergence Technology, Hanyang University, "Korea, Republic of"

3.08.P-Th124 Nationwide Evaluation of Polyfluoroalkyl Substances Abundance in Reservoirs of Taiwan | **Cat Tuong Le Tuong**, Advanced Environmental Ultra Research Laboratory (ADVENTURE) & Department of Environmental Engineering, Chung Yuan Christian University, Taoyuan 320314, Taiwan, Vietnam

3.08.P-Th125 Quantifying the Impact of Photolysis on Micropollutant Attenuation in a Natural River System | **Malte Posselt**, Department of Environmental Science, Stockholm University, Sweden

3.08.P-Th126 Different factors affecting the seawater sample processing for the trace analysis of organophosphate triesters and their metabolites: application to the Loire Estuary (France) | **Pablo Zapata-Corella**, IFREMER, Chemical Contamination of Marine Ecosystems (CCEM), France

3.08.P-Th127 Exploring the effects of PFAS on wild populations of mosquitofish: Focus on behaviour and reproduction | **Clelia Gasparini**, Department of Biology, University of Padova, Italy

3.08.P-Th128 Non-Target Analysis of Wastewater Treatment Plant Samples: Comparison of Fingerprint of Inflow and Outflow Water | **Isabella Gambino**, University of Insubria, Italy

3.08.P-Th129 Machine learning-driven forecasting of organic micropollutants in aquatic environments | **Michael C. Welle**, KTH Royal Institute of Technology, Stockholm, Sweden, Sweden

3.08.P-Th130 Accerlerating effect-directed analysis through constructing non-target HRMS libraries for AhR agonists by deep learning | **Jing You**, Jinan University, China (Mainland)

3.08.P-Th131 Proving That Aquatic Toxicity Testing Is Technically Not Feasible: Not So Simple. Case Study of UVCB Emulsifiers | **Rija Samsera**, International Flavors & Fragrances Inc., France

3.08.P-Th132 From Microalgae to Gastropods: Understanding the Kinetics and Toxicity of Silver Nanoparticles in Freshwater Aquatic Environment | **Ting Wang**, University of Geneva, Switzerland

3.08.P-Th133 Prediction of the surface charge of TiO2-nanoparticles in surface waters | **Allan Philippe**, University of Kaiserslautern-Landau (RPTU), Germany

3.08.P-Th134 Variation in Horizontal Distribution of Microplastic Polymers Exceeding 20 Microns in Tokyo Bay Sediments: Effects of Density and Particle Size | **Yutaka Kameda**, Chiba Institute of Technology, Japan

3.08.P-Th135 Distribution Characteristics and Risk Assessment of Microplastics in Surface Water and Groundwater from Hetao Irrigation District | **Gaofeng Zhao**, Institute of Environment and Sustainable Development in Agriculture, Chinese Academy of Agricultural Sciences, China (Mainland)

3.08.P-Th136 Adsorption of benzophenone-3 and octocrylene UV filters on polyethylene: Analysis by HPLC-MS/MS and voltammetry with screen-printed electrodes | **Albert Contreras Llin**, IDAEA-CSIC, Spain

3.08.P-Th137 Indicators and Impacts of Microplastics Released from Traffic Paints and Paved Roads into Surface Waters, Detected Using an Automated Microplastic Preparation System | **Yutaka Kameda**, Chiba Institute of Technology, Japan

3.08.P-Th138 Microplastics in Elbe River Sediments Analyzed by Thermal Extraction-Desorption Gas Chromatography-Mass Spectrometry (TED-GCMS) | **Siqi Wu**, UFZ - Helmholtz Centre for Environmental Research, Department of Exposure Science, Germany

3.08.P-Th139 Development of an Analytical Method for Measuring Fine Rubber Particles Exceeding 20 Microns in Sediment Using Micro-FTIR Imaging Techniques | **Yutaka Kameda**, Chiba Institute of Technology, Japan

3.08.P-Th140 Automatic sample preparation device for microplastics analysis | **Markus Sillanpaa**, Finnish Environment Institute (Syke), Finland

3.08.P-Th141 Development of a portable and cost-effective sampling device for microplastics in water, utilizing household water filtration systems | **Yutaka Kameda**, Chiba Institute of Technology, Japan

3.08.P-Th142 Small Microplastics (<100 µm) in Wet Depositions: First Micro-FTIR-NIR Analysis and Creation of NIR Libraries | **Beatrice Rosso**, CNR ISP, Italy

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3.10.P-Th143 The effect of lignin derivative addition as co-substrate on DOC dynamics and OMP biodegradation in drinking water aquifers | **Silvana Quiton-Tapia**, Environmental Technology, Wageningen University & Research (WUR), Netherlands

3.10.P-Th144 Investigating the Presence of Emerging Contaminants in GB Honey | **John Nightingale**, University of Leeds, United Kingdom

3.10.P-Th145 PMTfocus: Tracing Persistent, Mobile, and Toxic Substances from Water Resources to Human Exposure - An Emerging Environmental and Public Health Challenge | **Julieta Sturla Lompre**, HydroSciences Montpellier, IRD, CNRS, University of Montpellier, France

3.10.P-Th146 From Wastewater to Rivers and Soils - Particle-associated Emissions of Quaternary Ammonium Compounds | **Sophie Lennartz**, Institute of Soil Science and Soil Conservation, Justus-Liebig University Giessen, Germany

3.10.P-Th147 Effect-Based Strategy for Identification and Assessment of Potential Health Effects of Hazardous Organic Chemicals in Vehicles | **Nathalie Struwe**, Orebro University, Sweden

3.10.P-Th148 Seasonal Variation of Contaminants of Emerging Concern in Swedish Landfill Leachate and its recipient: A Case Study | **Tsz Yung Wong**, Swedish University of Agricultural Sciences (SLU), Sweden

3.10.P-Th149 Synthetic Musks: From Wastewaters to Surface Water Ecosystems | **Stefano Tasselli**, CNR-IRSA, Italy

3.10.P-Th150 The Contribution of Microflow Liquid Chromatography to the Analysis of Micropollutants and their Transformation Products in Sediments | **Louise Durand**, CNRS, France

3.10.P-Th151 In Silico Tentative Identification of Pharmaceutical Biotransformation Products in Receiving Water | **Olukemi Oloyede**, Imperial College London, United Kingdom

3.10.P-Th152 Temporal characterization of progestins accumulation in three different estuarine systems along the Portuguese coast | **Patricia Cardoso**, CIIMAR, Portugal

3.10.P-Th153 Pharmaceutical Removal in Batch Anaerobic Wastewater Treatment: Ecotoxicological Impacts on Cladocerans as Bioindicators | **Allan Pretti Ogura**, Laboratory of Biological Processes, University of Sao Paulo, Brazil

3.10.P-Th154 Quantification and Environmental Fate of Pharmaceuticals and Personal Care Products across the soil and water systems of Delhi: Insights from Batch Experiments | **Dileep Singh**, Indian Institute of Technology, Roorkee, India

3.10.P-Th155 Impact of variable Parameters on the Formation of possible Transformation Products during Drinking Water Treatment Simulation | **Felix Beyer**, Eurofins Agroscience Services EcoChem GmbH, Germany

3.10.P-Th156 In Vitro Dermal Absorption of Key Colour Developers in Thermal Paper: A Focus on Bisphenol A, Bisphenol S, and Pergafast 201 | **Olha Tsykhotska**, Toxalim (Research Centre in Food Toxicology), Universite de Toulouse, INRAE, ENVT, INP-Purpan, France

3.10.P-Th157 Assessing biochar's potential for long-term pharmaceutical adsorption in flow-through wastewater systems | **Oksana Golovko**, Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU), Sweden

3.10.P-Th158 Screening of traffic related organic micropollutants in municipal stormwater ponds | **Bent Speksnijder**, Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU), Sweden

3.10.P-Th159 Pesticide residues with hazard classifications relevant to non-target species including humans are omnipresent in the environment and farmer residences | **Vera Silva**, Soil Physics and Land Management Group, Wageningen University & Research, Netherlands

3.10.P-Th160 Assessing the Environmental Hazard of Synthetic Phenolic Antioxidants | **Cleo Soldini**, University of Zurich, Switzerland

3.10.P-Th161 Rapid Antimony Speciation in PET Additives Using Frontal Chromatography-ICP-MS: A New Approach for Environmental Risk Assessment | **Davide Spanu**, University of Insubria, Italy

3.10.P-Th162 How common oyster mushroom can assist in pharmaceutical removal | **Oksana Golovko**, Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU), Sweden

3.10.P-Th163 Investigating quaternary ammonium compounds (QACs) throughout wastewater treatment plants and receiving waters | **William Arnold**, University of Minnesota, United States

3.10.P-Th164 Chemical pollution in Stormwater ponds. Suspect Screening of Organic micropollutants in Impacted Reservoirs in a Swedish context | **Alberto Celma**, Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU), Sweden

3.10.P-Th165 Assessing nanocarriers for their environmental risks | **Anna Pavlicek**, BOKU University, Austria

3.10.P-Th166 Analysis of phthalate esters, alternative plasticizers, and organic phosphorus flame retardants in 46 recycled plastic pellets | **Naohide Shinohara**, National Institute of Industrial Science and Technology, Japan

3.10.P-Th167 Real-time monitoring of 16 pharmaceuticals in wastewater using automated on-site SPE and LC-MS/MS methods | **Sook Hyun Nam**, Korea Institute of Civil Engineering and Building Technology, "Korea, Republic of"

3.10.P-Th168 Analysis of Aromatic Amines and Their Transformation Products in Dust from Five Different Indoor Environments Representing Diverse Source Profiles | **Ozge Edebali**, RECETOX, Masaryk University, Czech Republic

3.10.P-Th169 Wastewater pollution in Yucatan's karstic aquifer: caffeine and bacteria in monitoring wells of the Yucatan Peninsula | **Diego Ivan Najera-Perez**, Posgrado en Ciencias del Mar y Limnologia, UNAM, Mexico

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3.10.P-Th171 Biodegradation of Sulfonamides and Fluoroquinolones in Domestic Sewage using an Anaerobic Fixed-Bed Biofilm Reactor | **Rodrigo Carneiro**, University of Sao Paulo, Brazil

3.10.P-Th172 Toxicity of newly synthesized ionic liquids based on the acute Daphnia magna immobilization test | **Tanja Tomic (Tunic)**, Department of Biology and Ecology, University of Novi Sad, Serbia

3.10.P-Th173 Water Treatment Processes: Identification and Quantitation of Transformation Products Formed in Test Systems | **Peter Crick**, Innovative Environmental Services (IES) Ltd, Switzerland

3.10.P-Th175 Biocides in the Environment (BiU) - Advancements of the German Monitoring Database | **Korinna Ziegler**, German Environment Agency (UBA), Germany

3.10.P-Th176 Environmental Concentrations of Bisphenol A in North American Surface Waters and Sediments Over the Years of 2010 to 2022 | **Simon Gutierrez**, Ricardo, United Kingdom

3.10.P-Th177 Plastic Additives in Sediments of the Mero-Barcés River Basin (NW Spain): Monitoring and Environmental Trends | **Soledad Muniategui-Lorenzo**, University of A Coruña, Spain

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3.11.P-Th178 Target and Non-Target Screening of Environmental Contaminants During Water Reuse by Trapped Ion-Mobility | **Jan Specker**, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Netherlands

3.11.P-Th179 Application of Trapped Ion-Mobility Spectrometry for Environmental Contaminant Detection in Advanced Treated Wastewaters | **Patricia Aguilar Alarcon**, University of Amsterdam, Netherlands

3.11.P-Th180 A n advanced analytical methodology for the simultaneous monitoring of more than 2,500 emerging pollutants in soils and biodiversity leveraging the technique LC-TIMS-HRMS | **Georgios Gkotsis**, National and Kapodistrian University of Athens, Greece

3.11.P-Th181 Suspect and non-targeted screening of halogenated contaminants in a stranded killer whale (Orcinus orca) using GC-HRMS hyphenated with trapped ion mobility (TIMS) | **Hugo Muller**, Mass Spectrometry Laboratory, MolSys Research Unit, University of Liège, Belgium

3.11.P-Th182 GC-Ion Mobility-HRMS as a Novel and Powerful Alternative to Magnetic Sector MS for a Comprehensive Quantitation and Identification of Dioxins and Multiple Classes of POP | **Carsten Baessmann**, Bruker Daltonics GmbH & Co KG, Germany

3.11.P-Th183 Detection and Characterization of Environmental Contaminants by Direct Analysis in Real Time (DART) Mass Spectrometry Techniques | **Arnd Ingendoh**, Bruker Daltonics GmbH & Co KG, Germany

3.11.P-Th184 One Step Closer to Accurate Quantification of Micro- and Nanoplastics Using Cyclic Ion Mobility Mass Spectrometry | **Kas Houthuijs**, Chemistry for Environment & Health, Amsterdam Institute for Life and Environment (A-LIFE), Vrije Universiteit Amsterdam, Netherlands

3.11.P-Th185 Are collision cross section values comparable across different ion mobility separation instrumental designs? An interlaboratory evaluation | **Alberto Celma**, Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU), Sweden

3.11.P-Th186 Ion-mobility derived CCS-m/z trendlines for improved annotation confidence of contaminants of emerging concern and their biotransformation products | **Lidia Belova**, University of Antwerp, Belgium

3.11.P-Th187 Sample-specific machine learning modelling for CCS prediction to improve compound identification in non-target analysis | **Lucas Ferrando**, Department of Materials and Environmental Chemistry MMK, Sweden

3.11.P-Th188 Overcoming Analytical Challenges in Xenometabolome Assessment - From Isomer Separation to Comprehensive MS/MS coverage combining LC-HRMS with TIMS-PASEF | **Dimitrios Damalas**, Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens (NKUA), Greece

3.11.P-Th189 Investigating the effect of combining trapped ion mobility spectrometry with HRMS and its resulting data acquisition modes in untargeted workflows for identifying emerging contaminants | **Konstantina Diamanti**, Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece

3.11.P-Th190 Structural Insights into Dimeric Ions of Perfluorocarboxylic Acids (PFCAs) via Ion Mobility Mass Spectrometry (IMS-MS) and In-Silico CCS Prediction | **Aurore Schneiders**, Mass Spectrometry Laboratory, MolSys Research Unit, Chemistry Department, University of Liège, Belgium

3.11.P-Th191 Comparison of Electrospray Ionisation with Unispray in Ion Mobility-High-Resolution Mass Spectrometer for Suspect and Non-Target Screening | **Victoria Eriksson**, Department of Physics, Chemistry and Biology (IFM), Linkoping University, Sweden

3.11.P-Th192 Exploring the Integration Benefits of Ion Mobility Mass Spectrometry (IMS) and MS2 Analytical Workflows with MALDI-HRMS for Small Molecule Analysis; Zebrafish Exposed to Xenobiotics as a Case Study | **Eleni Aleiferi**, Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens (NKUA), Greece

Passive Sampling: Monitoring of Environmental Contaminants Fluxes Across Spatial and Temporal Scales | Emma Knight, Sarit Kaserzon, Branislav Vrana

3.12.P-Th193 AQUA-GAPS/MONET-Derived Concentrations and Trends of PFAS across Global Waters | **Branislav Vrana**, RECETOX, Masaryk University, Czech Republic

3.12.P-Th194 Long-term Monitoring of Hazardous Substances in Czech River Ecosystems | **Hedvika Roztocilova**, Czech Hydrometeorological Institute, Czech Republic

3.12.P-Th195 Assessing the Spatial Distribution and Ecological Risks of Freely Dissolved PAHs in Sediments Using the Ex-situ Method in highly Industrialized Bay of South Korea | **Hyeonju Jung**, Gyeongsang National University, "Korea, Republic of"

3.12.P-Th196 Passive Sampling and Non-Targeted Screening for Emerging Contaminants in Multi-Basin: Prioritization, Identification and Quantification | **Iei tong**, China University of Geosciences, China (Mainland)

3.12.P-Th197 Application of passive sampling to identify groundwater pollutants from different sources in irrigated areas | **Vit Kodes**, Czech Hydrometeorological Institute, Czech Republic

3.12.P-Th198 Passive Sampling as seawater monitoring procedure for environmental control at various marine locations throughout Italy | **Laura Caiazzo**, CR ENEA Casaccia, Italy

3.12.P-Th199 Development of Alabaster-Cement composite Disks for DGT | **Yutaka Kameda**, Chiba Institute of Technology, Japan

3.12.P-Th200 EXPOSO-METER: Characterizing of lifelong exposure to environmental mixtures of pollutants (exposome) of high-trophic Arctic marine mammals | **Elisa Rojo-Nieto**, Department of Exposure Science, Helmholtz Centre for Environmental Research (UFZ), Germany

3.12.P-Th201 Pioneering Pollutant Detection: A Novel Passive Sampling Method for Analysing Persistent Organic Pollutants in Antarctic Sea Ice | **Moritz Kielmann**, HAW Hamburg, Germany

3.12.P-Th202 Laboratory performance study on chemical analysis of hydrophobic and hydrophilic compounds in two aquatic passive samplers | **Branislav Vrana**, RECETOX, Masaryk University, Czech Republic

3.12.P-Th203 Determining Polyoxymethylene-Water Partition Coefficients for 67 Polycyclic Aromatic Compounds (PACs) and Applying Them to Determine the Contaminant Availability in Thermally Treated Contaminated Soil | **Ayan Au Musse**, MTM Research Center, orebro University, Sweden

3.12.P-Th204 New Mathematical Tools to Model Accumulation in Diffusion Gradients in Thin-films (DGT) Passive Samplers Deployed in Soils and Sed | **Josep Galceran**, Universitat de Lleida, and AGROTECNIO-CERCA, Spain

3.12.P-Th205 Mobility, Bioavailability and Toxicity of Sediment Contaminants | **Betty Chaumet**, Stockholm University, Sweden

3.12.P-Th206 Atmospheric deposition of airborne microplastics in urban background site in Helsinki | **Markus Sillanpaa**, Finnish Environment Institute (Syke), Finland

3.12.P-Th207 Ambient air contamination: European assessment of pesticide residues in ambient air using passive sampling | **Adelcia Veiga**, Wageningen University and Research (WUR), Netherlands

3.12.P-Th208 Passive Sampling of Persistent Organic Chemicals under Free Tropospheric Conditions | **Baris Yaman**, Unit of Contaminant Chemistry, Department of Environmental Science, Stockholm University, Sweden

3.12.P-Th209 Determination of NO2, SO2 and O3 Levels in Ankara, TurkiYe: Assessment of the Exposure of Primary School Children | **Gonenc Ozarli**, Eskisehir Technical University, Turkiye

Advances in Bioaccumulation Science and Assessment | Leslie Saunders, Maike Habekost, Marco Franco

3.13.P-Th210 Why the bioconcentration factor (BCF) fails for superhydrophobic chemicals | **Andrea Ebert**, Helmholtz Center for Environmental Research (UFZ), Germany

3.13.P-Th211 How does active transport affect toxicokinetics of cationic psychoactive drugs in aquatic invertebrates? | **Johannes Raths**, Eawag - Swiss Federal Institute of Aquatic Science and Technology, Switzerland

3.13.P-Th212 Phenolic compounds in the freshwater environment in South Korea: Occurrence and tissue-specific distribution | **Jeong-Eun Oh**, Pusan National University, "Korea, Republic of"

3.13.P-Th213 Integrated Approaches to Testing and Assessment (IATA) for Bioaccumulation: A Surfactant Case Study | **Kristin Connors**, The Procter and Gamble Company, United States

3.13.P-Th214 Metabolic Activities in Rainbow trout (Oncorhynchus mykiss) S9 Fractions from Liver and Extrahepatic Organs as an Alternative in vitro Ecotoxicity Assessment Approach | **Anett Ullrich**, Primacyt GmbH, Germany

3.13.P-Th215 Can a modified CaCo2 assay support the assessment of secondary poisoning in birds and mammals? | **Maike Habekost**, BASF SE, Agricultural Solutions - Ecotoxicology, Germany

3.13.P-Th216 Legacy and emerging per- and polyfluoroalkyl substances (PFASs) in tropical marine food webs | **Luhua You**, NUS Environmental Research Institute, National University of Singapore, Singapore

3.13.P-Th217 Trophic Transfer of Halogenated Polycyclic Aromatic Hydrocarbons In Benthos From Gyeonggi Bay, South Korea | **Seojoon Yoon**, Seoul National University, "Korea, Republic of"

3.13.P-Th218 R-BIONIC - An R package to build confidence in, and drive understanding of in silico predictions for bioconcentration in ionisable compounds using toxicokinetics | **Bruno Campos**, Unilever, United Kingdom

3.13.P-Th219 Validation and Application of the Multibox AQUWAWEB Model for Trophic Magnification Factors of Volatile Methylsiloxanes | **Jaeshin Kim**, The Dow Chemical Company, United States

3.13.P-Th220 Evaluating Bioaccumulation Potential of Cyclic and Linear Volatile Methylsiloxanes: A Comprehensive Analysis Using the Bioaccumulation Assessment Tool | **Jaeshin Kim**, The Dow Chemical Company, United States

3.13.P-Th221 The Freshwater Amphipod Gammarus Fossarum as European Model Species for HYBIT Application: Review from Literature and Case Study | **Anthony Mathiron**, Biomae, France

3.13.P-Th222 From Plastic Debris to Sea Turtles: A Comparative Analysis of Plastic Additive Profiles | **Ye lim Moon**, Department of Ocean Science, University of Science and Technology, "Korea, Republic of"

3.13.P-Th223 Evaluation of bioaccumulation thresholds for aquatic invertebrates and fish relative to different environmental protection goals | **Leslie Saunders**, Concawe, Belgium

3.13.P-Th224 Advancing Ecotoxicological In Vitro Testing: Comparative Evaluation of Trout Liver Metabolic Assay (OECD TG 319 A & B) and the Hyalella azteca Bioconcentration Test (HYBIT, OECD TG 321) Bioassays | **Karla Johanning**, KJ Scientific, United States

3.13.P-Th225 Integrated Approaches to Testing and Assessment (IATA) for Bioaccumulation: Fragrance Ingredients as Case Studies | **Heike Laue**, Givaudan International SA, Switzerland

3.13.P-Th226 Intelligent Sampling in Standard In Vivo Toxicity Studies to Complement Bioaccumulation Assessments in Mammals - Fragrance Ingredients as Case Studies | **Heike Laue**, Givaudan International SA, Switzerland

3.13.P-Th227 Exploring the potential of bioconcentration, bioaccumulation and trophic transfer of Pesticide Mixtures in Freshwater Ecosystems | **Isabel Campos**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

3.13.P-Th228 Crayfish Behavior in the Shadow of Bioaccumulation of Ionizable and Neutral Pharmaceuticals | **Vladimir Zlabek**, University of South Bohemia in ceske Budejovice, Faculty of Fisheries and Protection of Waters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, Czech Republic

3.13.P-Th230 Hyalella azteca bioconcentration test (OECD 321) - Optimisation and automatisation | **Guillaume Cottin**, L'Oreal Research & Innovation, France

Co-occurrence of Contaminants in Urban and Rural Environments | Nikola Rakonjac, Ravi Naidu, Vera Silva

3.15.P-Th232 Simultaneous Detection of Nanoplastics and Adsorbed Pesticides by Surface-Enhanced Raman Spectroscopy | **Barbara Rani-Borges**, Institute of Chemistry, University of Sao Paulo (USP), Brazil

3.15.P-Th233 Synergistic Effects of Microplastics and Chemical Residues: Disruption of Soil Microbial Communities | **Lama Ramadan**, Netherlands Institute of Ecology (NIOO-KNAW), Royal Netherlands Academy of Arts and Sciences, Netherlands

3.15.P-Th234 Sorption and desorption processes of S-metolachor in soil contaminated with microplastics | **Kassio Mendes**, University of Sao Paulo, Brazil

3.15.P-Th235 Exploring the Potential of Earthworms to Accelerate the Degradation of Biodegradable Plastics in Soils | **Ke Meng**, Wageningen University & Research; Nanjing University, China (Mainland)

3.15.P-Th236 Levels, spatial distributions, and provision of petroleum hydrocarbons and phthalates in sediments from Obhur lagoon, Red Sea coast of Saudi Arabia | **Hattan Alharbi**, King Saud University, Saudi Arabia

3.15.P-Th237 Setting up a national monitoring program to identify ubiquitous and potential harmful substances in soil and sediment in the Netherlands | **Louise van Mourik**, National Institute for Public Health and the Environment (RIVM), Netherlands

3.15.P-Th238 A 600-years pollution history reconstruction using Lake Sediments from Bad Waldsee, Southern Germany | **Thomas Schiedek**, TU Darmstadt, Germany

3.15.P-Th239 Determining the impact of pyrolytic conversion on the exposure and mobility of organic pollutants, metals and nutrients in biochar | **Clara, Kristin Lade, Kostadinova**, Technical University of Denmark, Denmark

3.15.P-Th240 Modelling Chemical Mixtures for Assessing the Impact on Freshwater Biodiversity in Yorkshire, UK | **Martha Villamizar**, University of York, United Kingdom

3.15.P-Th241 Assessing Emerging Contaminants and Biodegradation Potential in the Atlantis Aquifer's Managed Aquifer Recharge Scheme | **Maposholi Mokhethi**, Stellenbosch University, South Africa

3.15.P-Th242 ENCORE: A Probabilistic Framework for ENvironmental CO-exposure and Risk Estimation | **Karel Viaene**, ARCHE Consulting, Belgium

3.15.P-Th243 An indicator for toxic pressure of mixtures in the Dutch Pesticide Atlas | **Joost Lahr**, National Institute of Public Health and the Environment (RIVM), Netherlands

3.15.P-Th244 How PFAS end up in high concentrations in home produced chicken eggs at ambient background levels in soils | **Tessa Pancras**, Arcadis, Netherlands

3.15.P-Th245 Co-occurrence Patterns of Semi-volatile Organic Compounds in Urban and Rural School Environments in the Czech Republic | **Lisa Melymuk**, Masaryk University, Czech Republic

3.15.P-Th246 Soil health and food quality in horticultural systems: A case study in the metropolitan city of Naples | **Ghada Arbi**, Department for Sustainable Food Process, Universit Cattolica del Sacro Cuore, Department of Agricultural Sciences, University of Naples Federico II, Italy

3.15.P-Th247 Aliphatic and cyclic hydrocarbons in urban street dust from Riyadh city, Saudi Arabia: Levels, distribution, and sources | **Hattan Alharbi**, King Saud University, Saudi Arabia

3.15.P-Th248 Measuring and Modelling Deposition and Washoff of Particulate Matter in Tree Leaves in an Urban Forest Ecosystem Gradient | **Hamed Dadkhah-Aghdash**, Environmental Modelling Group, Department of Science and High Technology, University of Insubria, Italy

3.15.P-Th249 Sustainable green roofs for the implementation of the sponge city: Determination of ecotoxicologically safe construction products for green roofs | **Elena Perabo**, Hydrotox - Labor fur okotoxikologie und Gewasserschutz GmbH, Germany

3.15.P-Th250 Road runoff in urban areas: Monitoring and evaluation of a raingarden through one year of sampling | **Elisabeth S. Rodland**, Norwegian Institute for Water Research (NIVA), Norway

3.15.P-Th251 Review of three years environmental pollutant monitoring along railway tracks in Germany | **Sabrina Michael**, German Centre for Rail Traffic Reasearch at the Federal Railway Authority, Germany

Combined Effects of Contaminants and Global Change Stressors in Estuarine and Marine Environments | Ana I Catarino, Mark Mallory, Antonia Praetorius, Gretchen McPhail

3.17.P-Th252 Evaluation of Elevated Temperature Effects on Pollutant Toxicity in Artemia salina | **Danae Patsiou**, Institute of Oceanography, Hellenic Centre for Marine Research (HCMR), Greece

3.17.P-Th253 Toxicological evaluation of plastic and antifouling paint leachates on two life stages of an estuarine copepod: Nitokra spinipes, in the context of global change | **Juliette Grandjean**, Flanders Marine Institute (VLIZ), Belgium

3.17.P-Th254 Combined effects of plastic pollution and global change on a benthic primary consumer, Nitokra spinipes | **Juliette Grandjean**, Flanders Marine Institute (VLIZ), Belgium

3.17.P-Th255 Small microplastics and microlitter components (<100 µm) in the invasive blue crab Callinectes sapidus from a Mediterranean Lagoon | **Beatrice Rosso**, CNR ISP, Italy

3.17.P-Th256 Microplastic and Phthalate-Screening in Wild Mytilus galloprovincialis | **Fabiana Corami**, Institute of Polar Sciences, CNR-ISP, Ca Foscari University of Venice, Italy

3.17.P-Th257 Plastic leachates stimulate feeding responses in sea anemones | **Zoie Diana**, Duke University Marine Laboratory, Nicholas School of the Environment, Duke University, Canada

3.17.P-Th258 Polycyclic Aromatic Hydrocarbons Levels in Corals Exposed to an Oil Spill Simulation: Physiological and Ecological Implications | **Fung Chi Ko**, National Museum of Marine Biology and Aquarium, Taiwan (Greater China)

3.17.P-Th259 Examining export and bioaccumulation of methyl mercury in a wetland impacted by avian guano and water table restoration | **Gretchen McPhail**, Acadia University, Canada

3.17.P-Th260 Methylmercury Concentrations of Freshwater and Coastal Invertebrates from the Jijuktu'kwejk Estuary, Nova Scotia, Canada | **Gretchen McPhail**, Department of Earth and Environmental Science, Acadia University, Canada

3.17.P-Th261 Progressing Short-Term Methods to Estimate Chronic Marine Toxicity for Regulatory Use in the North-East Atlantic Region | **Kirit Wadhia**, NOV, United Kingdom

3.17.P-Th262 Occurrence of OPEs and PFAS in surface sediments from the French Atlantic Coast and Loire Estuary | **Javier Castro-Jimenez**, IFREMER, Chemical Contamination of Marine Ecosystems (CCEM), France

3.17.P-Th263 Fate and Behaviour of Contaminants in Estuarine Systems: An Example from Southampton Water, UK | **Jana-Sophie Appelt**, University of Southampton, United Kingdom

3.17.P-Th264 Prioritisation of CECs in the Marine Environment Using Hazard-Based Filtering and Ranking Approaches | **Putu Yolanda Yulikayani**, Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium

3.17.P-Th265 A paleolimnological assessment of environmental degradation and legacy pollutants in a back-barrier lagoon at Pictou Landing, Nova Scotia, Canada | **Ian Spooner**, Acadia University, Canada

Understanding the Complexity of Tire Particles and Associated Chemicals: Environmental Monitoring, Toxicological Effects and Strategies for Mitigation | Farhan Khan, Thorsten Huffer, Elisabeth Rødland, Nicola Montemurro

3.21.P-Th266 Spatial and Temporal Distribution of Tire Particles and Related Additives in Freshwater Ecosystems: Insights From a Swiss Pilot Study | **Thibault Masset**, EPFL, Switzerland

3.21.P-Th267 From Tires to Tributaries: Suspect Screening of Rubber-Based Contaminants in the Tagus River (Spain) | **Juan Escobar Arnanz**, CIEMAT, Spain

3.21.P-Th268 Seasonal Variation of Tire and Road Wear Particles in Urban Particulate Matter | **Tatu Martinmaki**, Finnish Environment Institute (Syke), Finland

3.21.P-Th269 Tire and Road Wear Particles in Urban Rivers and Coastal Marine Environments | **Andrew Gray**, University of California, Riverside, United States

3.21.P-Th270 Identification of Chemical Hazards in Tire Tread with HPTLC-Based Effect-Directed Analysis | **Alan Bergmann**, Ecotox Centre, Switzerland

3.21.P-Th271 Degradation Rates and Ageing Effects of UV on Tyre and Road Wear Particles | **Luke Parker**, TNO, Netherlands

3.21.P-Th272 Unveiling the Impact of UV-Driven Advanced Oxidation: A Comprehensive Study on the Physical and Chemical Transformation of Tire-Derived Microplastics in Aquatic Environments | **Dilraj Surendran**, Tokyo Metropolitan University, India

3.21.P-Th273 Influence of Riverine Salt Gradients on the Adsorption of Trace Elements by Tire and Road Wear Particles: Experimental Approach | **Angus Rocha Vogel**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.21.P-Th274 Elastomers or Zinc? A Comparison Between Elemental and Organic Analysis for the Detection and Quantification of TWPs | **Kieran Evans**, University of Edinburgh, United Kingdom

3.21.P-Th275 Influence of repeated leaching of Cryogenically Milled Tyre Tread (CMTT) and Tyre and Road Wear Particles (TRWP) on the dissolved concentration of tyre derived chemicals | **Harriet Byrne**, Helmholtz Center for Environmental Research (UFZ), Germany

3.21.P-Th276 Legacy of Chemical Pollution from an Underwater Tire Dump in Alver Kommune, Norway | **Farhan Khan**, NORCE, Norway

3.21.P-Th277 Characterization of Deposited Inhalable Fraction From Recycled Rubber Flooring Degradation | **Daniel Rozua**, Institute of Environmental Assessment and Water Research - Spanish Council for Scientific Research (IDAEA-CSIC), Spain

3.21.P-Th278 Human Exposure Assessment to Tire-Related Chemicals through Urine and Silicone Wristbands: Method Development | **Francesca De Angelis**, IDAEA-CSIC, Spain

3.21.P-Th279 May saprophytic fungi help in the rehabilitation of soils impacted by tire wear particles? - A preliminary study | **Isabel Lopes**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

3.21.P-Th280 Ecotoxicological impacts of tire wear particles | **Barbara Gepp**, University of Applied Sciences Technikum Wien, Austria

3.21.P-Th281 Deciphering the Estrogenic Activity of Aqueous Leachates from Elastomers by Effect-Directed Analysis (EDA) | **Rebecca Sussmuth**, Federal Institute of Hydrology (BfG), Germany

3.21.P-Th282 Sorption Dynamics of Tire-Derived Compounds to Soils is a Determinant Factor for Plant Uptake | **Valerie Wilkeit**, University of Vienna, Austria

3.21.P-Th283 Monitoring of Tire-derived Compounds in Commercial Leafy Vegetables and Associated Dietary Exposure | **Anya Sherman**, University of Vienna, Centre for Microbiology and Environmental Systems Science, Department of Environmental Geosciences EDGE, Austria

3.21.P-Th284 Toxicity of Plastic Additives to Daphnia magna and Lemna minor and the Temporal Trends of Their Leaching from Microplastics | **Onni Sirkia**, University of Eastern Finland, Finland

3.21.P-Th285 Toxicity of tyre wear particle leachates to lichens | **Gintare Sujetoviene**, Vytautas Magnus University, Lithuania

3.21.P-Th286 Toxic effects of tire wear particle leachate on survival, detoxification, antioxidant system, and energy metabolism of two marine zooplankton | **Young-Mi Lee**, Sangmyung University, "Korea, Republic of"

3.21.P-Th287 Adverse Effects of Tyre Particles on Estuarine Invertebrates and Microbial Communities | **Matthew Cole**, Plymouth Marine Laboratory, United Kingdom

3.21.P-Th288 Assessment of the Toxicity of Tire Wear Particles and Their Leachates Using a Cell-based Toolbox from Rainbow Trout (Oncorhynchus mykiss) | **Anna Toso**, Department Environmental Toxicology, Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland

3.21.P-Th289 Integrating Transcriptomic Points of Departure (tPODs) with Bio- and Chemical Analyses for Hazard Assessment of Road Runoff in Zebrafish | **Markus Schmitz**, Dpt. Evolutionary Ecology and Environmental Toxicology (E3T), Goethe University, Germany

3.21.P-Th290 CMTT exposed periphyton induces bottom-up food chain effects in the freshwater grazer Physa acuta | **Sara Goncalves**, Department Environmental Toxicology, Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland

3.21.P-Th291 Evaluating the Effects of 6PPD-Quinone Exposure on Early-Life Stage Rainbow Trout Transcriptome | **Catherine Roberts**, University of Saskatchewan Toxicology Centre, Canada

3.21.P-Th292 Transcriptomic Disruption of Northern Leopard Frog Tadpoles (Lithobates pipiens) by 6PPD-quinone | **Catherine Roberts**, University of Saskatchewan Toxicology Centre, Canada

3.21.P-Th293 Toxicokinetics and Biotransformation Products of 6PPD-Quinone Using In Vitro Substrate Depletion Assays in Salmonids | **Matthew Schultz**, University of Saskatchewan, Canada

3.21.P-Th294 Assessing epithelial membrane integrity and permeability in rainbow trout RTgill-W1 and Atlantic salmon ASG-10 gill cells exposed to 6PPD-quinone | **Chantel De Lange**, Toxicology Centre, University of Saskatchewan, Saskatoon, SK, Canada

3.21.P-Th295 A broad approach to understand how 6PPD-q, combined with phenanthrene, affects thermal tolerance, hematology, and omics in three salmonid species | **Andreas Eriksson**, University of Lethbridge, Canada

3.21.P-Th296 Assessing ecological impacts of 6PPD-Q in aquatic ecosystem using mesocosm: focusing on the fish toxicity | **Yooeun Chae**, Korea Institute of Toxicology (KIT), "Korea, Republic of"

3.21.P-Th297 Sperm genotoxicity of the rubber tire oxidant by-product, 6PPD-quinone | **Marina Botelho**, Universidade de Campinas, Brazil

3.21.P-Th298 Assessment of adsorption and leaching potential of 3H-6PPD quinone in soils | **Ji-Young An**, korea institute of toxicology (KIT), "Korea, Republic of"

3.21.P-Th299 Permeability and Toxicity of Tire-Derived PPDs and Their Transformation Products in Human Gut Cells | **Göksu Celik**, University of Vienna, Centre for Microbiology and Environmental Systems Science, Division of Environmental Geosciences, Austria

POSTER AREA 2 (Hall X3, Level -2)

Plastics in Terrestrial Ecosystems: Balancing Applications With Impacts, Fate and Hazards | Denise Mitrano, Elma Lahive, Salla Selonen, Anita Jemec Kokalj

3.23.P-Th315 The impact of microplastics on nematode Caenorhabditis elegans | **Anna Ireinova**, Masaryk University, Czech Republic

3.23.P-Th316 Behavioural response of terrestrial crustaceans to agricultural microplastics | **Anita Jemec Kokalj**, University of Ljubljana, Biotechnical Faculty, Department of Biology, Slovenia

3.23.P-Th317 Soil litter feeders impacted by low concentrations of microplastics. The case of earthworms, ants and slugs in the MINAGRIS PROJECT | **Esperanza Huerta Lwanga**, Wageningen University, Netherlands

3.23.P-Th319 Microplastics derived from agricultural mulch films indirectly affect terrestrial organisms and microbial activity due to altered soil properties | **Spela Zeleznikar**, University of Ljubljana, Biotechnical Faculty, Department of Agronomy, Slovenia

3.23.P-Th320 Sublethal Effects of Polypropylene Agricultural Microplastics on Eisenia Andrei | **Vili Saartama**, SYKE, Finland

3.23.P-Th321 First Assessment of the Impact of Plastics on Soil Communities: A case study in France | **Angeline Juif**, UMR CNRS 6553 ECOBIO [Ecosyst mes, biodiversite, evolution], Universite de Rennes, France

3.23.P-Th322 Degradation Behaviour of a Seed Coating in an OECD TG 307 Simulation Test and Quantification with Pyrolysis-GC/MS and FFF-MALS | **Julia Peters**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

3.23.P-Th323 Microplastic Generation and Changes in Functional Chemistry Under the Combined Effects of UV and Thermal Oxidation with Abrasion | **Jorge Gonzalez-Estrella**, Oklahoma State University, United States

3.23.P-Th324 Optimizing Microplastic Monitoring Techniques using an Experimental Mass Based Approach | **Haley Johnson**, University of California, Riverside, United States

3.23.P-Th325 Improving Controlled Separation of HDPE and PP via Electron Beam Technology for Detection of Microplastics | **Oliver Kretschmar**, University of Applied Sciences Dresden (HTW Dresden), Germany

3.23.P-Th326 Abundance and Characteristics of Anthropogenic Litter Along the Tanzanian Shores of the African Great Lakes: Volunteer Involvement, Outreach and Stakeholder Engagement | **Farhan Khan**, NORCE, Norway

3.23.P-Th327 Reducing microplastic emissions from aquaculture through optimisation of infrastructure and cleaning technologies | **Andy M. Booth**, SINTEF Ocean, Norway

3.23.P-Th328 Assessing the Microplastic Contribution from Sewage Sludge to Agricultural Soils with Regular Sludge Application | **Thilakshani Atugoda**, Department of Geography, University of Exeter, United Kingdom

3.23.P-Th329 Ageing Conditions Alter the Effects of Leachates from Tire Wear Particles on Soil | **Shin Woong Kim**, Center for Ecotoxicology and Environmental Future Research, Korea Institute of Toxicology, "Korea, Republic of"

3.23.P-Th330 Is "compostable" also "eco-friendly" - The fate and effects of compostable plastic bags after composting | **Julia Moller**, Wageningen University and Research (WUR), Netherlands

3.23.P-Th331 Towards Implementation of an Environmental Risk Assessment Framework for Microplastics in the Dutch Policy Context | **Elmer Swart**, RIVM, Netherlands

3.23.P-Th332 Ecological risk assessment framework for microplastics in agricultural soils amended with biosolids | **Asta Poulsen**, Roskilde University, Denmark

3.23.P-Th333 Investigating Phytoremediation Potential via Retention Modules for Microplastic Contamination in Soils | **Pauline Seidel**, HTWD, Germany

3.23.P-Th334 Understanding plasticizers in German soil | **Simon Zerulla**, German Environment Agency, Department Water and Soil, Germany

3.23.P-Th335 Interactions between microplastics, heavy metal pollution and antibiotic resistant Pseudomonas aeruginosa in sewage sludge: Impacts on the safety of agricultural soils | **Bence Prikler**, Eurofins Analytical Services Hungary Ltd., Hungary

3.23.P-Th336 Investigating the Impacts of Extended Leaching from Virgin and UV-Aged Conventional and Compostable Plastics on Freshwater Organisms: A Focus on Inorganic Additives | **Stefano Carnati**, Department of Science and High Technology, University of Insubria, Italy

3.23.P-Th337 Seasonal distribution of small microplastics and microlitter components < 100 µm in the inlet of a drinking water treatment plant | **Fabiana Corami**, Institute of Polar Sciences, National Research Council (ISP-CNR), Italy

Advances in Risk Assessment for Plant Protection Products With a Non-conventional Mode-Of-Action | Zisis Vryzas, Anne Steenbergh, Dimitrios Karpouzas, Athanasios Dalakouras

4.13.P-Th338 An RT-qPCR-based protocol for the detection and quantification of dsRNA pesticides | **Venetia Koidou**, ELGO-DIMITRA, Institute of Industrial and Forage Crops, Larissa, Greece and University of Thessaly, Department of Biochemistry and Biotechnology, Larissa, Greece, Greece

4.13.P-Th339 Microbial Effects on Honeybees: Impact of the Use of Pollen in the Diet of Honeybee's Survival in a 10-day Laboratory Chronic Oral Toxicity Test Prolonged to 30 Days | **Benedetta Ponti**, LabAnalysis Life Science, Italy

4.13.P-Th340 Risk assessment innovation for low-risk pesticides with Caenorhabditis elegans as ecotoxicological model | **Xupeng Yu**, Wageningen University, Netherlands

4.13.P-Th341 Environmental risk assessment of RNAi-based plant protection - A literature review | **Udo Hommen**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

4.13.P-Th342 Transcriptome analysis of RNAi spray effects on the aquatic invertebrate Daphnia magna as a non-target model organism | **Katharina Knapp**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

4.13.P-Th343 Impact of dsRNA-based Plant Protection Products on Aquatic Organisms | **Judith Epping**, Aquatic Ecology and Water Quality Management Group, Wageningen University, Netherlands

4.13.P-Th344 Environmental Risk Assessment of RNA Interference Based Pesticides | **Hannah-Philine Dey**, German Environment Agency (UBA); Applied Ecology Division, Fraunhofer IME; Goethe University Frankfurt, Germany

4.13.P-Th345 Assessing the toxicity of orange essential oil (d-limonene) on soil-dwelling springtails (Folsomia candida) | **Anna Huang**, Wageningen Environmental Research, Netherlands

Pushing the Limits: Incorporating Absolute Limits in Life Cycle Assessment | Andrea Paulillo, Anders Bjørn, Valeria De Laurentiis, Esther Sanye-Mengual

5.11.P-Th346 Rapid evidence assessments to increase transparency of the environmental profile of agricultural practices to inform sustainability improvements and environmental protection goals | **Christian Bogen**, Bayer AG, Germany

5.11.P-Th347 Circular Nutrient Management And Triple Planetary Crisis | **Raghuram Nandula**, Centre for Sustainable Nitrogen and Nutrient Management, Guru Gobind Singh Indraprastha University and President, Sustainable India Trust, New Delhi, India

5.11.P-Th348 Assessing impacts on biodiversity on an Aquaculture portfolio | **Anne Asselin**, Sayari, France

5.11.P-Th349 Integrated Approaches to Addressing Sustainability, Quality, and Safety in Seafood Supply Chains | **Sandra Ceballos-Santos**, Escola Superior de ComerC International (ESCI), Universitat Pompeu Fabra (UPF), Spain

5.11.P-Th350 Integrating Two New Biodiversity Impact Pathways Into Life Cycle Impact Assessment of Food Products | **Yohan Lanier**, Sayari ; Ecole Nationale des Ponts & Chaussees, France

5.11.P-Th351 Environmental Footprint Method Aligned Product Category Rules for Food Products | **Sanna Hietala**, Natural Resources Institute Finland (Luke), Finland

5.11.P-Th352 Comparing results for Life Cycle Assessment and Ecosystem Services - Exemplified by Dairy Production | **Martin Seiringer**, BOKU University, Austria

5.11.P-Th353 A sustainable transportation system will require sustainable dietary patterns and food systems: focus on cycling life-cycle impacts including additional calories intakes and regional diet evolutions | **Anne de Bortoli**, CIRAIG, Polytechnique Montreal, Canada

5.11.P-Th354 Replacing Meat and Dairy with Plant-Based Options in Spain Could Reduce Environmental Human Health Damage by a Third While Promoting More Nutritionally Adequate Diets | **Montserrat Nunez**, IRTA, Spain

5.11.P-Th355 Life Cycle Assessment of an Innovative Agrivoltaic Apple System and Comparison with Conventional Apple Production | **Theresa Krexner**, BOKU University, Austria

5.11.P-Th356 Environmental sustainability of diets for fish and poultry production and links with animal health | **Paula Quinteiro**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

5.11.P-Th357 Framework to conduct a life cycle sustainability assessment for insect-derived products | **Ana Dias**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

5.11.P-Th358 Insect Frass as a sustainable alternative to conventional fertilizers: Enhancing Soil Health and Agricultural Productivity | **Ana Rodrigues**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

5.11.P-Th359 Life Cycle Assessment of insect-derived frass: perspectives from a literature review | **Ana Fonseca**, Centre for Environmental and Marine Studies (CESAM) & Department of Environment and Planning, University of Aveiro, Portugal

5.11.P-Th360 Toxicokinetics of Polycyclic Aromatic Hydrocarbons (PAHs) Accumulation in Hermetia illucens | **Diogo Filipe Nunes Cardoso**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

5.11.P-Th361 Crickets and metals: Uptake and elimination of four metals in the house cricket Acheta domesticus | **Jose Pinto**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

5.11.P-Th362 Understanding contaminant safety across edible insect species: A step toward sustainable food systems | **Diogo N. Cardoso**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

5.11.P-Th363 Chemicals of Concern in Food Packaging: A Matter of Sustainability | **Jane Muncke**, Food Packaging Forum, Switzerland

5.11.P-Th364 Exposure to micro- and nanoplastics: Is food packaging a source? | **Jane Muncke**, Food Packaging Forum, Switzerland

5.11.P-Th365 Circularity in the Food System: Exploring the Sustainability of Alternative Uses of Whey Side Streams | **John Hader**, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

5.11.P-Th366 Upcycling agricultural and industrial side-flows for food development: A risk assessment approach | **Georgios Giovanoulis**, Swedish Environmental Research Institute (IVL), Sweden

5.11.P-Th367 RNAi: A Targeted Pesticide Technology for a More Sustainable Agricultural System | **Laurent Mezin**, GreenLight Biosciences, United States

From Nanomaterials to Advanced Materials: Challenges and Progress in Research, Industrial Application and Regulation | Wim De Coen, Kai Paul, Richard Cross, Wendel Wohlleben

6.10.P-Th368 Bioaccumulation of silver nanoparticles (AgNPs) induces autophagic dysfunction in adult intestinal stem cells to accelerate functional aging | **Zi-Yu Chen**, Department of Environmental and Occupational Health Medical College, National Cheng Kung University, Taiwan (Greater China)

6.10.P-Th369 Harmonisation of Daphnia sp. standardised protocols: Assessment of nanomaterials's behaviour | **Fabio Yu Chen**, Department of Biology, University of Aveiro, Portugal

6.10.P-Th370 Effects of Naproxen in Soluble vs. Nanostructured Form on the Zebrafish Danio rerio | **Fabiana Vieira**, CESAM Centre for Environmental and Marine Studies and Department of Biology and CICECO - Aveiro Institute of Materials and DEMaC Department of Materials and Ceramics Engineering,University of Aveiro, Portugal

6.10.P-Th371 Holistic Assessment of a Novel Antifouling Nanoadditive Based on a Natural Compound | **Roberto Martins**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

6.10.P-Th372 An assessment of the toxicity of nanogold containing SARS Cov-2 rapid test kits on Daphnia pulex | **RM Malatsi**, University of Johannesburg, South Africa

6.10.P-Th373 Health and Environmental Issues Related To Advanced Materials: Implementation of Safe and Sustainable by Design framework from SUNSHINE to SUNRISE project | **Andrea Brunelli**, Ca' Foscari University of Venice, Italy

6.10.P-Th374 A Foresight Process To Identify Upcoming And Emerging Advanced Materials And Chemicals To Support Regulatory Preparedness | **Cyrille Durand**, TEMAS Solutions GmbH, Switzerland

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6.10.P-Th376 Design, Tiered Assessment, Benchmarking and Re-design of Advanced Materials: Two HARMLESS Case Studies | **Wendel Wohlleben**, BASF SE, Germany

6.10.P-Th377 Advanced materials (nanoagrochemicals) in the Triple Planetary Crisis perspective: Impact of temperature change and pollution on common soil invertebrates | **Monica Amorim**, University of Aveiro, Portugal

6.10.P-Th378 Sustainable Nano Strategies for Water Remediation - Estarreja as a Case Study | **Patricia Silva**, Centre for Environmental and Marine Studies (CESAM) & Department of Biology, University of Aveiro, Portugal

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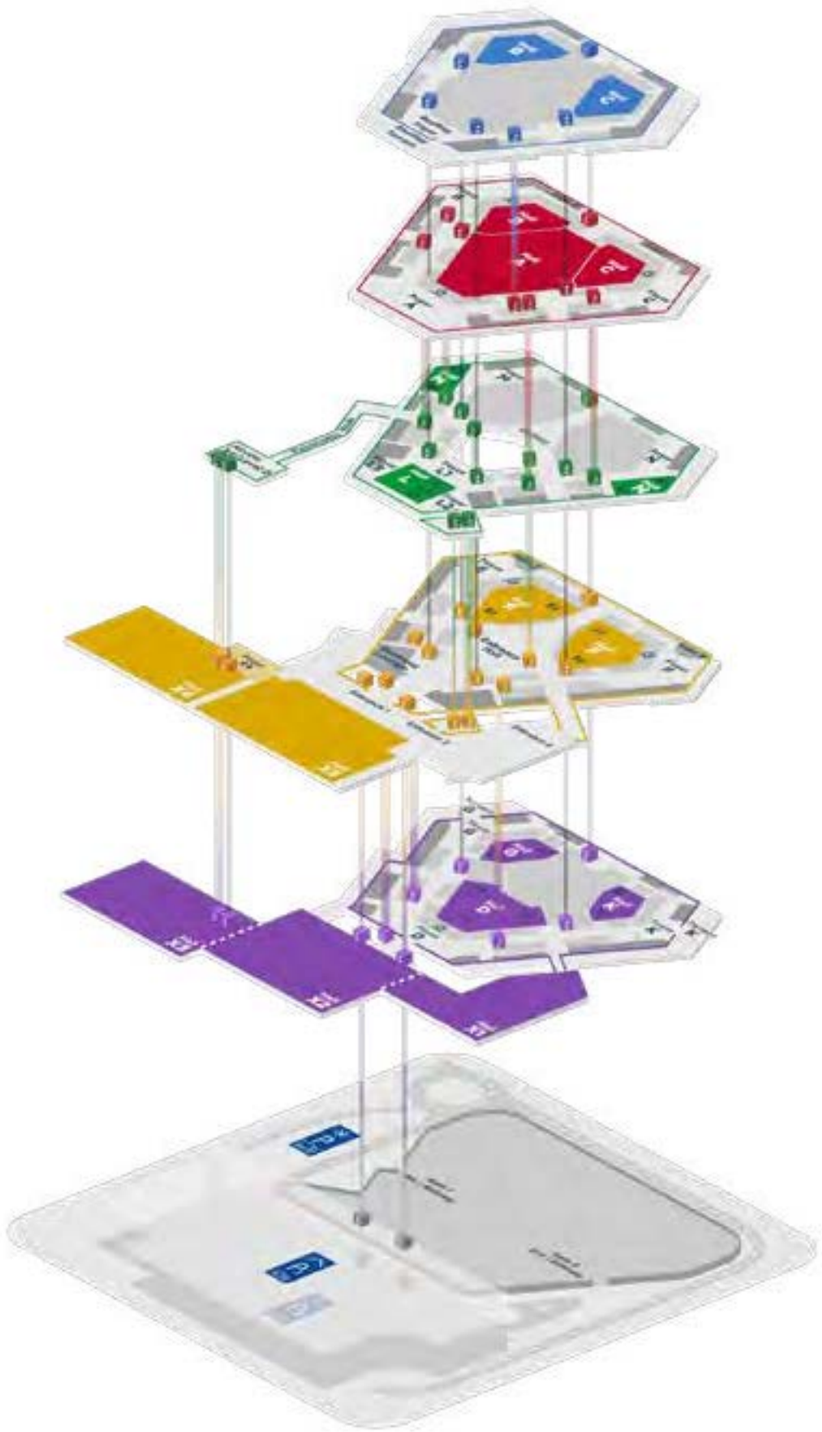
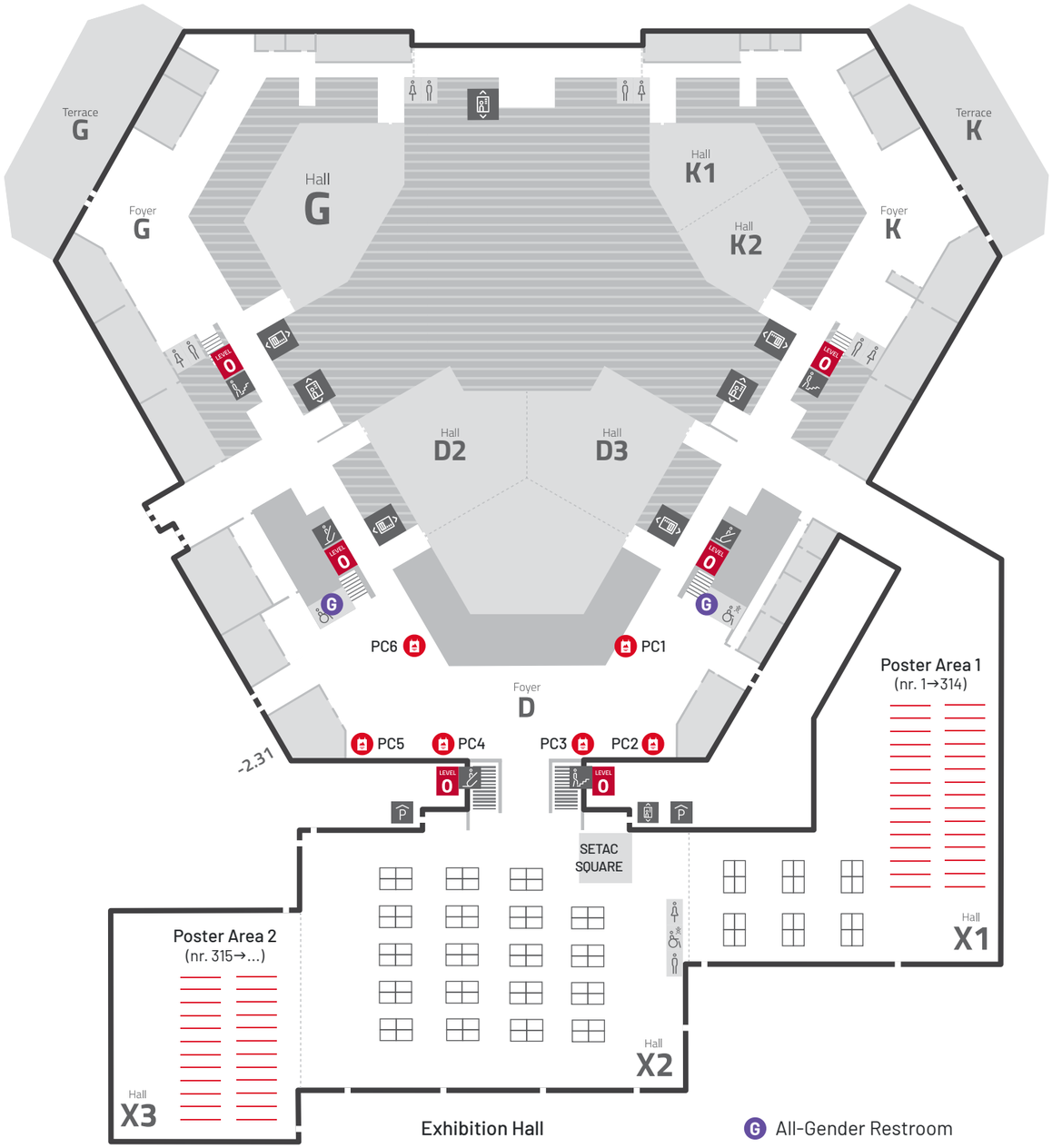


Level -2



G All-Gender Restroom

Poster Corners

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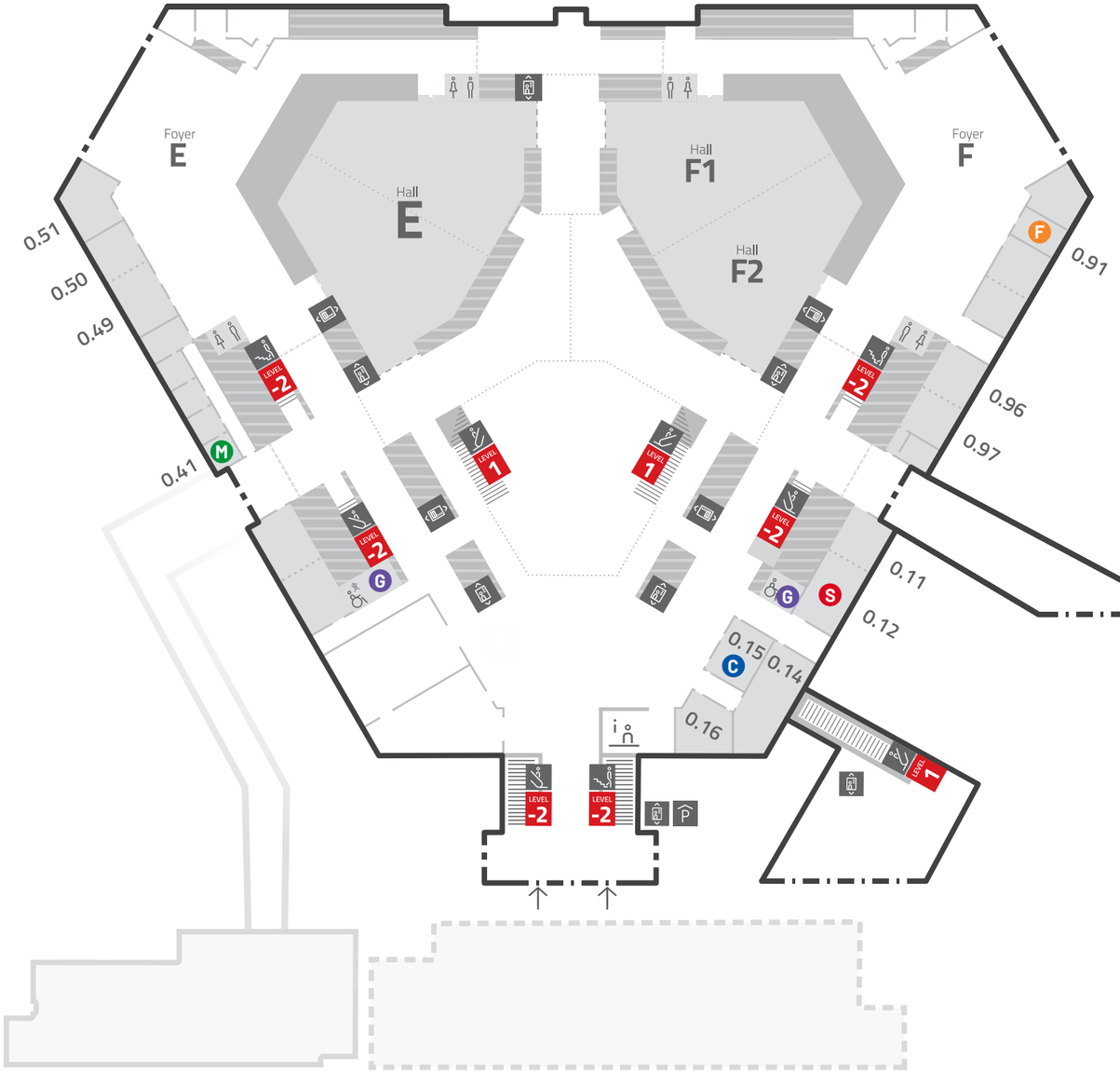

F Family Room (Mon-Wed)

G All-Gender Restroom

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Floor Plan

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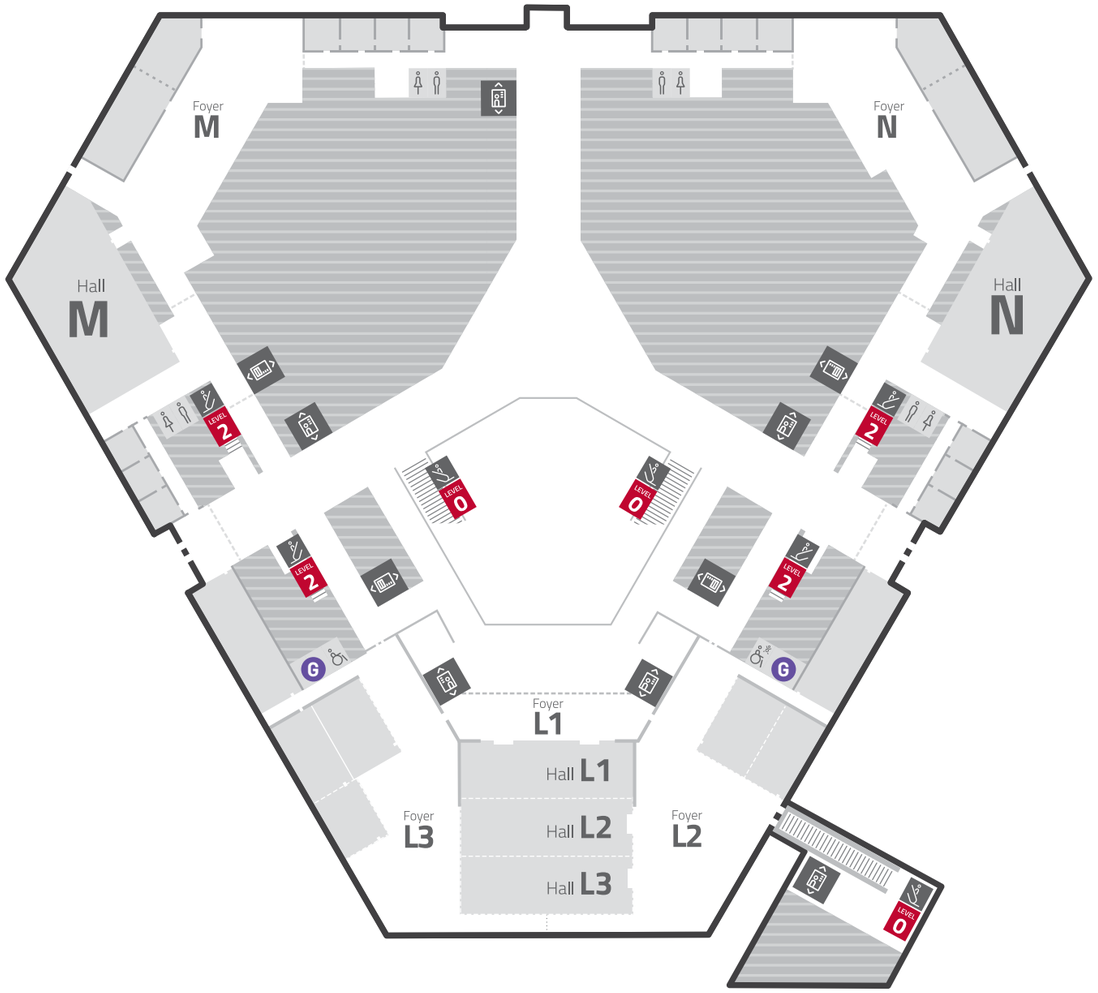

G All-Gender Restroom

Notes

Notes

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SETAC provides open, safe forums for the purpose of exchanging ideas and information on the study, analysis and solution of environmental problems, the management and regulation of natural resources, promotion of scientific research and the development of strong environmental education.

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