PROGRAMME BOOK

SETAC EUROPE 34TH ANNUAL MEETING

5–9 MAY 2024 | SEVILLE, SPAIN

SCIENCE-BASED SOLUTIONS IN TIMES OF CRISIS: INTEGRATING SCIENCE AND POLICY FOR ENVIRONMENTAL CHALLENGES.

Welcome to Seville

It is a real pleasure to welcome you to the SETAC Europe 34th Annual Meeting. After 14 years, our community returns to the capital of Andalusia, representing a special place for its traditions, cultural heritage, architecture and monuments. Located in the most populated region in Spain, with a high vulnerability to climate change and, simultaneously, a rich biodiversity and abundant natural resources, including areas of important ecological relevance for preservation, Seville is an exceptional place for assessing environmental challenges and collaborating on scientific solutions.

With approximately 3,000 participants, this meeting is set to be the largest in SETAC Europe's three-decade history of successful annual meetings, and we did our best to make this meeting reach the traditional high level of excellence. This year's meeting theme, "Science-based Solutions in Times of Crisis: Integrating Science and Policy for Environmental Challenges," aims to highlight the demand for new science-based solutions to many of the challenges lying ahead of us, ensuring long-term environmental quality in our post-pandemic world. With a programme ranging from nearly 500 platform presentations and over 2,300 posters, this science-packed week offers an abundance of opportunities to disseminate, discuss and discover science from around the world. Among these topics, seven special sessions are planned, highlighting several science and policy issues in connection with the European Green Deal's Chemicals Strategy for Sustainability, the United Nations Environment Programme for sound management of chemicals, waste and pollution prevention, and the consequences of military chemical pollution. In addition, more scientifically focused special sessions will cover the low-level, long-term chemical exposure in new ecotoxicological endpoints and the mechanistic effect modeling in environmental risk assessment. To top it all off, esteemed plenaries will address pressing issues related to water scarcity, risk assessment and management of chemicals, and research integrity.

In addition, we recommend that you take some time to enjoy the city of Seville during spring, which is probably the best season to visit. Experience the delightful scent of orange blossom in the air, explore the "Giralda" - an ancient mosque minaret converted into a 100m high bell tower, which is an excellent representation of the circular economy concept, visit the Cathedral and the Plaza de España, try out delicious food like "tapas," and most importantly, the best of all of this: meet our people.

We would like to thank the SETAC Europe office, the Programme Committee and all the volunteers for their invaluable support in making this meeting a success. Lastly, we thank the meeting sponsors and exhibitors as well as the City of Seville and the Spanish National Research Council (CSIC) for supporting this meeting.

We hope you enjoy your stay!

Jose Julio Ortega Calvo
Chair, Programme Committee

Julian Blasco
Chair, Programme Committee

Content

WIFI

Network: SETAC
Password: setac-2024

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 Barbara Koelman at barbara.koelman@setac.org.

Welcome from SETAC Europe

Dear colleagues and friends,

It is our pleasure and honour to welcome you to the SETAC Europe 34th Annual Meeting this year in beautiful and exciting Seville, a city buzzing with history and culture. The perfect setting for a deep reflection on how to address "Environmental Quality through Science".

We must start by giving our heartfelt thanks to all the people involved in the organisation of what is another record-breaking SETAC Europe Annual Meeting with some 3,000 delegates gathering for an exciting week filled with science. Thank you to Jose Julio Ortega and Julian Blasco, the SETAC staff, the programme committees, session chairs, presenters, sponsors, exhibitors and all attendees for your time and dedication in creating what is a very exciting programme, packed with cutting-edge science, smart solutions and applications.

Although SETAC is mostly known for its great meetings, it is much more than just that! It's a scientific society that operates throughout the whole year, providing plenty of opportunities for engagement. SETAC offers a vast network of some 20,000 environmental scientists across the world to collaborate with to advance environmental science and management. You are cordially invited to check out our new website and stay tuned on the latest developments in the science corner or join us in one of the numerous activities that are organised throughout the year.

This year, the meeting's overarching theme is "Science-Based Solutions in Times of Crisis: Integrating Science and Policy for Environmental Challenges." During this week, we will hear about several science and policy issues in connection with the European Green Deal's Chemicals Strategy for Sustainability, including its Safe and Sustainable by Design ambitions, the United Nations Environment Programme for sound management of chemicals, waste and pollution prevention, amongst many others. We invite you to step out of your comfort zone, think beyond the borders of your own bubble and seek connections with other disciplines, cultures, interests and opinions. We invite you to broaden your scope for an integrated vision of Environmental Quality through Science® and make a positive impact on the planet we borrow from the next generation.

We both look forward to meeting "old" friends and making new ones. Personally, we can't wait to have exciting discussions about science, policy, and shared goals to fuel up inspiration for our next steps for a sustainable future.

Have a nice week!

Bruno Campos
SETAC Europe President

Bart Bosveld
SETAC Europe Executive Director

Meeting Sponsors

Thank you to our meeting supporters for their generous contributions!

Agilent

BATTELLE

enhesa.

Environmental Science & Technology Letters. Engineering. Water

SETAC Journals ET&C • IEAM

Laboratoire WatchFrog

Prince Sultan Bin Abdulaziz International Prize for Water

syngenta

Programme Committee and Staff

Programme Committee

- **Jose Julio Ortega-Calvo (Chair)**, Institute of Natural Resources and Agrobiology of Seville (IRNAS-CSIC), Spain
- **Julián Blasco (Chair)**, Institute of Marine Sciences of Andalusia (ICMAN-CSIC), Spain
- Andreu Rico, University of Valencia, Spain
- Anu Kapanen, ECHA, Finland
- Arnd Weyers, Bayer AG - Crop Science Division, Germany
- Björn Scholz-Starke, Darwin Statistics, Germany
- Carmen Fernandez López, Defence University Centre, University of Cartagena, Spain
- Damia Barcelo, ICRA, Spain
- Despo Fatta-Kassinos, University of Cyprus, Cyprus
- Dieter Hennecke, Fraunhover Institute for Molecular Biology and Applied Ecology, Germany
- Eleni Vaiopoulou, European Petroleum Refiners Association, Belgium
- Frederic Coulon, Cranfield University, UK
- Hans Sanderson, Aarhus University, Denmark
- Henner Hollert, Goethe University Frankfurt, Germany
- Ilaria Corsi, University of Siena, Italy
- Isabel Muñoz, University of Barcelona, Spain
- John Parsons, University of Amsterdam, Netherlands
- Kai Paul, Blue Frog Scientific Ltd , UK
- Kees van Gestel, Vrije Universiteit Amsterdam, Netherlands
- Kristin Schirmer, EAWAG, Switzerland
- Marie-Hélène Enrici, Solvay, France
- Mark Egsmose, EFSA, Italy
- Nicole Bandow, German Environment Agency, Germany
- Pernille Thorbek, BASF SE, Germany
- Roland Hischier, Empa, Switzerland
- Rosalie van Zelm, Radboud University, Netherlands

SETAC Staff

Bart Bosveld
SETAC Global and SETAC Europe Executive Director

Tamar Schlekat
SETAC North America Executive Director

Sabine Barrett

Rebecca Bundschuh

Helen Callow

Kelly Derom

Roel Evens

Donna Frankel

Winston Fru

Filip Gunst

Dusty Kennedy

Barbara Koelman

Marcy LeBlanc

Jen Lynch

Erin Nelson

Nikki Mayo

Terresa Murdoch

Anne Ezra

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 Barbara Koelman at barbara.koelman@setac.org.

Agilent

american cleaning institute®

BAYER

BHP

Chevron

COLGATE-PALMOLIVE

CORTEVA agriscience

Exponent

ExxonMobil

GPC Global Product Compliance

GSC GLOBAL SILICONES COUNCIL

HESI

ICCS INTERNATIONAL COLLABORATION ON COSMETICS SAFETY

International Copper Association Copper Alliance

ZINC international zinc association

JRF GLOBAL

NIPERA NICKEL HEALTH AND ENVIRONMENTAL SCIENCES

Personal Care Products Council

P&G

RioTinto

RIFM

SCJohnson A family company at work for a better world

syngenta

Unilever

Waters THE SCIENCE OF WHAT'S POSSIBLE.™

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 will receive a certificate of attendance (to be downloaded). If you are a presenter, you will receive an email with a link to download your presentation certificate shortly after the meeting.

Cloakroom

The cloakroom is located outside, next to the check-in/registration area. Participants can store their personal items for free. SETAC is not responsible for any loss.

Opening hours (CEST):

Sunday	08:00 – 21:00
Monday – Wednesday	08:30 – 18:30
Thursday	08:30 – 15:00

Emergencies and First Aid

If you need medical attention, you can visit the medical service offices (located next to the exhibition on floor 1) or visit the information desk. For emergencies, call 112.

Lost and Found

Please visit the information desk for lost and found items.

Registration/Information Desk

Our staff and volunteers are happy to help if you have any queries.

Opening hours (CEST):

Sunday	08:00 – 20:30
Monday – Wednesday	09:00 – 18:00
Thursday	09:00 – 15:00

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.

Exhibition Floor Plan

Exhibitors List

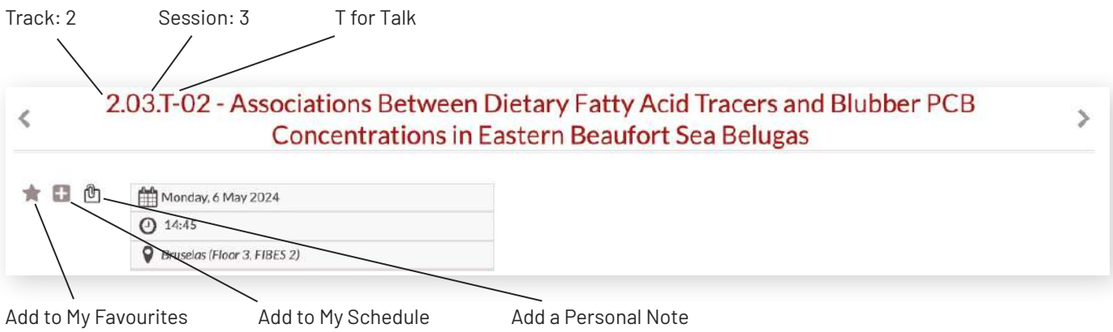
BOOTH	EXHIBITOR
245	Agilent
218	AgroChemex Environmental Ltd
230	AnaPath Services GmbH
251	Aqualytical
249	aQuaTox-Solutions GmbH
244	Arcadis
217	ARCHE Consulting
239 & 240	Bayer
117	Biobide
219	BioChem agrar GmbH
209	Blue Frog Scientific
119	Bruker Applied Mass Spectrometry
201	Cambridge Environmental Assessment (CEA)
237	Cambridge Isotope Laboratories
204	CEM Analytical Services Limited
118	Chiron
206	CloverStrategy Lda
236	Concawe
107	Corteva
110	ECT2
220	Enviresearch Ltd
247	Eurofins
212	European Chemicals Agency (ECHA)
202	Experimental Pathology Laboratories, Inc.
120	Exponent
246	Fera Science
115	gaiac
238	GG BioTech Design GmbH
241	Global Product Compliance
216	Hyg – Environmental Hygiene & Toxicology
203	ibacon
250	ICCS
221 & 222	IES
112	JRF Global
114	KREATiS
124	LabAnalysis life Science

BOOTH	EXHIBITOR
102	Labcorp
248	Lablogic
122	Laboratoire des Pyrenées et des Landes
233	Laboratoire Watchfrog
214	Loligo Systems
231	Łukasiewicz - IPO Branch Pszczyna
227	Microbiotests
228	Milestone
207	NC3Rs
215	NOACK Laboratorien GmbH
229	Norwegian Institute for Water Research (NIVA)
116	Oxford Analytical Services Ltd
104	Penman Consulting
223 & 224	PerkinElmer
113	Primacyt Cell Culture Technology
105	Resistomap Oy
121	Ricardo
242	Rifcon
111	Royal Society of Chemistry
103	Sciex
232	Scymaris Ltd
106 & 108	Shimadzu
101	SINTEF Ocean
211	Smithers
208	Staphyt
243	SynTech Research Group
234	TekenBio
109	tier3 solutions GmbH/Agrotox Research Services S.L.
213	ToxRat Solutions GmbH @ Co. KG
225	TSG
210	Viewpoint
205	Vitis Regulatory
235	Waters
226	wca
123	Zantiks

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 8 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 europe2024.setac.org

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 Slide 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 (secretaria 1). 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 area's from 9:30–18:15. Each poster has been assigned a specific code. The two letters represent the day your poster will be displayed, the number is the number of the poster board, e.g. Mo123 = Monday, board 123.

Poster Corner Presentations

The Poster Corners are scheduled from 16:00 – 16:45 and located on Floor 1 and Floor 3. During the session, up to six posters with a common subject 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 9:00 to 9:30. They should be removed by 18:45 on Monday, Tuesday and Wednesday and 15:00 on Thursday at the very latest or they will be discarded.

Poster Spotlight Presentations

The Poster Spotlights take place at the end of a platform session and consist of a 4-minutes pitch, highlighting the major findings of the work. If you have a Poster Spotlight Presentation (maximum 3 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	09:00–09:30	09:00–09:30
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	18:15–18:45	14:25–15:00

SPEAKER-READY ROOM (SECRETARIA 1)	
Sunday	14:00–20:00
Monday - Wednesday	09:00–18:00
Thursday	09:00–11:30

Sunday 5 May

SUNDAY SCHEDULE		
08:00–20:30	Badge Pick-up and Registration	Outside Ramp (Check-in Area)
08:00–21:00	Cloakroom	Outside Ramp (Cloackroom Area)
08:30–17:30	Training Courses	
09:00–15:00	SETAC Europe Council Meeting	Secretaria 4
09:30–17:00	Workshop: Development of Guidance for Fish Vitellogenin (VTG) Assessment in Test Guideline Studies	Video Conference Room
12:00–14:00	Local City Event	La Casa de la Ciencia
14:00–20:00	Speaker Ready Room	Secretaria 1
17:30–19:00	**Opening & Awards Ceremony Featuring Sunday Plenary Sergi Sabater**	**Auditorium 1**
19:00–20:30	**Welcome Reception**	**Exhibition Areas**

Training Courses

FULL-DAY COURSES | 8:30–17:30		
TC01	Introduction to in Silico Modeling Approaches for Regulatory Ecotoxicological Hazard Assessment	Varsovia
TC02	Application of Wildlife Toxicology Studies to Support of Environmental Risk Assessment of Pesticides	Venecia
TC03	Beyond Persistent (Micro-)Plastics: Definitions, Testing Methods and Regulations for Biodegradable Structural and Water-Soluble Polymers	Club Room
TC04	The Endocrine System: Global Perspectives on Testing Methods and Evaluation of Endocrine Activity	Press Room
TC05	The Power of Environmental Nucleic Acids (eNA) Surveys in Environmental Monitoring and Environmental Impact Assessments	Oporto
TC06	Statistical Methods in Ecotoxicology Using R	Barcelona

MORNING HALF-DAY COURSES | 8:30–12:30		
TC07	Environmental Forensics: Recent Developments and Applications to Evaluating Source and Responsibility of Environmental Contaminants	Praga

AFTERNOON HALF-DAY COURSES | 13:30–17:30		
TC09	Selecting and Evaluating Chemical Property Data in Environmental Toxicology and Chemistry	Praga
TC10	DeEP: A User-Friendly DEB-TKTD Modelling Software for European Tier 2C Environmental Risk	Secretaria 6

SETAC Mentoring Program

Get Involved in Four Easy Steps:

- Ensure you are a SETAC member at the explorer or full level
- Identify yourself as a mentor on your SETAC profile, or search the membership directory to find a mentor
- Report to SETAC when you've found a match
- Follow the framework outlined in the handbook

Opportunity Awaits!

» Jobs and assistantships
» Fellowships and post-docs
» Graduate programs
» Requests for proposals and more!

SETAC Career Center
careers.setac.org

Opening and Award Ceremony

17:30–19:00 | Auditorium 1

Join us for the opening of the SETAC Europe 34th Annual Meeting, where Spanish guitar melodies and soulful singing will provide the soundtrack of a rhythmic, passionate and vibrant flamenco performance.

Afterwards, SETAC Global and Europe Governance will express their warm welcomes, and recognise the 2024 SETAC Award winners. Then, the SETAC Seville Meeting Chairs will introduce you to the city and the programme of the meeting, and present the opening plenary speaker, Sergi Sabater.

Plenary Speaker

17:30–19:00 | Auditorium 1

Water Scarcity and Extreme Climatic Events: Implications for Chemical Impact on Freshwater Ecosystems

Sergi Sabater, Catalan Institute for Water Research (ICRA), Spain

Sergi Sabater is a professor of Ecology at the University of Girona (UdG) and senior researcher at the Catalan Institute for Water Research (ICRA), both based in Girona, Spain. He is particularly concerned by the effects caused by water scarcity, contaminants, and global change on the structural and functional descriptors of river ecosystems. His research on fluvial ecosystems mainly tackles the role that river algae and biofilms play as the basal component in the river food web. His main themes are the ecology and ecotoxicology of biofilms, the metabolism and functioning of fluvial ecosystems, and the effects of co-occurring multiple stressors as agents of global change. Has co-edited several books and published ca. 300 peer-reviewed papers on ecology and environmental sciences in international scientific journals, and more than 100 other contributions. He is Associate Editor of Science of the Total Environment and is involved in several other Editorial Boards.

Abstract:

Water scarcity and extreme climatic events may be associated with large chemical impacts on freshwater ecosystems. During periods of water scarcity, reduced water flows can elevate pollutant concentrations by limiting dilution. Extreme climatic events such as heatwaves, prolonged droughts, or intense floods can exacerbate these impacts, affecting the transport and biodegradation rates of various chemicals. Consequently, sensitive aquatic organisms face heightened threats, biodiversity is at risk, and the ecological balance of freshwater ecosystems is disrupted. Despite these observations, our comprehension remains incomplete, likely due to the challenges in adequately capturing these events and considering most elements involved. Encouraging multidisciplinary collaboration among ecologists, chemists, and ecotoxicologists is essential for effectively addressing the chemical impacts of water scarcity and extreme climatic events on freshwater environments.

MONDAY SCHEDULE		
09:00–18:00	Badge Pick-up & Registration & Cloackroom	Outside Ramp (Registration Area)
09:00–18:00	Speaker Ready Room	Secretaria 1
09:00–09:30	Poster Setup	
09:30–10:50	**Presentation Sessions**	
10:00–12:00	JRF Global Sponsored Seminar: Analytical Approaches and Toxicity Assessment of Emerging Contaminants	Varsovia
10:50–11:35	Coffee & Poster Break	Exhibition Areas
10:50–11:35	Regional Branches Committee Gathering	SETAC Square
11:35–12:55	**Presentation Sessions**	
12:55–14:25	Lunch & Poster Break	Exhibition Areas
12:55–14:25	Labcorp Sponsored Lunch Seminar: Considerations on the Evolving Testing Requirements for Environmental Fate Studies	Video Conference Room
12:55–14:25	Bruker Sponsored Lunch Seminar: Overcoming Analytical Hurdles to Comprehensive POP and PFAS Characterization	Barcelona
12:55–14:25	**Student Lunch: Career Perspectives** (kindly sponsored by Colgate)	**TV Room**
12:55–14:25	SYNet Forum	Club Room
13:00–14:00	Project Meeting: Review of in Vitro Dosing Methods for UVCBs	Secretaria 4
13:00–15:00	ZeroPM Consortium Gathering and Podcasts	Praga
14:00–15:00	Precision Farming: What's up? What's next?	Press Room
14:25–15:45	**Presentation Sessions**	
14:30–15:00	Ecotoxicology of Amphibians and Reptiles Interested Group Meeting	Oporto
15:30–18:30	Green Deal Safe and Sustainability by Design Workshop *(by invitation only)*	Varsovia
15:45–17:45	Pharmaceuticals Interest Group Open Meeting	Club Room
15:45–16:45	Coffee & Poster Break	Exhibition Areas
16:00–16:45	Poster Corners	Exhibition Areas
16:00–18:00	Animal Alternative Interest Group Meeting	Barcelona
16:45–17:45	**Plenary: Marlene Ågerstrand**	**Auditorium 1**
16:45–17:45	Italian Language Branch Meeting	Video Conference Room
17:00–18:00	Bioaccumulation Science Interest Group Meeting	TV Room
17:45–18:15	**Poster Social**	**Exhibition Areas**
18:15–19:30	**Students Evening Event: Toxic Tales: A Happy Hour Dive into Ecotoxicology**	**Barcelona**

Monday 6 May

Plenary Speaker

16:45–17:45 | Auditorium 1

Science-Policy Interactions in Risk Assessment and Management of Chemicals

Marlene Ågerstrand, Stockholm University, Sweden

Marlene Ågerstrand holds the position of Associate Professor at the Department of Environmental Science at Stockholm University, where she serves as the leader of a group dedicated to Regulatory Science. Her research concentrates on unravelling the intricate dynamics between science and policy in the realm of risk assessment and chemical management. Key focal points of her work encompass the utilization of scientific data in decision-making processes, the effectiveness of various management strategies, the transition towards a non-toxic circular economy, and the pivotal role played by experts in decision-making contexts. A notable contribution to her field is the development of the CRED method and the SciRAP tool for evaluating ecotoxicity studies in hazard and risk assessments of chemicals. Ågerstrand further extends her expertise as a member of the OECD expert group on the use of academic data in risk assessment. She also assumes the role of board member of IPCP, an academic organization dedicated to fostering a scientifically robust and well-balanced perspective on major issues related to chemical pollution. Ågerstrand's engagement with SETAC ranges from organizing sessions, workshops and short courses, to contributing to the editorial board of IEAM.

Abstract:

The synergy between science and policy is fundamental for steering society towards sustainability, particularly in the area of assessment and management of chemicals. While the conceptual framework appears straightforward - science informing policy for informed decision-making - the reality is a labyrinth of complexity shaped by numerous variables. This presentation will explore the interplay between science and policy, highlighting the practical nuances of chemical regulation that govern the use of scientific evidence in policy formulation and implementation. In this context, actionable strategies for improving the integration of scientific evidence into policy frameworks will be proposed for academia, industry, regulatory agencies and scientific journals.

Drawing on insights from the field of Regulatory Science, this presentation will discuss how we can pave the way for more robust regulatory practices by addressing inadequacies, redundancies, and gaps in existing chemicals legislation. The presentation will also demonstrate the need for transdisciplinary collaboration to address today's pollution challenges. By taking this more holistic approach, we can harness the collective expertise of different research fields to develop innovative solutions for the assessment and management of chemicals, thereby improving the protection of human health and the environment.

★ Special Session

09:30–10:50 | Al-Andalus (Fibes 1)

8.07 - The European Green Deal (Chemicals Strategy for Sustainability)

Michelle Bloor, SETAC Europe Sounding Board for the European Commission High-Level Round Table for the Chemicals Strategy for Sustainability

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 Chemical Strategy for Sustainability (CSS) in 2021. Since 2020, SETAC Europe has held Special Sessions on different aspects of the European Green Deal's CSS which feed into that process, by fostering a communication channel with the Society's membership.

Since 2020, the Special Session's focus and discussions have fed forward from the previous year's event. This year's session will again move the conversation forward and address several key questions, which were identified through the previous discussion, including:

1. How do we avoid paralysis by analysing decisions on chemicals? Are calls for more data slowing down the process? What data is truly needed to move forward, and what is needed by regulators?
2. 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?
3. How do we avoid misuse of the phrase "science-based", what does it mean, is all data useful data, and what level of information is sufficient to make informed decisions"?
4. Multidisciplinary and transdisciplinary solutions are called for, but how do we (as SETAC members and stakeholders) facilitate and achieve truly effective collaborations between different disciplines involved in the design, production, and assessment of chemicals, on what topics, and to what end?

★ Special Session

14:25–15:45 | Al-Andalus (Fibes 1)

8.05 - Establishment of a Science-Policy Panel to Contribute Further to the Sound Management of Chemicals, Waste, and Pollution Prevention

Michelle Bloor, SETAC Advisory Panel on Chemicals Management (CheM)

SETAC established an advisory panel on chemicals management (SETAC CheM Panel), in December 2022, to coordinate SETAC's contributions to the policy dialogue at UNEP and the Open-Ended Working Group (OEWG) for the establishment of a science-policy panel to contribute further to the sound management of chemicals and waste and to prevent pollution (SPP CWP). The members of the SETAC CheM Panel are appointed by the SETAC World Council, guided by the SETAC principles and ensuring sectoral balance, interdisciplinarity, and focus on science-based objectivity.

The CheM Panel has arranged a series of special sessions in every SETAC Geographic Unit in order to undertake a global consultation with the membership and to explore the Global Horizon Scanning Project previously undertaken by SETAC. This work is being undertaken in collaboration with the lead authors of the SETAC Global Horizon Scanning Project. The aim is to determine if regionally the questions identified through the original scan are still relevant, if there is a desire to add new questions based on 2023-24 knowledge, and if so, what are those questions. This exploration is of great interest to UNEP and will be shared with them, in the form of a publication, to feed into the new science-policy panel preparation process.

Horizon scanning is one of the five functions of the new panel, but since the panel is several years away from its establishment, the information and evidence provided by SETAC, and other stakeholders will provide insight to help the discussions and process development. This session will explore SETAC's European Horizon Scanning publication (Van den Brink et al., 2018). The session will mirror the format used for the CheM Panel's Global Horizon Scanning events in other Geographical Regions to ensure standardization.

Student Event

18:15–19:30 | Barcelona

Students Evening Event: Toxic Tales: A Happy Hour Dive into Ecotoxicology

Organised by SE Student Advisory Council

Speaker: David Janz, University of Saskatchewan, Canada

David Janz grew up in Vancouver, BC, Canada and was educated at Simon Fraser University (B.Sc. Ecology, 1987), Trent University (M.Sc. Watershed Ecosystems, 1991) and the University of British Columbia (PhD Pharmaceutical Sciences, 1995). After postdoctoral training in reproductive endocrinology at the University of Guelph, he was an Assistant Professor in the Department of Zoology, at Oklahoma State University from 1997-2002. In 2002, he joined the faculty in Veterinary Biomedical Sciences, at the University of Saskatchewan. His academic position is closely associated with the Toxicology Centre, where he is currently co-chair of the graduate program and teaches in the undergraduate and graduate programs.

Professor Janz's research program focuses on how priority environmental pollutants interact with physiological processes in vertebrate animals, primarily aspects of developmental biology, reproductive endocrinology, and stress physiology. He has published over 150 peer-reviewed articles on a broad range of wildlife species, including mammals, birds, reptiles, amphibians and fishes.

Janz will share stories and draw from his forty years of experience, to provide advice for young scientists as they train to be the next generation of ecotoxicologists.

Entrance for students and recent graduates on a first-come-first-serve basis.

Monday Platform Presentations Morning 1

	09:35	09:50	10:05
Auditorium 1	**Lower Micron and Nanosize Plastics: Challenges, Analytical Methods, Occurrence, Composition, Local Sources, Long-Range Transport and Human Exposure	...**		
	3.14.T-01 Beyond the Horizon: Unveiling Transport Mechanisms and Residence Times of Atmospheric Micro- and Nanoplastics	**Marianne Seijo**, University of Amsterdam (UVA), Netherlands	**3.14.T-02** A realistic nanoplastics test material: accelerated ageing, production and phys-chem characterization	**Francesco Fumagalli**, European Commission Joint Research Centre (JRC), Italy	**3.14.T-03** Automated Microplastics Identification (<500nm to mm's): Particle Shape/Size Artefact-Free Submicron IR & Simultaneous Raman with Nile Red Fluorescence Imaging to Pre-Scan Samples for Increased Speed	**Miriam Unger**, Photothermal Spectroscopy Corp, GmbH, Germany
Auditorium 2	**Innovations in LCA: Bridging Temporal Dynamics and Advancements in Inventory Data Modeling	...**		
	5.02.T-01 FineChem2: An enhanced deep-learning model for estimating carbon footprints of chemicals	**Dachuan Zhang**, ETH Zurich, Switzerland	**5.02.T-02** Inventory estimation for chemical processes from the reaction stoichiometry by decision trees	**Tim Langhorst**, ETH Zürich, Switzerland	**5.02.T-03** Integrated Life Cycle Optimization of the Foreground and Background Systems using the PULPO Open-Source Python Package	**Fabian Lechtenberg**, Universitat Politècnica de Catalunya, Spain
Auditorium 3	**Invertebrate Species in Ecotoxicology: Challenges and Opportunities in a Global Change Scene**	Carlos Barata, Konstantinos Grintzalis, Katie Reilly, Eberhard Kuester	
	1.09.A.T-01 A Systematic Evidence Map of Molluscan Endocrinology and an Investigation of the Effects of a Pharmaceutical 5-alpha-Reductases Inhibitor, Dutasteride, on two Freshwater Gastropod Molluscs	**Konstantinos Panagiotidis**, Brunel University London, United Kingdom	**1.09.A.T-02** Exposure of freshwater gastropod Lymnaea stagnalis to silver nanoparticles causes chronic and transgenerational effect	**Wei Liu**, University of Geneva, Switzerland	**1.09.A.T-03** Tracking Temporal and Spatial Ecotoxicological Effects of Suspended Particulate Matter in Lake Geneva	**Rébecca Beauvais**, Swiss Centre for Applied Ecotoxicology, Switzerland
Madrid ABC	**Analysis, Assessment and Management of Contaminants of Emerging Concern and Their Transformation Products in the Environment	...**		
	3.04.A.T-01 Per- and Poly-fluorinated alkyl substances (PFAS) at the Environment Agency UK	**Alun James**, Environment Agency United Kingdom, United Kingdom	**3.04.A.T-02** Background concentrations and spatial distribution of per- and polyfluoroalkyl substances (PFAS) in surface waters of the greater Melbourne area, Australia	**Tanya Paige**, RMIT University, Australia	**3.04.A.T-03** Increasing Atmospheric Depositions of Trifluoroacetate (TFA) Over the Last Three Decades	**Finnian Freeling**, TZW: DVGW-Technologiezentrum Wasser (German Water Centre), Germany
Madrid DEF	**Emerging Remediation Technologies for Contaminated Environmental Matrices**	Sanne Smith, Michel Hubert, Michael Pribil, Kai Bester	
	4.05.T-01 Evaluation of Intensified Constructed Wetlands for the Persistent, Mobile and Toxic Compounds Removal From Groundwater and Wastewater	**Alicia Cano López**, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain	**4.05.T-02** Waste biochar sorbents as sustainable alternatives for PFAS soil stabilization	**Erlend Sørmo**, Norwegian University of Life Sciences (NMBU), Norwegian Geotechnical Institute (NGI), Norway	**4.05.T-03** Scale-up of a photocatalytic reactor for the degradation of pesticides at source	**Indira Menezes**, Robert Gordon University, United Kingdom
Bruselas	**Fate and Toxicity of Metals: Recent Scientific Advancements, Challenges for (Data-Poor) Metals, and Application to Environmental Regulations	...**		
	3.11.A.T-01 Effects of Biochar amendment on earthworm heavy metal bioaccummulation from e-waste contaminated soil	**Patricia Asanga Fai**, University of Bamenda, Cameroon	**3.11.A.T-02** Antimony Release Upon Soil Flooding- Influence of Contamination Source and Soil Properties	**Ursina Morgenthaler**, University of Bern, Switzerland	**3.11.A.T-03** Understanding the multiple fates of rare earth elements (REEs) in abiotic and biotic compartments of the St. Lawrence River, Canada.	**Marie-Christine Lafrenière**, University of Montréal, Canada
Paris	**Measuring and Modelling the Environmental Fate and Exposure of Pesticides**	Bernhard Jene, Pauline Iris Adriaanse, Joachim Dayteg	
	3.15.A.T-01 Weight-of-evidence approach for correlation of degradation and/or sorption parameters with soil pH	**Michelle Morris**, Chemicals Regulation Division, Health & Safety Executive, United Kingdom	**3.15.A.T-02** Uncovering the Spray Drift in Unscrewed Aircraft Spray Systems Through Intensive Field Studies	**Qianwen He**, BASF SE, Germany	**3.15.A.T-03** Appropriateness of the Soil Organic Matter Map contained within PERSAM: Exploring Options in a Dynamic and Evolving GIS Data Landscape	**Fabrizio Rama**, Syngenta, UK
Al Andalus (Fibes 1)	★ **The European Green Deal (Chemicals Strategy for Sustainability**	Michelle Bloor, High Level Roundtable Sounding Board	
	TBD		
Italica (Fibes 1)	**Next-Generation Urban Water Management: Improved Understanding of the Fate of Micropollutants, Transformation Products, Pathogens, and Antimicrobial Resistance	...**		
	3.18.A.T-01 Occurrence of pollutants of emerging concern in urban runoff samples	**Sergio Santana-Viera**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain	**3.18.A.T-02** Lysimeter Experiments to Investigate the Retention and Degradation of the Urban Biocides Terbutryn, Diuron and Octylisothiazolinone in Typical Urban Surface-Soil Interfaces	**Tobias Junginger**, University of Stuttgart, Germany	**3.18.A.T-03** Sources of Persistent and Mobile Chemicals in Municipal Wastewater: A Sewer Perspective	**Alina Seelig**, Helmholtz Centre for Environmental Research (UFZ), Germany
Ronda (Fibes 1)	**Marine and Coastal Pollution: Detection, Monitoring, Assessment, Regulation, and Management**	Mathijs Smit, Kari K. Lehtonen, Ioanna Katsiadaki	
	4.08.A.T-01 Evolving Chemical Assessment for Use in the Marine Environment	**Claire Phillips**, Centre for Environment Fisheries and Aquaculture Sciences (Cefas), United Kingdom	**4.08.A.T-02** Chemicals in OWF Coatings and their Leaching into the Marine Environment	**Lisbet Sorensen**, SINTEF Ocean, Norway	**4.08.A.T-03** The Underestimated Problem with Discharge Water from Exhaust Gas Cleaning Systems of Seagoing Ships	**Martina Fenske**, Federal Institute of Hydrology (BfG), Germany

Monday Platform Presentations Morning 1

	10:20	10:35
Auditorium 1	Patrick Bauerlein, Natascha Schmidt, Muna Zabarmawi, Ralf Kaegi	
	3.14.T-04 Differentiating Microplastics from Natural Particles in Aqueous Suspensions using Flow Cytometry with Machine Learning	**Denise Mitrano**, ETH Zürich, Switzerland	**3.14.T-05** Analysis of microplastics in underground waters and drinking waters down to 5µm	**Lauriane Barritaud**, Veolia Group, France
Auditorium 2	Michele De Rosa, Antonino Marvuglia, Roland Hischier, Tomás Navarrete Gutiérrez	
	5.02.T-04 Result variations due to dynamic life cycle assessment compared to result variations due to sensitivity analysis on static inventory data	**Arnaud Helias**, ITAP, Univ Montpellier, INRAE, Institut Agro, France	**5.02.T-05** Poster spotlight: 5.02.P-Mo452, 5.02.P-Mo453, 5.02.P-Mo454
Auditorium 3	**Invertebrate Species in Ecotoxicology: Challenges and Opportunities in a Global Change Scene**	Carlos Barata, Konstantinos Grintzalis, Katie Reilly, Eberhard Kuester	
	1.09.A.T-04 Chemical Characterization and Toxicity Assessment of Antifouling Coatings' Lixiviate: Implications for Biofouling Management	**Mar Santos-Simón**, University of Pavia, Research Centre for Experimental Marine Biology and Biotechnology (Plentzia Marine Station; PiE-UPV/EHU), University of the Basque Country (UPV/EHU), Spain	**1.09.A.T-05** The tire rubber derived-contaminant 6-PPD-quinone and increased temperatures: too much for the freshwater snail Radix balthica	**Núria De Castro-Català**, Universitat de Barcelona, Spain
Madrid ABC	Nicola Montemurro, Daniel Zahn, Gabriel Sigmund, Sandra Perez Solsona	
	3.04.A.T-04 Formation of trifluoroacetic acid from the aqueous photolysis of aryl-CF3 compounds	**Shira Joudan**, University of Alberta, Canada	**3.04.A.T-05** Poster spotlight (A): 3.04.P-Th150, 3.04.P-Th151, 3.04.P-Th152
Madrid DEF	**Emerging Remediation Technologies for Contaminated Environmental Matrices**	Sanne Smith, Michel Hubert, Michael Pribil, Kai Bester	
	4.05.T-04 Selective Degradation of Organic Micropollutants and Organic Metabolites in Source-Separated Human Urine using Sulphate-radical-based Advanced Oxidation Process	**Ali Peter Mehaidli**, Swedish University of Agricultural Sciences (SLU), Sweden	**4.05.T-05** Mesocosms and multiparametric approaches for the environmental assessment of technologies aiming to reduce the impact of mining activities	**Julio Lopez-Doval**, University of Vic - Central University of Catalonia (UVic-UCC), Spain
Bruselas	David Boyle, Séverine Le Faucheur, Jelle Mertens, Iain Wilson	
	3.11.A.T-04 Ecotoxicology of Rare Earths in aquatic systems:Integrated overview of fate and behavior of Rare Earth in river, their trophic transfer and environmental impacts in a Life Cycle Assessment perspective	**Laure Giamberini**, Université de Lorraine, France	**3.11.A.T-05** Periphyton Is a Unique Ecological Niche Playing Critical yet Underrated Roles in Aquatic Mercury Cycling and Bioaccumulation	**Yong Cai**, Florida International University, USA
Paris	**Measuring and Modelling the Environmental Fate and Exposure of Pesticides**	Bernhard Jene, Pauline Iris Adriaanse, Joachim Dayteg	
	3.15.A.T-04 Harmonised Framework for the SETAC Spatially Distributed Leaching Modelling of Pesticides Initiative: 2024 update	**Aaldrik Tiktak**, PBL Netherlands Environmental Assessment Agency, Netherlands	**3.15.A.T-05** Preparing to revise the Guidance Document on risk assessment for non-target arthropods to pesticides: off-field exposure characterisation	**Laura Padovani**, European Food Safety Authority (EFSA), Italy
Al Andalus (Fibes 1)	★ **The European Green Deal (Chemicals Strategy for Sustainability**	Michelle Bloor, High Level Roundtable Sounding Board	
	TBD		
Italica (Fibes 1)	Stefan Kools, Despo Fatta-Kassinos, Ulla Bollmann, Marc Teixidó	
	3.18.A.T-04 Modeling the fate of CEC during wastewater treatment processes by using fluorescence	**Paolo Roccaro**, University of Catania, Italy	**3.18.A.T-05** Phase Separation of Anaerobic Digestion to Elucidate the Transformation Products of Organic Micropollutants during Acidogenesis and Methanogenesis	**Rodrigo Carneiro**, University of São Paulo (USP), Brazil
Ronda (Fibes 1)	**Marine and Coastal Pollution: Detection, Monitoring, Assessment, Regulation, and Management**	Mathijs Smit, Kari K. Lehtonen, Ioanna Katsiadaki.	
	4.08.A.T-04 Sulphate sensitivity of aquatic organisms in northern Baltic Sea coastal brackish water explored by toxicity tests and species sensitivity distribution	**Xiaoxuan Hu**, University of Jyväskylä, Finland	**4.08.A.T-05** Toxicity Variations in Produced Water: A Study on Danish Offshore Oil Fields	**Neri Bonciani**, Danish Offshore Technology Centre, Denmark

COFFEE & POSTER BREAK

Monday Platform Presentations Morning 2

	11:40	11:55	12:10
Auditorium 1	**Plastic Pollution: Bridging the Gap Between Science and Policy Needs** | John Norman, Ana I Catarino, Thomas Maes, Suja Purushothaman Devipriya		
	6.09.T-01 Experimental Assessment of Plastic and Biota Removal by Plastic Clean-up Mechanisms | **Giulia Leone**, Ghent University, Belgium	**6.09.T-02** Predicting Plastic Degradation and Fragmentation in the Environment | **Sam Harrison**, UK Centre for Ecology and Hydrology (UKCEH), United Kingdom	**6.09.T-03** Leveraging Physiology & Behavior to Better Understand Exposure, Uptake, & Elimination of Micro- and Nanoplastics (MNP) in Pelagic & Benthic Species within the Context of Quantitative Risk Assessment | **Davide Asnicar**, Huntsman Marine Science Centre, Canada
Auditorium 2	**Life Cycle Impact Assessment – Advances in Modelling and Application** | Roland Hischier, Stephan Pfister, Francesca Verones, Olivier Jolliet		
	5.05.A.T-01 Biodiversity Impact Assessment for the Financial Sector: Guiding Investments and Policies | **Stephan Pfister**, ETH Zurich, Switzerland	**5.05.A.T-02** Linking freshwater ecotoxicity to species loss in life cycle impact assessment | **Susan Oginah**, Technical University of Denmark, Denmark	**5.05.A.T-03** Towards a Unified Spatial Framework to Quantify Biodiversity Effects in Life Cycle Impact Assessment | **Sharon Janssen**, Radboud University Nijmegen, Netherlands
Auditorium 3	**Invertebrate Species in Ecotoxicology: Challenges and Opportunities in a Global Change Scene** | Carlos Barata, Konstantinos Grintzalis, Katie Reilly, Eberhard Kuester		
	1.09.B.T-01 Enhanced Tolerance to Narcosis in Starved Daphnia magna Neonates | **Sophie Steigerwald**, Stockholm University, Sweden	**1.09.B.T-02** Transgenerational effects of the fluoroquinolone Flumequine in D. magna: An In Vivo Whole-Transcriptomic Investigation | **Edoardo Pietropoli**, University of Padova, Italy	**1.09.B.T-03** An Open-Source Modular Workflow for Automated Daphnia Measurements of Sublethal Effects | **Magdalena Mair**, University of Bayreuth, Germany
Madrid ABC	**Analysis, Assessment and Management of Contaminants of Emerging Concern and Their Transformation Products in the Environment | ...**		
	3.04.B.T-01 In Silico Tentative Identification of Pharmaceutical Biotransformation Products in Receiving Water | **Olukemi Oloyede**, Imperial College London, United Kingdom	**3.04.B.T-02** Computational Assessment of Antibiotic Transformation Product Activity: Molecular Dynamics Simulations and Free Energy Calculations | **Paul Löffler**, Swedish University of Agricultural Sciences (SLU), Sweden	**3.04.B.T-03** Pesticide transformation product occurrences in surface waters as ground water pollution risk indicators in the context of an extended residence time aquifer | **Tom Galle**, Luxembourg Institute of Science and Technology (LIST), Luxembourg
Madrid DEF	**Advancements in Bioremediation and Phytoremediation for Addressing Persistent and Emerging Pollutants in Contaminated and Degraded Ecosystems | ...**		
	4.01.A.T-01 Soil bioresilience through bioavailability reductions: engineering components and policy challenges | **Jose Julio Ortega-Calvo**, Instituto de Recursos Naturales y Agrobiologia, Spain	**4.01.A.T-02** DNA-SIP combined with metagenomics unveil bacterial communities and mechanisms involved in azaarene biodegradation in PAH-contaminated soils | **Maria Jordán**, University of Barcelona, Spain	**4.01.A.T-03** Bioremediation of soils contaminated with PFAS: challenges, successes and future directions | **Vladimir Beskoski**, University of Belgrade, Faculty of Chemistry, Serbia
Bruselas	**Fate and Toxicity of Metals: Recent Scientific Advancements, Challenges for (Data-Poor) Metals, and Application to Environmental Regulations | ...**		
	3.11.B.T-01 Internalization of Organically Complexed Copper by a Coastal Dinoflagellate in Synthetic and Natural Seawater Samples | **Paula Sánchez-Marín**, Spanish Institute of Oceanography - Spanish National Research Council (IEO-CSIC), Spain	**3.11.B.T-02** Concentration Addition or Independent Action: Which Model Better Predicts Aquatic Toxicity of Environmentally Realistic Metal Mixtures? | **Maria Laura De Donno**, Ghent University, Belgium	**3.11.B.T-03** Investigating Population versus Individual Sensitivity of Lymnaea stagnalis to Nickel (Ni) | **Kristi Weighman**, Ghent University - GhEnToxLab, Belgium
Paris	**Measuring and Modelling the Environmental Fate and Exposure of Pesticides** | Bernhard Jene, Pauline Iris Adriaanse, Joachim Dayteg		
	3.15.B.T-01 Improving the procedure for fitting degradation rates in water sediment studies | **Sevil Payvandi**, Syngenta Ltd, United Kingdom	**3.15.B.T-02** Comparison of simulated and observed downwind deposits of spray drift in arable crops across Europe: a test case using the IDEFICS model | **Henk Jan Holterman**, Wageningen University & Research (WUR), Netherlands	**3.15.B.T-03** Estimating high resolution exposure at landscape-level – on the development, evaluation, and application of the droplet and atmospheric dispersion (DAD) drift model | **Mike Fuchs**, University of Kaiserslautern-Landau (RPTU), BASF SE, Germany
Al Andalus (Fibes 1)	**Science for Global Management of Chemicals** | Penny Vlahos, Lena Vierke, Miriam L. Diamond, Marlene Ågerstrand		
	6.11.T-01 Why we need science free of Conflict of Interest for Global Management of Chemicals | **Miriam Diamond**, University of Toronto, Department of Earth Sciences, Canada	**6.11.T-02** Sustainable Chemicals and Materials Policy – The Need to Develop Globally Binding Rules | **Janna Kuhlmann**, Bund für Umwelt und Naturschutz BUND eV, Germany	**6.11.T-03** The PlastChem Project: An evidence-based framework for identification and prioritization of chemicals of concern in plastic | **Laura Monclus**, Norwegian University of Science & Technology (NTNU), Norway
Italica (Fibes 1)	**Next-Generation Urban Water Management: Improved Understanding of the Fate of Micropollutants, Transformation Products, Pathogens, and Antimicrobial Resistance | ...**		
	3.18.B.T-01 Development of an automated workflow for conducting degradation experiments and elucidating transformation products | **Ingrida Bagdonaite**, Vrije Universiteit Amsterdam, Netherlands	**3.18.B.T-02** Assessing the Fate and Behaviour of Micropollutants During Advanced Wastewater Treatment for Potential Water Reuse Applications | **Jan Specker**, University of Amsterdam (UVA), Netherlands	**3.18.B.T-03** Qualitative and quantitative spatiotemporal analysis of new psychoactive substances in Slovenia through the analysis of influent wastewater | **Maria Laimou-Geraniou**, Jozef Stefan Institute, Slovenia
Ronda (Fibes 1)	**Marine and Coastal Pollution: Detection, Monitoring, Assessment, Regulation, and Management** | Mathijs Smit, Kari K. Lehtonen, Ioanna Katsiadaki		
	4.08.B.T-01 Impacts of the UV Filters Octinoxate and Octocrylene on Symbiodinium sp.: A Symbiotic Microalgae in Corals | **Ana Almeida**, Norwegian Institute for Water Research (NIVA), Norway	**4.08.B.T-02** Effect-based Water Quality Diagnosis to Improve Coral Reef Resilience and Recovery | **Milo de Baat**, University of Amsterdam, Netherlands	**4.08.B.T-03** Mapping Coastal Chemical Contamination in Different Environmental Matrices Across the Galapagos Archipelago | **Georgie Savage**, University of Exeter, United Kingdom

Monday Platform Presentations Morning 2

	12:25	12:40
Auditorium 1	**Plastic Pollution: Bridging the Gap Between Science and Policy Needs** | John Norman, Ana I Catarino, Thomas Maes, Suja Purushothaman Devipriya	
	6.09.T-04 Considerations Regarding the Representativeness of Microplastic Concentrations in Aqueous Systems: Are the Data Fit-for-Purpose? | **Richard Cross**, UK Centre for Ecology & Hydrology (UKCEH), United Kingdom	**6.09.T-05** A little less conversation: How existing governance can strengthen the future global plastics treaty | **Thomas Maes**, GRID-Arendal, United Kingdom
Auditorium 2	**Life Cycle Impact Assessment – Advances in Modelling and Application** | Roland Hischier, Stephan Pfister, Francesca Verones, Olivier Jolliet	
	5.05.A.T-04 Operational Accounting of two Major Drivers of Marine Biodiversity Loss in Life Cycle Assesment (LCA) of Seafood Products | **Anne-Claire Asselin**, Sayari, France	**5.05.A.T-05** Poster spotlight (A): 5.05.P-Mo469, 5.05.P-Mo470, 5.05.P-Mo471
Auditorium 3	**Invertebrate Species in Ecotoxicology: Challenges and Opportunities in a Global Change Scene** | Carlos Barata, Konstantinos Grintzalis, Katie Reilly, Eberhard Kuester	
	1.09.B.T-04 Investigating the fitness consequences of phenanthrene exposure in resurrected D. magna strains: a paleoecotoxicological study | **Florian Gigl**, Goethe University Frankfurt, Germany	**1.09.B.T-05** Poster spotlight: 1.09.P-Mo061, 1.09.P-Mo062, 1.09.P-Mo063
Madrid ABC	| Nicola Montemurro, Daniel Zahn, Gabriel Sigmund, Sandra Perez Solsona	
	3.04.B.T-04 Identification of Neonicotinoid Transformation Porducts in Aquatic Environments | **Carly Beggs**, QAEHS - The University of Queensland, Australia	**3.04.B.T-05** Poster spotlight (B): 3.04.P-Th153, 3.04.P-Th207, 3.04.P-Th215
Madrid DEF	| Anna Barra Caracciolo, Jose Julio Ortega-Calvo, Begoña Jiménez, Vladimir Beskoski	
	4.01.A.T-04 Metagenomic Study on Nature-Based Solutions for Bioremediation: Investigating a Bioreactor with Biochar and Polyhydroxyalkanoates as Biomaterials for Biological Anaerobic Dechlorination | **Bruna Matturro**, Water Research Institute (IRSA-CNR), Italy	**4.01.A.T-05** Phytoremediation of Agricultural Areas Contaminated by Hydrocarbons | **Tatiana Stella**, M3R-Monitoring and Management of Microbial Resources Srl, Italy
Bruselas	| David Boyle, Séverine Le Faucheur, Jelle Mertens, Iain Wilson	
	3.11.B.T-04 Estimating and Using Ambient Background Concentrations in Surface Waters for Nickel in Europe | **Elizabeth Middleton**, NiPERA Inc., USA	**3.11.B.T-05** Poster spotlight: 3.11.P-Mo133, 3.11.P-Mo134, 3.11.P-Mo153
Paris	**Measuring and Modelling the Environmental Fate and Exposure of Pesticides** | Bernhard Jene, Pauline Iris Adriaanse, Joachim Dayteg	
	3.15.B.T-04 Model-Based analysis of pesticide transport pathways in a drained agricultural farm, northern Germany | **Anne-Kathrin Wendell**, Kiel University, Germany	**3.15.B.T-05** Moving towards field specific risk assessment: A drainflow risk assessment case study in the UK. | **Gregory Hughes**, GeoSpatial Analytics Ltd, United Kingdom
Al Andalus (Fibes 1)	**Science for Global Management of Chemicals** | Penny Vlahos, Lena Vierke, Miriam L. Diamond, Marlene Ågerstrand	
	6.11.T-04 POPs Global Monitoring, capactiy building and data integration under the UNEP/GEF projects | **Victor Estellano Schulze**, UNEP Chemicals & Health Branch, Switzerland	**6.11.T-05** Assessing Regional / National Capacity for Monitoring and Research on POPs in Water in Selected UNEP regions | **Derek Muir**, University of Guelph, Canada
Italica (Fibes 1)	| Stefan Kools, Despo Fatta-Kassinos, Ulla Bollmann, Marc Teixidó	
	3.18.B.T-04 Wastewater Surveillance for Real-Time Micropollutant Monitoring and Advanced Treatment Assessment | **George Ruck**, National Research Institute for Agriculture, Food and Environment (INRAE), France	**3.18.B.T-05** Is the conventional treatment process sufficient to decrease the ecotoxicological effect of wastewater? | **Maria Catalina Trejos Delgado**, Goethe University Frankfurt, Germany
Ronda (Fibes 1)	**Marine and Coastal Pollution: Detection, Monitoring, Assessment, Regulation, and Management** | Mathijs Smit, Kari K. Lehtonen, Ioanna Katsiadaki.	
	4.08.B.T-04 Microplastics as Toxicant Vectors: Comparisons with Natural Particles in a Marine Trophic Web | **Estefanía Pinto**, University of Vigo, Spain	**4.08.B.T-05** Antibiotic Occurrence and Distribution in a Coastal Areas with Aquaculture Activity. | **Santiago Otaiza González**, Catalan Institute for Water Research (ICRA), Spain

LUNCH & POSTER BREAK

Monday Platform Presentations Afternoon

	14:30	14:45	15:00
Auditorium 1	**The Fate and Effects of Micro- And Nano-Plastics in Relation to Human Health Exposure** | Alberto Katsumiti, Steffen Foss Hansen, Jane Muncke, Tanja Ćirković Veličković		
	4.13.T-01 21GRD07 PlasticTrace Metrological traceability of measurement data from nano- to small microplastics for a greener environment and food safety | **Andrea Giovannozzi**, Istituto Nazionale di Ricerca Metrologica (INRiM), Italy	**4.13.T-02** Carcinogenicity of micro- & nanoplastics long-term exposure | **Alba Hernández**, Autonomous University of Barcelona (UAB), Spain	**4.13.T-03** From in vitro to in vivo; a tiered approach to study microplastic dynamics and immunotoxicity | **Tim Skrabanja**, UMC Utrecht, Netherlands
Auditorium 2	**Life Cycle Impact Assessment – Advances in Modelling and Application** | Roland Hischier, Stephan Pfister, Francesca Verones, Olivier Jolliet		
	5.05.B.T-01 Regionalized Characterization Factors for Microplastics Emissions in the Marine Environment | **Carla Hajjar**, CIRAIG-Ecole Polytechnique de Montreal, Canada	**5.05.B.T-02** Spatial assessment of the environmental sustainability impacts of pesticide use across Europe | **Farshad Soheilifard**, Technical University of Denmark, Denmark	**5.05.B.T-03** Highly Resolved Life Cycle Impact Assessment of Global Industrial Air Pollution | **Christopher Oberschelp**, ETH Zürich, Switzerland
Auditorium 3	**Alternatives to Animal Testing for Ecotoxicity Assessments: Exploring Approaches and Avenues for the Future | ...**		
	1.02.T-01 Importance of internal concentrations and toxicokinetics to classify modes of action of organic chemicals in the zebrafish embryo (Danio rerio) | **Nico Grasse**, Helmholtz Center for Environmental Research (UFZ), Germany	**1.02.T-02** Establishing a 24-Hour, Microplate-Based, Transcriptomics Assay for Rainbow Trout Embryos | **Niladri Basu**, McGill University, Canada	**1.02.T-03** Using Endpoint Response Patterns to Aid Interpretation, Support Read-Across and Reduce Testing with the Amphibian Metamorphosis Assay | **Daniel Pickford**, Syngenta Group, United Kingdom
Madrid ABC	**Application of Biomonitoring Approaches to Support Surveillance of Chemical Exposure in the Environment** | Thomas Miller, Leon Barron, Nicolas Bury, Stewart Owen		
	3.06.T-01 On-site Application of Biological Early Warning Systems in combination with high resolution Online-Chemical Monitoring | **Ali Kizgin**, Ecotox Center Eawag-EPFL, Switzerland	**3.06.T-02** Development of a Holistic Approach for River Health Assessment: from Bioindicators to the Ecosystem | **Isabella Calattini**, University of Siena, Italy	**3.06.T-03** Temporal and Spatial patterns of Xenobiotics in German fish | **Belen Gonzalez-Gaya**, University of the Basque Country (UPV/EHU), Spain
Madrid DEF	**Advancements in Bioremediation and Phytoremediation for Addressing Persistent and Emerging Pollutants in Contaminated and Degraded Ecosystems | ...**		
	4.01.B.T-01 Differential Distribution of Pharmaceutical Compounds in Water, Sediments and Biota of a full-scale Constructed Wetland | **Maria Valdes**, University of Girona (UdG), Catalan Institute for Water Research (ICRA), Spain	**4.01.B.T-02** Reduction of Perfluoroalkyl Acids in Leachate from Industrial Waste Disposal Sites by Bacteria Isolated from Contaminated River Sediments | **Hideyuki Inui**, University of Lodz, Kobe University, Poland, Japan	**4.01.B.T-03** Thinking Out of the Box: Daphnia as a Sentinel Species for Environmental Health and Water Reclamation | **Luisa Orsini**, University of Birmingham, United Kingdom
Bruselas	**Assessing and Predicting the Impact of Chemical Pollution on Marine Mammals: Challenges to Be Overcome, Future Prospects, and Conservation Strategies | ...**		
	2.03.T-01 How to detect impact of multiple anthropogenic stressors in Mediterranean cetaceans: the first application of exposomics | **Maria Cristina Fossi**, University of Siena, Italy	**2.03.T-02** Associations Between Dietary Fatty Acid Tracers and Blubber PCB Concentrations in Eastern Beaufort Sea Belugas | **Laura Zeppetelli-Bédard**, University of Quebec in Montreal (UQAM), Canada	**2.03.T-03** Fatty Acid Carbon Isotopes as a New Approach to Assess POP and Hg Accumulation among Marine Mammals and through Food Webs in the Arctic | **Adam Pedersen**, McGill University, Canada
Paris	**Measuring and Modelling the Environmental Fate and Exposure of Pesticides** | Bernhard Jene, Pauline Iris Adriaanse, Joachim Dayteg		
	3.15.C.T-01 Occurrence and Bioaccessibility of Pesticides in Agricultural Plastics | **Isaac Rodriguez Pereiro**, University of Santiago de Compostela, Spain	**3.15.C.T-02** Testing the PEC-CKB Model with Data from a Monitoring Study in Small Freshwater Streams in Germany | **Paula Scharlach**, Systems Science Group, Institute of Mathematics, Germany	**3.15.C.T-03** > Sixty-Year Historical Records- Fate and Persistence of Plant Protection Products in Aquatic Systems | **Aurea Hernández**, University of Bern, Switzerland
Al Andalus (Fibes 1)	★ **Establishment of a Science-Policy Panel to Contribute Further to the Sound Management of Chemicals, Waste, and Pollution Prevention** | Michelle Bloor, SETAC CheM Panel		
	14:35	**14:45**	
	8.05.T-01 Toward Sustainable Environmental Quality: Horizon Scanning Background, Priority Research Questions for Europe, and Final Themes	**8.05.T-02** Interactive voting: ranking and evaluation of the Horizon Scanning questions	
Italica (Fibes 1)	**Next-Generation Urban Water Management: Improved Understanding of the Fate of Micropollutants, Transformation Products, Pathogens, and Antimicrobial Resistance | ...**		
	3.18.C.T-01 Evaluating membrane bioreactor treatment for the elimination of emerging contaminants using different analytical methods | **Naroa Lopez**, Research Centre for Experimental Marine Biology and Biotechnology (PiE-UPV/EHU), University of the Basque Country (EHU/UPV), Spain	**3.18.C.T-02** Bioaccumulation Of Emerging Contaminants: A Fishy Story | **Ganna Fedorova**, University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, Czech Republic	**3.18.C.T-03** On the Trail of Persistent Mobile and Toxic Compounds in Urban Stormwaters: Case Study of Barcelona Municipality | **Filippo Chierchini**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain
Ronda (Fibes 1)	**Unveiling the Chemical Exposome: Insights From Human Biomonitoring and Its Influence on Adverse Health Outcomes | ...**		
	3.24.T-01 Non-targeted screening for bisphenol related contaminants and restricted or unusual parabens in human milk | **Stéphane Bayen**, McGill University, Canada	**3.24.T-02** Longitudinal Profiling of the Human Blood Chemical Exposome | **Stefano Papazian**, Stockholm University / Science for Life Laboratory (SciLifeLab), Sweden	**3.24.T-03** A Step Towards Assessing the Early Exposure to Per- And Poly-fluorinated Compounds (PFAS) in Childhood and Adolescence: A Human Biomonitoring Cohort Study | **Anne Martínez**, University of the Basque Country (UPV/EHU), Spain

Monday Platform Presentations Afternoon

	15:15	15:30
Auditorium 1	**The Fate and Effects of Micro- And Nano-Plastics in Relation to Human Health Exposure** | Alberto Katsumiti, Steffen Foss Hansen, Jane Muncke, Tanja Ćirković Veličković	
	4.13.T-04 Influence of Simulated Gastrointestinal Digestion on the Toxicity of HDPE and PET Microplastics with and without V. parahaemolyticus Biofilm | **Itziar Polanco**, GAIKER Technology Centre, Basque Research and Technology Alliance (BRTA), Spain	**4.13.T-05** Developing Analytical Methods to Measure Exposure to Micro- and Nanoplastics in Early-life Matrices | **Laura Zoutendijk**, Utrecht University, Netherlands
Auditorium 2	**Life Cycle Impact Assessment – Advances in Modelling and Application** | Roland Hischier, Stephan Pfister, Francesca Verones, Olivier Jolliet	
	5.05.B.T-04 Incorporating Ecosystem Services in LCIA - Recommendations from GLAM 3 | **Tim Grant**, Life Cycle Strategies Pty. Ltd., Australia	**5.05.B.T-05** Poster spotlight (B): 5.05.P-Mo472, 5.05.P-Mo473, 5.05.P-Mo474
Auditorium 3	| Adam Lillicrap, Kristin Schirmer, Teresa J Norberg-King, Constance Mitchell	
	1.02.T-04 An In Vitro Disposition Model for the Fish Cell Assay According to OECD Test Guideline 249 | **Jo Nyffeler**, Helmholtz Centre for Environmental Research (UFZ), Germany	**1.02.T-05** Poster spotlight: 1.02.P-Mo001, 1.02.P-Mo002, 1.02.P-Mo015
Madrid ABC	**Application of Biomonitoring Approaches to Support Surveillance of Chemical Exposure in the Environment** | Thomas Miller, Leon Barron Dr, Nicolas Bury, Stewart Owen	
	3.06.T-04 Exploring Plant Protection Product Dynamics in Terrestrial Ecosystems: Insights from Bee Pollen | **Sergio Cirelli**, University of Bern, Switzerland	**3.06.T-05** Polyhalogenated Carbazoles in the Food Web of the St. Lawrence Estuary Beluga Population. | **Alexis Trinquet**, Institut des Sciences de la Mer de Rimouski, Canada
Madrid DEF	| Anna Barra Caracciolo, Jose Julio Ortega-Calvo, Begoña Jiménez, Vladimir Beskoski	
	4.01.B.T-04 Shifts in the Nitrogen Cycle of a Metal- and Polycyclic Aromatic Hydrocarbon Contaminated Soil Amended with Biochar and Peat | **Ingrid Rijk**, Oerebro University, Sweden	**4.01.B.T-05** Effectiveness of the Orion poplar clone in phyto-assisted bioremediation from polychlorinated biphenyl and heavy metals | **Valeria Ancona**, Italian National Research Council - Water Research Institute (CNR-IRSA), Italy
Bruselas	| Anais Remili, Antoine Etienne Simond, Rune Dietz, Krishna Das	
	2.03.T-04 Contaminant associated health effects revealed through a non-invasive metabolomics platform in at-risk killer whales in the Northeastern Pacific | **Tanya Brown**, Simon Fraser University, Fisheries and Oceans Canada, Canada	**2.03.T-05** A Framework for Developing Harmonized Environmental Quality Guidelines for Persistent Bioaccumulative Chemicals for the Protection of Marine Mammals and Their Habitat | **Brendan Hickie**, Trent University, Canada
Paris	**Measuring and Modelling the Environmental Fate and Exposure of Pesticides** | Bernhard Jene, Pauline Iris Adriaanse, Joachim Dayteg	
	3.15.C.T-04 Contaminated Landscapes – Current Use Pesticides Residues in Soil and Vegetation along Altitudinal Gradients in a European Alpine Valley | **Carsten Brühl**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany	**3.15.C.T-05** Poster spotlight: 3.15.P-Mo254, 3.15.P-Mo265, 3.15.P-Mo266
Al Andalus (Fibes 1)	★ **Establishment of a Science-Policy Panel to Contribute Further to the Sound Management of Chemicals, Waste, and Pollution Prevention** | Michelle Bloor, SETAC CheM Panel	
	15:10	**15:40**
	8.05.T-03 Open discussion and interactive Q/A	**8.05.T-04** Concluding Remarks
Italica (Fibes 1)	| Stefan Kools, Despo Fatta-Kassinos, Ulla Bollmann, Marc Teixidó	
	3.18.C.T-04 The Journey of Organic Micropollutants from Water towards Soil and Crops in a Reclaimed Water Irrigation System | **Lucas Alonso**, Catalan Institute for Water Research (ICRA), Spain	**3.18.C.T-05** Assessing the Impact of Municipal Effluent Discharge on a Small Watercourse in Aartselaar, Belgium: A Multi-Level Evidence Approach. | **Birte Raes**, Aquafin, Netherlands
Ronda (Fibes 1)	| Montse Marquès, Pablo Gago-Ferrero, Ruben Gil-Solsona, Adrià Sunyer-Caldú	
	3.24.T-04 Advanced suspect screening approach for silicone wristbands and urine to reveal the early-life chemical exposome | **Camilla Guerrini**, Rovira i Virgili University (URV), Spain	**3.24.T-05** Poster spotlight: 3.24.P-Th423, 3.24.P-Th424, 3.24.P-Th425

COFFEE & POSTER BREAK

Schedule

Setup	9:00–9:30
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	18:15–18:45
Poster Corners	16:00–16:45

Late-Breaking Science Posters

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

Poster Corners

Assessing Adverse Pollutant Effects on Host-Associated and Free-Living Microbiomes Using -Omics Approaches | Alexander Feckler, Tamara Garcia-Barrera, Daniel Globisch, MCarmen Collado

Poster Corner 1 (Floor 1)

1.03.P-Mo039, 1.03.P-Mo040, 1.03.P-Mo042, 1.03.P-Mo043, 1.03.P-Mo047, 1.03.P-Mo048

In Silico Ecotoxicology: Using Existing and Emerging Data to Characterize Chemical Impacts from Individuals to Ecosystems | Marissa B Kosnik, Anže Županič, Andreu Rico

Poster Corner 2 (Floor 1)

1.08.P-Mo049, 1.08.P-Mo050, 1.08.P-Mo051, 1.08.P-Mo052, 1.08.P-Mo053

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

Poster Corner 3 (Floor 1)

3.15.P-Mo229, 3.15.P-Mo230, 3.15.P-Mo240, 3.15.P-Mo241, 3.15.P-Mo247, 3.15.P-Mo248

Next-Generation Urban Water Management: Improved Understanding of the Fate of Micropollutants, Transformation Products, Pathogens, and Antimicrobial Resistance | Stefan Kools, Despo Fatta-Kassinos, Ulla Bollmann, Marc Teixidó

Poster Corner 4 (Floor 1)

3.18.P-Mo280, 3.18.P-Mo281, 3.18.P-Mo282, 3.18.P-Mo283, 3.18.P-Mo284, 3.18.P-Mo285

Marine and Coastal Pollution: Detection, Monitoring, Assessment, Regulation, and Management | Mathijs Smit, Kari K. Lehtonen, Ioanna Katsiadaki

Poster Corner 5 (Floor 1)

4.08.P-Mo362, 4.08.P-Mo363, 4.08.P-Mo365, 4.08.P-Mo366, 4.08.P-Mo369, 4.08.P-Mo380

The Fate and Effects of Micro- And Nano-Plastics in Relation to Human Health Exposure | Alberto Katsumiti, Steffen Foss Hansen, Jane Muncke, Tanja Ćirković Veličković

Poster Corner 6 (Floor 3)

4.13.P-Mo400, 4.13.P-Mo401, 4.13.P-Mo402, 4.13.P-Mo403, 4.13.P-Mo441, 4.13.P-Mo442

Life Cycle Impact Assessment – Advances in Modelling and Application | Roland Hischier, Stephan Pfister, Francesca Verones, Olivier Jolliet

Poster Corner 7 (Floor 3)

5.05.P-Mo475, 5.05.P-Mo476, 5.05.P-Mo477, 5.05.P-Mo478, 5.05.P-Mo479, 5.05.P-Mo480

Flame Retardants and Regulation, Connecting Substance Grouping and Circular Economy | Jacob de Boer, Stuart Harrad, Martin Sharkey

Poster Corner 8 (Floor 3)

6.05.P-Mo501, 6.05.P-Mo502, 6.05.P-Mo503, 6.05.P-Mo504, 6.05.P-Mo505, 6.05.P-Mo506

Poster Sessions

POSTER AREA 1

Alternatives to Animal Testing for Ecotoxicity Assessments: Exploring Approaches and Avenues for the Future | Adam Lillicrap, Kristin Schirmer, Teresa J Norberg-King, Constance Mitchell

1.02.P-Mo001 Single and Combined Effects of Sertraline and Polyhydroxybutyrate Nanoplastics to Amphibians: An In Vitro and In Vivo Approach | **Isabel Lopes**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

1.02.P-Mo002 Screening Chemicals Using High-Throughput Phenotypic Profiling (HTPP) in Two Zebrafish Cell Lines | **Bruno Campos**, Unilever - Safety and Environmental Assurance Centre (SEAC), United Kingdom

1.02.P-Mo003 Ecdysone Receptor Agonism Adverse Outcome Pathway Validation for Insect-Specific In Vitro Assay Development | **Rebeka Darmati**, Wageningen University & Research, Netherlands

1.02.P-Mo004 Predicting Acute Fish Toxicity with the RTgill-W1 Assay (OECD TG 249): Putting it into Regulatory Practice | **Karen Jenner**, Givaudan UK Ltd, United Kingdom

1.02.P-Mo005 Breaking the silos: Towards a holistic approach of animal-free human and environmental health safety assessments of cosmetics | **Amelie Ott**, International Collaboration on Cosmetics Safety (ICCS),

1.02.P-Mo006 Lessons learnt from XETA OECD TG248 for implementation of NAMs in regulatory assessment of endocrine activity. | **David Du Pasquier**, Watchfrog S.A., France

1.02.P-Mo007 Advancing Thyroid Hormone Disruption Assessment: Integration of Adverse Outcome Pathway Network and Cross-Species Relevance of In Vitro Bioassays | **Jiri Novak**, RECETOX, Masaryk University, Czech Republic

1.02.P-Mo008 Frequency of Malformations in Zebrafish Embryos Exposed to Metals | **Alma Sobrino-Figueroa**, Universidad Autonoma Metropolitana Iztapalapa, Mexico

1.02.P-Mo009 Assessing the Applicability Domain of Fish Embryo Acute Toxicity (FET) Test as Alternatives of Fish Acute Toxicity Test, Utilizing Time-to-death Data in FET Test | **Riping Huang**, National Institute for Environmental Studies (NIES), Japan

1.02.P-Mo010 Development of an In vitro Marine Fish Bioassay for Characterizing Environmental Impact of Industry Development in the Arctic | **Maria Hultman**, Norwegian Institute for Water Research (NIVA), Norway

1.02.P-Mo011 Are both the water and the solvent control required in fish early-life stage toxicity tests? | **Christopher Fassbender**, PETA Science Consortium International e.V., Germany

1.02.P-Mo012 Fins to Future: Assessing the Role of Acute Fish Toxicity Testing in Risk Assessments of Plant Protection Products in the EU and the US | **Elena Adams**, Bayer AG - Crop Science Division, Germany

1.02.P-Mo013 A Network for Alternative Methods for ecological safety assessment of chemicals (ecoNAM) | **Adam Lillicrap**, Norwegian Institute for Water Research (NIVA), Norway

1.02.P-Mo014 Caenorhabditis elegans Life Cycle Tests as Screening Tools to Unveil the Underlying Adverse Effects of Chemicals in Reproduction | **Fábio Campos**, CESAM - Centre for Environmental and Marine Studies and Department of Biology, University of Aveiro, Portugal

1.02.P-Mo015 Initiatives for the regulatory acceptance of New Approach Methodologies, how does it all connect? | **Leonie Mueller**, Altertox, Belgium

1.02.P-Mo016 Prediction of the In Vivo Acute Toxicity of Agrochemicals to Fish with the In Vitro RTgill-W1 Cell Line Assay | **Gunnar Schmidt**, BASF SE, Germany

1.02.P-Mo017 Animal-free In Vitro Assessment of Receptor-Mediated Endocrine Activity Including Phase-1 Metabolism | **Inska Reichstein**, Goethe University Frankfurt, Germany

1.02.P-Mo018 Challenges in the Application of New Approach Methodologies (NAMs) to Assess the Ecological Hazard of Unknown, Variable, Complex and/or Biological substances (UVCBs) | **Maria Blanco-Rubio**, Shell Global Solutions, Netherlands

1.02.P-Mo019 Advancing Chronic Fish Testing: Needs and Challenges for Alternative Approaches | **Julie Krzykwa**, Health and Environmental Sciences Institute (HESI), USA

1.02.P-Mo020 Importance of the positive control in the Fish Cell Line Acute Toxicity - The RTgill-W1 cell line assay (OECD TG249) | **Jennifer Fitzgerald**, aQua-Tox-Solutions GmbH, Switzerland

1.02.P-Mo021 Screening Naphthenic Acid Contamination in the Athabasca Oil Sands Region in Chicken LMH 3D Spheroids | **Laura Van Raalte**, Environment and Climate Change Canada, Carleton University, Canada

1.02.P-Mo022 Evaluation of Positive Control Substrates for the OECD319 In Vitro Rainbow Trout Bioaccumulation Estimation Studies | **Rory Mumford**, Smithers, United Kingdom

1.02.P-Mo023 Application of OECD TG 249 for assessment of the toxicity of metal oxide nanomaterials | **Mariia Goncharova**, National Institute for Agricultural and Food Research and Technology (INIA), Spain

1.02.P-Mo024 Towards next generation risk assessment for Environmental Health: how PARC Work Package 5 is contributing | **Celia Garcia Arenas**, German Federal Institute for Risk Assessment (BfR), Germany

1.02.P-Mo025 What is the most sensitive cellular scale bioassay to multiple chemicals with different mode of action? | **Yan Wang**, University of Copenhagen, Denmark

1.02.P-Mo026 Identification of ToxCast bioassays associated with developmental and reproductive toxicity and their application to mechanism-based chemical screening: Case study with biocidal chemicals under K-BPR | **Donghyeon Kim**, University of Seoul, Korea, Republic of (South)

1.02.P-Mo027 Transcriptomic points of departure for solvent and positive controls in rainbow trout and human cell lines | **Krittika Mittal**, McGill University, Canada

1.02.P-Mo028 Microbial Assays for Risk Assessment to Evaluate Toxicity of Chemicals and Environmental Samples | **Kirit Wadhia**, NOV Inc, United Kingdom

1.02.P-Mo029 Utility of QSARs and zebrafish embryos toxicity results in a simplified assay and in the OECD TG 236 to predict the fish acute toxicity of fragrance ingredients | **Arantza Muriana**, BBD BioPhenix S.L. - Biobide, Spain

1.02.P-Mo030 Optimization of Experimental Conditions in Microphysiological systems (MPS) and Evaluation of Hepatotoxicity of Triphenyl Phosphate (TPHP) in HepG2 Cells | **Ji Yun Kang**, Seoul National University of Science and Technology, Korea, Republic of (South)

1.02.P-Mo031 Digital Patterns for the Detection and Prediction of Chemically Induced Endocrine Disruption in Fish (DiMEP = Digitale Muster Erkennung und Prädiktion) | **Hannes Reinwald**, Bayer AG, Germany

1.02.P-Mo032 Advances Towards a Harmonized Environmental Safety Analytical Toolbox for Cosmetic Ingredients (ATEST) | **Adam Lillicrap**, Norwegian Institute for Water Research (NIVA), Norway

1.02.P-Mo033 Critical review of in vitro dosing methods for petroleum UVCB substances | **Adam Lillicrap**, Norwegian Institute for Water Research (NIVA), Norway

1.02.P-Mo035 Comparative in vitro characterization of biotransformation enzyme kinetics in different organs of brown trout (Salmo trutta) and rainbow trout (Oncorhynchuss mykiss) | **Marco Franco**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

1.02.P-Mo036 Characterization of rainbow trout hepatic 3D spheroids for next generation ecotoxicity testing | **Prem Chand**, Norwegian Institute for Water Research (NIVA), Norway

1.02.P-Mo037 A review of in silico and in vitro methods for use in a risk assessment of a substance acting via oestrogen or androgen modalities | **Rebecca Brown**, wca environment Ltd., United Kingdom

1.02.P-Mo038 Cytotoxic Disruption of Intracellular Parameters Induced by Thiacloprid in Mice Sertoli Cells In vitro | **Tomas Jambor**, Slovak University of Agriculture in Nitra, Slovakia

Assessing Adverse Pollutant Effects on Host-Associated and Free-Living Microbiomes Using -Omics Approaches | Alexander Feckler, Tamara Garcia-Barrera, Daniel Globisch, MCarmen Collado

1.03.P-Mo039 Chemical Metabolomics – New Chemical Biology Tools to Explore Gut Microbiome Metabolism | **Daniel Globisch**, Uppsala University, Sweden

1.03.P-Mo040 Assessment of Taxonomic and Functional Changes in the Environmental Symbiotic and Free-living Microbiome Induced by Ag and Cu Metals | **Julian Blasco**, Institute of Marine Sciences of Andalusia - Spanish National Research Council (ICMAN-CSIC), Spain

1.03.P-Mo041 Gut Microbiota of Zebra Mussels (Dreissena polymorpha) as a Holobiont Concept- Significantly Reliable Method for Aquatic Environment Monitoring? | **Katerina Fialova**, Université de Lorraine, CNRS, LIEC, F-57000 Metz, France, France

1.03.P-Mo042 From dysbiosis to neuropathologies: toxic effects of glyphosate in zebrafish | **Juliette Bedrossiantz**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.03.P-Mo043 Examining the Interlinked Dynamics of Human Activities, Microbial Communities, and Greenhouse Gas Emissions in a highly impacted river system | **Milena Esser**, University of Saskatchewan, Canada

1.03.P-Mo044 Metal Pollution Affects the Early-life Gut Microbiota in Small Passerine Birds | **Miia Rainio**, University of Turku, Finland

1.03.P-Mo045 Distribution of metals and pesticides in spoonbills from natural areas of the southwest Spain. The impact on the microbial-produced metabolites and gut microbiota | **Cristina Navarro Fernández**, Research Center for Natural Resources Health and The Environment (RENSMA). Department of Chemistry, Faculty of Experimental Sciences, Spain

1.03.P-Mo046 Microbial Changes in Treated Wastewater Irrigated Paddy Soils and the Impacts on Biogeochemical Cycles | **Susan Praise**, Faculty of Agriculture, Yamagata University,

1.03.P-Mo047 Beyond Nutrition: Breast milk Minerals Shape Infant Microbiota | **Eduard Ventura**, Institute of Agrochemistry and Food Technology, Spanish National Research Council (IATA-CSIC), Spain

1.03.P-Mo048 Potential associations of chiral thyroid hormones and microbiota in human milk | **Rafael de Fátima Vélez-Pérez**, Universidad de Huelva. Research Center for Natural Resources, Health and The Environment (RENSMA), Spain

In Silico Ecotoxicology: Using Existing and Emerging Data to Characterize Chemical Impacts from Individuals to Ecosystems | Marissa B Kosnik, Anže Županič, Andreu Rico

1.08.P-Mo049 Assessing Chronic Effects of Chemical Pollution on Biodiversity Using Mean Species Abundance Relationships | **Venja Schoenke**, Radboud University Nijmegen, Netherlands

1.08.P-Mo050 Integrating Time-Resolved Gene-Expression Data into TKTD Models to Approximate Toxicodynamic Damage | **Florian Schunck**, Osnabrück University, Germany

1.08.P-Mo051 Forwarding maturation of Species Sensitivity Distributions using Machine Learning | **Pim Wassenaar**, National Institute for Public Health and the Environment (RIVM), Netherlands

1.08.P-Mo052 The Effects of Pollution and Foraging Adaptation on the Stability of Ecological Communities | **Andreu Rico**, IMDEA Water Institute, University of Valencia, Spain

1.08.P-Mo053 Vitamin K 2,3-epoxide reductase molecular identity range the binding affinities to anticoagulant rodenticides of Rodentia | **Azucena Bermejo-Nogales**, Institute for Agricultural and Food Research and Technology, Spanish National Research Council (INIA-CSIC), Spain

1.08.P-Mo054 Using Comparative Genomics to Develop 'Digital Twins' to Support Ecotoxicological Predictions | **Rama Krishnan**, Cardiff University, United Kingdom

1.08.P-Mo055 ADORE is for Lovers: A Benchmark Dataset for Machine Learning in Ecotoxicology | **Christoph Schuer**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

1.08.P-Mo056 Identifying Molecular Endpoints to Assess the Biological Response of Contaminant of Emerging Concern in Marine Mammals: an In Silico Approach | **Antonino Alessi**, University of Siena, Italy

1.08.P-Mo057 Developing an Ecosystem-Level Assessment Framework for Ecological Impacts of Accidental Chemical Exposure in Korean Freshwater: A Simulation-Based Approach Using the AQUATOX Model | **Jaehoon Yeom**, Gwangju Institute of Science and Technology, Korea, Republic of (South)

1.08.P-Mo058 Derivation of environmental quality standards for free cyanide in freshwater and marine surface waters by species sensitivity distribution including censored data | **Stan de Groot**, National Institute for Public Health and the Environment (RIVM), Netherlands

1.08.P-Mo059 Developing a Database for Comprehensive Assessment of Fish Reproductive Toxicity | **Vid Modic Modic**, NIB, National Institute of Biology, Slovenia

1.08.P-Mo060 In Silico Approaches to Characterize Chemical Impacts on Genetic Diversity | **Marissa Kosnik**, Department of Environmental Toxicology, Eawag: Swiss Federal Institute of Aquatic Science and Technology, Switzerland

Invertebrate Species in Ecotoxicology: Challenges and Opportunities in a Global Change Scene | Carlos Barata, Konstantinos Grintzalis, Katie Reilly, Eberhard Kuester

1.09.P-Mo061 Toxicokinetic profiling of ZnO:Mn multicomponent nanomaterials in Daphnia magna | **Kahina Mehennaoui**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

1.09.P-Mo062 When Daphnia glow and tell us what's wrong: An Image-based screening method using Calcein AM in whole organisms for rapid assessment of chemicals | **Amira Perez**, Stockholm University, Sweden

1.09.P-Mo063 Impact of Antineoplastic Agents in the Survival and Cellular Homeostasis of Daphnia magna | **Madalena Vieira**, University of Aveiro (UA), Portugal

1.09.P-Mo064 The Sub-lethal effects of Water Accommodated Fraction from chemically dispersed Marine Gas Oil on the North Atlantic copepod Calanus finmarchicus | **Tamer Hafez**, CBET+, PiE, University of the Basque Country UPV/EHU, Spain

1.09.P-Mo065 Developing a Protocol for Measuring Viability and DNA Damage in Sperm Cells of Marine Amphipods | **Marina Botelho**, School of Technology – State University of Campinas, Brazil

1.09.P-Mo066 Framework for Immunotoxicological Studies using the Marine Amphipod Parhyale hawaiensis: Hemocytes Characterization | **Amanda dos Santos**, School of Pharmaceutical Sciences - São Paulo State University, Center for Energy and Petroleum Studies - University of Campinas, Brazil

1.09.P-Mo067 The toxic effect of plastic leachate on marine periwinkle Littorina littorea | **Daria Bedulina**, Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research, Germany

1.09.P-Mo068 BPE exposure of the snail Lymnaea stagnalis: investigating effects in embryos, adults and after parental exposure | **Gaëtan Tucoo**, University of Southern Denmark (SDU), Denmark

1.09.P-Mo069 Effects of Culturing Conditions on Metal Toxicity to Lymnaea stagnalis - Focus on Diet | **Mariem Fadhlaoui**, Institut national de la recherche scientifique, Canada

1.09.P-Mo070 How can we Better Understand Ecosystem Scale Effects of Neuroactive Chemicals? | **Joe D'Souza**, Cardiff University, United Kingdom

1.09.P-Mo071 Assessing the Effects of Chemicals on UK-Relevant Freshwater Invertebrates | **Amy Ockenden**, University of Sheffield, United Kingdom

1.09.P-Mo072 Implications of WWTP Upgrade on aquatic organisms: Gammarids and NGS | **Miriam Langer**, University of Applied Sciences and Arts Northwestern Switzerland (FHNW), Switzerland

1.09.P-Mo073 Effects of Biodegradable Microplastics on the crustacean isopod Idotea balthica basteri Pallas, 1772 | **Amalia Amato**, Stazione Zoologica Anton Dohrn, Naples, Italy

1.09.P-Mo074 Salinity fluctuations impact behavior of copepods: in situ monitoring using the multispecies freshwater biomonitor | **Mette Albreksen**, Roskilde University, Denmark

1.09.P-Mo075 Flow Cytometry as a Tool to Assess the Responses of Mytilus edulis Digestive Cells to Contaminants Present in the Arctic | **Tania Gomes**, Norwegian Institute for Water Research (NIVA), Norway

1.09.P-Mo076 Can primary producers act as vector of nanoplastics bioaccumulation on small filter feeders? | **Miguel-Ángel Serra**, European Commission Joint Research Centre JRC, Italy

1.09.P-Mo077 Sublethal Effects On Planktonic Biota Of New Phosphorus Adsorbents Used For Lake Restoration | **María Gómez-Pozuelos**, University of Granada (UGR), Spain

1.09.P-Mo078 Indirect effects in mudsnails through dietary uptake? | **Sophie Oster**, Institute for Environmental Sciences, RPTU Kaiserslautern-Landau, Germany

1.09.P-Mo079 The Impact of Environmental Factors on the Growth and Development of a Laboratory Culture of Cloeon dipterum | **Hanna Schuster**, Cambridge Environmental Assessments (CEA), United Kingdom

1.09.P-Mo080 Effects of the UV filter 4-hydroxybenzophenone at the molecular level on the aquatic invertebrate Chironomus riparius | **Jose-Luis Martinez-Guitarte**, UNED, Spain

1.09.P-Mo081 Toxicology Effects of Guanidinium Isothiocyanate In the Biological Model: Caenorhabditis Elegans | **Elin Manrique- J**, University of Cartagena, Colombia

1.09.P-Mo082 A geometric framework approach to understand multi-metal toxicity on individual organisms to evaluate relative risks and benefits of pollution and mitigation | **Eleanor Phillips**, University of Sheffield, United Kingdom

1.09.P-Mo083 Effects of three antibiotics (tetracycline, ciprofloxacin, sulfamethoxazole) on survival, growth, reproduction, behaviour and antioxidant enzymes of the earthworm Dendrobaena veneta | **Jurate Zaltauskaite**, Vytautas Magnus University, Lithuania

1.09.P-Mo084 Assessment of Emerging Pollutants in Wastewater Impact on Fuente de Piedra Wetland: A Toxicological Study on a Native Species (Daphnia magna) | **Emilio Moreno**, University of Granada (UGR), Spain

1.09.P-Mo085 Acute and chronic toxicity of four short- and ultrashort-chain perfluoroalkyl substances in Daphnia magna and Hydra vulgaris | **Magali Houde**, Environment and Climate Change Canada, Canada

1.09.P-Mo086 A High Throughput Adaptation of Standardized Ecotoxicological Exposure Tests in Daphnia magna and Other Invertebrates | **Angel Ceballos Ramirez**, University of York, United Kingdom

1.09.P-Mo087 Nanoplastic-Induced Genotoxicity in Daphnia pulex | **Thomas Nash**, University of Leeds, United Kingdom

1.09.P-Mo088 "An automated flow-through exposure system for the evaluation of challenging substances in the Daphnia reproduction test" | **Johannes Völker**, Innovative Environmental Services (IES) Ltd, Switzerland

1.09.P-Mo089 JC-1 and High-Content Imaging to Quantify Mitochondrial Toxicity in Daphnia magna | **Cedric Abele**, Stockholm University, Sweden

1.09.P-Mo090 The Effect of Wildland Fire-fighting Chemicals on the Reproductive Success of Ceriodaphnia dubia | **Holly Puglis**, U.S. Geological Survey, USA

1.09.P-Mo091 Exploring mode-of-action for acute toxicity of primary aromatic amines with D. magna using differential gene expression analysis | **Ilias Semmouri**, Ghent University (UGent), Belgium

1.09.P-Mo092 Alternative Assays for Routine Toxicity Assessment | **Wouter Lanneau**, Microbiotests, Belgium

1.09.P-Mo093 Protection over Prediction: Daphnids Safeguard the Use of Alternatives to the Acute Fish Toxicity Test | **Martin Paparella**, Medical University of Innsbruck, Austria

1.09.P-Mo094 Inorganic turbidity modifies the effect of glyphosate on Daphnia magna | **Fernando Martínez-Jerónimo**, Instituto Politécnico Nacional. Escuela Nacional de Ciencias Biológicas, Mexico

1.09.P-Mo095 Prediction of the toxicity of 14 compounds on Daphnia magna by using cultures of the yeast Schizosccharomyces pombe | **Sara Maisanaba**, Universidad Pablo de Olavide de Sevilla, Spain

1.09.P-Mo096 Assessing the Toxicity of Cytarabine in Daphnia magna Through Apical and Cellular Endpoints | **Madalena Vieira**, University of Aveiro (UA), Portugal

1.09.P-Mo097 Model species culturing made easier using an automated device: case study D. magna | **Sizenando Abreu**, Tekenbio, University of Aveiro, Portugal

1.09.P-Mo098 Daphnia magna as an Indicator for Aquatic Species in the Non-target Risk Assessment of Genetically Modified Maize | **Michael Peter Meissle**, Agroscope, Switzerland

1.09.P-Mo099 Dearbhla, the Daphnia, and her research highlights | **Katie Reilly**, University of Birmingham, United Kingdom

1.09.P-Mo100 Development of a Transcriptomics-based Testing System to Identify Environmental Stressors in Freshwater Invertebrates using Daphnia pulex as a Model Organism | **Jake Bowley**, University of Exeter, United Kingdom

1.09.P-Mo101 Long-term Consequences of a Mosquito Control Agent on Insect Emergence – Insights From a Four Year Mesocosm Study | **Agnes Schöndorfer**, University of Kaiserslautern-Landau (RPTU), Germany

1.09.P-Mo102 Beyond Microplastics: Water Soluble Synthetic Polymers Exert Sublethal Adverse Effects In The Freshwater Cladoceran Daphnia magna | **Simona Mondellini**, University of Bayreuth, Germany

1.09.P-Mo103 The effects of Dexmedetomidine on the behaviour of crustaceans: lab to field approach | **Alex Ford**, University of Portsmouth, United Kingdom

Assessing and Predicting the Impact of Chemical Pollution on Marine Mammals: Challenges to Be Overcome, Future Prospects, and Conservation Strategies | Anais Remili, Antoine Etienne Simond, Rune Dietz, Krishna Das

2.03.P-Mo104 Can Amino Acid Nitrogen Isotope Analysis Provide New Insight into POP Biomagnification in North Atlantic Killer Whales? | **Melissa McKinney**, McGill University, Canada

2.03.P-Mo105 Unveiling Contaminant Exposure Patterns in Cetaceans from Madeira Island: Insights into Phthalates and Fatty Acid Markers | **Annalisa Sambolino**, University of Madeira, MARE - Marine and Environmental Sciences Centre, ARNET - Aquatic Research Network, ARDITI - Regional Agency for the Development of Research, Technology and Innovation, Portugal

2.03.P-Mo106 Legacy POPs contaminant variation among cetaceans inhabiting the historically contaminated Gulf of St Lawrence, Canada | **Anais Remili**, McGill University, Canada

2.03.P-Mo107 Identification of potential impacts of an elevated and long-term exposure to POPs on the endangered beluga (Delphinapterus leucas) population from the St. Lawrence Estuary using transcriptomics | **Antoine Simond**, Simon Fraser University, Canada

2.03.P-Mo108 Assessment of Polycyclic Aromatic Hydrocarbon (PAH) Exposure, Sources, and Maternal Transfer in Threatened Killer Whales (Orcinus orca) of the Northeastern Pacific Ocean (Canada) | **Kiah Lee**, University of Oslo (UiO), Norway

2.03.P-Mo109 Trace element concentrations in dolphins of south-east Australia show elevated mercury concentrations for bottlenose dolphins | **Chantel Foord**, RMIT University, Australia

2.03.P-Mo110 Twenty years of temporal trend assessment for regulatory contaminants in common dolphins (Delphinus delphis) from French Atlantic waters | **Paula Mendez**, Observatoire Pelagis Université de La Rochelle/CNRS, Observatoire Pelagis, France

2.03.P-Mo111 Relationships among Mercury Concentrations, Sea Surface Temperature, and Survival in Steller Sea Lion Pups in the Aleutian Islands, Alaska | **Lorrie Rea**, University of Alaska Fairbanks, United States

2.03.P-Mo112 True seals as bioindicators of emerging pollution in the Northeast Atlantic Ocean | **Marianna Pinzone**, University of Liege, Belgium

2.03.P-Mo113 Contaminant Burden of Stranded Sentinels - The Case Studies for Lulu and Spike | **Rebecca von Hellfeld**, University of Aberdeen, United Kingdom

Application of Biomonitoring Approaches to Support Surveillance of Chemical Exposure in the Environment | Thomas Miller, Leon Barron, Nicolas Bury, Stewart Owen

3.06.P-Mo114 Exposure contribution and integrated exposure assessment of methyl paraben and propyl paraben | **Inhye Lee**, Seoul National University,

3.06.P-Mo115 Legacy and Emerging POPs in a Rare Greenland Shark Stranding | **Imogen Bailes**, Lancaster University, United Kingdom

3.06.P-Mo116 Development of biomarkers for immunotoxicity in mussels: an in situ experiment | **Elina Kvist**, University of Gothenburg, Sweden

3.06.P-Mo117 Using the Otter and Buzzard as Sentinels for the Assessment of Spatial and Temporal Trends in Synthetic Chemical Pollution between Contiguous Aquatic and Terrestrial Environments | **Holly Hulme**, University of Cardiff, United Kingdom

3.06.P-Mo118 Active Biomonitoring of River Pollution Using an Ex-Situ Exposure System With Model Species. | **Sarah Bancel**, EABX, Institut national de recherche pour l'agriculture, l'alimentation et l'environnement (INRAE), France

3.06.P-Mo119 Method development and application for simultaneous determination of hydroxy derivatives of PAHs in wastewater for using in wastewater-based epidemiology | **Katarzyna Styszko**, University of Science and Technology (AGH), Poland

3.06.P-Mo120 Methods Enabling Accurate Data on Microplastics Abundance and Distribution: Applicability for Biomonitoring Programs | **Nagore Blasco**, University of Basque Country (UPV/EHU), Spain

3.06.P-Mo121 Concentrations of Mercury in Water, Sediment and Blood of Grass Carp and Their Associations with Oxidative Stress Biomarkers | **Anton Kovacik**, Slovak University of Agriculture in Nitra, Slovakia

3.06.P-Mo122 Wastewater Micropollutant Surveillance Using Effect-based Biomonitoring | **George Ruck**, National Research Institute for Agriculture, Food and Environment (INRAE), France

3.06.P-Mo123 Assessment of Temporal Trends in Quality of European Surface Waters: Towards a New Biological Indicator | **Jannicke Moe**, Norwegian Institute for Water Research (NIVA), Norway

3.06.P-Mo124 Challenges and Opportunities of Building a Collaborative Chemicals Biomonitoring Framework Today, for the Chemicals of Tomorrow | **Suzane Qassim**, Natural England, United Kingdom

3.06.P-Mo125 Temporal Trends of Dietary Patterns and Mercury in Norwegian Killer Whales (Orcinus orca) from Contrasting Ecosystem States | **Stephanie Milne**, University of Oslo, Norway

3.06.P-Mo126 Occupational (fishermen and recycler workers) exposure assessment to organophosphate esters, phthalate esters, and alternative plasticizers through human hair analysis | **Boris Johnson-Restrepo**, University of Cartagena, Colombia

3.06.P-Mo127 Environmental Exposure to Anticoagulant Rodenticides and α-Chloralose in the Liver of Domestic Cats (Felis catus) in Slovenia | **Vesna Cerkvenik-Flajs**, University of Ljubljana, Veterinary Faculty, Slovenia

3.06.P-Mo128 Determination of the presence of endocrine disruptors in breast milk samples from the municipality of Malambo/ Atlántico (Colombia) | **Juli Gonzalez-Puerta**, Universsity of Atlantico, Colombia

3.06.P-Mo129 Plane tree leaves: An integrative bioindicator for monitoring air concentrations of Semi Volatile Organic Compounds | **Fabrice Alliot**, METIS - UMR 7619, France

3.06.P-Mo130 Urinary Chromium as Biomarker Among Lung Adenocarcinoma Patients in Vojvodina | **Nataša Milošević**, University of Novi Sad, Faculty of Medicine, Serbia

3.06.P-Mo131 Heavy Metals as Risk Factors for Neuroendocrine Lung Cancer - Preliminary Results of Biomonitoring Study | **Nataša Milošević**, University of Novi Sad, Faculty of Medicine, Serbia

3.06.P-Mo132 Evaluation of biomarkers of effect due to exposure to environmental fine particulate matter (PM 2.5) in a population neighboring an industrial park in Cartagena, Colombia | **Belkis Palacio**, Universidad De Cartagena, Colombia

Fate and Toxicity of Metals: Recent Scientific Advancements, Challenges for (Data-Poor) Metals, and Application to Environmental Regulations | David Boyle, Séverine Le Faucheur, Jelle Mertens, Iain Wilson

3.11.P-Mo133 Tracing Potential Emissions from Corrosion Protection Systems for Offshore Wind Farms in the Marine Environment | **Anna Ebeling**, Universität Hamburg, Helmholtz-Zentrum Hereon, Germany

3.11.P-Mo134 Influence of the initial speciation of platinum and palladium on their bioavailability to a green alga | **Julien Michaud-Valcourt**, INRS - Centre Eau Terre Environnement, Canada

3.11.P-Mo135 Knowledge gaps in thermodynamic data needed to predict the aqueous speciation of platinum-group elements | **Claude Fortin**, Institut national de la recherche scientifique (INRS), Canada

3.11.P-Mo136 Comprehensive Analysis of (Ultra)trace Elements in Seawater: Method Development, Dilution Studies, and Matrix Effects Investigation | **Andreia Farinha**, King Abdullah University of Science and Technology, Saudi Arabia

3.11.P-Mo137 Metals and Particulate Matter in the Discharges Resulting from In-water Hull Cleaning Conducted via Remotely Operated Vehicle (ROV): Levels and Rates of Release into the Marine Ecosystem | **Moonkoo Kim**, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of, Korea, Republic of (South)

3.11.P-Mo138 Speciation of Lithium, Manganese, Cobalt and Nickel in Fresh Water by Field-Ion Exchange Technique | **Mathieu Milhe-Poutingon**, Universite de Pau et des Pays de l'Adour, E2S-UPPA, CNRS, IPREM, Pau, France, France

3.11.P-Mo139 Long-term feasibility assessment of in-situ heavy metal immobilization using calcium polysulfide in groundwater | **Hee Sun Moon**, Korea Institue of Geoscience and Mineral Resources, Korea, Republic of

3.11.P-Mo140 Occurence, fate, transfer of lithium and its isotopes in freshwater ecosystems: implication for its environmental risk assessment | **Nicolas Lachaux**, Université de Lorraine, France

3.11.P-Mo141 Adsorptive removal of Heavy metal in aqueous phase by biochar combined with biosulfur material | **Sung Chul Kim**, Chungnam National University, Korea, Republic of (South)

3.11.P-Mo142 A mesocosm study to assess selenium dynamics in a Mediterranean floodplain wetland | **María Andres**, Institute for Game and Wildlife Research, IREC (UCLM-CSIC), Spain

3.11.P-Mo143 Heavy Metals Extraction From Industrial Sludges | **Sam Li**, NUS, Singapore

3.11.P-Mo144 Accessing the Past: How a Sediment Core can Help to Reveal Anthropogenic Impacts of Technology-Critical Elements. | **Dominik Wippermann**, Helmholtz-Zentrum Hereon, Germany

3.11.P-Mo145 Impact of the Heavy Metal Chemical Speciation Method selection and its Implications on the Results of the Health Risk Assessment | **Agata Wódkowska**, University of Science and Technology (AGH), Poland

3.11.P-Mo146 Assessing the effects of iron smelters on soil quality utilizing earthworms | **Mark Maboeta**, North-West University, South Africa

3.11.P-Mo147 Metals Concentrations and Bioaccessibility in Soils at Parks and Playgrounds in Fort McMurray, a Major Oil and Gas Hub in Canada | **Matt Dodd**, Royal Roads University, Canada

3.11.P-Mo148 Leaching of Rare Earth Elements in Soil Samples from Electronic Waste: La, Nd and Dy as case study | **Vernon Somerset**, Cape Peninsula University of Technology, South Africa

3.11.P-Mo149 Assessment of Metal Content in Urban Synthetic Soils Made of Crumb Rubber Including Playgrounds and Synthetic Football Fields | **Andres Duque-Villaverde**, University of Santiago de Compostela, Spain

3.11.P-Mo150 Characterization of Nanoparticulate Metals Generated from Transportation, Tire Wear, and Urban Wildfires | **Carmen Villarruel**, Colorado School of Mines, USA

3.11.P-Mo151 Analysis of Drinking Water to Soil With a Single Method on ICP-MS and an Auto-Dilution System | **Nikolay Kovachev**, Agilent Technologies, Inc., Spain

3.11.P-Mo152 Comparison of Voltammetric Techniques to Determine the Chemical Speciation of Dissolved Copper in Mar Menor Lagoon | **Maria Sol Hernández-Conesa**, Institute of Oceanography, Spanish National Research Council (IEO-CSIC), Spain

3.11.P-Mo153 Understanding the influence of environmental factors on Co-magnetite interactions mechanisms in at the nanoscale | **Laura Fablet**, Univ Rennes, CNRS, France

3.11.P-Mo154 A Comparison Between a Simplified and an Extended Method for the Determination of Metals and Metalloids in Urban Park Soils | **Ainhoa Lekuona-Orkaizagirre**, University of the Basque Country (UPV/EHU), Spain

3.11.P-Mo155 Development of a predictive model for metal accumulation (Cu, Ni, and Zn) in periphytic biofilm | **Amandine Greil**, University of Bordeaux, France

3.11.P-Mo156 Metal(loid)s and Rare Earth Elements in Posidonia oceanica Banquettes along Mediterranean Coasts | **Alice Rotini**, Italian National Institute for Environmental Protection and Research (ISPRA), Italy

3.11.P-Mo157 Characterizing monomethylmercury and selenium bioaccessibility from Alaskan fish and marine mammals | **Angela Gastaldi**, University of Alaska Fairbanks, USA

3.11.P-Mo158 Kinetics of cobalt accumulation in soft tissues and shells of the gastropod Radix balthica | **Maëva Marimoutou**, Université de Pau et des Pays de l'Adour, E2S-UPPA, CNRS, IPREM, Chaire Ecotox, France

3.11.P-Mo159 Bioaccumulation of Selenium Oxyanions and Organoselenides in Stream Biota | **Adrian de Bruyn**, ADEPT Environmental Sciences Ltd., Canada

3.11.P-Mo160 Mining impacts on Chilean wildlife: heavy metals circulating in Andean fox blood | **Jessica Jiménez Peñuela**, Institute for Game and Wildlife Research (IREC), Spain

3.11.P-Mo161 Evaluation of Metals and Metalloids in Shellfish and Fish Obtained from Nigerian Markets | **Chinelo Nzekwe**, University College Cork, Ireland

3.11.P-Mo162 Incorporation of Fe Oxides as an Additional Phase for Predicting Cadmium Toxicity in Oxidized Sediments | **Kyoungphile Nam**, Seoul National University, Korea, Republic of

3.11.P-Mo163 Effects of a chronic exposure to cobalt on primary producers and invertebrates in two microcosm studies | **David Boyle**, Cobalt Institute, United Kingdom

3.11.P-Mo164 Speciation and Ecotoxicity of the Soluble Fraction of Tellurium and Tellurium Dioxide | **Dagobert Heijerick**, ARCHE Consulting, Belgium

3.11.P-Mo165 The DOM-inating problem- Assessing the impact of organic matter chelation on mercury toxicity | **Christoph Gade**, University of Aberdeen, United Kingdom

3.11.P-Mo166 A Holistic Modelling Approach to Predict Silver (Ag) Toxicity on Rainbow Trout Populations | **Karel Vlaeminck**, ARCHE Consulting, Belgium

3.11.P-Mo167 Environmentally Relevant Toxicity Assessment of Metal Mixtures for the Egg and Sac-fry Stages of Japanese Medaka and the Reproduction of Ceriodaphnia dubia | **Hiroyuki Mano**, National Institute of Advanced Industrial Science and Technology (AIST), Japan

3.11.P-Mo168 Effects Of Essential And Non-Essential Metals In The Photosynthetic Parameters Of A Freshwater Chlorophyceae | **Giseli Rocha**, Universitat Rovira i Virgili, Spain

3.11.P-Mo169 Effects of copper on the fatty acids' profile of standard freshwater species | **Nelson Abrantes**, Department of Biology & Centre for Environmental and Marine Studies (CESAM), University of Aveiro, Portugal

3.11.P-Mo170 Associations of Heavy Metal Exposure with Dyslipidemia and Elevated Liver Enzymes | **Eun-Hee Lee**, Far East University, Korea, Republic of (South)

3.11.P-Mo171 Kinetics of Meta-metabolome Response to Cobalt Exposure in Dynamic River Biofilm Communities | **Simon Colas**, Universite de Pau et des Pays de l'Adour, E2S-UPPA, CNRS, IPREM, Pau, France, France

3.11.P-Mo172 Accumulation and Effects of Cobalt on Microbial Communities Living in Growing Freshwater Biofilms. | **Séverine Le Faucheur**, Universite de Pau et des Pays de l'Adour, E2S-UPPA, CNRS, IPREM, Pau, France

3.11.P-Mo173 Temporal and Spatial Changes in Water Quality and Phytoplankton Populations in the lower St. Johns River, Florida | **Gretchen Bielmyer-Fraser**, Jacksonville University, USA

3.11.P-Mo174 Does Cryptic Diversity Within the Eurytemora affinis Complex Show Differential Sensitivity to Lithium Exposure? | **Quentin Peignot**, Université du Québec à Rimouski, Le Havre Normandy University (ULHN), Canada, France

3.11.P-Mo175 Challenges of Deriving Environmental Quality Standards for Cerium and Lanthanum | **Eva Lauber**, Ecotox Centre, Switzerland

3.11.P-Mo176 Evaluating the Sensitivity of Environmental Threshold Derivation of Cu in Europe to the Use of Geographically Relevant Species | **Charlotte Nys**, ARCHE Consulting, Belgium

3.11.P-Mo177 Introducing the geographical relevancy of species to set environmental thresholds of Pb for aquatic environments in Europe | **Patrick Van Sprang**, ARCHE Consulting, Belgium

3.11.P-Mo178 EU-Wide Exposure Assessment of Metals in Municipal Sewage Treatment Plants | **Maxime Eliat**, ARCHE Consulting, Belgium

3.11.P-Mo179 Regional Exposure Assessment of Metals in the Aquatic Freshwater Environment – Sediment Compartment | **Nora Ferencz**, ARCHE Consulting, Belgium

3.11.P-Mo180 Updating The European Freshwater Annual Average EQS For Nickel: What Are The Environmental Consequences? | **Graham Merrington**, wca environment Ltd., United Kingdom

3.11.P-Mo181 Comparison of Copper Dust Exposure Across Multiple Operations in Europe that Process Primary and Secondary Sources of Copper | **Michelle Kelvin**, Queens University/XPS, Canada

3.11.P-Mo182 Method Development in Elemental Analysis of Graphite from Lithium-ion Battery Recycling Process | **Mihaela Ivan**, Oxford Analytical Services Limited, United Kingdom

Lower Micron and Nanosize Plastics: Challenges, Analytical Methods, Occurrence, Composition, Local Sources, Long-Range Transport and Human Exposure | Patrick Bauerlein, Natascha Schmidt, Muna Zabarmawi, Ralf Kaegi

3.14.P-Mo183 Overcome the Obstacle of NP Analysis – A Concept of Artificial Intelligence Combined with Chemical/Microscopic Methods | **Alexandra Foetisch**, Technical University Darmstadt, Germany

3.14.P-Mo184 Development and validation of a pyrolysis - gas chromatography – high resolution mass spectrometry method for the determination of nano- and microplastics in river water and sediment samples | **Eva de Rijke**, University of Amsterdam,

3.14.P-Mo185 Design of Biocatalytic Membranes for Environmental Microplastic Samples Purification | **Agata Zdarta**, Poznan University of Technology, Poland

3.14.P-Mo186 Development of Semi-automatic Analytical Methods for Fine Microplastics larger than 1 µm in Surface Water by Raman Imaging Microscopy | **Yutaka Kameda**, Chiba Institute of Technology, Japan

3.14.P-Mo187 Validation of Nanoplastic Extraction from Compost by Advanced Techniques and Screening Techniques to Enable Nanoplastic Identification and Quantification by Nanoscale Infrared Imaging | **Patrizia Pfohl**, BASF SE, Germany

3.14.P-Mo188 Capillary Electrophoresis as a Promising Technique Towards a Universal Analytical Tool for Separation and Detection of Nanoplastic Particles | **Carlos Adelantado Sánchez**, Flemish Institute for Technological Research (VITO), Belgium

3.14.P-Mo189 Navigating Nanoplastics: Challenges and Approaches in Producing Standardized Materials | **Milica Velimirovic**, Flemish Institute for Technological Research (VITO), Belgium

3.14.P-Mo190 Machine Learning to help identifying polymers | **Patrick Bauerlein**, KWR Water Research Insititute, Netherlands

3.14.P-Mo191 Analysis of microplastics under 20 µm in road dust- A case study in Seoul, South Korea | **Dana Mohamed**, Korea University, Korea, Republic of

3.14.P-Mo192 Cascade Filtration for Multi-technique Characterization of Micro-Nanoplastics in Environmental and Human Samples | **Sepideh Hadidimasouleh**, VU University Amsterdam (VU), Netherlands

3.14.P-Mo193 Detection of microplastic particles (1-10µm) in soil matrices | **Ralf Kaegi**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

3.14.P-Mo194 Exploring Oil-Based Extraction for Nanoplastic and Microplastic Analysis in Solid Matrices using a New Type of Reference Material | **Kathrin Harre**, University of Applied Sciences Dresden, Germany

3.14.P-Mo195 Sensitive Analysis Method for Microplastics Using Wavelength Tunable Quantum Cascade Laser and Photoacoustic Detection | **Ana Fernandes**, CICECO – Aveiro Institute of Materials & Department of Physics, University of Aveiro, Portugal

3.14.P-Mo196 Revolutionizing Nanoplastic Risk Assessment: AMS-enabled Toxicokinetics at part per trillion Levels | **Maya Al-Sid-Cheikh**, University of Surrey, United Kingdom

3.14.P-Mo197 Pyrolysis-Gas chromatography-Mass spectrometry : Way Forward To The Low-µm and nm Range Plastics Analysis | **Géraldine Dumont**, ULiège, Flemish Institute for Technological Research (VITO), Belgium

3.14.P-Mo198 Microplastic Characterization and Screening by Combining DART and High-Resolution Mass Spectrometry | **Arnd Ingendoh**, Bruker Daltonics GmbH & Co. KG, Germany

3.14.P-Mo199 Additive manufacturing of 3D-printed monodisperse microplastic standard particles as an internal standard and for calibrations in microplastic analysis | **Maurice Hauffe**, University of Applied Sciences Dresden, Germany

3.14.P-Mo200 Production and Analysis Methods for more Environmentally Relevant Small Microplastic and Nanoplastic Test materials | **Andy Booth**, SINTEF Ocean, Norway

3.14.P-Mo201 Multi-modal Imaging as a Tool to Decipher the Biological Response of Nanoplastic Exposure | **Yu Elkan Lau**, University of Surrey, United Kingdom

3.14.P-Mo202 Investigating (Hetero-) Agglomeration of Nanoplastics using Particle Tracking Analysis | **Maximilian Huber**, Technical University of Munich, Chair of Analytical Chemistry and Water Chemistry, Institute of Water Chemistry, Germany

3.14.P-Mo203 µ-Raman analysis of a candidate microplastics' reference material – a proof of concept | **Natalia Ivleva**, Technical University of Munich (TUM), Germany

3.14.P-Mo204 A Chemometric Approach to Improve the Identification and Quantitation of Plastic Particles in Human Blood Using Pyrolysis-GC-MS | **Frederic Béen**, KWR Water Research Institute, Netherlands

3.14.P-Mo205 Human Exposure to Airborne Micro and Nano Plastics in Indoor Areas | **Aala Azari**, KU Leuven, Belgium

3.14.P-Mo206 A Novel Sampling Approach for Airborne Microplastics: In Situ Sampling and Extraction | **Fatma Eraslan**, Eskişehir Technical University, Turkey

3.14.P-Mo207 Impact of Microplastic Air Pollution From Intensive Agriculture in South-Eastern Spain | **Adrián Rosa García**, University of Almería, Spain

3.14.P-Mo208 Arctic Airborne Pollution: Tracking Microplastics and Plastic-Associated Contaminants in Canadian Snowfall | **Alejandra Granados Galvan**, University of Quebec at Rimouski (UQAR), Canada

3.14.P-Mo209 Small microplastics (<100 µm) in the urban atmosphere: a comparison between aerosol and wet- dry depositions | **Beatrice Rosso**, Ca' Foscari University of Venice, Italy

3.14.P-Mo210 Control of Microplastic Pollution Though Beehive Colonies | **Laura Cortés Corrales**, University of Almería, Spain

3.14.P-Mo211 Tracking Urban Sources of Microplastic Contamination: Insights From the City of Modena, Italy | **Elisa Bergami**, National Biodiversity Future Center, University of Modena and Reggio Emilia, Italy

3.14.P-Mo212 Transfer of Micro- and Nanoplastics via Sea Spray Aerosols and Estimate of Human Exposure | **Ana I Catarino**, Flanders Marine Institute (VLIZ), Belgium

3.14.P-Mo213 Having Fun and Raising Awareness: Italian Students Monitor Airborne Microplastic in Indoor and Outdoor School Environments | **Elisa Bergami**, University of Modena and Reggio Emilia, Italy

3.14.P-Mo214 Atmospheric Microplastic in the Arctic and Mainland Norway; occurence, composition and sources | **Dorte Herzke**, Norwegian Institute for Air Reseach (NILU), Norway

3.14.P-Mo215 Atmospheric Pathways: A Global Comprehensive Study on Microplastic Deposition | **Perrine Florent**, Bangor University, United Kingdom

3.14.P-Mo216 Human exposure to airborne microplastics in Australian indoor air | **Kushani Perera**, Griffith University, Australian Rivers Institute, School of Environment and Science, Australia

3.14.P-Mo217 Extraction of Microplastics at High Temperature and Pressure for Subsequent Analysis of Atmospheric Aerosol by Pyrolysis Gas Chromatography–Mass Spectrometry | **Beatrice Rosso**, Ca' Foscari University of Venice, Italy

3.14.P-Mo218 Assessment of the impact of local human activity on microplastic atmospheric deposition | **Max Beaurepaire**, Water Environment and Urban Systems Laboratory (LEESU), France

3.14.P-Mo219 Microplastics Reference Materials: Advancing Environmental Monitoring and Research | **Jon Eigill Johansen**, Chiron AS, Norway

3.14.P-Mo220 Deposition of Atmospheric Microplastics in an Urban Environment | **Mine Sağdıç Ulusoy**, Eskişehir Technical University, Turkey

3.14.P-Mo221 Atmospheric Microplastics in Two Norwegian Cities, Composition and Temporal Trends | **Natascha Schmidt**, The Climate and Environmental Research Institute NILU, Norway

3.14.P-Mo222 Investigating the Case of Microfibre Pollution in Air: Which Fibres are Guilty? | **Chimdia Ke-Chi-Okafor**, Northumbria University, United Kingdom

3.14.P-Mo223 Invisible Footprint of Climbing Shoes: Data From Indoor Facilities Reveal Unprecedented Exposure to Rubber Additives | **Thibault Masset**, EPFL, Switzerland

3.14.P-Mo224 Occurrence and backtracking of microplastics in Northern Atlantic Air | **Barbara Scholz-Boettcher**, University of Oldenburg, Institute for Chemistry and Biology of the Marine Environment, Afghanistan

3.14.P-Mo225 Extraction of Aged Bio-Microplastics from Compost Matrices: Method Development | **Sevil Vafadar Afshar**, Technical University of Denmark (DTU), Denmark

3.14.P-Mo226 What is in specks of highway road dust? Quantification and Chemical Characterization of Small microplastics (<100 µm) and Plastic additives | **Beatrice Rosso**, Ca' Foscari University of Venice, Italy

3.14.P-Mo227 Tire Particles and Microplastics in Urban Road Dust: A Double Shot Pyrolysis-Gas Chromatography-Mass Spectrometry Analysis for Identification, Characterization and Quantification | **S Muniategui-Lorenzo**, Universidade da Coruña, Spain

3.14.P-Mo228 Fabrication and Analysis of Microplastics Reflecting Weathering Characteristics | **Chae Hwa Kim**, Korea Institute of Industrial Technology, Jeonbuk National University, Korea, Republic of (South)

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

3.15.P-Mo229 Particulate and Mineral Associated Organic Matter Contribution to Pesticide Sorption in Agricultural Soil | **Marija Gadzimuradova**, Wageningen University, Netherlands

3.15.P-Mo230 On the search for alternative herbicides to treat Swiss railway tracks. | **Valérian Zeender**, Agroscope, Switzerland

3.15.P-Mo231 Concentration dependence of the persistence of the fungicide tebuconazole in fresh water - results of a one-year mesocosm study | **Valeska Contardo Jara**, Umweltbundesamt, Germany

3.15.P-Mo232 Investigating the Impact of Test Conditions on Aerobic Degradation Kinetics of Aniline and Sodium Benzoate in Surface Water | **Suresh Gundoju**, Eurofins Advinus Agrosciences Services India Private Limited, India

3.15.P-Mo233 High Resolution Experimental Data to Study the Remobilization and Leaching of Pesticide Residues in Vegetative Filter Strips from a Mesoscale Experimental System | **John Howe**, University of Florida, United States

3.15.P-Mo234 The exposome and glyphosate, room for discussion | **Norbert Fraeyman**, Ghent University, Belgium

3.15.P-Mo235 Novel Triple Quad Approaches for Robust and Reliable Pesticide Analysis with Ultimate Sensitivity | **Carsten Baessmann**, Bruker Daltonics GmbH, Germany

3.15.P-Mo236 Study on environmental behaviour of Thiamethoxam in Stringy stonecrop | **Hoe-Gun Kwon**, Korea Testing & Research Institute, Korea, Republic of

3.15.P-Mo237 QuEChERS Extraction and Chromatographic Determination of Selected Carbamate Pesticides in Soil Samples | **Vernon Somerset**, Cape Peninsula University of Technology, South Africa

3.15.P-Mo238 Exposure Assessment for Biopesticides and Inorganics – Challenges and Improvement Needs | **Andreas Häusler**, GAB Consulting, Germany

3.15.P-Mo239 Demonstrating the complexity of determining pH dependence of pesticide active substances and their metabolites in GB pesticide risk assessment | **Katherine Lees**, Health and Safety Executive, United Kingdom

3.15.P-Mo240 Proposed revision of the aged-sorption guidance document in combination with field degradation studies in regulatory assessments | **Bernhard Jene**, BASF SE, Germany

3.15.P-Mo241 Can Drainage Losses be Reduced by Optimizing Pesticide Application Dates? | **Prakash Srinivasan**, Bayer AG, United States

3.15.P-Mo242 A Workshop Discussion on Options for Mitigation of Drain Flow and Groundwater Contamination by Pesticides | **Charles Hazlerigg**, Enviresearch Ltd., United Kingdom

3.15.P-Mo243 Landscape level modelling for derivation of worst-case surface water dilution factors at drinking water abstraction locations | **Mohammad Hatamjafari**, BASF SE, Germany

3.15.P-Mo244 Drinking Water Treatment – Impact Assessment on a Newly Guided Process for Crop Protection Products in the European Union | **Kristina Ziegler**, knoell Germany GmbH, Germany

3.15.P-Mo245 Groundwater Dilution Factor Evaluation in the EU using the Spatial LUCAS PEARL Modelling Framework | **Chunming Sui**, BASF Services Europe GmbH, United States

3.15.P-Mo246 Sensitivity of Water and Sediment Concentrations Simulated by the TOXSWA Model | **Pauline Adriaanse**, Wageningen University & Research (WUR), Netherlands

3.15.P-Mo247 Reduction of Complexity: Variance-based Sensitivity Analysis for FOCUS STEPS | **Dimitrios Skodras**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

3.15.P-Mo248 The Effect of Time-Varying Soil Properties Caused by Ploughing and Consolidation on Pesticide Fate in Soil and Groundwater | **Louise Wipfler**, Wageningen University & Research (WUR), Netherlands

3.15.P-Mo249 C2D2 Novel Crop Development Data for Use in Pesticide Exposure Modelling and Risk Assessment | **Gregory Hughes**, GeoSpatial Analytics Ltd, United Kingdom

3.15.P-Mo250 The role of the ratio of sorption to degradation in leaching | **Siul Ruiz**, Faculty of Engineering and Physical Sciences, University of Southampton, United Kingdom

3.15.P-Mo251 MACRO 5 Multithreading for the CRD UK higher-tier drainflow tool | **Michael Brauer**, Exponent International Ltd., Switzerland

3.15.P-Mo252 Acre Tool For Automated Surface Water Modelling | **Alice Tagliati**, Enviresearch Ltd., United Kingdom

3.15.P-Mo253 Development of an Interim Modelling Methodology using the FOCUS Models for Simulating the Fate of Copper in Soil, Water and Sediment | **Simon Ford**, Battelle, United States

3.15.P-Mo254 Development and validation of a hybrid GIS catchment vulnerability ranking model for losses of pesticides to surface water | **Liesa Brosens**, Flemish Institute for Technological Research (VITO), Belgium

3.15.P-Mo255 Modeling the Exposure of Soil Organisms to Pesticides in Brazil: A Scenario for Tier-1 | **Vicente Arcela**, Brazilian Institute of Environment and Renewable Natural Resources (IBAMA), Brazil

3.15.P-Mo256 Promoting Defensible Science in Aquatic Exposure Estimation by Integrating Landscape-Level Data into US Endangered Species Assessments | **Christopher Holmes**, Applied Analysis Solutions, LLC, USA

3.15.P-Mo257 Patterns in agricultural practice related concentrations of currently-use pesticides in soils from the province Friesland, Netherlands | **Aagje Saarloos**, Wageningen University, Nederland

3.15.P-Mo258 Accelerated Solvent Extraction with Liquid Chromatography Targeted Tandem Mass Spectrometry and Nontargeted High Resolution Mass Spectrometric Methods as a Tool for Targeted Pesticide Management | **Alina Sadchenko**, University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, Czech Republic

3.15.P-Mo259 Spatial Heterogeneity of Soil Properties Shapes Residual Pesticide Concentrations on the Meter-Scale | **Yiqing Zhang**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.15.P-Mo260 Pesticides in Agricultural Soils: Major Findings From Various Monitoring Campaigns in Switzerland | **Thomas Bucheli**, Agroscope, Switzerland

3.15.P-Mo261 Current Use Pesticides in Spatial and Temporal Distribution in Soil and Vegetation of Agricultural Sites | **Carolina Honert**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany

3.15.P-Mo262 Contaminated Landscapes – Current Use Pesticides Residue Measurement in the Upper Rhine Valley | **Ken Mauser**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany

3.15.P-Mo263 Occurrence and Persistence of Pesticides in Agricultural Soils from Different Viticulture Areas | **Isaac Rodriguez Pereiro**, University of Santiago de Compostela, Spain

3.15.P-Mo264 Fungicides Residues in Surface and Groundwater Samples from High Pressure Viticulture Areas | **Isaac Rodriguez Pereiro**, University of Santiago de Compostela, Spain

3.15.P-Mo265 Widespread but Different – Synthetic Pesticides Show Strong Spatiotemporal Dynamics While Copper Pollution Is Generally High Across Swiss Vineyards | **Elias Barmettler**, University of Zurich, Agroscope, Switzerland

3.15.P-Mo266 Point Source Contamination via Sprayer Cleaning Water Dispersal: A Northern Italian Vineyard Area Case Study to increase local farmers' awareness | **Nicoleta Suciu**, Universita Cattolica del Sacro Cuore, Italy

3.15.P-Mo267 Challenges Conducting Higher Tier Groundwater Monitoring Studies in France | **Dirk Liss**, Bayer AG - Cropscience Division, Germany

3.15.P-Mo268 From Field to Catchment: Comparing the Impact of Groundwater Exposure Assessment Goals for a Case Study in France | **Nils Kehrein**, Bayer AG - Cropscience Division, Germany

3.15.P-Mo269 Contrasting dissipations of legacy and current pesticides from agricultural soil to drainage water during potato cultivation challenge traditional risk assessment models | **Karel Hornak**, Agroscope, Switzerland

3.15.P-Mo270 Assessing Plant Protection Product and Transformation Product Contamination in the Soils Surrounding Lentic Small Water Bodies: A High-Resolution Study in Northern Germany | **Lukas Loose**, Christian-Albrechts University Kiel, Germany

3.15.P-Mo271 Glyphosate and Aminomethylphosphonic Acid (AMPA) in Surface Water from the Tagus River basin | **Adrián de la Torre**, Center for Energy, Environmental and Technological Research (CIEMAT), Spain

3.15.P-Mo272 Glyphosate and Aminomethylphosphonic Acid (AMPA) in Spanish Indoor Dust | **Adrián de la Torre**, Center for Energy, Environmental and Technological Research (CIEMAT), Spain

3.15.P-Mo273 The Glyphosate Dilemma: The Tug-Of-War Between Food Security And Environmental Health | **Lohan Bredenhann**, North-West University, South Africa

3.15.P-Mo274 The impact of rice cultivation systems in a Mediterranean wetland: Evaluation of the occurrence, behaviour and fate of pesticides and their transformation products | **Yolanda Juan**, University of Valencia, Spain

3.15.P-Mo275 Pesticides Screening on Surface Water and Soil along the Mekong River in Cambodia | **Putheary Ngin**, Umea University, Sweden

3.15.P-Mo276 Exposure and Combined Risk of Pesticide Mixtures in Wetlands of the Great Barrier Reef Catchment Area, Australia | **Carly Beggs**, QAEHS - The University of Queensland, Australia

3.15.P-Mo277 Estimation of glyphosate and AMPA mass loads from twenty-two Wastewater Treatment Plants across Australia | **Garth Campbell**, University of Queensland, Australia

3.15.P-Mo278 Down-The-Drain Pathways for Fipronil and Imidacloprid Applied as Spot-on Parasiticides to Dogs - Estimating Aquatic Pollution | **Rosemary Perkins**, University of Sussex, United Kingdom

3.15.P-Mo279 Occurrence of pesticides in fish: a comprehensive monitoring study across Europe | **Isabel Campos**, CESAM - Centre for Environmental and Marine Studies and Department of Biology, University of Aveiro, Portugal

POSTER AREA 2

Next-Generation Urban Water Management: Improved Understanding of the Fate of Micropollutants, Transformation Products, Pathogens, and Antimicrobial Resistance | Stefan Kools, Despo Fatta-Kassinos, Ulla Bollmann, Marc Teixidó

3.18.P-Mo280 Bioretention Cell Design for Trace Organic Contaminant Removal | **Tim Rodgers**, Department of Civil Engineering, University of British Columbia, Canada

3.18.P-Mo281 Identification of priority contaminants in groundwater for their protection and pollution prevention | **Natalia Sáez Rosique**, Catalan Institute for Water Research (ICRA), Spain

3.18.P-Mo282 How should we implement quaternary treatments in Wastewater Treatment Plants? A techno-economic analysis | **Jessica Ianes**, Politecnico Milan, Italy

3.18.P-Mo283 Development of a holistic (bio)analytical platform to assess the hazard of transformation products formed during water treatment | **Ingrida Bagdonaite**, Vrije Universiteit Amsterdam, Amsterdam Institute for Life and Environment (A-LIFE), Netherlands

3.18.P-Mo284 AI Assistance for Chemical Analysis of PPCPs in Water and Wastewater: Highlights and Potentials | **Babak Kavianpour**, University of West London, United Kingdom

3.18.P-Mo285 Monitoring of Contaminants of Emerging Concern in Alternative Sources for Indirect Potable Water Reuse in Barcelona | **Miren Lopez De Alda Villaizan**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.18.P-Mo286 Methods for Identifying Priority Chemicals in Wastewater and Estimating Their Relative Environmental Risks: A Critical Review | **Sagar Thakali**, Kenvue, United States

3.18.P-Mo287 Impact of Drinking Water Treatment processes on Biocides in the EU | **Sara Carreira**, knoell Iberia S.L., Spain

3.18.P-Mo288 IDEN2REMOVE: Identification and Removal of Site-Specific Organic Pollutants to Preserve the Quality of Water Resources | **Cristina Postigo**, University of Granada (UGR), Spain

3.18.P-Mo289 An integrated modelling framework for predicting wet-weather discharges pollution | **Jessica Ianes**, Politecnico Milan, Italy

3.18.P-Mo290 Evaluating the Occurrence of Chemicals of Emerging Concern in Tomato Plants: A Field Study on Agricultural Wastewater Reuse | **Eirini Andreasidou**, Jozef Stefan International Postgraduate School, Jozef Stefan Institute, Slovenia

3.18.P-Mo291 Biocide Contamination of Domestic Greywater: an Indicator of Uses by Inhabitants | **Pierre Martinache**, ParisTech School of Bridges, France

3.18.P-Mo292 Advancing Technologies to Minimize Micro- and Nano-plastics (MNPs) in Industrial Laundry Wastewater from Bisperbjerg Hospital (Copenhagen, Denmark). | **Olga Sanjuan**, Technical University of Denmark, Denmark

3.18.P-Mo293 Membrane Distillation as Technology to Remove Microplastics in Drinking Water Production by Desalination: Lab-scale System Performance, Microplastics Behavior and Removal, and Future Research | **Mariana Miranda**, Flanders Marine Institute (VLIZ), Associate Laboratory in Chemical Engineering (ALiCE), Laboratory of Separation and Reaction Engineering - Laboratory of Catalysis and Materials (LSRE-LCM), University of Porto, Belgium, Portugal

3.18.P-Mo294 Do the Treatment Units Fragmentate or Remove Microplastics? A Case Study of an Urban Wastewater Treatment Plant (Southeast of Spain) | **Erika Torres Reyes**, Universitat Rovira i Virgili, Spain

3.18.P-Mo295 Development of an analytical method for the simultaneous determination of 50 semi-volatile organic contaminants in wastewaters | **Naroa Lopez**, University of the Basque Country (EHU/UPV), Research Centre for Experimental Marine Biology and Biotechnology (PiE-UPV/EHU), Spain

3.18.P-Mo296 In vitro toxicity of road runoff from different road types using reporter-gene assays | **Jennifer Schmidt**, Goethe University Frankfurt, Germany

3.18.P-Mo297 Elucidating the Inhibitory Effects of Phenolic Moieties in Natural Organic Matter on the Photodegradation of Organic Micropollutant | **Anam Asghar**, University Duisburg-Essen (Uni DUE), Germany

3.18.P-Mo298 Comparison of nanofiltration and reverse osmosis membrane in the removal of pharmaceuticals from water | **Zita Šereš**, Faculty of Technology Novi Sad, University of Novi Sad, Serbia

3.18.P-Mo299 Effect of carbon nanoparticles ozonation on their properties and affinity to emerging contaminants | **Patryk Oleszczuk**, Maria Curie-Skłodowska University, Poland

3.18.P-Mo300 Ozonation for wastewater treatment in water REUSE: organic matter reduction, micropollutants degradation and transformation products identification | **Téo Ferreux**, University of Montpellier, France

3.18.P-Mo301 A Nature-based Solution to Minimize Reverse Osmosis Concentrate Toxicity | **Jan Specker**, University of Amsterdam (UVA), Netherlands

3.18.P-Mo302 Enhanced Removal of Stormwater Polar Organic Contaminants In Geomedia-Amended Biofilters | **María Cruz Bolaños**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.18.P-Mo303 Fungal Biomass in Wastewater: a Strategy for Pharmaceutical Removal | **Oksana Golovko**, Swedish University of Agricultural Sciences (SLU), Sweden

3.18.P-Mo304 Capacity of biochars produced by cookstoves to remove pharmaceuticals and personal care products from hospital wastewater | **Brigitte Mukarunyana**, Umea University, Sweden

3.18.P-Mo305 Identification of Cetirizine Metabolites in a Laboratory-scale Moving Bed Bioreactor System | **Jiexi Zhong**, Aarhus University, Denmark

3.18.P-Mo306 Ecotoxicological mixture risk assessment of 35 pharmaceuticals in wastewater effluents following post-treatment with ozone and/or granulated activated carbon | **Francis Spilsbury**, University of Gothenburg, Sweden

3.18.P-Mo307 Rapid Small Scale Column Tests for the retention of very polar transformation products of commonly used pesticides on granular activated carbon | **Tom Galle**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

3.18.P-Mo308 Seasonal monitoring of granular active carbon filter regeneration effects on organic micropollutant removal during drinking water treatment | **Petra Nováková**, University of South Bohemia in Ceske Budejovice, Czech Republic

3.18.P-Mo309 Sorption of Persistent, Mobile, and Toxic (PMT) and very Persistent very Mobile (vPvM) substances onto pyrogenic carbonaceous materials | **Jiaqi Xu**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.18.P-Mo310 TKIdentification - Occurrence and Fate of Tyrosine Kinase Inhibitors as a Novel Class of Pharmaceutical Residues in Municipal Wastewater and Surface Water in the Netherlands | **Nick Zwart**, VU University Amsterdam (VU), Netherlands

3.18.P-Mo311 Influence of UV and UV LED disinfection treatment of wastewaters on the fate of micropollutants and water toxicity | **Lucie Blahova**, RECETOX, Faculty of Science, Masaryk University, Czech Republic

3.18.P-Mo312 Tracking and Removal of Organic Micropollutants in the Urban Water Cycle: the Role of Wastewater Treatment Plants | **Cristina Postigo**, University of Granada (UGR), Spain

3.18.P-Mo313 Assessment of Illicit Drugs Use in Seoul, Capital City of South Korea for 21 Days by Wastewater-Based Epidemiology | **Jeong-Eun Oh**, Pusan National University, Korea, Republic of (South)

3.18.P-Mo314 Water Monitoring along Railway Tracks in Germany | **Sabrina Michael**, German Centre for Rail Traffic Research at the Federal Railway Authority, Germany

3.18.P-Mo315 Estimation of the usage of drugs of concern in the Southern Ontario, Canada, through wastewater-based surveillance | **Diana Cardenas-Soraca**, University of Waterloo, Canada

Advancements in Bioremediation and Phytoremediation for Addressing Persistent and Emerging Pollutants in Contaminated and Degraded Ecosystems | Anna Barra Caracciolo, Jose Julio Ortega-Calvo, Begoña Jiménez, Vladimir Beskoski

4.01.P-Mo316 A Quest for Novel Fungal Species With the Ability to Bioremediate Polyethylene in the Eastern Region of the Free State, South Africa: An Eco-Friendly Solution to Eliminate Plastic Pollution | **Nozipho Kheswa**, University of Free State, South Africa

4.01.P-Mo317 Constructed wetlands as a nature-based solution for removing emerging contaminants | **Anna Barra Caracciolo**, National Research Council - Water Research Institute (IRSA-CNR), Italy

4.01.P-Mo318 Microbial characterization of a Multicontaminated Marine Sediment in Mar Piccolo Site (Taranto, Italy) and selection of Aerobic and Anaerobic Hydrocarbon-Degrading Bacteria. | **Bruna Matturro**, Water Research Institute (IRSA-CNR), Italy

4.01.P-Mo319 Investigation of the effectiveness of phytoremediation of dredged sediment contaminated with heavy metals | **Nina Đukanović**, University of Novi Sad, Serbia

4.01.P-Mo320 Ibuprofen-enhanced Biodegradation in Solution and Sewage Sludge by a Mineralizing Microbial Consortium. Shift in Associated Bacterial Communities | **Jaime Villaverde**, Institute of Natural Resources and Agrobiology of Seville, Spanish National Research Council (IRNAS-CSIC), Spain

4.01.P-Mo321 Saponin-Enhanced Biodegradation of PAHs from Nonaqueous-Phase Liquids: Towards the Application of Phytogenic Surfactants in Bioremediation | **Alicia Fernandez-Vazquez**, Instituto de Recursos Naturales y Agrobiologia, Spain

4.01.P-Mo322 Tactic-Mediated Pore Sealing by Bacteria: Prospecting a New Engineering Component for Risk Reduction | **José Luis García**, Instituto de Recursos Naturales y Agrobiologia, Spain

4.01.P-Mo323 Enhanced rhizoremediation of a kerosene-contaminated military air-base soil with sunflower and plant-growth promoting bacteria | **Carmen Fernandez-Lopez**, University Center of Defence (CUD), Spanish Air Force Academy, MDE-UPCT, Spain

4.01.P-Mo324 Microbiological Investigation of the Combined Addition of Biochar, Bioactivators and Plants on a Soil Contaminated with Petroleum Hydrocarbons | **Ludovica Rolando**, Italian National Research Council (IRSA-CNR), Italy

4.01.P-Mo325 Metatranscriptomics reveal a succession in bacterial communities and functions driving the decontamination of polycyclic aromatic compounds-polluted soils | **Maria Jordán**, University of Barcelona, Spain

4.01.P-Mo326 Investigating the production of sulfonated and hydroxy-sulfonated-PCBs by several organisms through microcosm experiments | **Jessica Palladini**, University of Insubria, Italy

4.01.P-Mo327 Individual and combined effects of temperature, CO2, and soil water content on Summer Rape (Brassica napus) potential to remediate Cd contaminated soil | **Inesa Kniuipyte**, Lithuanian Energy Institute, Lithuania

4.01.P-Mo328 Bioremediation of Chlorinated Ethenes: Distribution and Abundance of Functional Genes in Situ | **Aday Amirbekov**, Technical University of Liberec, Czech Republic

4.01.P-Mo329 Application of Novel Bacterial Strains for Paracetamol Mineralization in Aqueous and Sewage Sludge Systems | **Jaime Villaverde**, Institute of Natural Resources and Agrobiology of Seville, Spanish National Research Council (IRNAS-CSIC), Spain

4.01.P-Mo330 An Evaluation of the Effluent Quality from The Tshiame Wastewater Treatment Plant (Free State, South Africa), and the Potential Use of Mycofiltration for Improvement in Wastewater Treatment | **Sanele Mnkandla**, University of the Free State, National University of Science and Technology, South Africa, Zimbabwe

4.01.P-Mo331 Bioremediation and Phytomanagement Strategies Application in Soils Amended With Sewage Sludges | **Erik Urionabarrenetxea**, University of the Basque Country (UPV/EHU), Spain

4.01.P-Mo332 MICROTOX Ecotoxicity Test for Assessing Pesticide Soil Toxicity: A Case Study on the Application of Bioremediation Techniques. | **Jaime Villaverde**, Institute of Natural Resources and Agrobiology of Seville, Spanish National Research Council (IRNAS-CSIC), Spain

4.01.P-Mo333 Ecotoxicological assessment of the aqueous soil extracts from post-remediated mining soil in the former Cartagena-La Unión mining district (south-east of the Murcia Province, Spain). | **Juan Carlos Castillo**, Polytechnic University of Cartagena, Spain

4.01.P-Mo334 Field Aging of a Commercial Biochar: Effect on the Retention of Sulfamethoxazole and Ethofumesate Over Time | **Rocío López-Cabeza**, Institute of Natural Resources and Agrobiology of Seville, Spanish National Research Council (IRNAS-CSIC), Spain

4.01.P-Mo335 Evaluating the Significance of Two Different Biochar Dissipation Pathways in Soil | **Marko Šolić**, Faculty of Sciences, University of Novi Sad, Serbia

4.01.P-Mo336 Effectiveness of a hydrocarbon contaminated soil bioremediation process | **Simona Schiavo**, National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy

4.01.P-Mo337 Amplicon Sequencing Reveals Active Functionalities in Petroleum-Degrading Microbiome | **Professor Chioma Chikere**, UNIPORT; CAES - UNISA, Nigeria

4.01.P-Mo338 Phytoremediation: a tool to remove chemically distinct antimicrobial resistance drivers? | **John Nightingale**, University of Leeds and Fera Science Ltd, United Kingdom

4.01.P-Mo339 Photocatalytic Transformation of PFOS | **Marija Lješević**, University of Belgrade, Institute of Chemistry, Technology and Metallurgy, Serbia

Emerging Remediation Technologies for Contaminated Environmental Matrices | Sanne Smith, Michel Hubert, Michael Pribil, Kai Bester

4.05.P-Mo341 Testing a biochar filter for removal of a pesticide cocktail and nutrients at environmentally relevant concentrations | **Alina Koch**, Swedish University of Agricultural Sciences (SLU), Sweden

4.05.P-Mo342 Synthesis of Granules from Polyaluminum Chloride (PAC) Sludges for Environmental Application in As(V) Removal: Influence of Calcination Temperature on As(V) Adsorption Ability | **Jungho Ryu**, Korea Institute of Geoscience and Mineral Resources, Korea, Republic of (South)

4.05.P-Mo343 Removal of diclofenac by filtration: experimental results and modelling | **José Jiménez-Barrera**, Institute of Natural Resources and Agrobiology of Seville, Spanish National Research Council (IRNAS-CSIC), Spain

4.05.P-Mo344 Assessment of Novel Constructed Wetland Configurations for Preventing Groundwater Pollution from Contaminants of Emerging Concern. A Bench-Scale Study | **Clara Laguna Marín**, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain

4.05.P-Mo345 Nature-Based Solutions to Reduce Antibiotics, Antimicrobial Resistance Genes and Risk Assessment Approach | **Edward Pastor López**, Institute of Environmental Assessment and Water Research - Spanish National Research Council (IDAEA-CSIC), Spain

4.05.P-Mo346 Cost-Benefit Analysis of Innovative Microplastic Filtration System | **Milica Velimirovic**, Flemish Institute for Technological Research (VITO), Belgium

4.05.P-Mo347 At-source hospital wastewater treatment to eliminate harmful pharmaceuticals: a novel immobilised approach using UV-LED activated photocatalytic nanomaterials | **Manuel-Thomas Valdivia**, University of the Highlands and Islands (UHI), United Kingdom

4.05.P-Mo348 Leaching experiments in columns systems to study the potential use of organic wastes as organic amendments to reduce groundwater pollution. | **María Llana-Ruíz-Cabello**, Universidad Pablo de Olavide de Sevilla, Spain

4.05.P-Mo349 Contribution of earthworms and plants to remediation of contaminated shooting range soil | **Gintare Sujetoviene**, Vytautas Magnus University, Lithuania

4.05.P-Mo350 Evaluation of the Improvement in Urban Runoff Water Quality After Passing Through Sustainable Urban Drainage Systems (SUDS) | **Ainhoa Lekuona-Orkaizagirre**, University of the Basque Country (UPV/EHU), Spain

4.05.P-Mo351 Evaluation of the Influence of Hydrodynamic Separators on the Quality of Urban Runoff | **Ainhoa Lekuona-Orkaizagirre**, University of the Basque Country (UPV/EHU), Spain

4.05.P-Mo352 Assessment of the Influence of Permeable Pavements on Urban Runoff Quality: a Case Study in San Sebastian (Spain) | **Ainhoa Lekuona-Orkaizagirre**, University of the Basque Country (UPV/EHU), Spain

4.05.P-Mo353 Bacteria Responsible for Disruption of Bentonite Barrier in Hazardous Waste Landfill | **Kristyna Markova**, Technical University of Liberec, Czech Republic

4.05.P-Mo354 Enhancing hospital wastewater treatment: evaluating the combined efficacy of a Moving Bed Biofilm Reactor (MBBR) and nanofiltration to mitigate effluent risks. | **van Xuan Nguyen**, UMR5245 CNRS-UT3-INPT Laboratoire Ecologie Fonctionnelle et Environnement, France

4.05.P-Mo355 Reduction of Eco-toxicity of Biodegradation of the Antidepressant Citalopram by Co-metabolically Stimulated Polishing Moving Bed Biofilm Reactors | **Kai Bester**, Aarhus University, Denmark

4.05.P-Mo356 Sustainable support liquid membranes based on deep eutectic solvents for the removal of contaminants of emerging concern from WWTPs effluents | **Jose Fernandes**, LAQV-REQUIMTE, Portugal

4.05.P-Mo357 Introducing the Norwegian Guidance Tool to Assess Emissions and Human Health Risks from Contaminated Soil | **Anne Deininger**, Norwegian Geotechnical Institute (NGI), Norway

4.05.P-Mo358 Unraveling Mercury Stable Isotope Ratio Fractionation from Mine Waste to Fish | **Michael Pribil**, US Geological Survey, United States

4.05.P-Mo359 Effects of pH and Competing Ions on the Sorption of Oxyanion-Forming Contaminants onto Lake Sediments | **Mirsya Mulyani**, University of Leeds, United Kingdom

4.05.P-Mo360 Assessing the relevance of bauxite residue amendments with gypsum and organic wastes for phytomanagement of Bauxite Residue from Hydro-Alunorte, Brazil | **Gabrielle Dublet-Adli**, Norwegian Geotechnical Institute (NGI), Norway

4.05.P-Mo361 How do Physicochemical Factors and Suspended Particulate Matter Impact the Metal Content of River Water in a Tropical Environment (New Caledonia)? | **Chloé Dubernet**, Université Côte d'Azur, Géoazur, IRD, CNRS, Observatoire de la Côte d'Azur, France

Marine and Coastal Pollution: Detection, Monitoring, Assessment, Regulation, and Management | Mathijs Smit, Kari K. Lehtonen, Ioanna Katsiadaki

4.08.P-Mo362 Contaminants of Emerging Concern in the Marine Environment: An Integrated Effects Assessment Approach (CONTRAST) | **Steven Brooks**, Norwegian Institute for Water Research (NIVA), Norway

4.08.P-Mo363 Baltic Sea Biological Effects Activity Cluster: Joint Regional Activities for an Improved Assessment of Chemical Pollution in the Marine Environment | **Kari Lehtonen**, Finnish Environment Institute (Syke), Finland

4.08.P-Mo364 "Socioeconomic Dynamics of Sunscreen Pollution from Coastal Tourism: A Comprehensive Assessment of Beachgoer Habits and Preferences in Southern Spain" | **Antonio Tovar-Sánchez**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

4.08.P-Mo365 Characterization of scrubber water discharges from ships using advanced suspect and target screening strategies | **Meritxell Gros**, Catalan Institute for Water Research (ICRA), Spain

4.08.P-Mo366 Quantitative estimation of drivers for ecotoxicological effects of scrubber water discharge to the marine environment | **Lars Skjolding**, Technical University of Denmark, Denmark

4.08.P-Mo367 Generating inputs for the calibration of oil spill effects models: Filling data gaps for marine and freshwater species of importance and application of oil spill biomonitoring system | **Bjørn Hansen**, SINTEF, Norway

4.08.P-Mo368 Risks of Environmental Impacts of Accidental Spills of Ammonia to the Marine Environment | **Bjørn Hansen**, SINTEF, Norway

4.08.P-Mo369 Risk-based Approach for Regulation of Marine Pollution | **Kirit Wadhia**, NOV Inc, United Kingdom

4.08.P-Mo370 A New IOGP Report on Fate and Effects of Naturally Occurring Substances in Produced Water | **Megan Griffiths**, Ricardo, United Kingdom

4.08.P-Mo371 Analysis of emerging contaminants in ship greywater through liquid chromatography and a wide scope target high resolution mass spectrometry screening method | **Meritxell Gros**, Catalan Institute for Water Research (ICRA), Spain

4.08.P-Mo372 Persistent Organic Pollutant Accumulation in Pacific Abyssal Plain Sediments and Biota: Implications on Sources, Transport, and Deep-Sea Mining | **Dana Sackett**, University of Maryland, College Park, USA

4.08.P-Mo373 What is in the water? Evaluating patterns of organic chemicals at different depths on a transect across the North Pacific Ocean | **Elisa Rojo-Nieto**, Helmholtz Centre for Environmental Research (UFZ), Germany

4.08.P-Mo374 Effects of Particles from Road Tunnels Construction on Post-Smolts Atlantic Salmon | **Samantha Martins**, Norwegian Institute for Water Research (NIVA), Norway

4.08.P-Mo375 Metal bioaccumulation, trophic dynamics, and risk of consumption of various marine fish species from the Indian River Lagoon (Florida, USA) | **Luana Hainzenreder Bauer**, University of Québec à Montréal, Canada

4.08.P-Mo376 Risk assessment of Potential toxic Elements in Marine coastal areas of Campania Region (Southern Italy) | **Sonia Manzo**, ENEA CR Portici, Italy

4.08.P-Mo377 Integrated Chemical-Biological Monitoring of Pollution off Main Coastal Cities of Finland Using the Perch (Perca fluviatilis) as the Indicator Species | **Kari Lehtonen**, Finnish Environment Institute (Syke), Finland

4.08.P-Mo378 Assessment of 6PPD-Quinone Acute Toxicity to San Francisco Bay Delta Fish Species and Sublethal Effects to Salmonids | **Jackie Lang**, University of California, Davis, USA

4.08.P-Mo379 Detection of Tire Rubber Particles from a Football Field in an Urban Estuary | **Elisabeth Rødland**, Norwegian Institute for Water Research (NIVA), Norway

4.08.P-Mo380 Assessment of Microplastics in the Sediments around Hywind Scotland Offshore Wind Farm | **Andy Booth**, SINTEF Ocean, Norway

4.08.P-Mo381 A History of Microplastic Pollution in UK Salt Marshes | **Anna Gilbert**, University of York, United Kingdom

4.08.P-Mo382 Microplastic Pollution Along the Mediterranean Coast of Turkey: Impacts on Loggerhead Turtles (Caretta caretta) Nesting Environments and Coastal Ecosystems | **Sevda Eryilmaz Soydan**, Eskisehir Technical University, Turkey

4.08.P-Mo383 Developing a rapid assessment methodology for mangrove plastic contamination by coupling image analysis and machine learning | **Andrea Osorio Baquero**, University of Exeter, United Kingdom

4.08.P-Mo384 Investigations of Microplastics in Surface Water of Tokyo Bay using a Novel Automated Microplastic Sample Preparation System | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.08.P-Mo385 Development of Neural Network Models for Distributions of Plastics Patches in the Ocean by Sentinel-2 High-resolution Data | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.08.P-Mo386 The First Volunteer Monitoring Project to Reveal Distributions of Microplastics larger than 1μm in Global Oceans by a Japanese Giant Ship Company | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.08.P-Mo387 Development of a Semi-automatic Software to Identify Microplastics from Imaging Data by Micro-Fourier-transform Infrared Spectroscopy | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.08.P-Mo388 Occurrences of Microplastics larger than 20 microns in Surface Waters at Tokyo Bay | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.08.P-Mo389 Occurrences of Microplastics larger than 20 Microns in Sediments at Tokyo Bay | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.08.P-Mo390 Occurrences of Microplastics Larger than 20 Microns in Surface Waters of the Philippines | **Emiko Fujita**, Chiba Institute of Technology, Japan

POSTER AREA 3

The Fate and Effects of Micro- And Nano-Plastics in Relation to Human Health Exposure | Alberto Katsumiti, Steffen Foss Hansen, Jane Muncke, Tanja Ćirković Veličković

4.13.P-Mo400 Ingested Nanoplastics Induced Histological, Genotoxic and Gene Expression Changes in Mouse Gastrointestinal Tract | **Aswin Kuttykattil**, The University of Manchester, United Kingdom

4.13.P-Mo401 Immune Effects of Pristine and Microbially Contaminated PET Nanoplastics | **Oeyvind Pernell Haugen**, The National Institute of Occupational Health in Norway, Norway

4.13.P-Mo402 Micro-and nanoplastics migration from food packaging into food: a systematic evidence map | **Jane Muncke**, Food Packaging Forum Foundation, Switzerland

4.13.P-Mo403 Orally ingested microplastic affects a genes and associated signalling pathways in the pig's colon | **Monika Golubska**, University of Warmia and Mazury in Olsztyn, Poland

4.13.P-Mo404 Development of Sampling and Analytical Methods for Measuring Microplastics with Sizes Greater than 20 μm in Tap Water | **Yutaka Kameda**, Chiba Institute of Technology, Japan

4.13.P-Mo405 International standardization of hazardous substance testing methods for recycled plastics for the Plastic Circular Economy | **Jaehak Jung**, , ,

4.13.P-Mo406 Effects of Nano- And Microplastics on the Human Immune System: How Much Should We Worry? | **Claudio Fenizia**, University of Milan, Italy

4.13.P-Mo407 Unraveling Photodegradation Mechanism of Surgical Masks from Microplastics and Nanoplastics Release | **Guyu Peng**, Helmholtz Centre for Environmental Research (UFZ), Germany

4.13.P-Mo408 Risk assessing micro- and nanoplastics for early-life human health: the AURORA Horizon 2020 research project | **Jane Muncke**, Food Packaging Forum Foundation, Switzerland

4.13.P-Mo409 Nanoplastic type influences their biological effects on brain microglia | **Jinyoung Jeong**, Korea Research Institute of Bioscience and Biotechnology, Korea, Republic of

4.13.P-Mo410 Extended application of physiologically based pharmacokinetic: developing particle- and species-related parameters | **Bingqing Lu**, Radboud University, Netherlands

4.13.P-Mo411 Polypropylene nanoplastics enhances the intestinal inflammation induced by disinfectants in zebrafish larvae | **Yugyeong SIM**, University of Science and Technology (UST), Korea, Republic of

4.13.P-Mo412 Micro and Nanoplastics (MNPs) as Potential Hazards for Human Health: Effects of Polystyrene NPs, Polyethylene MNPs and Fishing Net Leachates on Human Intestinal Caco-2 Cells | **Miren Cajaraville**, University of the Basque Country UPV/EHU, Spain

4.13.P-Mo413 Physiologically Based Kinetic (PBK) Modelling for Human Exposure to Micro- and Nanoplastics | **Jiaqi Wang**, Radboud University, Netherlands

4.13.P-Mo414 Impact of Polystyrene Nanoparticles on Lung Epithelial Barrier Formation and Functionality | **Anita Jemec Kokalj**, University of Ljubljana, Biotechnical Faculty, Slovenia

4.13.P-Mo415 Correlative Spectroscopy and Microscopy Analysis of Micro- and Nanoplastics in Complex Biological Matrices | **George Sarau**, Fraunhofer Institute for Ceramic Technologies and Systems (IKTS), Germany

4.13.P-Mo416 True-to-life Nanomaterials for Evaluating Nanoplastics Impacts on Human Health | **Serena Ducoli**, University of Brescia, Department of Mechanical and Industrial Engineering, Italy

4.13.P-Mo417 Human oral exposure to nano- and microplastic polymers and plastic additives in a cross-sectional population-based study of Barcelona (Spain) | **Emma Calikanzaros**, University Pompeu Fabra (UPF), Spain

4.13.P-Mo418 Cytotoxic And Genotoxic Effects Of Nanopolystyrene And Bisphenol A Per Se And In Combined Exposure In A Gastric Cell Line – How High Is The Current Exposure Risk? | **Luís André Mendes**, University of Vigo, Spain

4.13.P-Mo419 Influence of in vitro Gastrointestinal Digestion and UV-Aging of Tire Rubber Microplastics on the Release of Chemical Additives and Toxicity Assessment | **Amelie Vogel**, Technical University Berlin, Germany

4.13.P-Mo421 Washable vs Disposable Face Masks: Million microfiber releases and their toxicities | **Yuyue Huang**, University of Southern Denmark (SDU), Denmark

4.13.P-Mo422 Pro-inflammatory responses in cells induced by nanoplastic exposure | **Joana Antunes**, MARE - Marine and Environmental Sciences Centre, ARNET - Aquatic Research Network Associate Laboratory, Portugal

4.13.P-Mo423 Combined effects of polyethylene nanoplastics and mercury on viability and migration capacity of human cell lines | **Fernanda Rosário**, Centre for Environmental and Marine Studies (CESAM) and Department of Biology, University of Aveiro, Portugal

4.13.P-Mo424 Developing Human Noncancer and Reproductive/Developmental Effect Factors for Nano- and Microplastics in LCA | **Anne-Marie Boulay**, CIRAIG - Ecole Polytechnique de Montreal, Canada

4.13.P-Mo425 Production and Testing of Micro- and Nano-PET Materials for Human Digestion and Enzymatic Hydrolysis Studies | **Raquel Portela**, Spanish National Research Council (CSIC), Spain

4.13.P-Mo426 Chronic Effects of Nano and Microplastics on Reproduction and Development of Marine Copepod Tigriopus Japonicus | **June-Woo Park**, Korea University of Science and Technology (UST), Korea Institute of Toxicology (KIT), Korea, Republic of (South)

4.13.P-Mo427 In Vitro Cell Transforming Capacity of 3D Printed Objects-Derived Plastic Particles | **Julia Catalán**, Finnish Institute of Occupational Health, Finland

4.13.P-Mo428 The Fate and Effects of Micro and Nanoplastics in the Human Body – Insights from the EU-funded PlasticsFatE Project | **Mark Morrison**, Optimat Ltd., United Kingdom

4.13.P-Mo429 The European Research Cluster to Understand the Health Impacts of Micro- and Nanoplastics - CUSP | **Mark Morrison**, Optimat Ltd., United Kingdom

4.13.P-Mo430 Interlaboratory comparisons for obtaining reliable data on microplastic detection methods | **Dmitri Ciornii**, Bundesanstalt für Materialforschung und -prüfung (BAM), Germany

4.13.P-Mo431 Nanoplastics Affect the Behavior of the Different Cell Populations in Peripheral Blood from Healthy Donors | **Ricardo Dauder**, Autonomous University of Barcelona (UAB), Spain

4.13.P-Mo432 Describing the Fate of Food Packaging-Derived Nanoplastics in the Intestinal Epithelium | **Alba Garcia-Rodriguez**, Autonomous University of Barcelona (UAB), Spain

4.13.P-Mo433 Assessment of Pyrolysis-GC-MS as a technique for quantifying in vitro uptake of micro- and nanoplastics in human cells | **Markus Kirchner**, University of Bayreuth, Germany

4.13.P-Mo434 3D In Vitro Tissue Model of Human Alveoli to Assess the Toxicity of MNPLs Following Exposure to the Air-Liquid Interface (ALI) | **Alba Garcia-Rodriguez**, Autonomous University of Barcelona (UAB), Spain

4.13.P-Mo435 Characterization of sunlight- and laboratory-weathered MNPs for Toxicological Studies: limits and perspectives | **Sonia Manzo**, ENEA CR Portici, Italy

4.13.P-Mo436 Micro-nanoplastics, their effect on composition and metabolic functionality of human microbiota and microbial-derived metabolites´ impact on the gut barrier | **Mikel Roldán**, Spanish National Research Council (CSIC), Spain

4.13.P-Mo437 Three-Dimensional A549 Cell Cultures to Study the Chronic Toxicity of Micro- and Nanoparticles in the Respiratory System | **Mahboubeh Hosseinzadeh**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

4.13.P-Mo438 Polyethylene Terephthalate Microplastics Alter Adrenal Transcriptome Profile Of Immature Gilts – In Vivo Studies | **Aleksandra Kurzyńska**, University of Warmia and Mazury in Olsztyn, Poland

4.13.P-Mo439 Development and Understanding of Adopted Bioassays for the Hazard Assessment of Plastics in the Environment | **Marcus Lukas**, German Environment Agency (UBA), Germany

4.13.P-Mo440 Immunomodulatory effects of micro-and nanoplastic particles (MNPs) in human immune cells | **Sebastian Wolf**, German Federal Institute for Risk Assessment (BfR), Germany

4.13.P-Mo441 Identification of toxicologically relevant functional groups on micro- and nanoplastic particles surface | **Dmitri Ciornii**, Bundesanstalt für Materialforschung und -prüfung (BAM), Germany

4.13.P-Mo442 PolyAmidst the crisis: Exploring immunotoxic, genotoxic, and endocrine disrupting effects of polyamide microplastic particles and chemicals | **Nikolai Scherbak**, Orebro University, Sweden

4.13.P-Mo443 Developmental Nanoplastic Exposure Disrupts the Thyroid Hormone Axis in Zebrafish Embryos | **Monica Torres-Ruiz**, National Centre for Environmental Health, Instituto de Salud Carlos III, Spain

4.13.P-Mo444 Short-term exposure to polystyrene micro- and nanoplastic (PS MNP) – in vivo uptake and effects in a colitis mouse model | **Verena Kopatz**, Medical University Vienna, Austria

4.13.P-Mo445 Development of Analytical Methods for the Quantification of Microplastics in Animal Feed Containing Former Food Products | **Mara Putzu**, Istituto Nazionale di Ricerca Metrologica (INRiM), Italy

4.13.P-Mo446 Asymmetric Field Flow Fractionation-Dielectrophoresis-Raman Combination for Chemical Identification of Nanoplastics in Aqueous Matrices | **Marta Fadda**, Istituto Nazionale di Ricerca Metrologica (INRiM), Italy

4.13.P-Mo447 Standardization Methods for the Analysis of Microplastics (10-100μm) in Food Matrix: Sample Preparation, Contamination Control and Digestion of Milk Powder. | **Claudia Drago**, German Environment Agency (UBA), Germany

4.13.P-Mo448 Proposal of exposure reduction measures according to microplastic exposure scenarios in household chemical products | **Yeonjung Park**, TO21 Co. Ltd., Korea, Republic of

4.13.P-Mo449 Granulated rubber used in playgrounds: a potential source of atmospheric contamination | **Marta Llorca**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

4.13.P-Mo450 Exposure to Tire Rubber Compounds via Dermal Contact | **Sergio Soñora**, University of Santiago de Compostela, Spain

4.13.P-Mo451 Microplastic polyethylene induces hearing and sensorimotor deficit in mice | **Jin SU KIM**, Korea Institute of Radiological and Medical Sciences (KIRAMS), Korea, Republic of

Innovations in LCA: Bridging Temporal Dynamics and Advancements in Inventory Data Modeling | Michele De Rosa, Antonino Marvuglia, Roland Hischier, Tomás Navarrete Gutiérrez

5.02.P-Mo452 The Importance of Timeframes When Determining Marginal Heat Suppliers for Informed Decision Support | **Lasse Poulsen**, Aalborg University, Denmark

5.02.P-Mo453 Regionalizing the Supply Chain in Process Life Cycle Inventory with Multiregional Input-Output Data: Ecoinvent with EXIOBASE | **Stephan Pfister**, ETH Zurich, Switzerland

5.02.P-Mo454 Fully dynamic carbon footprint of circular biobased systems – A framework with temporal life cycle inventory database (DyPLCA) tailored for forestry and wood products cascades | **Thomas Schaubroeck**, Luxembourg Institute of Science and Technology, Luxembourg

5.02.P-Mo455 Carbon Flux Forest Model Extended to Multiple Species and Forest Management Practices: Data and Validation | **Kíra Lancz**, Aalborg University, Denmark

5.02.P-Mo456 Data Quality Assessment of Aggregated Life Cycle Inventory Datasets - A Case Study on Fossil-Based and Bio-Based Plastic Food Packaging | **Elena Semenzin**, Ca' Foscari University of Venice, Italy

5.02.P-Mo457 Assessing methodological choices in wood-based biorefinery LCA literature | **Kíra Lancz**, Aalborg University, Denmark

5.02.P-Mo458 Bridging scales in lithium production: From site-specific studies to a global model | **Stephan Pfister**, ETH Zurich, Switzerland

5.02.P-Mo459 LCA of the Italian Photovoltaic Mix for 2021 and 2030 | **Carmen Ferrara**, RSE SpA - Research on Energy System, Italy

5.02.P-Mo460 State of the Art, Challenges and Future Development of Environmental Assessments of Magnesia Supply Chain | **Sarah Badioli**, University of Liège, Saint-Gobain Research Provence, Belgium, France

5.02.P-Mo461 Comparative Life Cycle Assessment of Power Supply Units in Direct and Alternating Current | **Maurizio Cellura**, University of Palermo, Italy

5.02.P-Mo462 Solving LCI data gaps for fine chemicals by retrosynthesis for industrially relevant reactions | **Jonas Goßen**, Carbon Minds GmbH, Germany

5.02.P-Mo463 How highly specific LCA data can inform purchasing decisions that significantly reduce environmental impacts | **Francesco Scalogna**, Carbon Minds GmbH, Germany

5.02.P-Mo464 Advancing on the transition towards data interoperability: the Global LCA Data Access Network (GLAD) | **Simone Fazio**, Ecoinvent Association, Switzerland

5.02.P-Mo465 The global environmental footprint of metal commodities | **Frédéric Lai**, French Geological Survey, BRGM, France

5.02.P-Mo466 PLIM-WIND: A Parameterized Life-Cycle Inventory Model to Assess the Impacts of the European Wind Turbine Fleet | **Miquel Sierra Montoya**, Autonomous University of Barcelona (UAB), Spain

5.02.P-Mo467 Validation of New Technology for Sustainable Recovery of Materials in the Non-Ferrous Metallurgical Industry: RECOPPs Project | **Laura Mayor Pérez**, Eurecat, Spain

5.02.P-Mo468 The Grand Unifying Theory of Hybrid Life-Cycle Assessment | **Michael Weinold**, ETH Zurich, Paul Scherrer Institute, Switzerland

Life Cycle Impact Assessment – Advances in Modelling and Application | Roland Hischier, Stephan Pfister, Francesca Verones, Olivier Jolliet

5.05.P-Mo469 Opening the Pandora's box of Soil Biodiversity in LCA: a First Attempt to Model the Impact of Human Activities on Earthworms | **Valeria De Laurentiis**, European Commission - Joint Research Centre (JRC), Belgium

5.05.P-Mo470 Using Species Sensitvity Distribution to capture ecosystem scale fisheries impacts on biodiversity | **Arnaud Helias**, ITAP, Univ Montpellier, INRAE, Institut Agro, France

5.05.P-Mo471 Towards a consistent assessment of potential impacts of human activities on the instrumental value of natural systems in life cycle assessment | **Laura Debarre**, CIRAIG - Ecole Polytechnique de Montreal, Canada

5.05.P-Mo472 Weighting Factors for LCA – A New Set from a Global Survey | **Cecilia Askham**, NORSUS AS, Norway

5.05.P-Mo473 Recommended model for the endpoint assessment of mineral resource use in GLAM3 project | **Masaharu Motoshita**, National Institute of Advanced Industrial Science and Technology (AIST), Japan

5.05.P-Mo474 Refining the Modelling Approach for Terrestrial Acidification in Life Cycle Impact Assessment | **Marion Lebrun**, Norwegian University of Science and Technology (NTNU), Norway

5.05.P-Mo475 Biodiversity Loss by Water Consumption in Global Watersheds: Effects on Riverine Fish Species | **Kamrul Islam**, National Institute of Advanced Industrial Science and Technology (AIST), Japan

5.05.P-Mo476 Enhancing Local Biodiversity Assessment: Similarities and Differences Among Methods Applied to Agribalyse Datasets | **Arnaud Helias**, ITAP, Univ Montpellier, INRAE, Institut Agro, France

5.05.P-Mo477 New Effect Factors for Freshwater Ecotoxicity of Pharmaceuticals | **Tolga Ayeri**, Radboud University Nijmegen, Netherlands

5.05.P-Mo478 Are We Overestimating Marine Eutrophication Impacts in LCA? – A Temporal Approach to Assessing Nitrogen Emissions | **Montserrat Nunez**, IRTA, Spain

5.05.P-Mo479 REsource Services Depletion Assessment (RESEDA): a parametrized life cycle impact assessment method of dissipative flows | **Titouan Greffe**, CIRAIG, UQAM, Canada

5.05.P-Mo480 Characterizing Human health Impacts of physical activity in sport and transportation LCAs | **Olivier Jolliet**, Quantitative Sustainability Assessment, Technical University of Denmark, Denmark

5.05.P-Mo481 Spatially and taxonomically explicit characterisation factors for greenhouse gas emission impacts on biodiversity | **Cristina-Maria Iordan**, SINTEF Ocean, Norway

5.05.P-Mo482 LCA for financial institution's investment and loan portfolio -Biodiversity Damage Assessment Using LIME3- | **Nishitani Naoki**, Tokyo City University, Japan

5.05.P-Mo483 A Highly Regionalized Biodiversity Economic Value Database for Life Cycle Impact Assessment | **David Font Vivanco**, Eco Intelligent Growth, Spain

5.05.P-Mo484 A Landscape-scale Biodiversity Impacts Analysis of Côte d'Ivoire's Cocoa Cultivation Along Export Supply Chains | **Stephan Pfister**, ETH Zurich, Switzerland

5.05.P-Mo485 How to better reflect biodiversity impacts within the Environmental Footprint method? A comparison analysis following a consultation approach | **Valeria De Laurentiis**, European Commission - Joint Research Centre (JRC), Belgium

5.05.P-Mo486 Land-Use-Based Biodiversity Impact Assessment Methods in food LCA | **Merja Saarinen**, Natural Resources Institute Finland (Luke), Finland

5.05.P-Mo487 Sustainability in Wheat Farming: A Critical Examination of Fungicide Practices in Belgium Through Life Cycle Assessment. | **Delphine Cerica**, University of Liège, Belgium

5.05.P-Mo488 Environmental Assessment of Bio-based Fertilizers: adaptability of the non-LCA methods into LCA | **Carlos Torres Guerrero**, University of Vic - Central University of Catalonia (UVic-UCC), Spain

5.05.P-Mo489 Biogenic Carbon – Challenges For Product Life Cycle Assessment and Opportunities for Streamlined Carbon Tracking | **Rachel Jobson**, Ricardo Energy & Environment, United Kingdom

5.05.P-Mo490 ProScale-E - an easy-to-use scoring approach for ecotoxicity potential assessment. | **Tomas Rydberg**, Swedish Environmental Research Institute (IVL), Sweden

5.05.P-Mo491 Methods to Determine Freshwater Aquatic Toxicity Effects Factors and Their Influence on Product Environmental Footprinting | **Jennifer Saxe**, KENVUE, USA

5.05.P-Mo492 Choosing the best available methods to assess land use impacts for business applications | **Pinar Kavak Gulbeyaz**, Norwegian University of Science and Technology (NTNU), Norway

5.05.P-Mo493 Including non-linearity in life cycle impact assessment: a case for GWP and energy transition scenarios | **Cristina Madrid López**, Autonomous University of Barcelona (UAB), Spain

5.05.P-Mo494 Life Cycle Impact Assessment with ReCiPe | **Sharon Janssen**, Radboud University Nijmegen, Netherlands

5.05.P-Mo495 Improving substance coverage for more accurate ecotoxicity normalisation factors – A Consortium-based approach | **Florence Bohnes**, EcoBeautyScore Consortium, Unilever R&D Colworth, , United Kingdom

5.05.P-Mo496 Earth System Functioning as a Separate Area of Protection for Life Cycle Impact Assessment | **Jan Matuštík**, Charles University Environment Centre, University of Chemistry and Technology Prague, Czech Republic

5.05.P-Mo497 Choices Mechanism in Models Construction for Life Cycle Impact Assessment of Natural Resources. | **Camille Chabas**, Montreal Polytechnic, Canada

5.05.P-Mo498 Substitution in Circular Footprint Formula: feasibility showcase through nutrient recycling to secondary fertilizer | **Zoe Chunyu Miao**, Technical University of Darmstadt, Germany

5.05.P-Mo499 Comparing approaches for assessing Absolute Environmental Sustainability: a case study on the EU Consumption Footprint | **Susanna Andreasi Bassi**, European Commission, Joint Research Center, Italy

5.05.P-Mo500 Limitations of the resource depletion assessment in the energy transition | **Benedetta Marmiroli**, RSE SpA - Research on Energy System, Italy

Flame Retardants and Regulation, Connecting Substance Grouping and Circular Economy | Jacob de Boer, Stuart Harrad, Martin Sharkey

6.05.P-Mo501 Implications of lowering Low POP Content Limit values for the Circular Economy | **Stuart Harrad**, University of Birmingham, United Kingdom

6.05.P-Mo502 Illegal Recycling is not Circularization: Extremely High Levels of Legacy Brominated Flame Retardants in Children's Toys from European Markets | **Chijioke Olisah**, Masaryk University, Czech Republic

6.05.P-Mo503 Comprehensive Risk Assessment of E-waste Dismantlers Occupational Exposure to Organophosphate and Halogenated Flame Retardants Using Monte Carlo Simulation | **Lara Cioni**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

6.05.P-Mo504 Safe, Sustainable and Circular by Design Organophosphate Flame Retardants | **Hannah Flerlage**, Van 't Hoff Institute for Molecular Sciences, University of Amsterdam, Netherlands

6.05.P-Mo505 Flame retardant-contaminated food contact items and toys sold on the U.S. market | **Sicco Brandsma**, Vrije Universiteit Amsterdam, Netherlands

6.05.P-Mo506 Release hotspot identification during manufacturing of a halogen free fire-retardant additivated composite for railway applications | **Virginia Cazzagon**, Leitat Technological Center, Spain

6.05.P-Mo507 Where are the Chemicals? (WatCh) | **James Delaney**, Environment Agency United Kingdom, United Kingdom

Plastic Pollution: Bridging the Gap Between Science and Policy Needs | John Norman, Ana I Catarino, Thomas Maes, Suja Purushothaman Devipriya

6.09.P-Mo508 Harmonizing beach litter data: A cornerstone for impact assessment | **Fei Song**, The Norwegian University of Science and Technology, Norway

6.09.P-Mo509 Towards a Safe Circular Plastic Economy: Using a Dynamic Probabilistic Material Flow Analysis Approach to Capture Japanese Plastic Flows | **Yiwen Zhang**, Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland

6.09.P-Mo510 Remobilization and Deposition of Plastics along Riverbanks in a Typical French Estuary During Complete Tidal Cycles | **Rosa Sawan**, National Center for Marine Sciences, Univ. Littoral Côte d'Opale, CNRS, IRD, Univ. Lille, Lebanon, France

6.09.P-Mo511 Exploring How AI Can Fill Data Gaps for Better Decision Making on Plastics Governance | **Lara Veylit**, SINTEF Ocean, Norway

6.09.P-Mo512 Paving the Way with a Holist Approach Combining Technologies and Actions to Reduce Litter in European Rivers | **Mariana Miranda**, Flanders Marine Institute (VLIZ), Belgium

6.09.P-Mo513 Mapping inland plastic flows in Santa Cruz, Galapagos | **Daniela Flor**, University of Exeter, United Kingdom

6.09.P-Mo514 Environmental Fate of Plastic Pellets | **Hanne Diels**, University of Antwerp, Belgium

6.09.P-Mo515 Floating Barriers as a Monitoring Tool for Riverine Solid Litter: A Case Study in South America | **Lara Pinheiro**, University of Exeter, United Kingdom

6.09.P-Mo516 Comparison of applicability of water column plastic sampling methods | **Stephanie Oswald**, Radboud University Nijmegen, Netherlands

6.09.P-Mo517 Establishing a methodology for monitoring microplastics in water intended for human consumption | **Francesco Fumagalli**, European Commission - Joint Research Centre (JRC), Italy

6.09.P-Mo518 The Unaccounted Presence of Plastic in Sea Turtles | **Carmen Morales Caselles**, University of Cadiz, Spain

6.09.P-Mo519 Open Database of chemicals measured in plastic products | **Zhanyun Wang**, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland

6.09.P-Mo520 Vegetated Discharge Areas for Plastic Debris Removal: Deciphering of their Deposition on Various Substrates | **Margaux Kerdiles**, University of Rennes 1, France

6.09.P-Mo521 Characterizing Micronized Plastic Particles (10-200 µm) for Exposure Studies and Risk Assessment – A Comparison of Different Methods | **Claudia Lorenz**, Roskilde University (RUC), Denmark

6.09.P-Mo522 The Application of Bayesian Networks to Integrate Microplastics and Nanoplastics into Regional Scale Multiple Stressor Risk Asssessments: San Francisco Bay and the Delta as a Case Study | **Wayne Landis**, Western Washington University, USA

6.09.P-Mo523 Addressing Chemicals and Polymers of Concern in the UN Plastics Treaty | **Martin Wagner**, Norwegian University of Science & Technology (NTNU), Norway

6.09.P-Mo524 The elephant in the room – enhancing the science-policy interface throughout the negotiations on the treaty to end plastic pollution. | **Emily Cowan**, SINTEF Ocean, Norway

6.09.P-Mo525 CircleHealth – The Danish Hospital Sector Towards a Circular Transition of Textile and Plastic Waste | **Nikoline Oturai**, Roskilde University, Denmark

6.09.P-Mo526 From Teams® to Transects – Local Knowledge Challenges our Understanding of Beach Litter | **Thomas Stanton**, Loughborough University, United Kingdom

6.09.P-Mo527 Citizen Science Integration and Public Engagement for Plastic Litter Monitoring in the North Sea Region: Insights from the TREASURE Project in the Living Lab Nieuwpoort | **Therese Nitschke**, Flanders Marine Institute (VLIZ), Belgium

6.09.P-Mo528 The PlastChem Project: Compiling material flows of plastic to prioritize action on polymers of concern | **Mari Engvig Løseth**, Norwegian Geotechnical Institute (NGI), Norway

6.09.P-Mo529 Sustainable Personal Care; Emission Estimation, Time-series Forecasting and Policy Measures for Microplastic Beads from Personal Care Products; A Study from India | **Riya Alex**, Cochin University of Science and Technology, India

6.09.P-Mo530 Event Ethnography to examine needs in the global negotiations on the Treaty to end plastic pollution: Dataset from the first session of negotiations (INC-1) | **Emily Cowan**, SINTEF Ocean, Norway

Science for Global Management of Chemicals | Penny Vlahos, Lena Vierke, Miriam L. Diamond, Marlene Ågerstrand

6.11.P-Mo531 Recommendations for the Deliverables of the new Science and Policy Panel on Chemicals, Waste and Pollution Prevention | **Penny Vlahos**, University of Connecticut, USA

6.11.P-Mo532 The International Panel on Chemical Pollution (IPCP): Academic scientists' voice in support of the Intergovernmental Science–Policy Panel on Chemicals and Waste | **Rainer Lohmann**, University of Rhode Island, USA

6.11.P-Mo533 Obstacles to Scientific Input in Global Policy | **Marlene Ågerstrand**, Stockholm University, Sweden

6.11.P-Mo534 Enhance the Science-Policy Panel´s Impact by Leveraging Synergies with Innovation | **Anja Klauk**, German Environment Agency (UBA), Germany

6.11.P-Mo536 Monitoring of Toxicity of Plastic Recyclates from Low- and Middle Income Countries by Bioassay Panel to Support the Global Management of Chemicals in Plastics | **Peter Behnisch**, BioDetection Systems BV (BDS), Netherlands

6.11.P-Mo537 Enhancing POPs Measurements and Reporting for Air: Keeping up with the Demands of the Global Monitoring Plan | **Tom Harner**, Environment and Climate Change Canada, Canada

6.11.P-Mo538 Do simple screening criteria capture a chemical's potential for adverse effects in remote regions? | **Frank Wania**, University of Toronto, Canada

6.11.P-Mo539 Needs for Sound Science across Existing National and International Management Structures – Implications from Observation in a Global Mercury Study | **Noriyuki Suzuki**, National Institute for Environmental Studies, Japan

6.11.P-Mo540 Needs for sound science across existing national and international management structures – implications for the marine ecosystems | **Joan Grimalt**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

6.11.P-Mo541 A Cheminformatic Exploration of Chemicals on the Global Market | **Jonathan Blumenthal**, ETH Zürich, Switzerland

6.11.P-Mo542 Continuing large-scale global trade and illegal trade of highly hazardous chemicals | **Zhanyun Wang**, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland

6.11.P-Mo543 How Do We Adress the Global Threat of Irreversibly, Accumulating Trichloroacetic Acid (TFA)? | **Hans Peter Arp**, Norwegian Geotechnical Institute (NGI), Norwegian University of Science & Technology (NTNU), Norway

6.11.P-Mo544 Geospatial Dependent Pesticides Application Pattern for Selected European Countries | **Shiva Sabvezari**, RECETOX, Faculty of Science, Masaryk University, Czech Republic

6.11.P-Mo545 Can We Track the Origin of Rapidly Rising Releases of Hexachlorobutadiene to the Global Environment? | **Frank Wania**, University of Toronto, Canada

6.11.P-Mo546 Synthesis of Radiolabelled Industrial Chemicals, Drugs and Crop Protection Products from Carbon-14 Building Blocks | **Nitesh Panchal**, Labcorp, United Kingdom

6.11.P-Mo547 Glyphosate and earthworms | **Claudia de Lima e Silva**, Vrije University Amsterdam, Netherlands

6.11.P-Mo548 Conflicts of interest in scientific publishing: a cross sector perspective | **Tobias Pamminger**, Bayer AG, Germany

TUESDAY SCHEDULE		
08:00–09:30	NC3Rs CRACK IT Challenge "SAFE" Meeting	Secretaria 5
08:30–09:30	IBERA Informational Breakfast	Barcelona
09:00–18:00	Badge Pick-up & Registration & Cloackroom	Outside Ramp (Registration Area)
09:00–09:30	Poster Setup	
09:00–18:00	Speaker Ready Room	Secretaria 1
09:00–12:10	Job Event	Varsovia
09:30–10:50	**Presentation Sessions**	
10:50–11:35	Coffee & Poster Break	Exhibition Areas
11:00–15:00	Towards Improving Life Cycle Impact Assessment (LCIA) of Mine Tailings	Club Room
11:35–12:50	Forum Discussion: From Knowledge to Decisions: How Should the Different Legs of SETAC Interact?	TV Room
11:35–12:55	**Presentation Sessions**	
12:55–14:25	Lunch & Poster Break	Exhibition Areas
12:55–14:25	SETAC Journals Joint Editorial Meeting	Oporto
12:55–14:25	Regional Branches Committee Gathering	SETAC Square
12:55–14:25	Agilent Sponsored Lunch Seminar: Recent Advances in the Quantitation and Characterisation of Emerging Persistent Organic Pollutants	Barcelona
12:55–14:25	Sciex Sponsored Lunch Seminar: Introducing Novel Mass Spectrometry Techniques and their Applications for Environmental Analysis	Video Conference Room
14:25–15:45	**Presentation Sessions**	
14:30–15:30	Persistence Science Interest Group Meeting	Press Room
15:45–16:45	Coffee & Poster Break	Exhibition Areas
15:45–16:45	SETAC Journals: Meet the Editors	SETAC Square
16:00–16:45	Poster Corners	Exhibition Areas
16:00–17:00	Bees, Higher-Tier Risk Assessments and Models – Advantages, Possibilities and Limitations	Club Room
16:00–17:00	PlasticTrace Stakeholder Meeting	Press Room
16:00–18:00	ICCS Environmental Delivery Team Meeting	Secretaria 4
16:00–18:00	Microplastics Advance Research and Innovation Initiative Networking Session	Video Conference Room
16:45–17:45	**SETAC Science Slam**	**Auditorium 1**
16:45–18:15	How to Make the Most of Data of Chemicals Concentrations in Environmental Media: Practical Use of CREED, Challenges and Solutions	TV Room
17:00–18:30	Global Soils Interest Group Meeting	Barcelona
17:00–18:30	SETAC Europe LCA Interest Group Meeting	Oporto
17:00–18:30	SETAC Plants Interest Group Meeting	Varsovia
17:45–18:15	**Poster Social**	**Exhibition Areas**
18:00–20:00	Metals Interest Group Meeting	Club Room
21:30 - ...	Student Party	Terraza Casino

SETAC Science Slam

16:45–17:45 | Auditorium 1

Vote for SETAC Science Slam Champion of 2024!

Get ready to witness the ultimate showdown of scientific storytelling at the SETAC Europe 2024 Science Slam, a true highlight of the Annual Meeting!

Expect an amusing show with lots of excitement and endless fun, as 5 contestants (slammers) battle it out for the title of Science Slam Champion of 2024. Slammers get 8 minutes each to charm the audience by presenting their complex research in a joyful, understanding and entertaining way.

Audience participation is key! Cheer for your favourite presenter and cast your vote. The winning slammer will receive a cash price of 500€, as well as the proud title of '**SETAC Science Slam Champion of 2024**'.

sponsored by

Environmental Science & Technology Letters

Programme

The following slammers will take the stage:

1. **Thomas Stanton** - We Need to Talk About Fashion's Unnatural 'Naturals'
2. **Anna Schwarz** - Microplastic Impact in Life Cycle Assessment
3. **Eirini Andreasidou** - Tomatoes of the Shire: A Fellowship's Quest through the Soil-Plant Continuum
4. **Lachlan Chadwick** - Non-Target Analysis, I'll Drink to That
5. **Simon Perera del Rosario** - Could Computers Be the New Toxicologists?

Forum Discussion

11:35–12:50 | TV Room

From Knowledge to Decisions: How Should the Different Legs of SETAC Interact?

Introduction by SETAC Executive Director Bart Bosveld, discussion moderated by Sabine Apitz (IEAM Editor in Chief, SETAC Europe vice president).

Panel members: Martin Scheringer *(Masaryk University),* **Gunilla Öberg** *(University of British Columbia),* **Anja Gladbach** *(Bayer AG),* **Bruno Campos** *(Unilever),* **Georg Streck** *(European Commission),* **Markus Schmitz** *(Chair of the SETAC Europe Student Advisory Council)*

One of the underlying principles of SETAC is multipartite collaboration – individuals from academic, business, governmental, intergovernmental non-governmental sectors all participate. However, when members with such diverse affiliations act, individually or in concert, to provide expert advice, the topics of differing perspectives, biases, and interests must be addressed, not least to help clarify when relevant conflicts of interest (COI) are at hand. COI can arise from a variety of financial, personal, societal, moral, life and work-life issues, and may differ depending upon the context in which the expert advice is used. This session will provide a platform to critically address these issues, seeking to identify best practices for transparently and productively dealing with COI when we act as expert advisors (whether that is for policy, reviews, workshops, etc.)

The session will kick off with a moderated discussion featuring panelists from academic, business and governmental sectors, as well as a student. As terms are often conflated, the session will begin with a reflection on the terms bias, interests, and COI, providing examples. Panelists will examine questions of trust, the disentanglement of interests and bias. When may interests turn into conflicts of interest? How can COI be managed and mitigated? How can a multistakeholder organisation such as SETAC support a constructive exchange and collaboration? In the final part of the session, the audience can share their views and experiences, ask questions, and contribute to shaping the way forward for the SETAC community. To facilitate a respectful, honest, open and fruitful discussion, the session is held under the Chatham House Rule, meaning that anyone who comes to the session is free to use information from the discussion, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed.

Tuesday 7 May

★ Special Session

09:30–10:50 | Madrid DEF

8.01 - A Snapshot on Weapons and Military Chemicals in the Environment - Present Issues and Legacies from the Past

Matteo Guidotti

This session aims at raising awareness and stimulating specific attention within the international scientific community on the most significant effects of warfare, the use of contemporary weapons or the presence of obsolete ordnance from previous armed conflicts on the environment, in terms of contamination of soil, air and waterbodies.

The main outcomes of the scientific works will be summarised in a press release text to be circulated to non-specialistic press and social media.

★ Special Session

14:25–15:45 | Ronda (Fibes 1)

8.03 - Beyond the Conventional Ecotox Endpoints - Advances to Unravel Low, Chronic Exposure Risks

Henriette Selck, Dave Spurgeon, and Roman Ashauer

A growing body of scientific literature provides evidence that chronic exposure to (multiple) chemicals over extended time scales may result in adverse, often sublethal effects in organisms and their populations, even at low concentrations. When such effects can be plausibly linked to changes in individual performance and vital rates, they may propagate to the population and community levels, potentially affecting ecosystem functioning and biodiversity. Standard toxicity tests are largely designed to measure effects on classical life-cycle-related endpoints (survival, reproduction, population growth rate). Such tests may not, however, detect changes in organism biology and ecology, that may nonetheless feed through to effects on vital rates under field conditions. Recent work on biologically active chemicals (pesticides, biocides, pharmaceuticals) has identified a range of such modes of action that may not themselves directly affect conventional apical endpoints, but that are likely to affect such rates via alternative effect cascades in species in the wild.

The aim of this session is to disseminate the current status of different aspects of low-level long-term chemical exposure including both aquatic and terrestrial systems, and to highlight future challenges and research needs. Additionally, possible implications for regulatory settings will be addressed.

This session will discuss the following topics:

1. Mechanistic understanding linking low chronic exposure to impacts on "non-standard" (e.g. behavioural, immunological, (epi-)genotoxic) endpoints and the potential links to adverse outcomes on species and biodiversity that can be placed within regulatory frameworks;
2. Risks of chronic, multi-generational effects under different exposure scenarios, to progress the understanding of the specific issues related to the risks from low-level, chronic exposure scenarios.
3. Aspects of integrating non-standard endpoints in experimental approaches, modelling and regulatory frameworks.

★ Special Session

14:25–15:45 | Al-Andalus (Fibes 1)

8.06 – Regulatory Needs for Scientific Development

Wim De Coen, Blanca Serrano, Christoph Schaefers

To speed up the development and integration of new methods in the regulatory context, there is a clear need to foster collaboration and information sharing between regulators and the scientific communities.

This session, giving an overview of regulatory needs for scientific development within the environmental hazard and risk assessment and of requirements set by the respective legislations, invites industry and academia to present their perspective on improving the collaboration.

In the panel session, we discuss how to enhance the dialogue between regulators and scientists and promote scientific developments for regulatory needs. The session will cover the research topics emerging from new regulatory challenges as well as the role of NAMs in regulatory applications aiming at generating relevant and reliable data.

A better integration of the scientific community, regulators and policymakers constitutes a basis for sound decision-making in chemicals management throughout the EU, which is important in the current times of climatic, economic and political crisis.

Background

The European Commission adopted its Chemicals Strategy for Sustainability (CSS) in Oct 2020 as part of the EU's zero pollution ambition commitment to the European Green Deal. It aims to better protect citizens and the environment from harmful chemicals, and boost innovation by promoting the use of safer and more sustainable chemicals. Important EU legislative initiatives (e.g. CLP and 'One Substance One Assessment') are currently under revision to meet these ambitions.

Changes in EU regulations are the latest drivers for new perspectives and solutions in regulatory science. An example of such a driver is the inclusion of new hazard classes under the CLP including Endocrine Disruptors for human health and the environment, PBT (persistent, bioaccumulative and toxic)/vPvB (very persistent and very bioaccumulative) and PMT (persistent, mobile and toxic)/vPvM (very persistent and very mobile) hazard classes.

ECHA is also actively participating in the EU-wide research and innovation programme PARC (Partnership for the Assessment of Risks from Chemicals) which is co-funded by the Commission DG RTD and the Member States. ECHA contracts the development of NAMs-based tools and data for hazard identification and characterisation of industrial chemicals, which supports ECHA's ambition to further develop animal-free methodologies for regulatory hazard assessment of (eco)toxicological properties of chemicals.

Tuesday Platform Presentations Morning 1

	09:35	09:50	10:05
Auditorium 1	**Microfibre Release From Textiles and Subsequent Pollution: Root Causes, Emission Routes, Effects and Mitigation	...**		
	4.09.T-01 Unnatural 'Naturals': Sources, Pathways, and Impacts of Textile's Plastic Alternatives	**Thomas Stanton**, Loughborough University, United Kingdom	**4.09.T-02** Accumulation of anthropogenically derived microfibers in a coastal food web and responses in representative zooplankton species	**Susanne Brander**, Oregon State University, USA	**4.09.T-03** Ecotoxicological Effects of Bio-based Microfibres on the Key Soil Detritivore Eisenia fetida	**Winnie Courtene-Jones**, University of Plymouth, United Kingdom
Auditorium 2	**Prospective Life Cycle Assessment for Sustainable Solutions in Times of Environmental Crises	...**		
	5.07.T-01 Prospective Life Cycle Assessment to Support the Assessment of Early Stage Bioeconomic Technologies in RDI Projects	**Vanessa Zeller**, Technical University Darmstadt, Germany	**5.07.T-02** Life Cycle Inventory Estimation of Energy Use in Pharmaceutical Production: Upscaling from Laboratory data	**Muhammed Ayaj Ansar**, Radboud University Nijmegen, Netherlands	**5.07.T-03** Integrating Prospective Life Cycle Assessment in Energy System Optimization Modelling: Opportunities and Limitations	**Anne van den Oever**, Vrije Universiteit Brussel (VUB), Belgium
Auditorium 3	**Behavioural Toxicology: Methodologies and Research Needs**	Miguel Oliveira, Alex Ford, Demetrio Raldua, Minna Saaristo		
	1.04.A.T-01 Perceptions about the quality and utility of Behavioural (Eco)Toxicology to protect human and ecosystem health	**Alex Ford**, University of Portsmouth, United Kingdom	**1.04.A.T-02** Impact Of Environmentally Relevant Concentrations Of Fluoxetine On Zebrafish Larvae: From Gene To Behavior	**Daniela Correia**, University of Aveiro (UA), Portugal	**1.04.A.T-03** Impacts of pharmaceuticals on animal behaviour: a systematic map of evidence and open access database	**Jake Martin**, Swedish University of Agricultural Sciences, Sweden
Madrid ABC	**Analysis, Assessment and Management of Contaminants of Emerging Concern and Their Transformation Products in the Environment	...**		
	3.04.C.T-01 Advancing Surface Water Monitoring: A Comprehensive Strategy Integrating Tailored Pesticide Screens and Advanced Analytical Techniques	**Pulasthi Serasinghe**, RMIT University, Australia	**3.04.C.T-02** A New Method for Detecting and Quantifying Phthalate Exposure Using Blubber from Bottlenose Dolphins (Tursiops truncatus)	**Maggie Knight**, Graduate Program in Marine Biology, College of Charleston, USA	**3.04.C.T-03** What is in our electrical and electronic plastic waste? Non target and target screening approaches for the identification and determination of hazardous substances	**Gabriela Castro**, University of Santiago de Compostela, Spain
Madrid DEF	★ **A Snapshot on Weapons and Military Chemicals in the Environment - Present Issues and Legacies from the Past**	Matteo Guidotti		
	8.01.T-01 The impact of Chemical Warfare Agents in the Environment	**Miguel Sierra**, Universidad Complutense de Madrid, Spain		**8.01.T-02** Training activities in military ranges in Italy: environmental and health protection issues	**Danilo Coppe**, Istituto Ricerche Esplosivistiche, Italy
Bruselas	**Latest Science on PMT/vPvM Substances and on Bioavailability in Times of the Pollution Crisis**	Michael Neumann, Hans Peter Arp, John Parsons, Jose Julio Ortega-Calvo		
	3.13.T-01 Regulation of Persistent and Mobile substances at the European level: Regulatory developments and CLP Guidance development	**Kostas Andreou**, European Chemicals Agency (ECHA), Finland	**3.13.T-02** Occurrence of persistent and mobile chemicals in tap water	**Daniel Zahn**, Helmholtz Centre for Environmental Research (UFZ), Germany	**3.13.T-03** Exploring Organic-Carbon-Water Partition Ratio (KOC) Data for Mobility Hazard and Exposure Assessments Using Big Data Approaches	**Sivani Baskaran**, Norwegian Geotechnical Institute (NGI), Norway
Paris	**Protecting Innovation in Plant Protection: Low-risk Pesticides, Precision Applications, and Considerations on Risk Assessment	...**		
	4.11.T-01 Nano-enabled strategies to enhance biological nitrogen fixation	**Jason White**, Connecticut Agricultural Experiment Station, USA	**4.11.T-02** Bacillus strains as biological tools in agriculture - Lets take a look at the soil microbiome and famers practice	**Sebastian Hartmann-Wittulsky**, Bayer AG, USA	**4.11.T-03** Precision application of pesticides in agriculture: role and contribution of the European Precision Application Task Force	**Jonas Schartner**, Federal Office of Consumer Protection and Food Safety (BVL), Germany
Al Andalus (Fibes 1)	**Unravelling the Complexities of PFAS: From Environment to Human Health and Reproduction**	Francesco Dondero, Menghang Xia, Shuo Xiao, Tommaso Serchi		
	1.14.T-01 Evaluation of PFAS Effects on Nuclear Receptors and Cellular Pathways Using High-throughput Screening Datasets	**Menghang Xia**, National Center for Advancing Translational Sciences (NCATS), United States	**1.14.T-02** In silico and in vitro prioritization of emerging PFASs identified by non-targeted analysis for environmental hazard assessment	**Xueqi Fan**, Tsinghua University, China	**1.14.T-03** The Relationship Between the Molecular Properties of Per- and Polyfluorinated Substances (PFAS) and Their Ecotoxicity	**Ge Xie**, Amsterdam Institute for Life and Environment (A-LIFE), Vrije Universiteit Amsterdam, Netherlands
Italica (Fibes 1)	**Bridging the Gap between Exposure, Ecotoxicology and Ecology – Identifying and Regulating the Impact of Chemical Pollution on Biodiversity	...**		
	2.04.A.T-01 Indirect Antimicrobial Effects in Aquatic Food Webs – Using Heterotrophic Pathways as a Model	**Alexander Feckler**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany	**2.04.A.T-02** The mesocosm HeMHAS: A novel non-forced system to integrate the ecosystems' structural and functional changes due to contaminants in a multispecies scenario	**Mohammed Ariful Islam**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Bangladesh, Spain	**2.04.A.T-03** Progress in the Application of Non-Invasive Targeted Environmental DNA (eDNA) Methods for Enhanced Confidence in Risk Assessments and Evaluation of Mitigation and Remediation Effectiveness	**Caren Helbing**, University of Victoria, Canada
Ronda (Fibes 1)	**Marine Ecotoxicology: Impacts and Possible Solutions, From Coastal to Deep-Sea Ecosystems**	Marco Munari, Marinella Farre, Davide Asnicar, Daniela Maria Pampanin		
	2.05.A.T-01 The Impact of 17α-Ethynylestradiol (EE2) on Behaviour and Morphology in an Australian Marine Fish	**Shiho Ozeki**, Monash University, Australia	**2.05.A.T-02** Bioplastics as Modulators of the Marine Bacterial Community in a Mesocosm Experiment	**Clara Serrano Lorigados**, Polytechnic University of Catalonia, Spain	**2.05.A.T-03** Bubbly behaviours: physiological and behavioral responses of the sea urchin Arbacia lixula from a volcanic CO2 vent	**Ilaria D'Aniello**, University of Padova, Italy

Tuesday Platform Presentations Morning 1

	10:20	10:35
Auditorium 1	Kelly J Sheridan, Elliot Bland, Andy Booth, Susanne M Brander	
	4.09.T-04 There is much more than Fiber Release during Washing: a Life Cycle-based View on Particle and Fiber Release from Polyester Textiles	**Bernd Nowack**, Empa - Swiss Federal Laboratories for Material Science and Technology, Switzerland	**4.09.T-05** Poster spotlight: 4.09.P-Tu400, 4.09.P-Tu401, 4.09.P-Tu405
Auditorium 2	Nils Thonemann, Stefano Cucurachi, Heather Margaret Logan, Anne van den Oever	
	5.07.T-04 Dynamic-Prospective Life Cycle Assessment using Time-Explicit Life Cycle Inventory: Framework, Method and Case Study	**Amelie Müller**, Leiden University, Netherlands	**5.07.T-05** Strengths, Limitations, and Perspectives of coupling IAMs and LCA to study feasible and desirable societal pathways	**Anne de Bortoli**, Montreal Polytechnic, Canada
Auditorium 3	**Behavioural Toxicology: Methodologies and Research Needs**	Miguel Oliveira, Alex Ford, Demetrio Raldua, Minna Saaristo	
	1.04.A.T-04 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	**1.04.A.T-05** Poster spotlight (A): 1.04.P-Tu001, 1.04.P-Tu002, 1.04.P-Tu012
Madrid ABC	Nicola Montemurro, Daniel Zahn, Gabriel Sigmund, Sandra Perez Solsona	
	3.04.C.T-04 Spatial Distributions, Seasonality, and Ecological Risk Assessment of UV Absorbents in the Habitat of Endangered St. Lawrence Estuary Beluga in Canada	**Amina Ben Chaaben**, University of Quebec at Rimouski (UQAR), Canada	**3.04.C.T-05** Poster spotlight (C): 3.04.P-Th154, 3.04.P-Th155, 3.04.P-Th156
Madrid DEF	★ **A Snapshot on Weapons and Military Chemicals in the Environment - Present Issues and Legacies from the Past**	Matteo Guidotti	
	8.01.T-03 Panel Discussion		**8.01.T-04** Concluding Remarks	
Bruselas	**Latest Science on PMT/vPvM Substances and on Bioavailability in Times of the Pollution Crisis**	Michael Neumann, Hans Peter Arp, John Parsons, Jose Julio Ortega-Calvo	
	3.13.T-04 Lowering bioavailability with carbonaceous materials: from science to large-scale applications	**Gerard Cornelissen**, Norwegian Geotechnical Institute (NGI), Norway	**3.13.T-05** Translating bioavailability science into practice through technology development and regulatory innovation in the USA	**Upal Ghosh**, University of Maryland, Baltimore County, USA
Paris	Claudia Vaj, Steven Droge, Daniel Brice Kenko Nkontcheu	
	4.11.T-04 Modelling the Reduction Effect of Spot Applications on Pesticide Runoff Losses from Fields with a PRZM-VFSMOD Coupling and a 2D Probabilistic Framework	**Rafael Muñoz-Carpena**, University of Florida, USA	**4.11.T-05** Poster spotlight: 4.11.P-Tu413, 4.11.P-Tu425, 4.11.P-Tu440
Al Andalus (Fibes 1)	**Unravelling the Complexities of PFAS: From Environment to Human Health and Reproduction**	Francesco Dondero, Menghang Xia, Shuo Xiao, Tommaso Serchi	
	1.14.T-04 Integrating Experimental and Computational Approaches to Unravel the Toxicity of 33 PFAS Congeners in Human Cell Lines	**Francesco Dondero**, Università del Piemonte Orientale, Italy	**1.14.T-05** Characterization of Replacement PFAS, Perfluoroethylcyclohexane Sulphonate (PFECHS) and Perfluorobutane Sulphamide (FBSA) in vitro Individually and in Mixture with PFOS	**Hannah Mahoney**, University of Saskatchewan, Canada
Italica (Fibes 1)	Liza-Marie Beckers, Iris Pit, Pedro A. Inostroza, Magali Solé	
	2.04.A.T-04 Micro-pollutant Biotransformation in Field-collected Fish: Implications for Species-specific Sensitivity to Chemical Pollution	**Marco Franco**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**2.04.A.T-05** Poster spotlight (A): 2.04.P-Tu075, 2.04.P-Tu076, 2.04.P-Tu077
Ronda (Fibes 1)	**Marine Ecotoxicology: Impacts and Possible Solutions, From Coastal to Deep-Sea Ecosystems**	Marco Munari, Marinella Farre, Davide Asnicar, Daniela Maria Pampanin	
	2.05.A.T-04 Effects of Ocean Acidification on two calcifying species from the CO2 vent systems of Ischia Island: Mytilus galloprovincialis vs Patella caerulea	**Silvia Signorini**, Stazione Zoologica Anton Dohrn, University of Milan, Italy	**2.05.A.T-05** Effects of Long Exposure to Different Heatwaves in 2 Reef-forming Species through a Comparison of a Multi-biomarker Approach	**Verdiana Vellani**, CoNISMa - Consorzio Interuniversitario per le Scienze del Mare, University of Trieste, Italy

COFFEE & POSTER BREAK

Tuesday Platform Presentations Morning 2

	11:40	11:55	12:10
Auditorium 1	**Direct and Indirect Impacts of (Nano- And Micro-)Plastics in Terrestrial Ecosystems: Current Status and Future Trends** | Denise M Mitrano, Elma Lahive, Geert Cornelis		
	3.10.T-01 Towards an Improved Fate Assessment of Microplastics: Inclusion of Specific Analyses and Abiotic Degradation in Regulatory Tests | **Eva-Maria Teggers**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, RWTH Aachen University, Institute for Environmental Research, INVITE GmbH, Germany	**3.10.T-02** Photolysis on Soil Surface Makes Persistent Microplastic Biodegradable | **Eva-Maria Teggers**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, RWTH Aachen University, Institute for Environmental Research, INVITE GmbH, Germany	**3.10.T-03** A Two-Year Incubation Study: Investigating the Vertical Transport of Microplastics in Soil and its Impact on Soil Pore Development | **Roman Schefer**, ETH Zürich, Switzerland
Auditorium 2	**LCA in Policy, Decision-Making and Communication to Support the Transition Towards Sustainable Consumption | ...**		
	5.04.A.T-01 Environmental Footprint for product policy support: current status and challenges | **Susanna Andreasi Bassi**, European Commission, Joint Research Center, Italy	**5.04.A.T-02** The Green Deal's New Call for Greenhouse Gas Data: A Daunting Task or Déjà Vu? | **Julian Baehr**, Technical University Darmstadt, Germany	**5.04.A.T-03** Eco-labelling in France, time has come for implementation and scale up ! | **Vincent Colomb**, ADEME, France
Auditorium 3	**Behavioural Toxicology: Methodologies and Research Needs** | Miguel Oliveira, Alex Ford, Demetrio Raldua, Minna Saaristo		
	1.04.B.T-01 Environmental Concentrations of Tire Rubber-Derived 6PPD-Quinone Alter CNS Function in Zebrafish Larvae | **Demetrio Raldua**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain	**1.04.B.T-02** Comparative Assessment of the Behavioral Responses in Local Amphipod Species to Anthropogenic Stressors | **Laura Soose**, Goethe University Frankfurt, Germany	**1.04.B.T-03** Sensitive Behavioural Endpoints and Generational Effects in Daphnia magna Upon Acute and Chronic Toxicity Testing | **Vanessa Saalmann**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany
Madrid ABC	**Analysis, Assessment and Management of Contaminants of Emerging Concern and Their Transformation Products in the Environment | ...**		
	3.04.D.T-01 Contaminants of Emerging Concern in Urban Stormwater in the San Francisco Bay Area | **Diana Lin**, San Francisco Estuary Institute, USA	**3.04.D.T-02** Ecotoxicological risk assessment (ERA) of pesticides transformation products occurring in small waterbodies: case of ponds. | **Gaspard Conseil**, University of Lorraine (UL), France	**3.04.D.T-03** Grouping persistent and mobile substances based on persistent and mobile substructures to avoid regrettable substitution and prioritize assessments | **Hans Peter Arp**, Norwegian Geotechnical Institute (NGI), Norwegian University of Science and Technology (NTNU), Norway
Madrid DEF	**Legacy of War: Environmental Contamination, Ecotoxicity and Human Health Concerns of Explosives and Chemical Warfare Agents** | Guilherme R. Lotufo, Edmund Maser		
	4.07.T-01 Disposal of ammunition from World War One (1914 -1918) on the western front by Open-Burning. The fingerprint of 100-year old forgotten contaminations | **Daniel Hubé**, French Geological Survey (BRGM), France	**4.07.T-02** Monitoring environmental contamination from relic munitions in the Baltic Sea using lab-based methods and novel fieldable instrumentation | **Aaron Beck**, GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany	**4.07.T-03** Life-History Effects of Munition-Related Chemicals in the Copepod Nitocra spinipes: Single Chemicals and a Mixture | **João Barbosa**, Ghent University (UGent), Belgium
Bruselas	**New Perspectives and Developments in Chemical (Bio)Degradation and Persistence Assessment | ...**		
	3.17.T-01 Impacts of Sample Storage and Reference Compounds in the OECD 309 Surface Water Mineralisation Test | **Sigrid Hakvåg**, SINTEF Ocean, Norway	**3.17.T-02** Comprehensive and Non-target Persistence Testing of Chemicals Discharged from Offshore Oil Platforms | **Mette Moller**, Technical University of Denmark (DTU), Denmark	**3.17.T-03** Applicability of screening and simulation studies in polymer biodegradation assessments | **Kathleen McDonough**, P&G, USA
Paris	**Pollinator Risk Assessment in a Changing Landscape** | Stefan Kimmel, Andreas Duffner, Charlie Nicholson, Ivo Roessink		
	2.07.T-01 The Revised EFSA Bee Guidance (2023) One Year On: An Industry Stakeholder's Perspective and Recommendations | **Christof Schneider**, BASF SE, Germany	**2.07.T-02** A National Authorities View on the Revised EFSA Bee Guidance Document | **Jens Pistorius**, Julius Kühn Institute (JKI) - Federal Research Centre for Cultivated Plants, Germany	**2.07.T-03** Interpreting Acute Oral, Acute Contact, Glass Plate And Chronic Tests Within One Single Framework | **Jan Baas**, Wageningen Environmental Research (WUR), Netherlands
Al Andalus (Fibes 1)	**Science-Policy Dialogue on Per- And Polyfluoroalkyl Substances (PFASs) Towards a PFAS-Free Future: Latest Development and Future Needs | ...**		
	6.12.T-01 European Regulation of Per- and Polyfluoroalkyl Substances (PFASs) and its Connection to Research | **Jona Schulze**, German Environment Agency (UBA), Germany	**6.12.T-02** Database of Alternatives to Per- and Polyfluoroalkyl Substances Based on the Functional Substitution Approach | **Romain Figuière**, Stockholm University, Sweden	**6.12.T-03** The PFAS Analytic Tools: Using Geospatial Information to Promote Transparency in Understanding and Managing Risk from Per- and Poly-fluoroalkyl Substances in the United States | **Andrew Gillespie**, U.S. Environmental Protection Agency (US EPA), USA
Italica (Fibes 1)	**Bridging the Gap between Exposure, Ecotoxicology and Ecology – Identifying and Regulating the Impact of Chemical Pollution on Biodiversity | ...**		
	2.04.B.T-01 Synthetic Chemicals as a Cause of Biodiversity Loss | **Iris Pit**, Stockholm University, Sweden	**2.04.B.T-02** From Ecotoxicology to Ecology: Changes in Macroinvertebrate Communities Along a Toxicity Gradient | **Sebastian Heß**, Goethe University Frankfurt, Germany	**2.04.B.T-03** Pesticide Fate in Understudied Freshwater Vertebrates: the Case of a Threatened Terrapin (Emys orbicularis) in Several Wetland Regions of France | **Leslie-Anne Merleau**, Practical School of Advanced Studies (EPHE), France
Ronda (Fibes 1)	**Marine Ecotoxicology: Impacts and Possible Solutions, From Coastal to Deep-Sea Ecosystems** | Marco Munari, Marinella Farre, Davide Asnicar, Daniela Maria Pampanin		
	2.05.B.T-01 Structural effects of the protein corona formed on various nanoparticles using the coelomic fluid of the sea urchin Paracentrotus lividus | **Patrizia Romano**, University of Siena, Italy	**2.05.B.T-02** Emerging Stressors in Deep-Sea Environments: from Microplastics to Deep-Sea Mining | **Bárbara Pinheiro**, Faculty of Sciences of the University of Porto, Portugal	**2.05.B.T-03** Oxidative Damage Induced by Aquatic Contaminants in the Critically Endangered Brazilian Guitarfish: Comparison at Different Life Stages | **Mariana Martins**, Universidade Federal do Rio Grande (FURG), Brazil

Tuesday Platform Presentations Morning 2

	12:25	12:40
Auditorium 1	**Direct and Indirect Impacts of (Nano- And Micro-)Plastics in Terrestrial Ecosystems: Current Status and Future Trends** | Denise M Mitrano, Elma Lahive, Geert Cornelis	
	3.10.T-04 Microbial activity in field-plot experiment samples (Spain, Germany, and Finland) contaminated by conventional and biodegradable microplastics | **Klára Šmídová**, RECETOX, Masaryk University, Czech Republic	**3.10.T-05** Transfer of Nanoplastics into Subsequent Plant Generations | **Dokyung Kim**, Konkuk University, South Korea
Auditorium 2	| Susanna Andreasi Bassi, Michele De Rosa, Paula Pérez-Lopez, Timen Mattheüs Boeve	
	5.04.A.T-04 Harmonization of LCA methods, rules and guides across sector boundaries: A shared responsibility of science and industry. | **Martin Baitz**, Sphera Solutions GmbH, Germany	**5.04.A.T-05** Combined Assessment of Absolute Sustainability Performance and Life Cycle Damage of Global Consumption | **Olivier Jolliet**, Technical University of Denmark (DTU), Denmark
Auditorium 3	**Behavioural Toxicology: Methodologies and Research Needs** | Miguel Oliveira, Alex Ford, Demetrio Raldua, Minna Saaristo	
	1.04.B.T-04 A method for assessing thermal preference and locomotion of a soil arthropod, Folsomia candida and its application in ecotoxicology | **Jian Ge**, Aarhus University, Denmark	**1.04.B.T-05** Poster spotlight (B): 1.04.P-Tu003, 1.04.P-Tu004, 1.04.P-Tu005
Madrid ABC	| Nicola Montemurro, Daniel Zahn, Gabriel Sigmund, Sandra Perez Solsona	
	3.04.D.T-04 Cigarette Butts as a Source of Organic Pollutants | **Pavla Fojtíková**, University of South Bohemia Ceske Budejovice, Czech Republic	**3.04.D.T-05** Poster spotlight (D): 3.04.P-Th157, 3.04.P-Th158, 3.04.P-Th159
Madrid DEF	**Legacy of War: Environmental Contamination, Ecotoxicity and Human Health Concerns of Explosives and Chemical Warfare Agents** | Guilherme R. Lotufo, Edmund Maser	
	4.07.T-04 How Contaminated is our Fish with Munition Chemicals from World War Relics | **Edmund Maser**, Institute of Toxicology and Pharmacology for Natural Scientists, University Medical School Schleswig-Holstein, Germany	**4.07.T-05** Poster spotlight: 4.07.P-Tu386, 4.07.P-Tu387, 4.07.P-Tu388
Bruselas	| Christopher Hughes, Amelie Ott, Aina Charlotte Charlotte Wennberg, Anu Kapanen	
	3.17.T-04 Persistence assessment in the regulatory assessment and management of chemicals | **Marta Sobanska**, European Chemicals Agency (ECHA), Finland	**3.17.T-05** Poster spotlight: 3.17.P-Tu280, 3.17.P-Tu281, 3.17.P-Tu282
Paris	**Pollinator Risk Assessment in a Changing Landscape** | Stefan Kimmel, Andreas Duffner, Charlie Nicholson, Ivo Roessink	
	2.07.T-04 Pesticide use negatively affects bumble bees across European landscapes | **Charlie Nicholson**, Lund University, Sweden	**2.07.T-05** Ecological Effect Models for Bee Risk Assessments | **Amelie Schmolke**, RIFCON GmbH, Germany
Al Andalus (Fibes 1)	| Ian Cousins, Zhanyun Wang, Jordi Dachs	
	6.12.T-04 Per- and polyfluoroalkyl substance (PFAS) immobilization approaches with regenerated waste products in large scale unsaturated lysimeters | **Michel Hubert**, Norwegian University of Science and Technology (NTNU), Norwegian Geotechnical Institute (NGI), Norway	**6.12.T-05** Insights Into the Atmospheric Sources and Fate of (Ultra-) Short-Chain Perfluoroalkyl Carboxylic Acids from New High Time Resolution Measurements | **Cora Young**, York University, Canada
Italica (Fibes 1)	| Liza-Marie Beckers, Magali Solé, Iris Pit, Carsten A. Brühl	
	2.04.B.T-04 Effect of Pesticides on Soil Microbial Networks of Variable Trophic Diversity | **Marta Pérez-Villanueva**, HYDREKA, Helmholtz Centre for Environmental Research (UFZ), France, Germany	**2.04.B.T-05** Poster spotlight (B): 2.04.P-Tu079, 2.04.P-Tu080, 2.04.P-Tu091
Ronda (Fibes 1)	**Marine Ecotoxicology: Impacts and Possible Solutions, From Coastal to Deep-Sea Ecosystems** | Marco Munari, Marinella Farre, Davide Asnicar, Daniela Maria Pampanin	
	2.05.B.T-04 Bioaccumulation and Dietary Bioaccessibility of Microplastics and Co-contaminants in Mediterranean Mussels | **Marinella Farre**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain	**2.05.B.T-05** Beyond the Surface: Investigating UV-Filter Presence and Biomagnification in Three NE Atlantic Pelagic Species | **Eva Iñiguez Santamaría**, University of Madeira, Portugal

LUNCH & POSTER BREAK

Tuesday Platform Presentations Afternoon

	14:30	14:45	15:00
Auditorium 1	**The Fate and Effects of Micro- And Nano-Plastics in Relation to Ecosystems** | Carlos Edo, Francisca Fernández-Piñas, Miguel Oliveira, Gerardo Pulido-Reyes		
	3.22.T-01 Systematic comparison of environmental stresses (shear, humidity, UV, pH, temperature, enzymes) on microplastic fragmentation and release of nanoplastics and dissolved organics. | **Wendel Wohlleben**, BASF SE, Germany	**3.22.T-02** Impact of Microplastics and Additives in Marine Ecosystems | **Tania Gomes**, Norwegian Institute for Water Research (NIVA), Norway	**3.22.T-03** Microplastics-Induced Multigenerational Gut Microbial Changes in Daphnia magna: A Matter of Plastics or Particles? | **Christoph Schuer**, Swiss Federal Institute of Aquatic Science and Technology, Switzerland
Auditorium 2	**LCA in Policy, Decision-Making and Communication to Support the Transition Towards Sustainable Consumption | ...**		
	5.04.B.T-01 Assessing Environmental Impact Reduction Potential for Blue Ammonia: Navigating Complexities in Carbon Capture and Utilization Modelling | **Mutaz Chahrour**, Research Center Jülich, Germany	**5.04.B.T-02** Sustainable Transition to a Circular Economy: Modelling Environmental and Socio-Economic Impacts of Regional and National Waste Management Systems in Europe | **Josefine Sund**, Technical University of Denmark (DTU), Denmark	**5.04.B.T-03** Supporting decision-making on municipal utility fleets decarbonization considering inventories and impact assessment dynamics | **Susie Wu**, CIRAIG, UQAM, Canada
Auditorium 3	**The Endocrine Disrupting Properties of Challenging Substances: How to Solve Testing and Interpretation Issues? | ...**		
	1.13.T-01 How to screen UVCBs endocrine activities using OECD guidelines: a case study with essential oils | **Barbara Duchesne**, Laboratoire Watchfrog, France	**1.13.T-02** Assessing the endocrine disruptor potential of hydrocarbon UVCBs | **Rebecca Brown**, wca environment Ltd., United Kingdom	**1.13.T-03** How to Effectively Assess the Endocrine Disruption Potential of Metals Under the EU CLP Regulation? | **Chloe Eastabrook**, Enviresearch, United Kingdom
Madrid ABC	**Analytical Developments and Challenges in Detection and Monitoring of the Growing Universe of Per- And Polyfluoroalkyl Substances (PFAS) | ...**		
	3.05.T-01 Unravelling the Combination of Atmospheric Pressure Ionization Sources to Extend the PFAS Coverage | **Juan Ayala Cabrera**, Research Centre for Experimental Marine Biology and Biotechnology (PiE-UPV/EHU), University of the Basque Country (UPV/EHU), Spain	**3.05.T-02** Quantitative Assessment of Poly- and Perfluoroalkyl Substances (PFASs) in Aqueous Film Forming Foam (AFFF) Impacted Soils: A Comparison of Analytical Methodologies | **Christopher Higgins**, Colorado School of Mines, USA	**3.05.T-03** Analysis of Per- and Polyfluoroalkyl Substances (PFASs) in Consumer Food Packaging by Different Analytical Approaches | **Yelena Sapozhnikova**, U.S. Department of Agriculture, USA
Madrid DEF	**Statistics for Ecotoxicology and Environmental Fate – From Tried and Tested over New and Exciting Methods to Machine Learning | ...**		
	4.12.T-01 The Lack of Comparability in Machine Learning Studies for Environmental Hazard Assessment | **Marco Baity-Jesi**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**4.12.T-02** Under What Circumstances Is CPCAT Suitable for Field Data? | **Lijuan Yan**, BASF Services Europe GmbH, Germany	**4.12.T-03** BMD estimation using model averaging for Avian Reproduction Studies | **Xiaoyi Sopko**, Corteva Agriscience, USA
Bruselas	**Chemical Fate in the Soil-Plant System and Evaluation of Related Impacts and Risks** | Arno Rein, Marc Lamshöft, Michael Hess		
	3.08.T-01 Soil sorption and plant uptake of five antibiotics by spinach (Spinacia oleracea) and radish (Raphanus sativus) | **Thomas Bucheli**, Agroscope, Switzerland	**3.08.T-02** Evaluating the Translocation of PPCPs into Zea mays Following Wastewater Reuse – A Model validation via an Israeli Scenario | **John Nightingale**, University of Leeds and Fera Science Ltd, United Kingdom	**3.08.T-03** Comprehensive approach to model pesticide residues in plants | **Klaus Hammel**, Bayer AG - Crop Science Division, Germany
Paris	**Advancing Risk Assessment of Anthropogenic Stressors to Non-Target-Arthropods and Ecosystem Functions in a Changing World | ...**		
	2.01.T-01 Key Steps and Development for the Revision of the Guidance Document on Non-target Arthropods | **Fernando Alvarez**, European Food Safety Authority (EFSA), Italy	**2.01.T-02** Assessing Non-target Terrestrial Arthropods in European Agriculture: A Comprehensive Study on Pest Control Ecosystem Service | **Grzegorz Sowa**, University of Sheffield, United Kingdom	**2.01.T-03** Off-Crop Non-Target Terrestrial Organism Drift Exposure and Risk for Plant Protection Products: Processes, Procedures and Practical Proposals | **Neil Mackay**, FMC Corporation, United Kingdom
Al Andalus (Fibes 1)	★ **Regulatory Needs for Scientific Development** | Wim De Coen, Blanca Serrano, Christoph Schaefers		
	14:30	**14:40**	**14:50**
	8.06.T-01 Bridging the gap between science and regulatory science in the EU: Regulatory perspective | **Wim De Coen**, ECHA, Finland	**8.06.T-02** Bridging the gap between science and regulatory science in the EU: Academia perspective | **Christoph Schaefers**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany	**8.06.T-03** Bridging the gap between science and regulatory science in the EU: Industry perspective | **Blanca Serrano**, ECETOC, Belgium
Italica (Fibes 1)	**Bridging the Gap between Exposure, Ecotoxicology and Ecology – Identifying and Regulating the Impact of Chemical Pollution on Biodiversity | ...**		
	2.04.C.T-01 Impacts of antimicrobial stressors on bottom-up regulation in aquatic macroinvertebrate food webs | **Frederik Meyer**, University of Kaiserslautern-Landau (RPTU), Germany	**2.04.C.T-02** Beyond the Crop: Assessing Insecticide Deposition and Ecological Risks for Non-target Arthropods in Flower Strips | **Michael Peter Meissle**, Agroscope, Switzerland	**2.04.C.T-03** Indirect Effects of Pesticide Use on Farmland Birds: Lessons from 50 Years of Monitoring, with a Way Forward. | **Julie Ewald**, Game & Wildlife Conservation Trust (GWCT), United Kingdom
Ronda (Fibes 1)	★ **Beyond the Conventional Ecotox Endpoints - Advances to Unravel Low, Chronic Exposure Risks** | Henriette Selck, David Spurgeon, Roman Ashauer		
	14:30	**14:45**	**15:00**
	8.03.T-01 How to implement non-conventional endpoints in experimental ecotoxicology | **Nico van den Brink**, Wageningen University & Research, Netherlands	**8.03.T-02** When are non-conventional endpoints relevant for population modelling and how to implement them in modelling | **Nika Galic**, Syngenta AG, Switzerland	**8.03.T-03** Behavioral consequences in wildlife birds, through telomere shortening due to chronic exposure to urban pollution | **Matteo Schiavinato**, University of Padova, Italy

Tuesday Platform Presentations Afternoon

	15:15	15:30
Auditorium 1	**The Fate and Effects of Micro- And Nano-Plastics in Relation to Ecosystems** | Carlos Edo, Francisca Fernández-Piñas, Miguel Oliveira, Gerardo Pulido-Reyes	
	3.22.T-04 Swimming in plastics: How nanoplastics disrupt larval fish neurobehavioral and molecular rhythms? | **Xiaoyu Duan**, University of Southern Denmark (SDU), Denmark	**3.22.T-05** Poster spotlight: 3.22.P-Tu379, 3.22.P-Tu380, 3.22.P-Tu381
Auditorium 2	| Susanna Andreasi Bassi, Michele De Rosa, Paula Pérez-Lopez, Timen Mattheüs Boeve	
	5.04.B.T-04 Consequential Life Cycle Assessment of Fuels for Shipping | **Megan Roux**, Technical University of Denmark (DTU), Denmark	**5.04.B.T-05** Lessons Learned From a Practitioner-Driven Project on the Sustainability Assessment of Regional Products | **Barbara Madeleine Mejía**, Agroscope, Switzerland
Auditorium 3	| Stijn Baken, Christopher Prosser, Rebecca Jayne Brown, Zhichao Dang	
	1.13.T-04 The Challenges of Distinguishing Non-Endocrine from Suspected Endocrine Responses: The Precautionary Tale of Copper | **Douglas Fort**, Fort Environmental Laboratories, Inc., USA	**1.13.T-05** Population Relevance of Endocrine-Mediated Effects of Pesticide and Biocide Substances – A Way Forward | **Alice Tagliati**, Enviresearch Ltd., United Kingdom
Madrid ABC	| Lara Cioni, Melanie Lauria, Mohammad Sadia, Dorte Herzke	
	3.05.T-04 Characterization of Fluoropolymers for Residual PFAS: Implications for Munitions, Thermal Degradation, and Human Exposure | **Mitchell Kim-Fu**, Oregon State University, USA	**3.05.T-05** Poster spotlight: 3.05.P-Th217, 3.05.P-Th218, 3.05.P-Th219
Madrid DEF	| Christoph Schuer, Sandrine Charles, Mascha Nadine Rubach, Pernille Thorbek	
	4.12.T-04 Mother-to-Egg Transfer of Chemicals in Reptiles Using Orthogonal Regression to Account for Uncertainty in Observations | **Sandrine Charles**, University Claude Bernard Lyon 1, France	**4.12.T-05** Poster spotlight: 4.12.P-Tu442, 4.12.P-Tu443, 4.12.P-Tu456
Bruselas	**Chemical Fate in the Soil-Plant System and Evaluation of Related Impacts and Risks** | Arno Rein, Marc Lamshöft, Michael Hess	
	3.08.T-04 Positive Impacts of Doxycycline on Mycorrhizal Structure and Function in the Agro-Environment | **Emily Durant**, University of Sheffield, United Kingdom	**3.08.T-05** Assessing the potential risks of organic lettuce cultivated in an area irrigated with reclaimed water | **Rocío Bonansea**, Water, Environmental and Food Chemistry Unit (ENFOCHEM), Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain
Paris	| Ivo Roessink, Grzegorz Sylwester Sowa, Domenica Auteri, Stefan Kimmel	
	2.01.T-04 Integrating Multiple Exposure Routes for Assessing Pesticide Impact on Terrestrial Non-Target Arthropods | **Anna Huang**, Wageningen Environmental Research (WUR), Netherlands	**2.01.T-05** Development of Ecotoxicological Testing Methods on Herbivorous Larvae of Locusta Migratoria and Spodoptera littoralis under Laboratory Conditions | **Lena Böhrs**, Eurofins Agroscience Services Ecotox GmbH, Germany
Al Andalus (Fibes 1)	★ **Regulatory Needs for Scientific Development** | Wim De Coen, Blanca Serrano, Christoph Schaefers	
	15:00	**15:40**
	8.06.T-04 Panel Discussion	**8.06.T-05** Concluding Remarks
Italica (Fibes 1)	| Magali Solé, Thomas Backhaus, Carsten A. Brühl, Liza-Marie Beckers	
	2.04.C.T-04 Assessing In-Field Pesticide Effects Under European Regulation and Implications for Biodiversity | **Stephan Brendel**, German Environment Agency (UBA), Germany	**2.04.C.T-05** Consideration of Environmental Risk Assessment for the protection of biodiversity under the EU Pesticides Regulation (EC) No. 1107/2009 | **Rachel Sharp**, European Food Safety Authority (EFSA), Italy
Ronda (Fibes 1)	★ **Beyond the Conventional Ecotox Endpoints - Advances to Unravel Low, Chronic Exposure Risks** | Henriette Selck, David Spurgeon, Roman Ashauer	
	15:05	**15:10** / **15:15** / **15:30**
	8.03.T-04 Multigenerational long-term exposure to low concentrations of pharmaceuticals in an estuarine deposit-feeding polychaete | **Martina Santobuono**, Roskilde University, Denmark	**8.03.T-05** Modelling pharmaceutical exposure and effects using a novel DEB organism | **Jacqueline Hilgendorf**, University of Aveiro, Portugal / **8.03.T-06** New Approach Methodologies for the identification of environmental hazard and risk drivers | **Jose Tarazona**, Instituto de Salud Carlos III, Spain / **8.03.T-07** Panel Discussion

COFFEE & POSTER BREAK

Schedule

Setup	9:00–9:30
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	18:15–18:45
Poster Corners	16:00–16:45

Late-Breaking Science Posters

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

Poster Corners

Behavioural Toxicology: Methodologies and Research Needs | Miguel Oliveira, Alex Ford, Demetrio Raldua, Minna Saaristo

Poster Corner 1 (Floor 1)

1.04.P-Tu006, 1.04.P-Tu007, 1.04.P-Tu008, 1.04.P-Tu009, 1.04.P-Tu010, 1.04.P-Tu017

Unravelling the Complexities of PFAS: From Environment to Human Health and Reproduction | Francesco Dondero, Menghang Xia, Shuo Xiao, Tommaso Serchi

Poster Corner 2 (Floor 1)

1.14.P-Tu052, 1.14.P-Tu056, 1.14.P-Tu061, 1.14.P-Tu062

Bridging the Gap between Exposure, Ecotoxicology and Ecology - Identifying and Regulating the Impact of Chemical Pollution on Biodiversity | Liza-Marie Beckers, Iris Pit, Magali Solé

Poster Corner 3 (Floor 1)

2.04.P-Tu082, 2.04.P-Tu083, 2.04.P-Tu084, 2.04.P-Tu085, 2.04.P-Tu088

Ionizable Organic Chemicals - Improving Risk Assessment Accuracy | Steven Droge, Andrew Ross Brown, Fabian Gerhard Peter Balk, Fabian Fischer

Poster Corner 4 (Floor 1)

3.12.P-Tu246, 3.12.P-Tu247, 3.12.P-Tu248, 3.12.P-Tu249, 3.12.P-Tu250, 3.12.P-Tu251

The Fate and Effects of Micro- And Nano-Plastics in Relation to Ecosystems | Carlos Edo, Francisca Fernández-Piñas, Miguel Oliveira, Gerardo Pulido-Reyes

Poster Corner 5 (Floor 1)

3.22.P-Tu324, 3.22.P-Tu328, 3.22.P-Tu329, 3.22.P-Tu339, 3.22.P-Tu365, 3.22.P-Tu378

Water-Related Problems in the Mediterranean Ecoregion and Their Environmental, Health and Social Impacts | Stefania Marcheggiani, Lorenzo Proia, Dennis Sarigiannis

Poster Corner 6 (Floor 3)

4.15.P-Tu461, 4.15.P-Tu462, 4.15.P-Tu463, 4.15.P-Tu464, 4.15.P-Tu465, 4.15.P-Tu466

LCA in Policy, Decision-Making and Communication to Support the Transition Towards Sustainable Consumption | Susanna Andreasi Bassi, Michele De Rosa, Paula Pérez-Lopez, Timen Mattheüs Boeve

Poster Corner 7 (Floor 3)

5.04.P-Tu475, 5.04.P-Tu476, 5.04.P-Tu478, 5.04.P-Tu481, 5.04.P-Tu493, 5.04.P-Tu495

One Health Approach: PFAS Exposure in Wildlife and Shared Health Risks Across Species Including Humans | Alexis Temkin, Scott Belcher, Patricia Fair, Dorte Herzke

Poster Corner 8 (Floor 3)

7.03.P-Tu538, 7.03.P-Tu539, 7.03.P-Tu540, 7.03.P-Tu541, 7.03.P-Tu542, 7.03.P-Tu544

Poster Sessions

POSTER AREA 1

Behavioural Toxicology: Methodologies and Research Needs | Miguel Oliveira, Alex Ford, Demetrio Raldua, Minna Saaristo

1.04.P-Tu001 Behavioral consequences through telomere shortening in wildlife birds living in a chronic exposure of urban pollution | **Matteo Schiavinato**, Wageningen University & Research (WUR), Netherlands

1.04.P-Tu002 Exploring the Effects of Two Surface Coatings on Titanium Dioxide Nanoparticles in "Danio rerio" Embryos | **Mário Araújo**, University of Porto, Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), Portugal

1.04.P-Tu003 Is Disrupted Reproductive Behaviour Population-Relevant? | **Charles Hazlerigg**, Envirosearch Ltd., United Kingdom

1.04.P-Tu004 A Multifactorial Environmental Stressors Approach: Chironomus riparius Exposed to Sulfoxaflor with Presence of Predator Cues and Increased Temperature | **Sofie Rasmussen**, Leiden University, Netherlands

1.04.P-Tu005 Effects of Chemical Stresses on the Freshwater Mussel Dreissena polymorpha's Crawling Behaviour | **Nicolas Berthelot**, University of Reims Champagne-Ardenne (URCA), France

1.04.P-Tu006 Chronic Exposure of Environmentally Relevant Concentration of Tire Derived Chemical Causes Anxiety-like Behavior and Memory Deficits in Adult Zebrafish | **Hohyun Jin**, Seoul National University of Science and Technology, Korea, Republic of (South)

1.04.P-Tu007 From behaviour to gene transcription. Unraveling the molecular mechanisms that regulate diel vertical migration in th zooplanktonic Daphnia magna | **Carlos Barata**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.04.P-Tu008 Impacts of a Psychoactive Pollutant on Interactions Between Native and Invasive Freshwater Fish | **Raiko Rafeeq**, Monash University, Australia

1.04.P-Tu009 Cardiac and Neurobehavioral Impairments in Three Phylogenetically Distant Aquatic Model Organisms Exposed to Environmentally Relevant Concentrations of Boscalid | **Juliette Bedrossiantz**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.04.P-Tu010 The C.elegans as a Reliable Tool in Neuro-Behavioural Toxicology: Case study of Diesel Exhaust Particles | **Nivedita Chatterjee**, International Iberian Nanotechnology Laboratory, Portugal

1.04.P-Tu011 Neurotoxicity evaluation of β-citronellol, a major component of air freshener, in adult zebrafish | **Soyeon Park**, Seoul National University of Science and Technology, Korea, Republic of

1.04.P-Tu012 Effects of Acute 6PPD-Quinone Exposure on Swimming Performance and Aerobic Metabolism in Juvenile Lake Trout (Salvelinus namaycush) | **Summer Selinger**, University of Saskatchewan, Canada

1.04.P-Tu013 Frontiers in Quantifying Wildlife Behavioural Responses to Chemical Pollution | **Michael Bertram**, Swedish University of Agricultural Sciences (SLU), Sweden

1.04.P-Tu014 Evaluation of ecological toxicity for remediated soils contaminated with heavy metal using earthworm: Study on mechanism of toxicity manifestatio | **Woo-chun Lee**, Hosung Inc., Korea, Republic of (South)

1.04.P-Tu015 Toxicokinetic and behavioral effects of environmentally realistic microplastics | **Andrew Barrick**, Auburn University, USA

1.04.P-Tu016 Interactions between chronic pollution and behavioural variability within and among individuals of aquatic invertebrates. | **Harmony Lautrette-Quinveros**, Lund University, Sweden

1.04.P-Tu017 Assessing the Behavioural Sensitivity of Gammaridae to Pesticides and Pharmaceuticals | **Paul van den Brink**, Wageningen University & Research, Netherlands

1.04.P-Tu018 Review: Opportunities and Limitations of Invertebrate Behaviour as Relevant Endpoint in Ecotoxicological Testing | **Vanessa Saalmann**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

1.04.P-Tu019 Chronic exposure of environmentally relevant concentrations of the SSRI sertraline impact feeding and behaviour in the freshwater worm Tubifex tubifex | **Wing Sze Chan**, Roskilde University (RUC), Denmark

1.04.P-Tu020 Effects Of Copper And Cadmium, Isolated And In Mixture, On The Behavior Of The Copepod Eurytemora Affinis | **Giseli Rocha**, Le Havre Normandy University (ULHN), Universitat Rovira i Virgili, Escola de Engenharia de São Carlos - USP, France, Spain, Brazil

1.04.P-Tu021 Drugs in a Noisy World: A Dangerous Combination | **Michael Barry**, Sultan Qaboos University, Oman

1.04.P-Tu022 Heat Stress Makes Antibiotics More Dangerous to Zebrafish | **Asma Al Shuraiqi**, Sultan Qaboos University, Oman

1.04.P-Tu023 Neurotoxicity Assessment in Adult Danio rerio using a Battery of Behavioral Tests in a Single Tank | **Juliette Bedrossiantz**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.04.P-Tu024 Analysis of sleep/wake cycles in zebrafish larvae | **Juliette Bedrossiantz**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.04.P-Tu025 Chronic Exposure of Bis(2-ethylhexyl) Phthalate Accelerates the Development of Depression Caused by Chronic Stress | **Jae Soon Kang**, Gyeongsang National University, Korea, Republic of

1.04.P-Tu026 Studying behavior and physiological stress in fish: a case study on the effect of artificial light at night on cortisol excretion and accumulation of thinlip mullet (Chelon ramada) | **Caroline Roux**, INRAE EABX, France

1.04.P-Tu027 Larval White Sturgeon Behavior Affected by Copper | **Holly Puglis**, U.S. Geological Survey, USA

1.04.P-Tu028 Low Doses of Antidepressants Impair the Visual Motor Response Behavior of Zebrafish (Danio rerio) Embryos – a Red Flag for Developmental Neurotoxicity | **Maria Fischer**, University of Heidelberg, Germany

1.04.P-Tu029 Testing if and how municipal wastewater effluent affects fish habitat choice in the wild | **Erin McCallum**, Swedish University of Agricultural Sciences, Sweden

1.04.P-Tu030 Zebrafish embryos as model for behavioral toxicology assessment of pharmaceuticals | **Anna Navarro-Cuenca**, ZECLINICS, S.L., Spain

1.04.P-Tu031 The antidepressant paroxetine reduces intraspecific behavioural variance in zebrafish | **Miguel Oliveira**, University of Aveiro & CESAM, Portugal

1.04.P-Tu032 Understanding Anxiety Behavior in Developing Zebrafish (Danio rerio) Exposed to Environmental Toxicants | **Bianca Dechent**, Goethe University Frankfurt, Germany

1.04.P-Tu033 Short-Term Exposure to Median Avoidance Concentration of Chloropyrifos Induces Behavioral and Physiological Consequences in Poecilia gillii fish | **Diwö Huc-Bouge**, Universidad de Costa Rica, Costa Rica

1.04.P-Tu034 Development of a High Throughput Thigmotaxis Assay to evaluate Neurotoxicity in Zebrafish Embryos | **Monica Torres-Ruiz**, National Centre for Environmental Health, Instituto de Salud Carlos III, Spain

The Endocrine Disrupting Properties of Challenging Substances: How to Solve Testing and Interpretation Issues? | Stijn Baken, Christopher Prosser, Rebecca Jayne Brown, Zhichao Dang

1.13.P-Tu035 Endocrine Disruptors – Hazard Classification Under CLP And New Challenges With Aquatic Tests | **Adam Jonas**, Regartis, Czech Republic

1.13.P-Tu036 Endocrine Disrupting Assessment for industrial chemicals, biocides and plant protection products in the EU – Summary, challenges and improving points | **Lydia Bouwman**, Triskelion, Netherlands

1.13.P-Tu037 Challenges and Recommendations in Assessing Potential Endocrine Disrupting Properties of Metals in Aquatic Organisms | **Kevin Brix**, University of Miami - RSMAES, EcoTox LLC, USA

1.13.P-Tu038 Experiences in developing the Amphibian Metamorphosis Assay for regulatory testing – a CRO perspective. | **Severine Larroze**, Scymaris Ltd, United Kingdom

1.13.P-Tu039 Lessons learned running a Zebrafish Extended One Generation Reproduction Test as part of a validation exercise | **Richard Maunder**, Scymaris Ltd, United Kingdom

1.13.P-Tu040 Control Performance of Medaka Extended One Generation Test Designs | **Natalie Burden**, NC3Rs, United Kingdom

1.13.P-Tu041 Optimising Concentration Setting for In Vivo Endocrine Screening Assays with Aquatic Vertebrates | **Natalie Burden**, NC3Rs, United Kingdom

1.13.P-Tu042 Monitoring endocrine disrupting chemicals (EDCs) in wastewater using bioassays: a proof-of-concept from Quebec, Canada | **Valerie Langlois**, Institut national de la recherche scientifique (INRS), Canada

1.13.P-Tu043 AnthroDrugs-EDC: Personalized Endocrine Disrupting Chemical (EDC) Toxicology through Population Genetics | **Simon Perera del Rosario**, Institut de Biologia Evolutiva (UPF-CSIC), ProtoQSAR, Spain

1.13.P-Tu044 The Endocrine Disruption Potential of Isoeugenol and Altrenogest in Daphnia magna | **Madalena Vieira**, University of Aveiro (UA), Portugal

1.13.P-Tu045 Endocrine Activity of Bisphenol A and Eleven Structural Analogues | **Natalie Reininger**, Goethe University Frankfurt, Germany

1.13.P-Tu046 Urinary Concentrations of Bisphenols in Young Women from Southeastern Spain: An Exploratory Study. | **Antonio Juan Garcia-Fernandez**, Universidad de Murcia-IMIB, Spain

1.13.P-Tu047 The endocrine disrupting potential of selective serotonin reuptake inhibitors | **Patricia Pinto**, CCMAR – Centre of Marine Sciences, University of Algarve, Portugal

1.13.P-Tu048 In Silico Profiling of Triclosan and its Metabolites as Reproductive Toxic Agents | **Maja Milanović**, University of Novi Sad, Faculty of Medicine, Serbia

1.13.P-Tu049 Endocrine Disrupting Potential of Beta-Blockers Exposure - Computational Study | **Maja Milanović**, University of Novi Sad, Faculty of Medicine, Serbia

Unravelling the Complexities of PFAS: From Environment to Human Health and Reproduction | Francesco Dondero, Menghang Xia, Shuo Xiao, Tommaso Serchi

1.14.P-Tu051 Predicting Peroxisome Proliferator-Activated Receptors-γ Cytotoxicity of Small Molecules: A Synergistic Consensus Model and Deep Learning Binding Affinity Approach powered by Enalos Cloud Platform Ma | **Iseult Lynch**, University of Birmingham, United Kingdom,

1.14.P-Tu052 Assessing Apical Toxicity and Sublethal Responses of Earthworms in PFAS-Contaminated Soils: A Comprehensive Study at a Fire Training Site in Sweden | **Davide Gualandris**, Università del Piemonte Orientale, Italy

1.14.P-Tu053 Investigating the impact of PFOA, Glyphosate and Cypermethrin on the gut microbiota in vitro | **Davide Rotondo**, Università del Piemonte Orientale, Italy

1.14.P-Tu054 Unraveling the Proteome Landscape of Perfluorooctane Sulfate Exposure During Pathogen-Associated Molecular Pattern Challenge in Peripheral Blood Mononuclear Cells | **Davide Rotondo**, Università del Piemonte Orientale, Italy

1.14.P-Tu055 Chronic effects of Perfluorooctane Sulfonic acid (PFOS) on Cloeon dipterum larvae development | **Ayesha Siddiqa**, Wageningen University & Research (WUR), Netherlands

1.14.P-Tu056 Significant Changes Induced By PFOA And GenX Environmental Concentrations In Guppy Testes Transcriptome And Reproductive Traits | **Marianna Pauletto**, University of Padua, Italy

1.14.P-Tu057 Assessment of Per and Polyfluorinated Alkyl Substances (PFASs) Residues in Urine samples of children | **Arianna Bautista**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.14.P-Tu058 Bioaccumulation and Ecotoxicity of Representative PFAS in Model Marine / Estuarine Species | **David Moore**, U.S. Army Engineer Research and Development Center, USA

1.14.P-Tu059 Bioaccumulation and Toxicity of Field-collected PFAS-impacted Sediment to Leptocheirus plumulosus and Chironomus dilutus | **Guilherme Lotufo**, U.S. Army Engineer Research and Development Center, USA

1.14.P-Tu060 Biomagnification Or Per/Polyfluoroalkyl Substances Through Mixture Uptake from Soil in a Terrestrial Food-Web | **Roman Kuperman**, U.S. Army DEVCOM Chemical Biological Center, USA

1.14.P-Tu061 The Transgenerational Adverse Effects Caused by GenX on Locomotive Behaviors in Caenorhabditis elegans | **Chia-Cheng Wei**, Institute of Food Safety and Health, College of Public Health, National Taiwan University, Taiwan

1.14.P-Tu062 Insight into the differential toxicity of PFOA and PFBA based on a 3D-cultured MDA-MB-231 cell model | **Huan Wang**, Tongji University, China

1.14.P-Tu063 Environmental Modeling Of Trifluoroacetic Acid (TFA) Originating From Hydrofluoro-Olefins | **Geert Boeije**, Honeywell, Belgium

Advancing Risk Assessment of Anthropogenic Stressors to Non-Target-Arthropods and Ecosystem Functions in a Changing World | Ivo Roessink, Grzegorz Sylwester Sowa, Domenica Auteri, Stefan Kimmel

2.01.P-Tu064 The Effects of Landscape Structure and Pesticides on the Populations of Non-Target Arthropods in Germany | **Urwa Alalouni**, German Environment Agency (UBA), Germany

2.01.P-Tu065 An approach to include more realism in the assessment of human impacts on species abundance and diversity | **Magnus Wang**, WSC Scientific GmbH, Germany

2.01.P-Tu066 Consideration of Sublethal Effects of Insecticidal Substances in Plant Protection Products or Genetically Modified Plants on Non-target Invertebrates | **Udo Hommen**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

2.01.P-Tu067 The Interspecies Sensitivity of Non-Target Terrestrial Arthropods (NTAs) for Pesticides: Species Vulnerability and Exposure Route | **Steven Droge**, Wageningen University & Research (WUR), Netherlands

2.01.P-Tu068 The Impacts of Nitrogen Dioxide Exposure on Insect Fitness | **Rachael Haw**, University of Sheffield, United Kingdom

2.01.P-Tu069 Episyrphus balteathus Adult Acute Overspray Toxicity Protocol | **Artur Sarmento**, University of Coimbra, Centre for Functional Ecology, Portugal

2.01.P-Tu070 Evaluation of the exposure to triazole fungicides in arthropods | **Paula Bolívar**, Castilla La Mancha University (UCLM), Spain

2.01.P-Tu071 A test design to assess the oral exposure of the herbivorous lepidopteran larvae Plutella xylostella to pesticides under controlled laboratory conditions – Pros and Cons and further challenges | **Daniela Jans**, Bayer AG - Crop Science Division, Germany

2.01.P-Tu072 Urban Gardens as Important Small-Scale Habitats for Insect Species – Connecting In Vitro and In Vivo Methods to Assess Effects of Chemical Pollution | **Johanna Bock**, Goethe University Frankfurt, Germany

2.01.P-Tu073 Ants as Model Organism to Evaluate the Ecological Risk of active plant protection substances? Lethal and Sublethal Effects of the Systemic Neonicotinoid Imidacloprid in Three Ant Species | **Marius Pohl**, University Münster, Germany, Germany

2.01.P-Tu074 Unveiling the Ecotoxicological Impacts of Realistic and Worst-Case Scenarios of Plant Protection Product Mixtures on the survival of Chironomus riparius | **Ana-Belen Muniz-Gonzalez**, UNED, Spain

Bridging the Gap between Exposure, Ecotoxicology and Ecology – Identifying and Regulating the Impact of Chemical Pollution on Biodiversity | Liza-Marie Beckers, Iris Pit, Magali Solé

2.04.P-Tu075 MeMo – Mesocosm Modelling – Building a bridge from higher tier data to ecosystem modeling | **Lukas Kruckenfellner**, MESOCOSM GmbH, Institut für Gewässerschutz, Justus Liebig University Giessen, Germany

2.04.P-Tu076 Predicting Bacterial Functional Responses From Water, Biofilm, and Sediments to Land Use-Derived Chemical Pollution at River Basin Level | **Pedro Inostroza**, RWTH Aachen University, University of Gothenburg, Germany, Sweden

2.04.P-Tu077 Multiple contaminants in complex communities: evaluating non-additive effects of multiple simultaneous stressors on biomass flux and ecosystem functioning | **Hana Mayall**, University of Sheffield, United Kingdom

2.04.P-Tu078 Evaluation of toxicological effects of fungicides used in vineyards agroecosystem using Apis mellifera as a model species | **Isabella Calattini**, University of Siena, Italy

2.04.P-Tu079 Differential Gene Expression of Freshwater Macroinvertebrates Exposed to Micropollutant Mixtures across the River Holtemme (Germany) | **Camilo Escobar Sierra**, University of Cologne, Germany

2.04.P-Tu080 Investigating the relationship between contamination and coral reef condition in the Red Sea: An integrated assessment from bacteria to fish | **Susana Carvalho**, King Abdullah University of Science and Technology, Saudi Arabia

2.04.P-Tu081 A complementary approach based on contaminant analysis, biomarker responses and behavioural performances to investigate the toxicological status of Parus major from Veneto region | **Isabella Calattini**, University of Siena, Italy

2.04.P-Tu082 Assessment of multiple stressors of aquatic ecosystems using invasive Corbicula clams in Argentina | **Francisco Sylvester**, Goethe University Frankfurt, Germany

2.04.P-Tu083 Using effect-based methods to assess chemical stress in old river restorations | **Sarah Hörchner**, Goethe University Frankfurt, Germany

2.04.P-Tu084 Moving towards a better protection of terrestrial biodiversity – identify, compare, redefine | **Oliver Machate**, German Environment Agency (UBA), Germany

2.04.P-Tu085 Developing Environmental Scenarios for The Risk Assessment of Non-Target Organisms | **Domenica Auteri**, European Food Safety Authority (EFSA), Italy

2.04.P-Tu086 Metabolic-Based Identification of the Effects of Chemicals Using Arabidopsis Taliana | **DONG Geun Song**, Gwangju Institute of Science and Technology (GIST), Korea, Republic of (South)

2.04.P-Tu087 How Does Biotransformation Vary Within and Across Species? | **Dave Kuo**, National Taiwan University, Taiwan

2.04.P-Tu088 Changes in Pesticide Contamination With Age in Chicks of a Bird of Prey | **Elva Fuentes**, University of La Rochelle, France

2.04.P-Tu089 A Laboratory-Based Chronic Toxicity Model is Predictive of Nickel Effects on Benthic Invertebrates in the Field | **Adrian de Bruyn**, ADEPT Environmental Sciences Ltd., Canada

2.04.P-Tu090 Ecotoxicological risk assessment for fish populations - Application to the early life stages of endangered migratory fish living in the Garonne catchment. | **Benjamin Bellier**, University of La Rochelle, France

2.04.P-Tu091 Exploring Embryonic Responses of a Migratory Fish to Spawning Grounds Water Quality in a Population Decline Context. | **Sarah Bancel**, EABX, Institut national de recherche pour l'agriculture, l'alimentation et l'environnement (INRAE), France

2.04.P-Tu092 Unravelling The Impact Of Climate Change On Aquatic Ecosystems: Insights From Historically Contaminated Soils In Estarreja, Portugal | **Susana Loureiro**, University of Aveiro, Portugal

2.04.P-Tu093 Development of an Ecotoxicological Bioassay Battery for the Integrated Assessment of Groundwater Systems | **Carolin Bertold**, Goethe University Frankfurt, Germany

2.04.P-Tu094 Effects of Copper, Food Quality and Exposure History on Chironomus riparius Emergence: Insights From a Multigeneration Study | **Sebastian Pietz**, University of Kaiserslautern-Landau (RPTU), Germany

2.04.P-Tu095 Multi-generational exposure of Daphnia magna to pharmaceuticals: Effects on habitat selection behaviour and reproduction | **María del Pilar Gonzalez Muñoz**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

2.04.P-Tu096 Effects of antidepressants on Daphnia magna's behavioural response | **María del Pilar Gonzalez Muñoz**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

2.04.P-Tu097 Can E-wastes Modify Behavioural Responses of the Crustacean Atyaephyra demarestii? | **Mohammed Ariful Islam**, (Faculty of Fisheries, Sylhet Agricultural University, Bangladesh

2.04.P-Tu098 Contamination and habitat fragmentation as drivers of population distribution of stressed landscapes | **David Salvatierra**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

2.04.P-Tu099 Shy vs. bold: Testing if personality traits influence zebrafish propensity to colonize polluted environments | **David Salvatierra**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

2.04.P-Tu100 Ecotoxicological Bioessay of Commercial Sunscreens on Phaeodactylum Tricornutum | **Ignacio Moreno-Garrido**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

2.04.P-Tu101 Effects of microalgae based biostimulants on water and soil condition and species | **Mishal Antony**, University of Antwerp, Belgium

2.04.P-Tu102 Evaluations of aqueous toxicity and cytotoxicity of Ziram | **Nile Kemble**, U.S. Geological Survey, USA

2.04.P-Tu103 Feeding activity of gammarids as ecotoxicological endpoint for acute fungicide stress in freshwater mesocosms | **Silvia Mohr**, Umweltbundesamt, Germany

2.04.P-Tu104 Using Individual Biomarkers to Characterize the Effects of Pesticide Mixture in Gammarus fossarum Under Mesocosm Conditions | **Alexandre Michel**, Paris-Saclay University, France

2.04.P-Tu105 Unravelling the Molecular Mechanisms of Fish Salinity Adaptation in the Face of Severe Osmotic Stress: A Comparative Multi-Tissue Transcriptomic Study in the Llobregat River, Barcelona, Spain | **Camilo Escobar Sierra**, University of Cologne, Germany

2.04.P-Tu106 Weight-of-evidence approach for watershed-scale ecological risk assessment near a zinc smelter in the Nakdong River and Andong Lake, Korea | **Dae-sik Hwang**, EH Research & Consulting Co. Ltd., Korea, Republic of (South)

2.04.P-Tu107 Watershed-Level Characterization of Chloride Exposure and Associated Risks: A Case Study in One of the World's Largest Watersheds | **Braedon Humeniuk**, University of Manitoba, Canada

2.04.P-Tu108 A Critical Review of Sodium Chloride Freshwater Toxicity Data for Generating Species Sensitivity Distributions | **Braedon Humeniuk**, University of Manitoba, Canada

2.04.P-Tu109 Exploring Trait-Based Vulnerability in Korean Freshwater Systems to Enhance Understanding of Heavy Metal Impact on Biodiversity | **Jinhee Park**, Gwangju Institute of Science and Technology (GIST), Korea, Republic of

2.04.P-Tu110 Is Agricultural Pesticide Pressure of Prime Relevance for the Composition of Macroinvertebrate Communities in Small Agricultural Streams? | **Udo Hommen**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

2.04.P-Tu111 Regulatory and practical considerations on the implementation of a Mixture Allocation Factor in REACH | **Jona Schulze**, German Environment Agency - UBA, Germany

2.04.P-Tu112 Variability of responses to multiple chemical stressors in invasive mosquitofish | **Nicolas Martin**, Laboratoire EDB, Université Toulouse III Paul Sabatier, France

Marine Ecotoxicology: Impacts and Possible Solutions, From Coastal to Deep-Sea Ecosystems | Marco Munari, Marinella Farre, Davide Asnicar, Daniela Maria Pampanin

2.05.P-Tu113 Won't Somebody Please Think of the Lobsters? A Methodological Framework for Toxicity Testing of Pesticides Across American Lobster Life Stages. | **Davide Asnicar**, Huntsman Marine Science Centre, Canada

2.05.P-Tu114 Toxicity of the Scrubber Washwater on Marine Organisms: a Focus on the pH Reduction | **Javier Moreno-Andrés**, University of Cadiz, Spain

2.05.P-Tu115 MicroTox Bioluminescence Assay Sensitivity to Metals Toxicity in Full Strength Marine Water: Implications for Monitoring Anthropogenic Impacts in the Marine Environment | **Katharine Kinter**, University of Maryland, USA

2.05.P-Tu116 Adverse Impacts of Biofilm-Colonized Microplastics on Marine Copepods, Tigriopus japonicus | **Ying Wang**, National Marine Environmental Monitoring Center, China

2.05.P-Tu117 Developmental Effects of Legacy and Novel Type 2 Diabetes Therapeutics to Embryo-Larval Red Drum (Sciaenops ocellatus). | **Kristin Nielsen**, University of Texas at Austin, USA

2.05.P-Tu118 Validation of a miniaturized multiresidue method for the determination of pharmaceutical products in Zebrafish embryos | **Jorge Lejo-Santiago**, University of A Coruña, Spain

2.05.P-Tu119 An integrated approach to determine the food-chain transfer and ecotoxicological effects of UV filters on marine organisms | **Anneliese Hodge**, University of Plymouth, United Kingdom

2.05.P-Tu120 Seasonal concentrations of organic contaminants of legacy and emerging concern on plastic polymers deployed in the Galician coast | **María del Mar Pimentel**, Institute of Oceanography, Spanish National Research Council (IEO-CSIC), Spain

2.05.P-Tu121 Looking for Biological Monitoring Tools: Using Anemonia sulcata as Bioindicator Species to Assess Sunscreen and Ultraviolet Filter in Temperate Seas | **Judit González Delgado**, University of Cádiz, Spain

2.05.P-Tu122 The impact of the newly approved anti-sea lice drug, imidacloprid, on the polychaete Capitella sp | **Rosa Helena Escobar Lux**, Havforskningsinstituttet/Institute of Marine Research, Norway

2.05.P-Tu123 Importance of the Influence of Population Habitat on the Ecotoxicology Assessment of Sunscreen Products: An Analysis Using Sea Urchin (P. Lividus) Fertilisation and Larval Development Bioassays | **Vanessa Aranda Quirós**, University of Cadiz, Spain

2.05.P-Tu124 Assessment of Chemicals Chronic Toxicity on Corals, by Combining Measurement of Growth Inhibition and Photochemical Response, With the Scleractinian Coral Model Stylophora Pistillata | **Noémie de Crozé**, L'Oréal, France

2.05.P-Tu125 Environmental realistic concentrations of octocrylene and benzophenone affect fertilization and embryo development of pacific oyster Magallana gigas | **Ana Carvalhais**, University of Aveiro (UA), Portugal

2.05.P-Tu126 Vulnerability of the Sea Urchin (Paracentrotus lividus) to Various Scrubber-waters: Implications for Fertilization and Larval Development | **Nelson Abrantes**, Department of Biology & Centre for Environmental and Marine Studies (CESAM), University of Aveiro, Portugal

2.05.P-Tu127 Biomarker Responses of Clams (Ruditapes philippinarum) Fed on Bisphenol A Analogs-Contaminated Food | **Jacopo Fabrello**, University of Padua, Italy

2.05.P-Tu128 Combined effect of polystyrene microplastics and bisphenol A on the embryo development of the sea urchin Arbacia lixula | **Tiziana Cappello**, University of Messina, Italy

2.05.P-Tu129 Risk Characterization of the Antifouling Biocide Tralopyril and Two Natural Compounds Produced by Cyanobacteria: Fertilization and Embryotoxicity Tests using Magallana gigas | **Ana Carvalhais**, University of Aveiro (UA), Portugal

2.05.P-Tu130 Development of green coating solutions for the problems of maritime corrosion and biofouling | **Marina Maritati**, AquaBioTech Group, Malta

2.05.P-Tu131 Assessing the Impact of New Emerging Nanomaterials in the Mussel Mytilus edulis | **Tania Gomes**, Norwegian Institute for Water Research (NIVA), Norway

2.05.P-Tu132 Approaches to Standardized Methods for Identifying the Negative Influence on the Biodiversity of Coral Ecosystems. | **Guido Gonsior**, GG BioTech Design GmbH, Germany

2.05.P-Tu133 The impact of chemical stressors on biodiversity - An integration of environmental forensic techniques and biological effect markers in the blue mussel Mytilus edulis | **Sunna Sverrisdóttir**, Gothenburg university, Sweden

2.05.P-Tu134 Testing Marine Heat Waves: physiological and behavioural tolerance in a population of the seaurchin Paracentrotus lividus | **Ilaria D'Aniello**, University of Padova, Italy

2.05.P-Tu135 Investigating primary producers buffer effect against mercury pollution in the seaurchin Paracentrotus lividus | **Marco Munari**, University of Padova, Italy

2.05.P-Tu136 Investigating primary producers buffer effect against mercury pollution in the clam Ruditapes philippinarum | **Marco Munari**, University of Padova, Italy

2.05.P-Tu137 Does it pass? And what does it do? Maternal transfer and consequences of pollutants' accumulation in sharks | **Marco Munari**, University of Padova, Italy

2.05.P-Tu138 Scope for Growth in the Blue Mussel Mytilus edulis: Effect of Paint Leachates from Offshore Wind Farm | **Moses Ndugwa**, University of Antwerp, Belgium

2.05.P-Tu139 Improving the Survival of Copepods in Ecotoxicology Trials | **Marina Maritati**, AquaBioTech Group, Malta

2.05.P-Tu140 Electromagnetic fields from subsea power cables: A risk driver for biodiversity changes of offshore wind? | **Bjørn Hansen**, SINTEF, Norway

2.05.P-Tu141 Strategic Investigative Drivers and Impacts Affecting Marine Environmental Developments | **Marina Maritati**, AquaBioTech Group, Malta

2.05.P-Tu142 "Unveiling the Long-Term Effects: Exploring Multigenerational Impacts of Commercial Sunscreens on the Marine Microalgae Phaeodactylum Tricornutum" | **Araceli Rodríguez-Romero**, Faculty of Marine and Environmental Sciences, Marine Research Institute (INMAR), University of Cadiz, Spain

2.05.P-Tu143 Ecotoxicological Impacts and Recovery Potential in Deep-sea Anemones Exposed to a Sediment Plume Generated by a Deep-sea Mining Vehicle | **Leandro Teixeira Marinho**, Centre for Marine and Environmental Research (CIMA), University of Algarve, Portugal

2.05.P-Tu144 Identifying the Best Biomarkers for Risk Assessment in the Deep Sea | **Nélia Mestre**, ARNET – Infrastructure Network in Aquatic Research, University of Algarve, Centre for Marine and Environmental Research (CIMA), University of Algarve, Portugal

2.05.P-Tu145 Simulating the deep-sea mining plume exposure on a shallow-water mussel: an ecotoxicological assessment | **Juliano Vilke**, University of Algarve, Portugal

2.05.P-Tu146 Potential Biomarkers to Assess Metal Toxicity in Deep-sea Invertebrates under Deep-sea Mining Scenario | **Carmen Sousa**, Centre for Marine and Environmental Research (CIMA), University of Algarve, Portugal

Pollinator Risk Assessment in a Changing Landscape | Stefan Kimmel, Andreas Duffner, Charlie Nicholson, Ivo Roessink

2.07.P-Tu147 The Revised EFSA Bee Guidance – First Hands-on Experiences In Risk Assessment And Lessons Learned So Far | **David Spurgeon**, UK Centre for Ecology & Hydrology (UKCEH), United Kingdom

2.07.P-Tu148 The Natural Variability of Honey Bee Colonies - How to Meet the Requirements of the New EFSA Bee Guidance | **Markus Persigehl**, tier3 solutions GmbH, Germany

2.07.P-Tu149 Does the distinction among honeybee subspecies matter for pesticide risk assessment? | **Annelise de Souza Rosa Fontana**, Complutense University of Madrid, Spain

2.07.P-Tu150 From Individual to Colony Level Effects: How Should Colony Structure and Timescales be Considered? | **Julian Haas**, Bayer AG - Cropscience Division, Germany

2.07.P-Tu151 Acute Toxicity of Dichlorvos and Carbendazim to Apis mellifera Larvae Reared In vitro | **Jigarkumar Rana**, Jai Research Foundation, India

2.07.P-Tu152 Testing the Flight Ability of Honeybees to Return to the Hive After a Single Oral Exposure to Sublethal Doses of Deltamethrin | **Katarzyna Winiarska**, Łukasiewicz Research Network-Institute of Industrial Organic Chemistry Branch Pszczyna, Poland

2.07.P-Tu153 Weeds in Cropped Fields – Effects on Honeybee Colony Development Using BEEHAVEecotox | **Oliver Jakoby**, RIFCON GmbH, Germany

2.07.P-Tu154 Using the BEEHAVE Honey Bee Model Across Climates: Queen Egg-Laying Emerging From Weather, Pollen Storage and Brood Size Rather Then Being Imposed | **Andreas Focks**, Osnabrück University, Germany

2.07.P-Tu155 A TKTD module for BEEHAVEecotox – combining BEEHAVEecotox and BeeGUTS | **Vanessa Roeben**, Bayer AG - Crop Science Division, Germany

2.07.P-Tu156 Predicting environmental pollution status and pollen diversity at the pan-European scale using citizen science monitoring data | **Bas Buddendorf**, Wageningen University & Research (WUR), Netherlands

2.07.P-Tu157 SolBeePop-ecotox: a population model for higher-tier risk assessments of solitary bees | **Amelie Schmolke**, RIFCON GmbH, Germany

2.07.P-Tu158 Risk assessment of bees from the use of biocide – exposure assessment | **Ella Laakkonen**, ECHA-European Chemicals Agency, Finland

2.07.P-Tu159 Biocides and Pesticides perspective on the risk assessment of pollinators: ECHA and EFSA Bee guidance and developments for other pollinators | **Ella Laakkonen**, ECHA-European Chemicals Agency, Finland

2.07.P-Tu160 Investigation of Key Parameters to Adapt Ecotoxicological Testing to Microbial Pesticides – An Example With a Social Insect and an Aquatic Invertebrate | **Florine Ory**, IES - Innovative Environmental Services Ltd., Switzerland

2.07.P-Tu161 Oral exposure-driven effects of a novel spider venom-based biopesticide on survival, gut microbiome and head transcriptome of adult worker honeybees | **Artur Sarmento**, University of Coimbra, Centre for Functional Ecology, Portugal

2.07.P-Tu162 Beyond Managed Bees: Understanding Non-Target Arthropods for Enhanced Pollination Services in EU Agricultural Systems | **Grzegorz Sowa**, University of Sheffield, United Kingdom

2.07.P-Tu163 Chronic Bumblebee Feeding Test under Natural Environmental Conditions – Lessons Learned so Far | **Johannes Lückmann**, RIFCON GmbH, Germany

2.07.P-Tu164 Non-Apis Bee Risk Assessment in the Absence of a Specific Protection Goal: Decision-Making With Limited Options | **Julian Haas**, Bayer AG, Germany

2.07.P-Tu165 Evaluation of the oral toxicity of the fungicide difenoconazole on native bees of the species Scaptotrigona postica and its subeffects. | **Gabriela Garcia**, University of São Paulo (USP), Brazil

2.07.P-Tu166 Toxicity of imidacloprid and thiamethoxam to Scaptotrigona postica bees | **Gabriela Garcia**, University of São Paulo (USP), Brazil

2.07.P-Tu167 Toxicity of tiametoxam insecticide on the stingless bee Scaptotrigona postica Latreille, 1807 | **Eny Vieira**, University of São Paulo (USP), Brazil

2.07.P-Tu168 Method Optimisation for Large Scope Pesticide Multiresidue Analysis in Bee Pollen: a Pilot Monitoring Study | **Maria Antonietta Carrera**, University of Almeria, CSIC-EEZA, Spain

2.07.P-Tu169 New approaches for the analysis of residues of plant protection products in non-typical matrices collected by solitary leafcutter bees (Megachile rotundata F.) in a semi-field test design | **Silvio Knaebe**, Eurofins Ecotox GmbH, Germany

2.07.P-Tu170 New experiences and insights of two-year testing with the leafcutter bee Megachile rotundata in a semi-field test design | **Silvio Knaebe**, Eurofins Ecotox GmbH, Germany

2.07.P-Tu171 Definitive Methodology for the Acute Contact Test on the Solitary Bee Megachiles rotundata. -LD50 Toxic Reference | **Carmen Gimeno**, Eurofins Trialcamp, Spain

2.07.P-Tu172 Selection of an Application Diet for an Acute Oral Test on the Solitary Bee Megachiles rotundata. | **Carmen Gimeno**, Eurofins Trialcamp, Spain

Potential Impacts of Anthropogenic Contaminants in the Changing Arctic and Antarctic Ecosystems, Interacting With Other Human Derived Stressors | Nico van den Brink

2.08.P-Tu173 High Concentrations of Novel Flame Retardants in Indoor Dust from a Cruise Ship in the Arctic | **Veronica van der Schyff**, Masaryk University, RECETOX, Czech Republic

2.08.P-Tu174 Antarctic Threads: Textile Microfibers and Chemical Additives in the wild scallop Adamussium colbecki from the Ross Sea | **Emma Ferrari**, University of Siena, Italy

2.08.P-Tu175 Exploring Heavy Metal Toxicity in the Antarctic Marine Ecosystem: Investigating the Defensive Role of Metallothioneins in Trematomus eulepidotus | **Elisabetta Piva**, University of Padova, Italy

2.08.P-Tu176 Assessing the Impact of Penguin Guano on the Antarctic Bivalve Aequiyoldia eightsii: Effects on Biomarker Responses | **Erica Sparaventi**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

2.08.P-Tu177 Glacial and urban rivers role in the fate of Contaminants of Emerging Concern in Arctic coastal waters | **Emma Knight**, Norwegian Institute for Water Research (NIVA), Norway

Chemical Fate in the Soil-Plant System and Evaluation of Related Impacts and Risks | Arno Rein, Marc Lamshöft, Michael Hess

3.08.P-Tu178 Organic chemical contaminants in fertilizers, amended soils, and corns | **Stéphane Bayen**, McGill University, Canada

3.08.P-Tu179 Fate of Hormones, Pharmaceuticals and PFAS in the Soil-Plant System and Implications for Food Safety | **Esmer Jongedijk**, Wageningen Food Safety Research, part of Wageningen University and Research, Netherlands

3.08.P-Tu180 Pharmaceuticals in a Soil-Plant System Irrigated with Reclaimed Water in the Mediterranean Area: Environmental and Human Health Risk Assessment. | **Sara Rodriguez-Mozaz**, University of Girona, Catalan Institute for Water Research (ICRA), Spain

3.08.P-Tu181 Presence of Pharmaceuticals and Other Emerging Contaminants in Biogenic Matrices Used in Agriculture as Fertilizer and in Soil and Lettuce | **Marco Fossati**, Institute of Research Pharmacological Mario Negri, Italy

3.08.P-Tu182 Evaluation of the dynamics and impact of nanomagnetites (Fe304) on lettuce (Lactuca sativa) in a context of cadmium contaminated soil | **Nolenn Kermeur**, Univ Rennes, CNRS, France

3.08.P-Tu183 Contamination of water, soil, and plants by micropollutants from treated wastewater and sewage sludge: Results from the second-year field experiment | **Radka Kodesova**, Czech University of Life Sciences Prague, Czech Republic

3.08.P-Tu184 Determination of Polycyclic Aromatic Hydrocarbon (PAHs) Associated with Vehicular Emission and it's Effect on Air, Soil, and Food Cultivars Planted Along The Major Highways in Enugu State, Nigeria. | **Kingsley Uhama**, Enugu State University of Science and Technology, Nigeria

3.08.P-Tu185 Fate of Per- and Polyfluoroalkyl Substances (PFAS) from Soil to Edible Crops: Relevance for the Safety of Circular Food Systems | **Katja van Dongen**, Wageningen Food Safety Research, part of Wageningen University and Research, Netherlands

3.08.P-Tu186 Uptake of Per- and Polyfluoroalkyl Substances From Soil to Plants – A Meta-Analysis | **Elvira Rudin**, ETH Zurich, Switzerland

3.08.P-Tu187 Riparian Plant Uptake of Current-Use Pesticides in Small Streams from Vine-Growing dominated River Basins: Aquatic-Terrestrial Linkages | **Franziska Fiolka**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany

3.08.P-Tu188 Bio-accumulation of Heavy metals in Crops and Pollution Index Assessment | **Sung Chul Kim**, Chungnam National University, Korea, Republic of (South)

3.08.P-Tu189 Evaluating Plant Uptake Through a Standard Soil-Based Biotest: Insights from Case Studies on Flame Retardants and Nanoplastics | **Giovanni Beggio**, University of Padua, Italy

3.08.P-Tu190 Uptake of contaminants of emerging concern and AMR into edible plants: a field study from Australia | **Minna Saaristo**, Environment Protection Authority Victoria, Australia

3.08.P-Tu191 Understanding the Role of Soil Properties in the Fate and Behaviour of Pharmaceuticals in Soil and Pore Water | **Harriet Sleight**, University of York, United Kingdom

3.08.P-Tu192 Sorption, Persistence, and Plant Growth Inhibitory Activity of S-Abscisic Acid in Soils | **Maria del Valle Muñoz-Muñoz**, Spanish National Research Council (CSIC), Spain

3.08.P-Tu193 Multiscreening of pesticides in plant biomass for detection of groundwater contamination | **Stanislava Vrchovecka**, Technical University of Liberec, Czech Republic

3.08.P-Tu194 Small-molecule Fingerprinting for Contaminant Screening in Reclaimed Water and Non-target Analysis of the Irrigated Rice | **Keng-Jui Lin**, National Taiwan University, Taiwan

3.08.P-Tu195 Multitarget and suspect-screening of antimicrobials in vegetables samples: uptake experiments and identification of transformation products | **Belen Gonzalez-Gaya**, University of the Basque Country (UPV/EHU), Spain

3.08.P-Tu196 The influence of Bio-based fertilizers (BBFs) on the degradation of anionic pharmaceuticals | **Yan Dong**, University of Amsterdam (UVA), Netherlands

3.08.P-Tu197 Occurrence of Microplastics in Soils Irrigated With Reclaimed Water | **Jose Flores Morales**, University of Almería, Spain

3.08.P-Tu198 Risk Assessment of Organic Microcontaminants and Microplastics in Protected Crops Irrigated With Reclaimed Water | **Maria Jesus Martinez Bueno**, University of Almeria, Spain

3.08.P-Tu199 Assessment of a multi-test protocol investigating fate and ecological impacts on soil environment due to potential contaminants in fertilizers | **Giovanni Beggio**, University of Padua, Italy

3.08.P-Tu200 Evaluation of the potential toxicity of swine wastewater treated with recycled oyster shell and pumice in soil environments | **Yung-Chih Yang**, National Kaohsiung University of Science and Technology,Department of Marine Environmental Engineering, Taiwan

3.08.P-Tu201 Health Impact of Vegetable Consumption from Urban Gardens in Andalucia, Spain | **Rafael López-Núñez**, Institute of Natural Resources and Agrobiology of Seville - Spanish National Research Council (IRNAS-CSIC), Spain

3.08.P-Tu202 Assessing the Efficacy of Reactive Barriers in Mitigating Emerging Contaminants: Laboratory Insights into Aquifer Recharge with Treated Wastewater | **Linda Luquot**, Geosciences Montpellier, University of Montpellier, CNRS, France

3.08.P-Tu203 A Higher Sensitivity of HMA Genes and Better Photosynthetic Performance Led to Improved Cd Phytoextraction by Brassica napus under Future Climate | **Austra Dikšaitytė**, Vytautas Magnus University, Lithuania

Direct and Indirect Impacts of (Nano- And Micro-) Plastics in Terrestrial Ecosystems: Current Status and Future Trends | Denise M Mitrano, Elma Lahive, Geert Cornelis

3.10.P-Tu204 Lateral Microplastic Transport Following Heavy Rainfall Events | **Sebastian Pietz**, University of Kaiserslautern-Landau (RPTU), Germany

3.10.P-Tu205 Microplastics Distribution and Characterization in Soil, Water, Sediments and Plants in Different Urban Areas of Saudi Arabia | **Yolanda Pico**, Universidad de Valencia, Spain

3.10.P-Tu206 Assessing the presence of plastics within the European hedgehogs diet - supplementary food and wild prey | **Emily Thrift**, University of Sussex, United Kingdom

3.10.P-Tu207 The Combined Effect of Microplastic Exposure (PBAT or PET) and Seawater Inundation on the Coastal Plant Plantago coronopus | **Winnie Courtene-Jones**, University of Plymouth, United Kingdom

3.10.P-Tu208 Characterization and spatial distribution of mesoplastic particles in an arable soil | **Kristof Dorau**, Federal Institute for Geosciences and Natural Resources (BGR), Germany

3.10.P-Tu210 Microplastic Omnipresence: Automated Detection of Atmospheric Microplastic Deposition in Alpine Environments using µFTIR Mapping and Open Specy | **Aleksandra Karapetrova**, University of California Riverside (UC Riverside), USA

3.10.P-Tu211 Multifaceted Effects of Microfibers on Soil-Plant Systems: Exploring the Response Under Different Crop Cultivations | **Zhangling Chen**, University of Leeds, United Kingdom

3.10.P-Tu212 Quantitative tracking of nanoplastics along the food chain from lettuce (Lactuca sativa) to snails (Cantareus aspersus) | **Laura Zantis**, Leiden University, Netherlands

3.10.P-Tu213 Species-dependent responses of crop plants to polystyrene microplastics | **Laura Zantis**, Leiden University, Netherlands

3.10.P-Tu214 Disentangling Microplastics Effects on Oxygen Diffusion, Microbial Activity and Greenhouse Gas Emissions in Soil | **Denise Mitrano**, ETH Zürich, Switzerland

3.10.P-Tu215 Comparing Approaches to Terrestrial Ecotoxicity Studies for Micro- and Nanoplastic Particles and Engineered Nanomaterials: A SWOT Analysis Approach | **Kate Schofield**, Ricardo Energy & Environment, United Kingdom

3.10.P-Tu216 Effects of microplastics pollution to soil fungi and fungi feeding springtails | **Jin Il Kwak**, Konkuk University, Korea, Republic of (South)

3.10.P-Tu217 Polystyrene Nanoplastic (NPs) and Sulfamethoxazole: a Multidisciplinary Approach to Assess the Impact of a Contaminant Mixture on Lactuca Sativa and Rhizosphere Microorganisms | **Ludovica Rolando**, Italian National Research Council (IRSA-CNR), Italy

3.10.P-Tu218 Two-generation Full life Cycle Tests with Mealworms Tenebrio molitor: Effects of Agricultural Microplastics | **Anita Jemec Kokalj**, University of Ljubljana, Biotechnical Faculty, Slovenia

3.10.P-Tu219 Lessons learned from research with model polystyrene nanoplastics in different environmental approaches | **Martin Hoppe**, Federal Institute for Geosciences and Natural Resources (BGR), Germany

3.10.P-Tu220 Do We Have the Ingredients for Soil Microplastic Policies based on Environmental Risk Assessment? | **Elmer Swart**, National Institute for Public Health and the Environment (RIVM), Netherlands

3.10.P-Tu221 Assessment of Microplastic Emissions from Artificial Turf Pitches | **Maria Kittner**, Federal Institute for Materials Research and Testing (BAM), Germany

3.10.P-Tu222 Impacts of Conventional and Biodegradable Microplastics on Plant-Soil Systems | **Giovana Macan**, Spanish National Research Council, Spain

3.10.P-Tu223 Effects of environmentally relevant mixtures of microplastics on terrestrial organisms | **Sara Martínez-Pérez**, IMDEA Water Institute, Spain

3.10.P-Tu224 Quantification of Nanoplastic Uptake and Distribution in the Root, Stem and Leaves of the Edible Herb Lepidum sativum | **Harshit Sahai**, Jozef Stefan International Postgraduate School, Ljubljana, Slovenia, Spanish National Research Council (CSIC-EEZA), Spain

3.10.P-Tu225 Parking Lots as a Source of Microplastics in Urban Environments: Site Characterization and Interaction With Soil Microarthropods | **Marco Scaramelli**, National Biodiversity Future Center, University of Modena and Reggio Emilia, Italy

3.10.P-Tu226 Effects of conventional and biodegradable mulching film microplastics on the earthworm Eisenia andrei | **Salla Selonen**, Finnish Environment Institute (SYKE), Finland

3.10.P-Tu227 Tracking Polyethylene Degradation in Soil Using a 13C-labelling Approach | **Hannah Forsyth**, Technical University Darmstadt, Germany

3.10.P-Tu228 Toxicity assessment of metal mixtures on E. crypticus: effect of Polyethylene microplastic | **İrem Öztürk Ufuk**, Gebze Technical University, Turkey

3.10.P-Tu229 Earthworm (Eisenia andrei)-Mediated Degradation of Commercial Compostable Bags and Potential Toxic Effects | **Luís André Mendes**, University of Vigo, Spain

3.10.P-Tu231 From Particles to Plants: Exploring Nanopolystyrene's Impact on Lettuce Growth | **Hannah Case**, University of Surrey, United Kingdom

3.10.P-Tu232 Nanoplastics in Terrestrial Ecosystems: Linking Exposure to Effects Through Dose-Response Relationships | **Michael Peter Meissle**, Agroscope, Switzerland

3.10.P-Tu233 Seasonal and Population-Driven Microplastic Pollution Highlighted by Wastewater: Soil-Aquifer Treatment as a Potential Solution for Mitigation | **Albert Contreras Llin**, Agencia Estatal Consejo Superior de Investigaciones Científicas, Spain

3.10.P-Tu234 Vertical Transport of Microplastic Fragments from Mulching Films and Associated Chemical Additives in Soil Ecosystems | **Rachel Hurley**, Norwegian Institute for Water Research (NIVA), Norway

3.10.P-Tu235 Adding it up: Effects of microplastics with additives and increased monomer contents to springtails (Folsomia candida) | **Éverton Souza da Silva**, University of Bayreuth, Germany

3.10.P-Tu236 Plastic Mulch And Pesticides Residues Effecting The Lettuce Growth: Insights of the soil Microbiome and nutrients availability | **Julia Möller**, Wageningen University & Research (WUR), Netherlands

3.10.P-Tu237 Linking the occurrence of microplastics and adsorbed organic pollutants in beaches from the Cantabrian Coast (Northern Spain) | **Juan Ayala Cabrera**, University of the Basque Country (UPV/EHU), Spain

3.10.P-Tu238 Fate of Antimony (Sb) from polyethylene terephthalate (PET) micro and nanoplastics: combined toxicity study in soil-plants | **Nithyapriya Manivannan**, Swedish University of Agricultural Sciences (SLU), Sweden

3.10.P-Tu239 Combining FTIR and Py-GC-MS to monitor microplastics in an agricultural watershed during dry periods | **Lucas Friceau**, ParisTech School of Bridges, France

3.10.P-Tu240 Ecological Impacts of Microplastics and Other Contaminants in Urban Waste Products Used as Fertilizers in Agroecosystems. | **Annemette Palmqvist**, Roskilde University (RUC), Denmark

3.10.P-Tu241 Assessing the Impact of Microplastics on Soil Resilience | **Rachel Hurley**, Norwegian Institute for Water Research (NIVA), Norway

3.10.P-Tu242 Fate and Release of Microplastic-Derived Dissolved Organic Matter From the Photodegradation of Biomass-Based Polymers | **Mengshan Lee**, National Kaohsiung University of Science and Technology, Taiwan (China)

3.10.P-Tu243 Evaluation Method of Ecotoxicity for Biodegradable Plastics II | **Norihisa Tatarazako**, Ehime University, Japan

3.10.P-Tu244 Assessment of Microplastic Presence Along an Atlantic Coastal Region | **Ana Catarina da Rocha**, Division of Chemistry and Pollution of the Marine Environment, Hydrographic Institute, Portugal

3.10.P-Tu245 The Deterioration of Bio-based PLA Plastic Teabags Under Natural Soil Conditions and Their Effect on Earthworms | **Winnie Courtene-Jones**, University of Plymouth, United Kingdom

Ionizable Organic Chemicals - Improving Risk Assessment Accuracy | Steven Droge, Andrew Ross Brown, Fabian Gerhard Peter Balk, Fabian Fischer

3.12.P-Tu246 Refining Fluorochemical Protein-Water and Membrane-Water Partition Coefficients from in vitro Experiments with Albumin and Phospholipids | **Ruiwen Chen**, niversity of Pittsburgh, USA

3.12.P-Tu247 Coarse-Grained Simulations of Passive Partitioning of Ionic Surfactants into Cell Membranes | **Eoin Kearney**, Department of Chemistry, Durham University, United Kingdom

3.12.P-Tu248 How does active transport affect toxicokinetics of cationic psychoactive drugs in aquatic invertebrates? | **Johannes Raths**, Environmental Chemistry, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

3.12.P-Tu249 Differentiating between baseline and excess toxicity for permanently charged compounds (ionic liquids) | **Marta Markiewicz**, Dresden University of Technology, Germany

3.12.P-Tu250 Intrinsic Hepatic Clearances of Selected Pharmaceuticals by Rainbow Trout S9 Fractions and Their Use in Estimating Bioconcentration Factors | **Tea Pihlaja**, University of Helsinki, Helsinki Institute of Sustainability Science (HELSUS), University of Helsinki, Finland

3.12.P-Tu251 Sorption Behaviour of (Ionizable) Organic Micropollutants to Different Sandy (Agricultural) Soils | **Jill Soedarso**, Wageningen University & Research (WUR), Netherlands

3.12.P-Tu253 Primary fatty amines – what drives alga toxicity | **Dirk Scheerbaum**, Noack Laboratorien GmbH, Germany

3.12.P-Tu254 Bioconcentration assessment of three cationic surfactants in permanent fish cell lines | **Fabian Balk**, Swiss Centre for Applied Ecotoxicology, Switzerland

3.12.P-Tu255 Deriving Fluorochemical Membrane-Water and Protein-Water Partition Coefficients from in Vitro Experiments with Phospholipids and Albumin | **Ruiwen Chen**, University of Pittsburgh, USA

3.12.P-Tu256 Biomimetic Chromatography and Associated Models to Predict Biological Partitioning | **Derek Muensterman**, Oregon State University, USA

3.12.P-Tu257 New Insights in Defining Analogy to Advance the Science of a Read-Across Framework: Starting with Dreissena spp. Exposed to Psychotropic Drugs | **Laetitia Minguez**, Université de Lorraine, France

3.12.P-Tu258 Applicability of a Ciprofloxacin Bioavailability Model to Four Antimicrobials: Investigating the Effects of pH and Dissolved Organic Carbon on Ecotoxicity | **Qiyun Zhang**, Ghent University - GhEnToxLab, Belgium

3.12.P-Tu259 The impact of pH on the toxicity of ionizable agrochemicals | **Anna Huang**, Wageningen Environmental Research (WUR), Netherlands

Latest Science on PMT/vPvM Substances and on Bioavailability in Times of the Pollution Crisis | Michael Neumann, Hans Peter Arp, John Parsons, Jose Julio Ortega-Calvo

3.13.P-Tu260 An investigation into the infiltration of Persistent, Mobile and Toxic as well as very Persistent very Mobile chemicals in Irish water | **Rebecca Smith**, Dublin City University (DCU), Ireland

3.13.P-Tu261 vPvM in Urban Runoff: Barcelona as a Pilot Case | **Francesc Labad Roig**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.13.P-Tu262 The UBA list with prioritised PMT/vPvM substances in the REACH registration database | **Michael Neumann**, German Environment Agency (UBA), Germany

3.13.P-Tu263 Should we assess the P&M chemicals from a perspective of the "hazard" or "exposure"? | **Li Li**, University of Nevada, Reno, USA

3.13.P-Tu264 Data Science Tools for Mapping, Identification, and Assessment of PMT/vPvM Chemicals | **Sandrine Andres**, INERIS, France

3.13.P-Tu265 Enhancing Chemical Hazard Evaluation through Mobility Classifications | **Colleen McLoughlin**, Enhesa,

3.13.P-Tu266 Fate and Exposure Modeling of PMT/vPvM Substances using PROTEX | **Li Li**, University of Nevada, Reno, USA

3.13.P-Tu267 Application of a multimedia activity model for evaluating the fate of persistent and mobile chemicals in soils: The influence of media-specific volume fractions | **Todd Gouin**, TG Environmental Research, United Kingdom

3.13.P-Tu268 What next for Persistent, Mobile and Toxic (PMT) substances – The plant protection products regulation as a case study for ensuring safe use concerning drinking water sources | **Bernhard Jene**, BASF SE, Germany

3.13.P-Tu269 Adsorption as a Counterpart to Bioavailability: Investigating Hydrophobic Organic Compound (HOC)–Clay Mineral Interactions to Improve Understanding of the Environmental Fate of Halogenated Pollutants | **Leonard Böhm**, Justus Liebig University Giessen, Germany

3.13.P-Tu270 On-site solid-phase extraction of polycyclic aromatic compounds (PACs) from biochar-amended contaminated soil. | **Ayan Au Musse**, Oerebro University, Sweden

3.13.P-Tu271 Scrutinising Soil: A Cost-Effective, Scalable Approach to Investigate the Behaviour of Small Molecules in Soil Ecosystems Using Chemical Sampling Probes | **Abdullah Shahid**, Imperial College London, United Kingdom

3.13.P-Tu272 Soil amendement with Sargasso biochar: a way to secure animal production in the antillean chlordecone contamination context? | **Perrine Stephan**, Université de Lorraine, France

3.13.P-Tu273 The Challenges of Validating and Implementing Methods for Characterising Non Extractable Residues in Soils | **Avril Crowe**, Labcorp, United Kingdom

3.13.P-Tu274 Uptake and elimination of per- and polyfluoroalkyl substances in earthworms exposed to a fortified sandy loam soil | **Guilherme Lotufo**, U.S. Army Engineer Research and Development Center, USA

3.13.P-Tu275 Assessment of the Persistence, Bioaccumulation, Mobility and Toxicity of cosmetic ingredients in the COSMETICK database: a preliminary analysis of regulatory evolution | **Kevin Bonnot**, Consultancy for Environmental & Human Toxicology and Risk Assessment (CEHTRA), France

POSTER AREA 2

New Perspectives and Developments in Chemical (Bio)Degradation and Persistence Assessment | Christopher Hughes, Amelie Ott, Aina Charlotte Charlotte Wennberg, Anu Kapanen

3.17.P-Tu280 Accelerating the Invisible: Unveiling the Impact of Suspended Sediment Concentrations on Biodegradation of Organic Chemicals in Water-Sediment Suspension Systems | **Yijing Li**, Stockholm University, Sweden

3.17.P-Tu281 Extending the applicability domain of persistence testing of organic chemicals in soil to dissimilar bioavailability scenarios | **Rosa Posada-Baquero**, Instituto de Recursos Naturales y Agrobiologia, Spain

3.17.P-Tu282 Prioritisation of known contaminants in drinking water resources for a biodegradation simulation test according to OECD Test No. 309: Aerobic mineralisation in surface water | **Michael Neumann**, German Environment Agency (UBA), Germany

3.17.P-Tu283 Application of (enhanced) ready biodegradability tests in persistency evaluation | **Christoph Hafner**, Hydrotox GmbH, Germany

3.17.P-Tu284 Accumulating Knowledge of Biodegradability Weight-of-Evidence Approach for Persistent Assessment of Difficult Substances | **Yuto Amano**, Safety Science Research, Kao Corporation, Japan

3.17.P-Tu285 Preserving the Biotransformation Potential of Activated Sludge in Time: Towards Reproducible Incubation Experiments for Persistence Assessment | **Martina Kalt**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

3.17.P-Tu286 Microbial community analyses of a ring test for a new marine biodegradation test for persistence screening (MaP test) | **Russell Davenport**, Newcastle University, United Kingdom

3.17.P-Tu287 New Approaches to Persistence Testing With Increased Cell Number Using Tangential Flow Filtration. | **Katie Endersby**, Unilever, United Kingdom

3.17.P-Tu288 Chemical Biodegradability and Persistence Assessment | **Kirit Wadhia**, NOV Inc, United Kingdom

3.17.P-Tu289 "Characterization of Industrial Wastewater Samples: Application of a Degradation Assay and Bioassays" | **Xenia Klaus**, University of Applied Sciences and Arts Northwestern Switzerland (FHNW), Switzerland

3.17.P-Tu290 Ultimately Biodegradable, or Not Ultimately Biodegradable - That is the Question! | **Karen Jenner**, Givaudan UK Ltd, United Kingdom

3.17.P-Tu291 Biodegradable or not? Developing a standardized international approach to assessing the biodegradability of cosmetic formulations | **Silke Fiebig**, Vitis Regulatory, United Kingdom

3.17.P-Tu292 Assessment on the Degradability of Emerging Contaminants in Freshwater and Marine Sediments | **Pablo Antonio Lara Martín**, Universidad de Cadiz, Spain

3.17.P-Tu293 Variability of Biodegradation Rates in Rivers from Different Regions of Europe | **Run Tian**, Stockholm University, Sweden

3.17.P-Tu294 Field-to-lab Microbial Profile of Batch Incubation Experiments for Biodegradation Testing | **Joeselle Serrana**, Stockholm University Center for Circular and Sustainable Systems, Sweden

3.17.P-Tu295 Building Knowledge from Available Degradation Simulation Studies to Improve their Usability | **Louise Camenzuli**, ExxonMobil, Belgium

3.17.P-Tu296 How do River Channel Geometry and Sediment Calibre Affect the Degradation of Wastewater Pollutants? Insights from a Laboratory Experiment | **Robert Newbould**, University of Leicester, United Kingdom

3.17.P-Tu297 Electron Donor Availability and Biodegradability Dictates Co-metabolic Organic Micropollutant Biodegradation | **Nora Sutton**, Wageningen University, Netherlands

3.17.P-Tu298 Challenges with biodegradation simulation testing of difficult substances: a look at volatile hydrophobic substances in OECD 309 | **Christopher Hughes**, Ricardo, United Kingdom

3.17.P-Tu299 Non-Extractable Residues in Persistence Assessment: Effect on the Degradation Half-Life of Chemicals | **Cindy Jespersen**, Technical University of Denmark (DTU), Denmark

3.17.P-Tu300 The Use of Tritium Labelled Compounds in Environmental Fate Studies: Considerations and Experience | **Katerina Hamnett**, Fera Science Ltd., United Kingdom

3.17.P-Tu301 Time-dependent overall persistence as a tool in a weight-of evidence for persistence assessment | **Stefan Hahn**, Fraunhofer ITEM - Institute for Toxicology and Experimental Medicine, Germany

3.17.P-Tu302 Assessing Chemical Persistence: The Imperative of Looking Within Our Homes | **Li Li**, University of Nevada, Reno, USA

3.17.P-Tu303 Microbial Synergy: Exploring Bioremediation and Microplastic Dynamics in Environmental Resilience | **Serena Cabigliera**, University of Florence, Italy

3.17.P-Tu304 Effect of Internal Hydrophilic Groups of Surfactants on Biodegradability and Ecotoxicity: An Example of a Newly Developed Surfactant, Bio IOS | **Takahiro Suzuki**, Kao Corporation, Japan

3.17.P-Tu305 Biodegradation and biotransformation products of oxygen-containing Liquid Organic Hydrogen Carrieris (oxo-LOHCs) | **Yohan Seol**, Dresden University of Technology, Germany

3.17.P-Tu306 Degradation of Metribuzin in a Tropical Soil Amended with Sugarcane Straw Biochar | **Kassio Mendes**, Federal University of Viçosa, Brazil

3.17.P-Tu307 Degradation of glyphosate in drinking water with 60Co gamma radiation using LC-MS/MS | **Kassio Mendes**, Federal University of Viçosa, Brazil

3.17.P-Tu308 Oxygen-containing Liquid Organic Hydrogen Carriers (oxo-LOHCs) as materials for storage of green hydrogen – environmentally acceptable, circular, and free of critical raw materials? | **Yohan Seol**, Dresden University of Technology, Germany

The Fate and Effects of Micro- And Nano-Plastics in Relation to Ecosystems | Carlos Edo, Francisca Fernández-Piñas, Miguel Oliveira, Gerardo Pulido-Reyes

3.22.P-Tu309 Monitoring of microplastics in 132 Iowa Lakes in relation to recreational activities and land use | **Boris Jovanovic**, Iowa State University, USA

3.22.P-Tu310 Understanding the Seasonal Distribution of Microplastics Along Two Major European Rivers: River Elbe (Germany) and River Thames (UK) | **Alice Horton**, National Oceanography Centre, United Kingdom

3.22.P-Tu311 Distribution and characterization of microplastics in the coastal areas of the Mediterranean Sea | **Laura Sforzi**, University of Florence, Italy

3.22.P-Tu312 Emission characteristics of microplastic in urban stormwater runoff: rainfall characteristics and land-use patterns | **Youna Cho**, Ecological Risk Research Department, Korea Institute of Ocean Science and Technology, Geoje, Republic of Korea,

3.22.P-Tu313 Development and Validation of High-Throughput Methods for the Sampling, Extraction and Analysis of Marine Microplastics | **Lars Hildebrandt**, Helmholtz-Zentrum hereon, Germany

3.22.P-Tu314 The spatial abundance and distribution of microplastics in the surface sediment of Masan Bay, South Korea | **Dayeong Jeong**, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of

3.22.P-Tu315 Characterization of Plastics Obtained in the OSPAR Monitoring for Marine Litter in 5 Beaches of the Bay of Biscay | **Nagore Gonzalez Soto**, EPOC UMR 5805, University of Bordeaux, CBET+, PiE, University of the Basque Country UPV/EHU, France, Spain

3.22.P-Tu316 Hemocyte Responses upon Foodborne Exposure to Three Sizes of Polystyrene Nanoplastics on Mussels Mytilus galloprovincialis | **Nagore Gonzalez Soto**, CBET+, PiE, University of the Basque Country UPV/EHU, EPOC UMR 5805, University of Bordeaux, Spain, France

3.22.P-Tu317 Microplastic uptake and trophic transfer in mid-consumer fish species in a heavily contaminated river | **Badiozaman Sulaiman**, University of Manchester, United Kingdom

3.22.P-Tu318 Microplastic accumulation in oysters from Hong Kong's Deep Bay and Yong Shue O. | **Raul Hilder Nine**, University of Manchester, United Kingdom

3.22.P-Tu319 Microplastic Pollution In Biological and Environmental Matrices From An Aquaculture In Portugal And Potential Impacts To Human-Beings | **Ana Gonçalves**, University of Coimbra, MARE–Marine and Environmental Sciences Centre/ARNET–Aquatic Research Network, Department of Biology & CESAM, University of Aveiro, Portugal

3.22.P-Tu320 Study of the Microplastic Abundance and Composition in Gastrointestinal Tract of Seabirds From the Canary Islands Determined by Optical Microscopy and ATR-FTIR | **Gema Paniagua**, National University of Distance Education (UNED), Spain

3.22.P-Tu321 Birds Of Prey and the Threat of Artificial Microparticles | **Chloe Wayman**, University of Alcala (UAH), Spain

3.22.P-Tu322 Concentration, Characteristics and Risk Assessment of Microplastics in Echinoderms of the Western Cape, South Africa: a need for Science-Based Solutions to Mitigate Impacts of Microplastics | **Conrad Sparks**, Cape Peninsula University of Technology, South Africa

3.22.P-Tu323 A Plastic Trap? Factors Influencing Microplastics Trapping in Coastal Vegetated Canopies | **Hayley McIlwraith**, University of East Anglia (UEA), Plymouth Marine Laboratory, United Kingdom

3.22.P-Tu324 Unveiling human exposure to microplastics from water sources | **Virginia Gálvez Blanca**, University of Alcala (UAH), Spain

3.22.P-Tu325 Priorities to Inform Microplastics Management, Monitoring, and Research: A California Case Study | **Diana Lin**, San Francisco Estuary Institute, USA

3.22.P-Tu326 Incorporation of Micro- and Nanoplastics in Sea Ice During Freezing | **Alice Pradel**, ETH Zürich, Switzerland

3.22.P-Tu327 Modification of a Nile Red Staining Method for Microplastic Detection in Environmental Media | **Fiona Zabel**, University of Maryland, USA

3.22.P-Tu328 Reproducibility and Environmental Relevance: An Impossible Match for Plastic Particles? | **Miguel Oliveira**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

3.22.P-Tu329 PlasticFADE: Introducing a Mechanistic Model for Plastic Fragmentation and Degradation in the Environment | **Anne-Marie Boulay**, CIRAIG - Ecole Polytechnique de Montreal, Canada

3.22.P-Tu330 Relation between Surface Hardness and Elasticity to Carbonyl Indexes of Plastic Products and Environmental Plastic Debris | **Emiko Fujita**, Chiba Institute of Technology, Japan

3.22.P-Tu331 Assessing Microplastic Generation in Rivers by Abrasion Experiments | **Lucas Kurzweg**, University of Applied Sciences Dresden, Germany

3.22.P-Tu332 Generation Rates of Nano- and Microplastics from Four Thermoplastics by Sunlight-simulated Photooxidation in Water | **Soeun Eo**, Ecological Risk Research Department, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of (South)

3.22.P-Tu333 Environmental Fate of Nano- and Small Microplastics in Aqueous Environments | **Stine Mauring**, NTNU, Norway

3.22.P-Tu334 Are microplastics derived from conventional and biodegradable mulching films biodegradable in the aquatic environment? | **Gabriela Kalcikova**, University of Ljubljana, Slovenia

3.22.P-Tu335 Activated Sludge Acts as an Efficient Passive Sampler for Microplastics | **Guillaume Crosset-Perrotin**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

3.22.P-Tu336 Long-term Monitoring of Natural Weathering of Microplastics. Study of the Behavior of Adsorbed Metals | **S Muniategui-Lorenzo**, Universidade da Coruña, Spain

3.22.P-Tu337 Microplastics Settling in Turbid Waters: Impacts of Natural Suspended Sediments on Deposition Rates | **Francesco Parrella**, ETH Zürich, Switzerland

3.22.P-Tu338 Preliminary field study: vertical difference of microplastics within aggregates from the deep ocean | **Youna Cho**, Ecological Risk Research Department, Korea Institute of Ocean Science and Technology, Geoje, Republic of Korea

3.22.P-Tu339 The fate of low density microplastic particles in rivers: an experimental study of turbulence, biofilm and sediment | **Guilherme Calabro-Souza**, Leesu, Ecole des Ponts ParisTech, Université Paris Est Créteil, Champs-sur-Marne, France, France

3.22.P-Tu340 Metal-Organic Frameworks (MOFs) as an Effective Tool for Nanoplastic Removal from Water | **Carlos Edo**, University of Alcala (UAH), Analytical Chemistry, Physical Chemistry and Chemical Engineering, Spain

3.22.P-Tu341 Predicting the Toxicity of Untested Microplastic Particles | **Ana Leticia Antonio Vital**, University of Bayreuth, Germany

3.22.P-Tu342 Occurrence of Common Plastic Additives and Contaminants in Raw, Steamed and Canned Mussel Samples From Different Harvesting Areas Using MSPD-HPLC Methodology | **Gema Paniagua**, National University of Distance Education (UNED), Spain

3.22.P-Tu343 Leaching of Dissolved Organics and Inorganics From Microplastics and Assessing Their Contribution to Disinfection Byproducts Formation | **Mahyar Ghanadi**, University of Auckland, New Zealand

3.22.P-Tu344 Leaching of plastic additives in seawater: role of biofilm in colonized plastic | **Berta Sala Solà**, Institute of Marine Sciences, Spanish National Research Council (ICM-CSIC), Spain

3.22.P-Tu345 Microplastics interaction on Hg biotransformations mediated by microorganisms | **Marta Martins**, MARE - Marine and Environmental Sciences Centre, NOVA School of Science and Technology, Portugal

3.22.P-Tu346 Joint effects of ketoprofen and polypropylene nanoplastics on the morphology and physiology of zebrafish early life stages | **Isabel Lopes**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

3.22.P-Tu347 Effect of low food level on chronic toxicity of polyethylene microplastics to Daphnia magna population | **Zhihan Cao**, Korea University, Korea, Republic of (South)

3.22.P-Tu348 Toxicity of Micro- and Nanoplastic Particles on Daphnia: A Meta-Analysis of the Effects of Dissolved Organic Matter and Ecocorona Formation | **Ana Leticia Antonio Vital**, University of Bayreuth, Germany

3.22.P-Tu349 The Clone Wars: Daphnia magna Clones React Differently To Microplastics Exposure Under Food Limitation | **Simona Mondellini**, University of Bayreuth, Germany

3.22.P-Tu351 Combined effects of global warming and microplastic on the population dynamics of a harpacticoid copepod | **Ana I Catarino**, Flanders Marine Institute (VLIZ), Belgium

3.22.P-Tu352 Release of Microplastics from Disposable Surgical Facemasks Under Varying Shear Forces and Its Toxic Effects On Freshwater Algae Scenedesmus Obliquus | **Soupam Das**, Vellore Institute of Technology (VIT), India

3.22.P-Tu353 Transcriptomic Alteration of Mytilus galloprovincialis Exposed to Virgin and Marine Incubated Microparticles Made of Biodegradable and Conventional Polymers | **Giacomo Limonta**, University of Siena, Italy

3.22.P-Tu354 Mechanistic Assessment of Cellular Responses to Micro- and Nanoplastic Particles (Aged Polyethylene Terephthalate) in Bivalve Hemocytes (Mytilus edulis) | **Jenevieve Hara**, Ghent University, University of Antwerp, Belgium

3.22.P-Tu355 Toxicity of a Multi-Polymer Microplastic Mixture on Mytilus edulis | **Tania Gomes**, Norwegian Institute for Water Research (NIVA), Norway

3.22.P-Tu356 Occurrence and metabolic effects of micro - nanoplastics (MNP) in blue mussels from Isle of Cumbrae, Scotland | **Nur Norhashim**, University of Manchester, United Kingdom

3.22.P-Tu357 Assessing the toxicity of a multi-polymer and multi-size microplastic mixture on early life stages of Atlantic cod (Gadus morhua) | **Stefania Piarulli**, SINTEF Ocean, Norway

3.22.P-Tu358 Microplastics in Leave-on Cosmetics Cause Oxidative Stress to Zebrafish Embryotic Cells (ZF4) | **Iseult Lynch**, University of Birmingham, United Kingdom

3.22.P-Tu359 Abundance and Potential Toxicological Effects on Plants of Microplastics From El Gorguel Beach (Murcia) | **Vanessa Aranda Quirós**, University of Cadiz, Spain

3.22.P-Tu360 Polystyrene and Polyethylene Terephthalate Microplastics Alter Bioaccumulation and Toxicity of Cadmium in the Polychaete, Perinereis aibuhitensis | **Yi Cong**, National Marine Environmental Monitoring Center, China

3.22.P-Tu361 Ecotoxicological characterization of plastics from four Po River tributaries (Northern Italy) | **Riccardo Sbarberi**, University of Milan, Italy

3.22.P-Tu362 Ecotoxicity assessment of hydrophobically-modified and non-modified cationic cellulose originated from Acacia wood | **Isabel Lopes**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

3.22.P-Tu363 Biodegradable plastics can mitigate plastic pollution? What marine organisms tell us | **Loredana Manfra**, Italian National Institute for Environmental Protection and Research (ISPRA), Italy

3.22.P-Tu364 Impacts of polystyrene on growth and nutritional profile of standard freshwater species | **Ana Gonçalves**, University of Coimbra, MARE–Marine and Environmental Sciences Centre/ARNET–Aquatic Research Network, Portugal

3.22.P-Tu365 Fate and effects of an environmental realistic mixture of microplastics in freshwater microcosms | **Sara Martínez-Pérez**, IMDEA Water Institute, Spain

3.22.P-Tu366 Sediment Matters as a Route of Microplastic Exposure: A Call for More Research on the Benthic Compartment | **Monica Sandgaard**, Roskilde University, Denmark

3.22.P-Tu367 Multilevel biological responses of Daphnia magna exposed to nano-size engineered polystyrene and polyvinyl chloride plastics | **Andrea Masseroni**, University of Milano Bicocca, Italy

3.22.P-Tu368 Impact of Weathered and Virgin Polyethylene Terephthalate Nanoplastics on Growth Dynamics and the Production of Extracellular Polymeric Substance (EPS) by Marine Algae | **Marie Sioen**, Ghent University (UGent), Belgium

3.22.P-Tu369 Impact of secondary biodegradable nanoplastics on the freshwater microalga Chlamydomonas reinhardtii | **Silvia Gómez-Kong**, University of Madrid (UAM), Spain

3.22.P-Tu370 Influence of Benzo[a]pyrene on the Toxicity of Polystyrene Nanoplastics to Marine Microalgae Isochrysis galbana | **Estefanía Pinto**, University of Vigo, Spain

3.22.P-Tu371 Histopathological Analysis of Mussels Mytilus galloprovincialis after Foodborne Exposure to Three Sizes of Polystyrene Nanoplastics | **Miren Cajaraville**, CBET+ Research Group, Department Zoology and Animal Cell Biology, Faculty of Science and Technology and Research Centre for Experimental Marine Biology and Biotechnology PiE, University of the Basque Country UPV/EHU, Spain

3.22.P-Tu372 Microplastics in Pelagic Fish and Surface Water from the St. Lawrence River and Estuary, Canada | **Elisa Michon**, University of Quebec at Rimouski (UQAR), Canada

3.22.P-Tu373 Combined Ecotoxicity Effects of Nanoplasticts and the Antibiotic Sulphamethoxazole on the Free-Floating Aquatic Plant Lemna major | **Paola Grenni**, National Research Council (CNR), Italy

3.22.P-Tu374 Ecotoxicological impact of secondary nanoplastics from pristine and recycled low density polyethylene plastics | **Gerardo Pulido-Reyes**, Institute for Agricultural and Food Research and Technology, Spanish National Research Council (INIA-CSIC), Spain

3.22.P-Tu375 Trophic Transfer Of Contaminated And Uncontaminated Microplastics: Regeneration Study Evaluated In Planarian Sp. | **Gabriela Aguirre-Martínez**, Universidad Arturo Prat, Chile

3.22.P-Tu376 Possible trophic transfer of polystyrene microspheres from B. calyciflorus to its predator A. brightwelli | **Lasse Rauert**, University of Potsdam, Germany

3.22.P-Tu377 Characteristics of microplastics ingested by Acartia spp. in two enclosed bay environments of Korea | **Dong-Hoon Im**, National Institute of Fisheries Science, Korea, Republic of (South)

3.22.P-Tu378 Transfer of Different Size Microplastics Throughout Marine Environmental Compartments and Their Fate in Organisms | **Nagore Blasco**, University of Basque Country (UPV/EHU), Spain

3.22.P-Tu379 Greenhouse Plastics as Vectors for Antibiotic Resistance Genes and Pathogens | **Juan Manuel Valenzuela**, Autonomous University of Madrid (UAM), Spain

3.22.P-Tu380 Unravelling the ecocorona using a proteomics approach | **Amanda Dawson**, CSIRO, Australia

3.22.P-Tu381 Environmental DNA adsorption onto polymers in environmental waters: A comprehensive study on the protection of adsorbed DNA | **Célia Paolucci**, ETH Zurich, Switzerland

3.22.P-Tu382 Diversity of marine bacteria growing on leachates from virgin and weathered plastic: insights into potential degraders | **Cristina Romera-Castillo**, Institute of Marine Sciences, Spanish National Research Council (ICM-CSIC), Spain

3.22.P-Tu383 Toxicity of Methacrylate Nanoparticles of Partially Bio-Based Pressure Sensitive Adhesives (PSAs) to Zooplankton* | **Amaia Orbea**, CBET+ Research Group, Department Zoology and Animal Cell Biology, Faculty of Science and Technology and Research Centre for Experimental Marine Biology and Biotechnology PiE, University of the Basque Country UPV/EHU, Spain

3.22.P-Tu384 Microplastic Exposure Linked with Decreased Lower Trophic Level Fatty Acid Availability and Reduced Yellow Perch Growth in a Large In-Lake Mesocosm Experiment | **Garth Covernton**, University of Toronto, Canada

3.22.P-Tu385 Biodegradable microplastics: Uptake by and effects on the rockpool shrimp Palaemon elegans (Crustacea: Decapoda) | **Lukas Miksch**, Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research, Germany

Legacy of War: Environmental Contamination, Ecotoxicity and Human Health Concerns of Explosives and Chemical Warfare Agents | Guilherme R. Lotufo, Edmund Maser

4.07.P-Tu386 Munitions at Sea: Making ecotoxicological sense out of a littered seafloor – spatial and temporal considerations | **Guilherme Lotufo**, U.S. Army Engineer Research and Development Center, USA

4.07.P-Tu387 Depuration Kinetics of TNT and its Metabolites in lab Exposed Blue Mussels (Mytilus edulis, L.) | **Matthias Brenner**, Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research, Germany

4.07.P-Tu388 Screening Concentrations for Ecotoxicological Assessment of Soils Contaminated with Explosives Residues | **Roman Kuperman**, U.S. Army DEVCOM Chemical Biological Center, USA

4.07.P-Tu389 Calculation of the dynamics of special unexploded ordnance (UXO) for rapid recovery and avoidance of toxic environmental contamination | **Daniel Klembt**, Corvus Works UG, Germany

4.07.P-Tu390 Heritage of war - a multi-biomarker approach to investigate the effects of sunken war wrecks on common dab (Limanda limanda) in the North Sea | **Romina Schuster**, University of Bremen, Germany

4.07.P-Tu391 Bacterial Clues of Shipwreck TNT Pollution in the North Sea | **Wyona Schütte**, Flanders Marine Institute (VLIZ), Belgium

4.07.P-Tu392 Spatial Distribution of WWII Legacy Munition Compounds in the Baltic Sea. | **Aaron Beck**, GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany

4.07.P-Tu393 Biological effects of munition left on war wrecks on the health of blue mussels (Mytilus edulis, L.) in the North Sea | **Romina Schuster**, University of Bremen, Germany

4.07.P-Tu394 Ecotoxicological risk of World War relic munitions in the sea after low and high order blast in place operations | **Tobias Bünning**, Institute of Toxicology and Pharmacology for Natural Scientists, University Medical School Schleswig-Holstein, Germany

4.07.P-Tu395 Demonstration of a Commercially Available Passive Sampler for Monitoring of Munitions Constituents at an Underwater Naval Training Range | **Guilherme Lotufo**, U.S. Army Engineer Research and Development Center, USA

POSTER AREA 3

Microfibre Release From Textiles and Subsequent Pollution: Root Causes, Emission Routes, Effects and Mitigation | Kelly J Sheridan, Elliot Bland, Andy Booth, Susanne M Brander

4.09.P-Tu400 Every workout counts? Concentrations of trace elements, anti-microbials and total fluorine in sportswear | **Sally Gaw**, University of Canterbury, New Zealand

4.09.P-Tu401 Chronic effects of microplastics to Artemia franciscana in benthic system | **Lia Kim**, Konkuk University, Korea, Republic of (South)

4.09.P-Tu402 Fabrication and Analysis of Fibrous Microplastics for Toxicity and Testing Assessments | **Chae Hwa Kim**, Korea Institute of Industrial Technology, Jeonbuk National University, Korea, Republic of (South)

4.09.P-Tu403 Long term exposure of Lumbriculus variegatus (Oligochaeta) to nylon-6 microfibers | **Victor Carrasco Navarro**, University of Eastern Finland, Finland

4.09.P-Tu404 Unravelling the Aging Effects of Disposable Masks into Water Towards the Release of Micro-/Nanoplastics and Fibers | **Nina Maria Ainali**, Department of Chemistry, Aristotle University of Thessaloniki, Greece

4.09.P-Tu405 Simulated Degradation of Polyester Fibres Released from Laundry and with Different Manufacturing Steps | **Yolanda Pico**, Universidad de Valencia, Spain

4.09.P-Tu406 Who wore it better? Identifying extractables and leachates from textile microfibres | **Amanda Dawson**, CSIRO, Australia

4.09.P-Tu407 Textile Features Affecting Fibre Release: A Critical Analysis of Empirical Findings and Evidence | **Marina Corte Tedesco**, University of New South Wales (UNSW), Australia

4.09.P-Tu408 Quantification and Characterisation of Microplastic Release from Different Aquaculture Nets Towards Emission Reduction | **Stefania Piarulli**, SINTEF Ocean, Norway

4.09.P-Tu409 LIFE CASCADE Project: Removal of Microplastics and Other Pollutants from Textile Wastewater | **Isabella Gambino**, DiSAT, University of Insubria, Italy

4.09.P-Tu410 Influence of the microfiber catcher design on the capture efficiency of microplastic fibers generated during the washing process | **MiYeon Kwon**, Korea Institute of Industrial Technology (KITECH), Korea, Republic of

Protecting Innovation in Plant Protection: Low-risk Pesticides, Precision Applications, and Considerations on Risk Assessment | Claudia Vaj, Steven Droge, Daniel Brice Kenko Nkontcheu

4.11.P-Tu411 How to Improve the Risk Assessment for Low-Risk Pesticides | **Gertie Arts**, Wageningen University & Research (WUR), Netherlands

4.11.P-Tu412 Addressing Current Challenges in the Risk Assessment of Low-Risk Pesticides | **Bruno Guimarães**, Syngenta Crop Protection AG,

4.11.P-Tu413 Crop protection by RNA interference – a horizon scanning of approaches to inform risk assessment | **Kirsten Germing**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

4.11.P-Tu414 A new class of active substances: dsRNA-based pesticides for Plant Protection – a regulatory perspective | **Jonas Schartner**, Federal Office of Consumer Protection and Food Safety (BVL), Germany

4.11.P-Tu415 Environmental Risk Assessment of RNAi-based Plant Protection - a Literature Review | **Udo Hommen**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

4.11.P-Tu416 Toxicity of the Bioherbicide Pelargonic Acid Varies for Different Primary Producers | **Judith Epping**, Wageningen University & Research (WUR), Netherlands

4.11.P-Tu417 Evaluation of The Environmental Benefit and Impact of Nitrapyrin | **Ricardo Petersen**, ERM International Group Limited, United Kingdom

4.11.P-Tu418 Biomarkers for Phosphine Resistance in Tribolium castaneum: Based on Transcriptomics and Machine Learning approach for Rapid Identification | **Donghyeon Kim**, Kyungpook National University, Korea, Rrepublic of (South)

4.11.P-Tu419 Environmental Evaluation of the Biostimulant Methylobacterium symbioticum | **Claudia Vaj**, Corteva Agriscience, Italy

4.11.P-Tu420 Challenges of Paraffin Oil in Aquatic Risk Assessment: A Call for Situation-based Higher-Tier Testing | **Louise Wipfler**, Wageningen University & Research (WUR), Netherlands

4.11.P-Tu421 Soil Specific Outcomes in the OECD 216 Nitrogen Transformation Test | **Christopher Sweeney**, Syngenta, United Kingdom

4.11.P-Tu422 Non-Target Arthropods (NTA): What Influences their Sensitivity to Pesticides in the Field/Landscape? | **Melanie Hagen-Kissling**, Eurofins Scientific, Germany

4.11.P-Tu423 Bat Activity in Arable Farmland: Assessing Potential Risks from Plant Protection Products | **Charles Hazlerigg**, Enviresearch Ltd., United Kingdom

4.11.P-Tu424 Herbicide prioritization and risk reduction in perennial crops | **Zisis Vryzas**, Aristotle University of Thessaloniki, Greece

4.11.P-Tu425 Reduction of Pesticide Risk using Optimal Volume Rate Tools and Spray Drift Reduction Techniques | **Marco Grella**, Department of Agricultural, Forest and Food Sciences (DiSAFA), University of Turin (UNITO), Italy

4.11.P-Tu426 How much an adequate spray volume can contribute to the pesticide use reduction? | **Marco Grella**, Department of Agricultural, Forest and Food Sciences (DiSAFA), University of Turin (UNITO), Italy

4.11.P-Tu427 Precision application of pesticides - Possibilities and challenges from a regulatory perspective | **Balthasar Smith**, Federal Office of Consumer Protection and Food Safety (BVL), Germany

4.11.P-Tu428 Smart Stewardship in Digital Farming: GIS-Supported Advice for Reducing Groundwater Vulnerability Risks through Optimized Use of Plant Protection Products | **Sebastian Multsch**, BASF SE, Germany

4.11.P-Tu429 Precision Application of Plant Protection Products: Risk Assessment Approaches and Potential as Risk Mitigation Measure | **Rena Isemer**, Bayer AG, United States

4.11.P-Tu430 Integrating Precision Application into the Regulatory Environmental Risk Assessment Scheme: A Conceptual Approach | **Patricia González Camarero**, knoell Iberia S.L., Spain

4.11.P-Tu431 Drift Entry into Water Bodies After Patch Application to Arable Crops: Measurements and Modelling | **Prakash Srinivasan**, Bayer AG, United States

4.11.P-Tu432 New Developments in Spray Drift Modelling for Precision Applications | **Henk Jan Holterman**, Wageningen University & Research (WUR), Netherlands

4.11.P-Tu433 Environmental Risk Assessment of Different Protection Zones for Non-Target Plants with Precision Application of Herbicides | **Steven Droge**, Wageningen University & Research (WUR), Netherlands

4.11.P-Tu434 Consequences Of Reduced Application Of Plant Protection Products On Soil Contamination And Soil Fertility | **Gilda Dell'Ambrogio**, Ecotox Centre, Switzerland

4.11.P-Tu435 Developing Landscape Environmental Risk Assessment (ERA) for pesticides under PARC: Conceptualization | **Jose V. Tarazona**, Institute of Health Carlos III (ISCIII), Spain

4.11.P-Tu436 Developing Landscape Environmental Risk Assessment (ERA) for pesticides under PARC: Selection and Design of Case Studies | **Jose V. Tarazona**, Institute of Health Carlos III (ISCIII), Spain

4.11.P-Tu437 Modelling Aquatic Drift Exposure from a Patch Application | **Prakash Srinivasan**, Bayer AG, United States

4.11.P-Tu438 Spray Drift Assessment For The Registration Of Plant Protection Products Applied By Drones – Working Within The Existing Regulatory Framework. | **Sara Langa Peñalba**, knoell Iberia S.L,

4.11.P-Tu439 Assessment of Unmanned Aerial Spraying Systems as an Effective and Environmentally Friendly Tool for Citrus Growers | **Esther García-Montero**, Corteva Agriscience, Spain

4.11.P-Tu440 Review on Pesticide Pollution and Ecological Status of Lake Tana Sub-Basin, Ethiopia | **Banchiamlak Admasu**, Wageningen University, Netherlands

4.11.P-Tu441 Challenges in Developing Brazilian Scenarios for the Environmental Risk Assessment for Birds and Mammals Due to the use of Pesticides | **Carla Pozzi**, Brazilian Institute of Environment and Renewable Natural Resources (IBAMA), Brazil

Statistics for Ecotoxicology and Environmental Fate – From Tried and Tested over New and Exciting Methods to Machine Learning | Christoph Schuer, Sandrine Charles, Mascha Nadine Rubach, Pernille Thorbek

4.12.P-Tu442 Improved and Harmonized Statistical Approaches in Non-Mammalian Endocrine Disruption Testing: Recommendations for Improved Data Analysis in OECD TG 231 and 229/230 | **Maria Tobor-Kaplon**, Syngenta Crop Protection B.V., Netherlands

4.12.P-Tu443 Activities to revise the OECD Document No. 54 (and ISO/TS 20281) on statistical analysis of ecotoxicity data | **Benjamin Daniels**, RWTH Aachen University, Germany

4.12.P-Tu444 MOSAIC_ssd: a turnkey web tool to facilitate Species Sensitivity Distribution analyses | **Sandrine Charles**, University Claude Bernard Lyon 1, France

4.12.P-Tu445 Can custom-written codes be GLP compliant? | **Marie Brown**, Cambridge Environmental Assessments (CEA), United Kingdom

4.12.P-Tu446 ECX estimation for Hormesis-like Effects | **Thomas Gräff**, German Environment Agency (UBA), Germany

4.12.P-Tu447 Equivalence Testing in Honeybee Semi-field Testing and its Consequences | **Magdalena Mair**, University of Bayreuth, Germany

4.12.P-Tu448 First Experiences With the Statistical Methods From EFSA's Revised Bee Guidance Document | **Lijuan Yan**, BASF Services Europe GmbH, Germany

4.12.P-Tu449 Predicting Fish Sensitivity Across Species and Chemicals: Combining Physiological Variables with Chemical Hydrophobicity | **Sanne van den Berg**, Wageningen University & Research, Netherlands

4.12.P-Tu450 XEREDAR, an R-package for automated statistical analysis of embryo assays for studying endocrine activity | **Pernille Thorbek**, BASF plc, United Kingdom

4.12.P-Tu451 After dark, all CATs are leopards - Casting Light on the Use of CPCAT (Closure Principle Computational Approach Test) in Non-Target Soil Organism Assessments | **Oliver Jakoby**, RIFCON GmbH, Germany

4.12.P-Tu452 Promoting Statistical Rigor, Reproducibility, Traceability, and Flexibility in Regulatory Environments: A Comprehensive Showcase | **Zhenglei Gao**, Bayer AG, Germany

4.12.P-Tu453 Graphical evaluation of the results of a nonlinear dose response parameter estimation in R and SAS | **Baumert Sarah**, Independent, Germany

4.12.P-Tu454 Digital Environmental Data Management System; Easier Said than Done | **Alexandra Duguay**, Rio Tinto, Canada

4.12.P-Tu455 A comprehensive screening approach to assess similarity to Substances of Very High Concern | **Pim Wassenaar**, National Institute for Public Health and the Environment (RIVM), Netherlands

4.12.P-Tu456 PEPPER: Machine Learning for Predicting Environmental Persistence of Pollutants under a Unified Framework | **Jose Cordero Solano**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

4.12.P-Tu457 High performance computing and neural network in support of toxicokinetic-toxicodynamic modelling for the understanding of mixture effects | **Virgile Baudrot**, Qonfluens, France

4.12.P-Tu458 Machine Learning to help identifying chemicals | **Patrick Bauerlein**, KWR Water Research Insititute, Netherlands

4.12.P-Tu459 Linking Machine Learning to GC/MS Data: A New Approach for Simplifying and Facilitating Environmental Data Analysis | **Day Powell**, Agilent Technologies, Inc., United Kingdom

4.12.P-Tu460 Bio-QSARs unlock a new level of predictive power for machine learning-based ecotoxicity predictions by exploiting chemical and biological information | **Nika Galic**, Syngenta AG, Switzerland

Water-Related Problems in the Mediterranean Ecoregion and Their Environmental, Health and Social Impacts | Stefania Marcheggiani, Lorenzo Proia, Dennis Sarigiannis

4.15.P-Tu461 Soil-Aquifer Treatment with a Reactive Barrier for Contaminant Removal: a Strategy for Using Treated Wastewater as an Adaptation Measure to Drought on the Mediterranean Coast of Spain | **Juan Cruz Carrizo**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

4.15.P-Tu462 Identification, prioritisation and monitoring of the most relevant contaminants of emerging concern in a reclaimed water irrigation system | **Dana Orlando Véliz**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

4.15.P-Tu463 Role of Plastic Fragments in increasing permissiveness of E. coli towards Plasmids harboring Antibiotic Resistance Genes | **Ifra Ferheen**, University of Camerino, Italy

4.15.P-Tu464 Bioactive Contaminants along Tyrrhenian coastal areas and their bioaccumulation in the Mediterranean endemic seagrass Posidonia oceanica | **Ludovica Rolando**, Italian National Research Council (IRSA-CNR), Italy

4.15.P-Tu465 Exploring the occurrence of emerging contaminants in a coastal environment: the Mar Menor lagoon – Campo de Cartagena aquifer case study (SE Spain) | **Nonito Ros Berja**, University of Girona, Catalan Institute for Water Research (ICRA), Spain

4.15.P-Tu466 First Assessment of Microplastic Contamination in Wild Specimens of Gelatinous Zooplankton From the Northern Adriatic Sea (Italy) | **Valentina Ferrari**, University of Modena and Reggio Emilia, Italy

4.15.P-Tu467 Effect of Land Use decisions on the abundance of Multi drug resistant bacteria and Antibiotic-Resistant in Bracciano Lake | **Ifra Ferheen**, University of Camerino, Italy

4.15.P-Tu468 The Invasive Blue Crab Callinectes Sapidus (Rathbun, 1896) In Lazio Region (Central Tyrrhenian Sea): Updated Distribution And Possible Impacts On Shellfish Farming And Harvesting | **Stefania Chiesa**, Italian National Institute for Environmental Protection and Research (ISPRA), Italy

4.15.P-Tu469 Impacts of Shipping Discharges (Including Scrubber Water) in the Northern Adriatic Sea: Exploring Current and Future Environmental Exposure Using a Modelling Approach | **Loris Calgaro**, University Ca' Foscari of Venice, Italy

4.15.P-Tu470 Microcosm experiments to examine the antibiotic pollution in Mediterranean inland waters based on the response of aquatic primary producers | **Camilla Puccinelli**, Istituto Superiore di Sanità, Italy

4.15.P-Tu471 A Comprehensive Review Of Metal(Loid) Bioaccumulation In The Invasive Blue Crab Callinectes Sapidus (Rathbun, 1896): The Influence Of Trophic Niche And The Possible Risks For Human Consumption | **Stefania Chiesa**, Italian National Institute for Environmental Protection and Research (ISPRA), Italy

LCA in Policy, Decision-Making and Communication to Support the Transition Towards Sustainable Consumption | Susanna Andreasi Bassi, Michele De Rosa, Paula Pérez-Lopez, Timen Mattheüs Boeve

5.04.P-Tu475 A theoretically based approach to reconcile different types of GHG-accounting | **Marco Rudolf**, Karlsruhe Institute of Technology (KIT), Germany

5.04.P-Tu476 Alternative pathway for evaluating the environmental impacts of industrial plants with publicly collected data | **Monika Vitvarová**, University of Chemistry and Technology Prague (UTC), Czech Republic

5.04.P-Tu477 A systematic review of the life cycle assessment of clothing | **Toshiro Semba**, Tokyo City University, National Institute of Technology, Tokyo College, Japan

5.04.P-Tu478 How Does Global Palm Oil Consumption Impact Indonesia's Biodiversity and Ecosystem Services? | **Stephan Pfister**, ETH Zurich, Switzerland

5.04.P-Tu479 Impact assessment of relocating and improving the recycling of scrap metal from end-of-life vehicles and waste electrical and electronic equipment in Wallonia, using the life cycle assessment tool. | **Thibaut Lavis**, University of Liège, Belgium

5.04.P-Tu480 Using Life Cycle Assessment (LCA) to foster the renaissance of the European photovoltaic (PV) manufacturing industry | **Sabela Teixeira Taboada**, University of Liège, Belgium

5.04.P-Tu481 Improving the Availability of High-Quality Environmental Impact Data for Key Food Items Through HESTIA | **Matthew Anderson-Barker**, The Waste and Resources Action Programme (WRAP), United Kingdom

5.04.P-Tu482 Methodological Framework for Life Cycle Assessment of Hydrogen Production Technology via Non-Thermal-Plasma Methane Cracking | **Isabella Bulfaro**, Polytechnic University of Catalonia, Spain

5.04.P-Tu483 PEF-wise methodology for bio-based fertilisers: A first normative proposal, critical analysis, and further perspectives | **Jorge Senan-Salinas**, University of Vic-Central University of Catalonia, BETA Technological Center, Spain

5.04.P-Tu484 Life cycle assessment framework for evaluating the environmental performance of refractories in the steel industry: the choice of magnesia-carbon bricks for steel ladle lining as a case study | **Md Jubayed**, University of Liège, Belgium

5.04.P-Tu485 Comparative Life Cycle Assessment of Combined Ethylene and Acetic Acid Production by Oxidative Dehydrogenation of Ethane | **Carolin Meier**, Technical University of Munich (TUM), Germany

5.04.P-Tu486 Challenges and Insights in the LCA of Perovskite PV at Low TRL | **Afzal khan Peerukhan**, University of Liège, Belgium

5.04.P-Tu487 Environmental assessment of producing fossil and bio-based polyurethane foams: a review | **Paula Quinteiro**, University of Aveiro, Portugal

5.04.P-Tu488 Environmental impacts of alternative dross utilization from primary and secondary aluminium production | **Kamila Milnerova**, University of Chemistry and Technology Prague, Czech Republic

5.04.P-Tu489 Life Cycle Assessment to Support Bioenergy Integration in Tissue Paper Production | **Ana Dias**, University of Aveiro, Portugal

5.04.P-Tu490 Lowering Laundry and Dishwashing Environmental Impacts in Europe from a LCA perspective | **Jasmin Martinez**, Procter & Gamble, Belgium

5.04.P-Tu491 What Are We Missing in the Climate Crisis? A New Role for Healthcare Systems | **Walter Cristiano**, Italian National Institute of Health, Italy

5.04.P-Tu492 Which LCA methodology for hydrogen-based policies? | **Alessandro Arrigoni**, Joint Research Centre, Netherlands

5.04.P-Tu493 Consequential LCA of the mineral fertiliser consumption patterns in Europe for policy making. | **Jorge Senan-Salinas**, University of Vic-Central University of Catalonia, BETA Technological Center, Spain

5.04.P-Tu494 The impact of implementing strategies in the upstream supply chain on the environmental footprint of a pharmaceutical | **Amelie Verlinden**, Ghent University, Belgium

5.04.P-Tu495 Organizational climate impact accounting – moving from blame distribution to towards accounting for action | **Timen Boeve**, Aalborg University, Denmark

5.04.P-Tu496 ECOSCORE for Vehicles Procurement in Belgium: an Update in the Methodology to Integrate Life Cycle Assessment Approach | **Lea D'amore**, ETEC Department, Vrije Universiteit Brussel (VUB), Brussel, Belgium

5.04.P-Tu497 Improving the robustness of freshwater ecotoxicity impact assessment of cosmetic products in life cycle assessment: summary and illustration of the work conducted by the EcoBeautyScore Consortium | **Jacques L'Haridon**, L'Oréal Recherche & Innovation, France

5.04.P-Tu498 Will digital memory technologies decrease their environmental impacts? The memristor's environmental footprint | **Angela Lao Zea**, King Juan Carlos University, Spain

5.04.P-Tu499 Life Cycle Assessment applied to novel solar modules' encapsulants | **Angela Lao Zea**, King Juan Carlos University, Spain

5.04.P-Tu500 Environmental Impact of Municipal Wastewater Management System Based on Life Cycle Assessment (LCA) in Indonesia | **Teguh Suyadi**, Tokyo City University, Japan

5.04.P-Tu501 Systematically Assessing Environmental Impacts of Pharmaceutical Products – Lessons Learned | **Lowik Pieters**, National Institute for Public Health and the Environment (RIVM), Netherlands

5.04.P-Tu502 Environmental Impact Assessment of Paint Production and its Distribution | **Elisa Arteaga Prieto**, KU Leuven, Belgium

5.04.P-Tu503 Life cycle analysis for Environmental impact assessment of cavitation assisted valorization of keratin waste | **Vikram Chatake**, Institute of Chemical Technology (UICT), India

5.04.P-Tu504 Environmental impact of alternative red mud utilization for metal extraction | **Monika Vitvarová**, University of Chemistry and Technology Prague (UTC), Czech Republic

5.04.P-Tu505 Human toxicity emissions produced by copper supply chain: A comparison between different productor countries | **María-Pilar Martínez-Hernando**, Universidad Politécnica de Madrid, Spain

Prospective Life Cycle Assessment for Sustainable Solutions in Times of Environmental Crises | Nils Thonemann, Stefano Cucurachi, Heather Margaret Logan, Anne van den Oever

5.07.P-Tu506 Future greenhouse emissions of all-solid-state batteries | **Shan Zhang**, Swedish University of Agricultural Sciences (SLU), Sweden

5.07.P-Tu507 Optimizing Energy Efficiency in Lab-Scale LFP Battery Cell: LCA Approach and Insights | **Debashri PAUL**, Tomas Bata University in Zlín, Czech Republic

5.07.P-Tu508 Potentials and hotspots of post-lithium-ion batteries: Environmental impacts and supply risks for sodium- and potassium-ion batteries | **Ryosuke Yokoi**, National Institute of Advanced Industrial Science and Technology (AIST), Japan

5.07.P-Tu509 Refining Life Cycle Assessments of Mobility Solutions: AI-Simulated Use Phase Calculations for Sustainable Transport | **Albert Jan Zuilichem**, Technical University Darmstadt, Germany

5.07.P-Tu510 Is it Really "Green"? Antisolvents for the Perovskite Solar Cell Production | **Kamal Kamali**, University of Bordeaux, France

5.07.P-Tu511 Prospective LCA of Solid-State Fermentation Based Biostimulant Production: Unveiling Environmental Benefits | **Nancy Peña**, University of Vic-Central University of Catalonia, BETA Technological Center, Spain

5.07.P-Tu512 Prospective Life Cycle Assessment of Flow Chemistry Production for Active Pharmaceutical Ingredients | **Kristie Tjokro**, Leiden University, Netherlands

5.07.P-Tu513 Safe and Sustainable by Design: Development of an Integrated Approach for Scale-Up Drug Discovery Using P-LCA | **Jacopo Sorani**, Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland

5.07.P-Tu514 Integrating Future Energy Scenarios into Prospective Life Cycle Assessment: A Case Study of Hydrogen Production Technologies | **Juliana Steinbach**, MINES ParisTech, France

5.07.P-Tu515 Using Prospective LCA for the Assessment of Circular Economy Measures | **Anne-Marie Isbert**, Forschungsstelle für Energiewirtschaft (FfE), Germany

5.07.P-Tu516 Prospective LCA of Carbon Capture for Utilisation Technologies: Key challenges in low-TRL Biorefineries | **Jorge Senan-Salinas**, University of Vic-Central University of Catalonia, BETA Technological Center, Spain

5.07.P-Tu517 Decarbonizing Transportation: Exploring Chlor-Alkali Hydrogen's Potential | **Aleš Paulu**, University of Chemistry and Technology Prague, Czech Republic

5.07.P-Tu518 Life Cycle Assessment and Sensitivity Analysis of Radioactive Waste from Decommissioning the Fessenheim Nuclear Power Plant: Case of the very low-level radioactive waste treatment and disposal center | **Zineb Guendouz**, University of Chemistry and Technology Prague+ Strasbourg University, France

5.07.P-Tu519 Consequential Life Cycle Assessment of Mycoprotein as Meat Alternative in the EU Market | **Adisa Wiloso**, University of Helsinki, University of Helsinki, FI-00790, Finland

5.07.P-Tu520 Life cycle assessment for farmed fish | **Takuma Mori**, Tokyo City University, Japan

5.07.P-Tu521 Life Cycle Assessment of LIFE Smart Agromobility project | **María-Pilar Martínez-Hernando**, Universidad Politécnica de Madrid, Spain

5.07.P-Tu522 Wood Buildings or Decarbonized Concrete ? A Prospective Life Cycle Assessment Perspective Coupling Forest Sector Modelling and Prospective Energy Scenarios | **Thomas Beaussier**, ISIGE Mines paris, France

5.07.P-Tu523 Life Cycle Assessment of Magnetite Production Using Microfluidic Devices: Moving from the Laboratory to Industrial Scale | **Olga Fuentes**, University of Bordeaux, France

5.07.P-Tu524 Prospective life cycle assessment on carbon capture and utilization technology to decarbonise the steel and fertilizer industry | **Anne Ottenbros**, Radboud University, Netherlands

5.07.P-Tu525 Regionalized environmental burden-shifting from strategic metals supply for the energy transition: a prospective life cycle assessment | **Anne de Bortoli**, Montreal Polytechnic, Canada

5.07.P-Tu526 A review of the application of Life Cycle Assessment in hydrogen and alternative carbon source integration in Electric Arc Furnace based steel manufacturing | **Nethmi Kankanamge Dona**, Leiden University, Netherlands

P-Tu | Tuesday Poster Presentations

5.07.P-Tu527 Beyond Lifecycle Assessment: cross-disciplinary methodologies to address challenges with environmental impact measures | **Alana James**, Northumbria University, United Kingdom

5.07.P-Tu528 Dynamic-Prospective Life Cycle Assessment using Time-Explicit Life Cycle Inventory: Methodology and Implementation | **Timo Diepers**, RWTH Aachen University, Germany

5.07.P-Tu529 Handling Multifunctionality in Prospective Life Cycle Assessment – a Systematic Framework | **Leon Zacharopoulos**, University Duisburg-Essen (Uni DUE), Germany

5.07.P-Tu530 Harnessing Machine Learning To Forecast Environmental Futures – Tomorrow's Waterscapes | **Niklas Engberg**, Delft University of Technology, Netherlands

Science-Policy Dialogue on Per- And Polyfluoroalkyl Substances (PFASs) Towards a PFAS-Free Future: Latest Development and Future Needs | Ian Cousins, Zhanyun Wang, Jordi Dachs

6.12.P-Tu531 Understanding Perfluoropolyethers and Their Life Cycle | **Zhanyun Wang**, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland

6.12.P-Tu532 Emission inventory of PFAS and other fluorinated organic substances for the fluoropolymer production industry in Europe | **Joost Dalmijn**, Stockholm University, Sweden

6.12.P-Tu533 Are Analysis-of-Alternative Methods Suitable for Per- and Polyfluoroalkyl Substances (PFAS) under REACH? | **Rachel Lucy London**, ETH Zurich, Switzerland

6.12.P-Tu534 Exploring the Presence of Per- And Polyfluoroalkyl Substances (PFAS) in Dutch Surface Waters | **Sanne Brekelmans**, The Water Laboratory, Netherlands

6.12.P-Tu535 Alternatives to the use of per- and polyfluoroalkyl substances (PFAS) in the electrodes and electrolytes of lithium-ion batteries (LIBs) | **Eleni Savvidou**, Stockholm University, Sweden

6.12.P-Tu536 Trade-Offs Between Climate and Perfluoroalkyl Carboxylic Acid Formation: Is it Possible to Minimize Both Global Warming Potential and Persistent Products in F-gases? | **Cora Young**, York University, Canada

6.12.P-Tu537 Assessing the Destruction and Gaseous Carry-over of PFAS during Hydrothermal Carbonization (HTC) of Sewage Sludge | **Emma Knight**, Norwegian Institute for Water Research (NIVA), Norway

One Health Approach: PFAS Exposure in Wildlife and Shared Health Risks Across Species Including Humans | Alexis Temkin, Scott Belcher, Patricia Fair, Dorte Herzke

7.03.P-Tu538 Striped Dolphins as Bioindicators: Tracing Per- and Polyfluoroalkyl Substances Pollution in the North West Mediterranean Over Three Decades | **Pere Colomer Vidal**, Institute of Organic Chemistry, Spanish National Research Council (IQOG-CSIC), Spain

7.03.P-Tu539 A comprehensive analysis of PFAS change points in humans and the environment using archived samples from Germany | **Alexander Badry**, German Environment Agency (UBA), Germany

7.03.P-Tu540 Do Per- and Polyfluoroalkyl Substances (PFASs) and Other Pollutants Threaten Shorebirds Inhabiting Artificial Wetlands? | **Veerle Jaspers**, Norwegian University of Science & Technology (NTNU), Norway

7.03.P-Tu541 Gene Expression of Mitochondrial Antioxidant Enzymes in a Freshwater Fish Species (Squalius Cephalus) Exposed to Environmental Concentrations of Pfas in the Veneto Region. | **Sara Pacchini**, University of Padova, Italy

7.03.P-Tu542 Mapping PFAS Distribution in Flanders, Belgium: Results of an Extensive Aquatic Monitoring Campaign | **Nathalie Briels**, ARCHE Consulting, Belgium

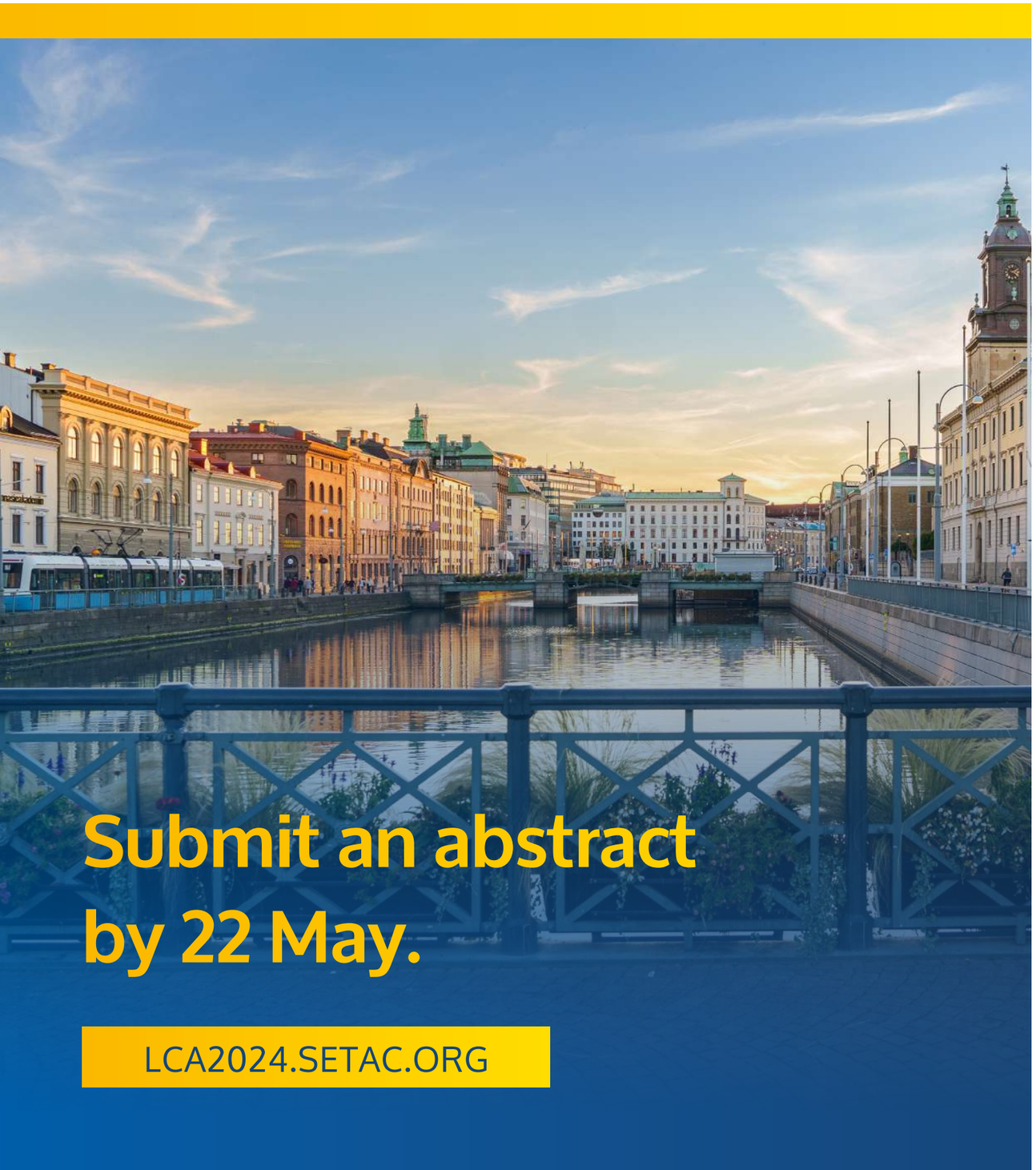
7.03.P-Tu543 Toxicity assessment of per- and polyfluoroalkyl substances (PFAS) with varying chain lengths on Daphnia magna and Allivibrio fisheri. | **Sara Villa**, University of Milano-Bicocca, Italy

7.03.P-Tu544 Hepatic concentrations of per- and polyfluoroalkyl substances (PFAS) in dolphins from south-east Australia: Highest reported globally | **Chantel Foord**, RMIT University, Australia

SETAC Europe 26th LCA Symposium

21–23 October 2024 | Gothenburg, Sweden

SWEDISH LIFE CYCLE CENTER



WEDNESDAY SCHEDULE		
09:00–18:00	Badge Pick-up & Registration & Cloackroom	Outside Ramp (Registration Area)
09:00–18:00	Speaker Ready Room Open	Secretaria 1
09:00–09:30	Poster Setup	
09:30–10:50	**Presentation Sessions**	
10:50–11:35	Coffee & Poster Break	Exhibition Areas
11:35–12:55	**Presentation Sessions**	
12:00–13:30	Student Advisory Council General Assembly	Press Room
12:55–14:25	Lunch & Poster Break	Exhibition Areas
12:55–14:25	25 Years of Cefic-LRI Research: Lunch – Learn – Network	Club Room
12:55–14:25	Bayer Sponsored Lunch Seminar: Plant Protection Product Spray Drift Exposure and Risk for Off-Crop Non-Target Terrestrial Organisms	Barcelona
12:55–14:25	Safe and Sustainable by Design: How to Reconcile Safety and Sustainability Assessments in the Chemical Industry?	Video Conference Room
12:55–14:25	SETAC Europe Annual General Assembly	TV Room
12:55–14:25	Waters Sponsored Lunch Seminar: The Threatening Four - High-end Analytical Solutions for the Analysis of PFAS, Pesticides, Pharmaceuticals, and Personal Care Products	Varsovia
14:00–15:00	Persistence Science Interest Group Steering Committee Meeting	Secretaria 4
14:25–15:45	**Presentation Sessions**	
15:00–16:30	Regional Branches Committee Meeting	Praga
15:00–17:00	IRISS' Value Chain Perspectives on & Roadmaps for Safe and Sustainable by Design	Club Room
15:45–16:45	Wildlife Toxicology Interest Group Meeting	Barcelona
15:45–16:45	Coffee & Poster Break	Exhibition Areas
16:00–16:45	Poster Corners	Exhibition Areas
16:00–17:30	Effect Modeling Interest Group (SEIGEM) Meeting	Press Room
16:45–17:45	**Plenary: Maura Hiney**	**Auditorium 1**
16:45–17:45	LGBTQIA+ Meet-Up	Video Conference Room
17:00–18:00	Investigating Endocrine Disrupting Properties in Fish and Amphibians: Opportunities to Apply the 3Rs	Varsovia
17:45–18:15	**Poster Social**	**Exhibition Areas**
20:00-23:30	Congress Dinner	Muelle 21 Restaurante

Plenary Speaker

16:45–17:45 | Auditorium 1

(How) Can Policy Initiatives Enhance Research Integrity and Strengthen Research Culture?

Maura Hiney, University College Dublin, Institute for Discovery, Ireland

Dr Maura Hiney has been working with national and European bodies for several years to build a culture where researchers and institutions are more aware of the importance of RI for enhancing trust in science by colleagues, policymakers and the public, through improved quality and reliability of research design, conduct and dissemination.

Maura is an Adjunct Professor at the University College Dublin, focused on the contribution of RI to a healthy research environment. Previously, she was a senior manager at an Irish research funding agency, where she oversaw policy, evaluation, and RI activities. She sits on the Irish National Research Integrity Forum and was instrumental in developing the first National Policy on Ensuring Integrity in Irish Research (updated in 2019 and 2024) and the 2022 Guidelines on Ensuring Integrity in Collaborative Research.

At an international level, she has worked with many groups to develop policies that underpin trust in science, including the European Science Foundation, Science Europe and the ALLEA Permanent Working Group on Science and Ethics, of which she is Chair. She led a significant revision of the European Code of Conduct for Research Integrity in 2017 and a refresh in 2023. This Code underpins many national RI policies, EU Grant Agreements and RI curricular structures. Maura is currently Treasurer of the World Conferences on RI Foundation and Co-chair of the 8th WCRI in Athens in 2024. She is a member of the Embassy of Good Science Foundation Board and sits on several Stakeholder Advisory Boards for EU projects that research RI and ethics issues, including training, harmonisation of guidelines, RI indicators, behavioural interventions, reproducibility and challenges of new and disruptive technologies.

Abstract:

Research integrity plays an essential role in shaping trustworthy outputs and driving innovation. Our understanding of research integrity and its evil twin, research misconduct, is deepening. However, there is still uncertainty about what drives good and poor behaviour and the best policy responses to encourage more of the good and less of the bad. This keynote will look at the problems currently plaguing research integrity and attempts to apply policy remediation to them.

Wednesday 8 May

★ Special Session

14:25–15:45 | Al-Andalus (Fibes 1)

8.04 – Empowering Sustainable Innovations: Leveraging Alternatives Assessment for Safe and Sustainable Design in Practice

Joel Tickner, Colleen McLoughlin, Peter Fantke, Cathy Rudisill

Safe and Sustainable by Design (SSbD) is increasingly gaining attention in various industries as an important element of the European Chemicals Strategy for Sustainability (CSS). Currently, the European Commission is actively engaging stakeholders in testing and developing frameworks for SSbD to ensure that products and processes are created that are inherently safer and more sustainable. However, the implementation of SSbD poses challenges, particularly for small and medium-sized enterprises (SMEs), due to resource and skill constraints. Some have likened SSbD guidance to date as a "textbook" rather than a "guide". In light of these challenges, this session will discuss how Alternatives Assessment (AA) can provide a toolkit and practical examples in industry and policy to further the goals of operationalizing SSbD and advancing Europe's "zero pollution' ambition.

This session will explore how the integration of AA can facilitate SSbD with an overview and case studies from both industrial and policy contexts. The focus will be on how these frameworks can be applied synergistically and practically to enhance product safety, environmental sustainability, and regulatory compliance.

Objectives:

- Provide a clear understanding of both AA and SSbD approaches and how AA can further the goals of operationalizing SSbD.
- Learn about the outcomes and synergies with SETAC CSS Sounding Board Consultations and Workshops
- Understand the importance of AA and SSbD in achieving environmental and public health goals as well as how other key elements of the CSS relate, such as the Essential Use Concept.
- Understand research and methodological needs for AA that can enhance SSbD efforts.
- Provide attendees with practical tools and resources for implementing AA and SSbD in their organizations.
- Understand how AA has been implemented in industry, understanding challenges, successes, and lessons learned.
- Understand how AA has been implemented in policy including challenges, successes, and lessons learned.
- Engage the panel and the audience in discussion that includes perspectives from academia, industry, policy, and a nongovernmental organization.
- Discuss the concept of "essential use" in the context of AA
- Connect the long-standing AA community of practice to the growing SSbD community.

Wednesday Platform Presentations Morning 1

	09:35	09:50	10:05
Auditorium 1	**Beyond Microplastics: Analytics, Environmental Fate and Impacts of (Water-Soluble) Polymers and Biodegradable Polymers | ...**		
	3.07.T-01 Application of standardized methods to evaluate the environmental safety of polyvinyl alcohol disposed of down the drain | **Jennifer Menzies**, Procter & Gamble, United States	**3.07.T-02** Biodegradation of Water-Soluble Polymers by Wastewater Microbiomes: Adapting Laboratory Testing Protocols | **Michael Zumstein**, University of Vienna, Austria	**3.07.T-03** A Systematic Approach for a Holistic Ecotoxicological Assessment Strategy of Polymers from the Laboratory to Field Scale | **Marie Winter**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany
Auditorium 2	**Navigating the Complexity of Plastic Life Cycles: Interdisciplinary Challenges and Advances in Assessing Environmental Impact | ...**		
	5.06.T-01 A Meta-Analysis of LCA Studies and Global Warming Potential on Polylactic Acid | **Claudia Som**, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland	**5.06.T-02** A Life cycle Assessment with microplastic aquatic ecotoxicological impacts included. | **Anna Schwarz**, TNO, Netherlands	**5.06.T-03** Modeling Environmental Impacts of Plastics in Life Cycle Assessment: Effects of Biodegradation | **Felicitas Pellengahr**, Aachen-Maastricht Institute for Biobased Materials, Netherlands
Auditorium 3	**Fish Model Species in Human and Environmental Toxicology** | Maria Christou, Sarah Johann, Fabian Weichert		
	1.07.A.T-01 A Biotechnological Metabolization System has the Potential to Improve the Predictive Ability of the Fish Embryo Acute Toxicity (FET) Test with the zebrafish (Danio rerio) | **Inska Reichstein**, Goethe University Frankfurt, Germany	**1.07.A.T-02** Assessment of the impact of realistic mixtures of plant protection products on Dario rerio | **Ana-Belen Muniz-Gonzalez**, UNED, Spain	**1.07.A.T-03** Use of in vitro Oocyte Maturation Assays to Predict Reproductive Capacity of Fishes | **Steve Wiseman**, University of Lethbridge, Canada
Madrid ABC	**Advances in High Resolution Mass Spectrometry Based Non-targeted Analysis for Exposure Monitoring and Assessment of Human and Environmental Samples | ...**		
	3.03.A.T-01 Automated Prediction of Toxic Chemicals in Complex Mixtures | **Yvonne Kreutzer**, Stockholm University, Sweden	**3.03.A.T-02** A stochastic approach for parameter optimization of feature detection algorithms | **Mohammad Sadia**, University of Amsterdam (UVA), Netherlands	**3.03.A.T-03** A data analysis pipeline integrating ion mobility and high-resolution mass spectrometry for non-target screening in environmental studies | **Sade Julien**, Laboratory of Water, Environment and Urban Systems (LEESU), France
Madrid DEF	**Combining Prospective and Retrospective Soil Risk Assessment - From Predicted Risks Towards Holistic Approaches by Integrating Monitoring Results | ...**		
	6.03.T-01 Concepts to define a "normal operating range (NOR)" for soil biological systems | **Michael Thomas Marx**, Bayer AG - Crop Science Division, Germany	**6.03.T-02** Applying the Pesticide Load Index to characterize ecotoxicological impact from pesticide use in the EU | **Rui Catarino**, European Commission - Joint Research Center (JRC), Italy	**6.03.T-03** Plant Protection Product Residues in Agricultural Soils Across Europe, and the Effect of the Farming System on the Soil Microbiome | **Dennis Knuth**, Wageningen University & Research (WUR), Netherlands
Bruselas	**Science Communication: Reaching Outside of the Scientific Bubble** | Annika Mangold-Döring, Lena Benner, John Daniel Hader, David Mennekes		
	6.10.T-01 A Decade of Science Communication on Food Contact Chemicals: Approaches and Learnings | **Joel Scheuchzer**, Food Packaging Forum, Switzerland	**6.10.T-02** Science Communication as a Tool to Recruit the Next Generation of Scientists | **Rozarka Jilkova**, Masaryk University, Czech Republic	**6.10.T-03** Breaking Down Silos Between Science and Communication: U.S. Environmental Protection Agency's Innovative Approach to Research Outreach and Communications | **Esra Mutlu**, U.S. Environmental Protection Agency (US EPA), USA
Paris	**Legacy and Emerging Contaminants in Wildlife: Recent Advancements in Ecotoxicology and Risk Assessment | ...**		
	1.10.A.T-01 Per- and polyfluoroalkyl substances levels and effects in Finnish Waterbirds | **Céline Arzel**, University of Turku, Finland	**1.10.A.T-02** Urban Stressors on Avian Immune Defenses: Impact of pollution on Viral challenge via Poly I:C in great tit and blue tit nestlings | **Shivani Ronanki**, Wageningen University, Netherlands	**1.10.A.T-03** Quantify Exposure Levels of Non-persistent Chemicals in Wildlife from Tissue Concentrations, by Reverse Dosimetry Modelling using PBK-Models | **Bohan Hu**, Wageningen University & Research, Netherlands
Al Andalus (Fibes 1)	**Effect Modelling in Regulatory Science: In the Service of Environmental Risk Assessment and Risk Management?** | Andreas Focks, André Gergs, Sabine Duquesne		
	4.04.T-01 Three Perspectives on Model Calibration for Ecological Risk Assessment | **Nele Schuwirth**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**4.04.T-02** Parameter Estimates Using the GUTS Modelling Framework: Biological or Statistical Reality? | **Annika Mangold-Döring**, Wageningen Environmental Research (WUR), Netherlands	**4.04.T-03** Spatio-temporal coupling of soil exposure modelling with toxicokinetic-toxicodynamic models: a case study based on a field trial | **Kim Rakel**, gaiac - Research Institute for Ecosystem Analysis and Assessment, Germany
Italica (Fibes 1)	**Advancing the Use of Effect-Based Approaches for Water Quality Assessment** | Alvine C Mehinto, Michael Grant Bertram, Beate Escher, William L. Goodfellow		
	1.01.T-01 Use of estrogen receptor cell bioassays to evaluate dietary and aqueous exposure routes to determine the cause of widespread intersex in Largemouth Bass in a waste-water dominated stream. | **Daniel Schlenk**, University of California, Riverside, USA	**1.01.T-02** High-throughput transcriptomics detects reductions in biological activity in MC7 cells after conventional and advanced water treatment processes | **Shane Snyder**, Nanyang Environmental & Water Research Institute, Singapore	**1.01.T-03** Can we use a biosensor to detect water pollution in real-time? Results of a pilot study in the Venice lagoon | **Elisabetta Canuti**, European Commission - Joint Research Centre (JRC), Belgium
Ronda (Fibes 1)	**In Silico Approaches Toward Safer Use and Green Design of Chemicals: Present Achievements and Future Challenges** | Ester Papa, Alessandro Sangion		
	7.02.T-01 Comparative Toxicity of Perfluoroalkyl Substances for Safe-by-Design: Quantitative Adverse Outcome Pathway using Bayesian Network Model | **Jaeseong Jeong**, University of Seoul, Korea, Republic of (South)	**7.02.T-02** First Do No Harm - A Framework for Intelligent Design of Safer Chemicals | **Predrag Petrovic**, Yale University, Center for Green Chemistry and Green Engineering at Yale, USA	**7.02.T-03** The OECD (Q)SAR Assessment Framework for REACH Dossier Evaluation | **Doris Hirmann**, European Chemicals Agency (ECHA), Finland

Wednesday Platform Presentations Morning 1

	10:20	10:35
Auditorium 1	| Glauco Battagliarin, Pippa Kate Curtis-Jackson, Renata Gerhardt, Hans Sanderson	
	3.07.T-04 Analytical Characterisation of Polymers for EU Regulatory Purposes | **Laszlo Majoros**, European Chemicals Agency (ECHA), Finland	**3.07.T-05** Poster spotlight: 3.07.P-Th281, 3.07.P-Th282, 3.07.P-Th283
Auditorium 2	| Michele De Rosa, Susanne M Brander, Anne-Marie Boulay, Christopher Oberschelp	
	5.06.T-04 Environmental assessment of emerging bio-based polymers: Integration of ex-ante and prospective LCA | **Narie Souza**, Norwegian University of Science & Technology (NTNU), Norway	**5.06.T-05** Poster spotlight: 5.06.P-We439, 5.06.P-We440, 5.06.P-We441
Auditorium 3	**Fish Model Species in Human and Environmental Toxicology** | Maria Christou, Sarah Johann, Fabian Weichert	
	1.07.A.T-04 Sperm Quality Characterization of Male Mummichog (Fundulus heteroclitus) in Response to Legacy Urban Contaminants | **Sabine Malik**, University of Maryland, United States	**1.07.A.T-05** Comparison of different fish model species for the assessment of thyroid hormone system disruption | **Lisa Baumann**, Vrije Universiteit Amsterdam, Netherlands
Madrid ABC	| Sarit Kaserzon, Yong-Lai Feng, Alberto Celma	
	3.03.A.T-04 Exposomics meet Quantitative Non-Target Screening: A tool for Semi-quantitative Analysis of Emerging Contaminants in Human biofluids and Tissues | **Ruben Gil-Solsona**, Laboratory of Analytical Chemistry, National and Kapodistrian University of Athens, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Greece, Spain	**3.03.A.T-05** Comprehensive suspect screening workflow for the analysis of xenobiotics and metabolites in human biofluids | **Mikel Musatadi**, Research Centre for Experimental Marine Biology and Biotechnology (PiE-UPV/EHU), Spain
Madrid DEF	| Silvia Pieper, Mireia Marti-Roura, Paola Grenni, Claudia Lima	
	6.03.T-04 Evaluation of the Ecological Risk of Pesticides Residues from the European LUCAS Soil Monitoring 2018 Survey | **Antonio Franco**, European Commission - Joint Research Centre (JRC), Italy	**6.03.T-05** Poster spotlight: 6.03.P-We506, 6.03.P-We507, 6.03.P-We508
Bruselas	**Science Communication: Reaching Outside of the Scientific Bubble** | Annika Mangold-Döring, Lena Benner, John Daniel Hader, David Mennekes	
	6.10.T-04 What Are the Effects of Human Activity on Aquatic Ecosystems: Interdisciplinary Workshop and Hands on Training for Secondary School Students | **Vera Slaveykova**, University of Geneva (UNIGE), Switzerland	**6.10.T-05** Poster spotlight: 6.10.P-We537, 6.10.P-We547, 6.10.P-We548
Paris	| Veerle L. B. Jaspers, Alexander Badry, Elena Adams, Catherine Aubee	
	1.10.A.T-04 EXPOSO-METER: Characterizing the lifelong exposure (exposome) to environmental mixtures of pollutants at high trophic levels in Arctic marine mammals | **Elisa Rojo-Nieto**, Helmholtz Centre for Environmental Research (UFZ), Germany	**1.10.A.T-05** Poster spotlight (A): 1.10.P-We036, .10.P-We037, 1.10.P-We063
Al Andalus (Fibes 1)	**Effect Modelling in Regulatory Science: In the Service of Environmental Risk Assessment and Risk Management?** | Andreas Focks, André Gergs, Sabine Duquesne	
	4.04.T-04 Linking Landscape Models, Field Data and Pesticide Effects Using Normal Operating Ranges (NOR) | **Leonhard Bürger**, Osnabrück University, Germany	**4.04.T-05** xLandscape – A Modular Modelling Framework for Landscape-Level Exposure and Effect Modelling and Risk Characterisation | **Sascha Bub**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany
Italica (Fibes 1)	**Advancing the Use of Effect-Based Approaches for Water Quality Assessment** | Alvine C Mehinto, Michael Grant Bertram, Beate Escher, William L. Goodfellow	
	1.01.T-04 Increasing the Acceptance of Effect-Based Methods for Surface Water Quality Assessment – Results of an Interdisciplinary Workshop | **Gerd Maack**, German Environment Agency (UBA), Germany	**1.01.T-05** Daphnia Magna Behavioural Responses: An Emerging Novel Tool for Effect Direct Analyses of Neuro-Active Substances in Waste Water Treated Effluents | **Irene Romero**, Department of Analytical and Applied Chemistry, School of Engineering, Institut Químic de Sarrià-Universitat Ramon Llull, Spain
Ronda (Fibes 1)	**In Silico Approaches Toward Safer Use and Green Design of Chemicals: Present Achievements and Future Challenges** | Ester Papa, Alessandro Sangion	
	7.02.T-04 In Silico Gut Metabolism Model for Enhancing New Approach Methods (NAMs) towards Safer Use of Chemicals | **Li Li**, University of Nevada, Reno, USA	**7.02.T-05** Poster spotlight: 7.02.P-We551, 7.02.P-We554, 7.02.P-We555

COFFEE & POSTER BREAK

Wednesday Platform Presentations Morning 2

	11:40	11:55	12:10
Auditorium 1	**Polymers and Their Chemicals: Environmental Fate, Hazards, and Risk Assessment** | Cassandra Johannessen, Eric Carmona Martinez, Elisa Rojo-Nieto, Mridula (Babli) Kapur		
	3.21.A.T-01 A Draft Framework for Risk-Based Prioritization & Evaluation of Additives & Polymer-associated Chemistries (APAC) | **Craig Davis**, ExxonMobil Biomedical Sciences, Inc., USA	**3.21.A.T-02** The Role of UV Light on the Aquatic Leaching and Transformation of Plastic Additives | **Frank Menger**, Helmholtz-Zentrum Hereon, Germany	**3.21.A.T-03** Exploring Past and Present Inputs of Organophosphate Ester Plastic Additives in the French Atlantic Coast by Sediment Core Analysis | **Javier Castro-Jiménez**, IFREMER, France
Auditorium 2	**LCA and Beyond – Integrating Sustainability and/or Other Dimensions for a More Informed Decision-Making** | Lucia Rigamonti, Roland Hischier, Giuseppe Cecere, Maria Rydberg		
	5.03.A.T-01 Methodology for the Life Cycle Assessment of Various Process Design Options in Alternative Fuel Production | **Julia Weyand**, University of Stuttgart, Germany	**5.03.A.T-02** Exploring the integration of Risk Assessment and Life Cycle Assessment in the context of the Safe and Sustainable by Design framework | **Elisabetta Abbate**, Radboud University Nijmegen, European Commission Joint Research Centre (JRC), Netherlands, Italy	**5.03.A.T-03** Human toxicity assessment in LCA and as element in Portfolio Sustainability Assessment | **Peter Saling**, BASF SE, Germany
Auditorium 3	**Fish Model Species in Human and Environmental Toxicology** | Maria Christou, Sarah Johann, Fabian Weichert		
	1.07.B.T-01 Adverse Effects on Eye Development of Zebrafish Embryos after Exposure to Tricyclic Antidepressants | **Marwin Jafari**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany	**1.07.B.T-02** How to Assess Thyroid Hormone System Disruption in Zebrafish: A Case Study with Methimazole | **Sina Volz**, University of Southern Denmark, Denmark	**1.07.B.T-03** Early life stage toxicity of radium (226Ra) to three fish species of ecological, cultural, and commercial importance in Canada | **David Janz**, University of Saskatchewan, Canada
Madrid ABC	**Advances in High Resolution Mass Spectrometry Based Non-targeted Analysis for Exposure Monitoring and Assessment of Human and Environmental Samples | ...**		
	3.03.B.T-01 Harnessing Molecular Ions by GC-APCI-IM-HRMS for Simultaneous Target, Suspect, and Nontarget Screening of Hydrophobic Contaminants in Sediments | **Xiaodi Shi**, Stockholm University, Sweden	**3.03.B.T-02** Improved target, suspect- and non-target analysis of environmental contaminants in wastewater using hydrophilic-lipophilic balanced SPME and GC-EI&CI-TOFMS | **Marleen Vetter**, TOFWERK AG, Switzerland	**3.03.B.T-03** Combining Advanced Analytical Methodologies to Describe Extractable Organic Fluorine in Human Serum | **Lara Cioni**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), UiT - The Arctic University of Norway, Norwegian Institute for Air Research (NILU), Spain, Norway
Madrid DEF	**Understanding, Detection, Monitoring, and Management of Harmful Algal Blooms (HABs) and Biotoxins for a Safer Environment and Public Health | ...**		
	4.14.T-01 Abundance and Co-variation of Toxins and Secondary Metabolites from Cyanobacteria of 4-year Lake Study | **Xuejian Wang**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**4.14.T-02** Genetic and Metabolic Diversity of Cyanobacteria and Their Toxins on Rock-water Interfaces in Mountain Habitats | **Juliana Oliveira**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**4.14.T-03** Zebrafish Larvae Exposed to BMAA and Isomers DAB and AEG: A Morphological and Behavioural Study | **Jeanne Lichtfouse**, University of Nimes, France
Bruselas	**Hazards, Risks, and Management of Soil Ecosystems for Sustainable and Environmental Conservation** | Agnes Schimera, Ricardo Petersen		
	4.06.A.T-01 Influence of soil properties in lower tier tests. Is an assessment factor based uniquely on Organic Carbon sufficiently protective? | **Tiago Natal da Luz**, University of Coimbra, CloverStrategy Lda, Portugal	**4.06.A.T-02** The Influence of Soil Organic Matter Content on the Toxicity of Pesticides to Soil Invertebrates | **Bart van Hall**, Vrije University Amsterdam, Netherlands	**4.06.A.T-03** Effect or no effect? The normal operating range of the abundance of soil organisms in ecotoxicological field studies | **Agnes Schimera**, ADAMA Deutschland GmbH, Germany
Paris	**Legacy and Emerging Contaminants in Wildlife: Recent Advancements in Ecotoxicology and Risk Assessment | ...**		
	1.10.B.T-01 Pesticide contamination in bats: a case study on Greater Mouse-eared Bat in an agricultural and natural area in Southern Poland | **Olha Timofieieva**, Jagiellonian University, Poland	**1.10.B.T-02** Calibration of mechanistic effect models for amphibians - challenges and solutions | **Simon Hansul**, Osnabrück University, Germany	**1.10.B.T-03** Selenium accumulation and effects on freshwater turtle species from Tablas de Daimiel National Park (Spain) | **María Andres**, Institute for Game and Wildlife Research, IREC (UCLM-CSIC), Spain
Al Andalus (Fibes 1)	**Safe and Sustainable by Design Advanced Materials: What Does It Take?** | Irantzu Garmendia Aguirre, Carla Caldeira		
	7.04.T-01 Comparative Analysis between Tier 1 SSbD (Safe and Sustainable by Design) approach and Early4Ad-Ma | **Arianna Livieri**, Ca' Foscari University of Venice, Italy	**7.04.T-02** Holistic Design Methodology for Circularity adapted to the SSbD framework | **Carolina González**, Fundació EURECAT, Spain	**7.04.T-03** Life Cycle Safety and Sustainability Assessment of Innovative Solutions for Art Restoration | **Martina Menegaldo**, Ca' Foscari University of Venice, Italy
Italica (Fibes 1)	**Complex Mixtures of Chemicals in the Environment and the Human and Eco-Exposome – Next Generation Monitoring (NGM), Toxicity Driver and Source Tracking to ...**		
	3.09.A.T-01 Feature Tracking in NTS: Staying In Touch With The Unknown | **Geert Franken**, Het Waterlaboratorium, Netherlands	**3.09.A.T-02** Cross-laboratory Non-Target Screening in an International River Catchment – the Case for Monitoring the Rhine River and its Tributaries in Real-Time | **Martin Loos**, enviBee, Switzerland	**3.09.A.T-03** Development and Application of Non-Target and Suspect Screening for Environmental Chemical Regulatory Purposes in the United Kingdom | **Emmelianna Kumar**, Environment Agency United Kingdom, United Kingdom
Ronda (Fibes 1)	**Advances in Exposure Modelling to Inform Science-Based Environmental Solutions** | Joris T.K. Quik, Sam Harrison, Antonia Praetorius, Stephen Lofts		
	3.02.A.T-01 Quantification and mapping of tyre wear emissions: from EU regional analysis to global projections | **Yichen Sun**, Radboud University Nijmegen, Netherlands	**3.02.A.T-02** Application of the Abrasion Coefficient as Measure for Tyre Wear and Microplastics Emission Modelling | **Joris Quik**, National Institute for Public Health and the Environment (RIVM), Netherlands	**3.02.A.T-03** Mapping emerging contaminants in sewage sludge treatments: Occurrence, degradation, and fate | **Francesco Cherubini**, Norwegian University of Science & Technology (NTNU), Norway

Wednesday Platform Presentations Morning 2

	12:25	12:40
Auditorium 1	**Polymers and Their Chemicals: Environmental Fate, Hazards, and Risk Assessment** | Cassandra Johannessen, Eric Carmona Martinez, Elisa Rojo-Nieto, Mridula (Babli) Kapur	
	3.21.A.T-04 Current Levels of Microplastic Pollution Impact Wild Seabird Gut Microbiomes | **Gloria Fackelmann**, Ulm University, University of Trento, Germany, Italy	**3.21.A.T-05** Effects of Di-Butyl Phthalate and Di-Ethyl-Hexyl Phthalate at Environmental Doses on Health and Development of Bombus terrestris Microcolonies | **Justine Dewaele**, Université de Lille, France
Auditorium 2	**LCA and Beyond – Integrating Sustainability and/or Other Dimensions for a More Informed Decision-Making** | Lucia Rigamonti, Roland Hischier, Giuseppe Cecere, Maria Rydberg	
	5.03.A.T-04 Integrating nutritional aspects and planetary boundaries in food LCA | **Merja Saarinen**, Natural Resources Institute Finland (Luke), Finland	**5.03.A.T-05** Poster spotlight (A): 5.03.P-We400, 5.03.P-We420, 5.03.P-We428
Auditorium 3	**Fish Model Species in Human and Environmental Toxicology** | Maria Christou, Sarah Johann, Fabian Weichert	
	1.07.B.T-04 2,2',4,4'-Tetrabromodiphenyl Ether Causes Depression-like Effects in Zebrafish Larvae via a Non-image-forming Visual Mechanism | **Miao Cao**, Tongji University, China	**1.07.B.T-05** Poster spotlight: 1.07.P-Th020, 1.07.P-Th021, 1.07.P-Th022
Madrid ABC	| Sarit Kaserzon, Yong-Lai Feng, Alberto Celma	
	3.03.B.T-04 Wide-Scope and Nontarget Screening of Persistent Anthropogenic Chemicals in Swedish Waters using Feature-Based Molecular Libraries | **May Britt Rian**, Stockholm University, Sweden	**3.03.B.T-05** Target, suspect and nontarget screening of contaminants in indoor dust with SUPRAS sample preparation | **Ana Ballesteros-Gómez**, University of Córdoba (Spain), Spain
Madrid DEF	| Javier Moreno-Andrés, James M. Lazorchak, Sandra Lage, Marisa Sarria Pereira de Passos	
	4.14.T-04 Spatiotemporal Distribution and Driving Mechanisms of Algal Toxins and Their Producers in Hong Kong Coastal Waters | **Li Zhang**, The Hong Kong Polytechnic University, Hong Kong (China)	**4.14.T-05** Mixtures of Organic Micropollutants Exacerbated the In Vitro Human Neurotoxicity of Prymnesins and Contributed to Aquatic Toxicity During a Massive Fish kill in the Oder River in 2022 | **Beate Escher**, Helmholtz Center for Environmental Research (UFZ), Germany
Bruselas	**Hazards, Risks, and Management of Soil Ecosystems for Sustainable and Environmental Conservation** | Agnes Schimera, Ricardo Petersen	
	4.06.A.T-04 Intermediate Tier Risk Assessment of Plant Protection Products for Soil Invertebrates - Where do we stand? | **Gregor Ernst**, Bayer AG - Crop Science Division, Germany	**4.06.A.T-05** Bioaccumulation and mixture toxicity effects of organic pollutants are highly dependent on soil type and test species | **Jonas Fischer**, University of Bremen, Germany
Paris	| Veerle L. B. Jaspers, Alexander Badry, Elena Adams, Catherine Aubee	
	1.10.B.T-04 ELSATA: Update on a Thyroid-Focused Alternative to the Larval Amphibian Growth and Development Assay (LAGDA) | **Lennart Weltje**, BASF SE, Germany	**1.10.B.T-05** Poster spotlight (B): 1.10.P-We038, 1.10.P-We039, 1.10.P-We040
Al Andalus (Fibes 1)	**Safe and Sustainable by Design Advanced Materials: What Does It Take?** | Irantzu Garmendia Aguirre, Carla Caldeira	
	7.04.T-04 Application of the SSbD framework to biocidal nanocoatings: gaps and steps towards its implementation | **Merve Tunali**, Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland	**7.04.T-05** Poster spotlight: 7.04.P-We565, 7.04.P-We566, 7.04.P-We567
Italica (Fibes 1)	**... Meet Regulatory Needs** | Werner Brack, Juliane Hollender, Iker Alvarez-Mora, Beate Escher	
	3.09.A.T-04 The innovative pull-down approach as an efficient tool for the identification of endocrine-disrupting compounds in environmental mixtures | **Petra Mikusova**, RECETOX, Masaryk University, Czech Republic	**3.09.A.T-05** Chemicals with Evidence for Presence in Humans and in Food Packaging | **Birgit Geueke**, Food Packaging Forum Foundation, Switzerland
Ronda (Fibes 1)	**Advances in Exposure Modelling to Inform Science-Based Environmental Solutions** | Joris T.K. Quik, Sam Harrison, Antonia Praetorius, Stephen Lofts	
	3.02.A.T-04 Assessment of Wood Preservative Emission Scenarios | **Kevin Rader**, Mutch Associates, LLC, USA	**3.02.A.T-05** Model Development for Assessing the Impact of Accidental Radioactive Releases into the Meuse River-Campine Canal | **Amit Ravindra Patil**, Belgian Nuclear Research Centre (SCK CEN), Catholic University of Louvain (UCLouvain), Belgium

LUNCH & POSTER BREAK

Wednesday Platform Presentations Afternoon

	14:30	14:45	15:00
Auditorium 1	**Polymers and Their Chemicals: Environmental Fate, Hazards, and Risk Assessment** | Cassandra Johannessen, Eric Carmona Martinez, Elisa Rojo-Nieto, Mridula (Babli) Kapur		
	3.21.B.T-01 Recycled Polyethylene: A Closer Look at Chemical Complexity and Environmental Consequences | **Eric Carmona Martinez**, University of Gothenburg, Helmholtz Centre for Environmental Research (UFZ), Sweden, Germany	**3.21.B.T-02** Effect-Directed Analysis of Endocrine Disruptors in Plastic Food Packaging | **Sarah Stevens**, Norwegian University of Science and Technology (NTNU), Norway	**3.21.B.T-03** Translating the hazards of additives in plastic mulch films to the risk of release | **Michaela Reay**, Organic Geochemistry Unit, School of Chemistry, University of Bristol, United Kingdom
Auditorium 2	**LCA and Beyond – Integrating Sustainability and/or Other Dimensions for a More Informed Decision-Making** | Lucia Rigamonti, Roland Hischier, Giuseppe Cecere, Maria Rydberg		
	5.03.B.T-01 Evaluating biofuel alternatives for passenger transportation through sustainability indicators | **Richard Emmanuel Cabrera**, Departament d'Enginyeria Química, Universitat Rovira i Virgili, Spain	**5.03.B.T-02** Is Corporate Growth Sabotaging Sustainability Goals? A Case Study of Photochromic Textiles | **Kamal Kamali**, University of Bordeaux, France	**5.03.B.T-03** Societal Life Cycle Costing for the definition of eco-design requirements of products: a methodological proposal | **Chiara Magrini**, European Commission - Joint Research Centre (JRC), Spain
Auditorium 3	**Omics Beyond Transcriptomics: Leveraging Proteomics and Metabolomics to Improve Mechanistic Understanding of Responses to Environmental Stressors | ...**		
	1.12.T-01 Metabolomics response kinetics of a periphytic community to mixture of pesticides to unravel short term molecular mechanisms involved in long term structural and functional impairment | **Nicolas Creusot**, Plateforme Bordeaux Metabolome, INRAE UR EABX, Cestas, France, France	**1.12.T-02** Poster spotlight (I): 1.12.P-We077, 1.12.P-We078, 1.12.P-We079	**1.12.T-03** Xenometabolome of Early Life Stage Rainbow Trout Exposed to 6PPD-quinone | **Phillip Ankley**, University of Saskatchewan, Canada
Madrid ABC	**Passive Sampling: Analysis, Transport, Fate and Monitoring of Persistent, Mobile and Toxic Substances in the Environment** | Emma Knight, Branislav Vrana, Sarit Kaserzon		
	3.19.T-01 Passive Samplers Followed Mass Spectrometric Techniques for an Efficient Evaluation of Honey Bee Chemical Exposome | **Amadeo Fernández-Alba**, University of Almería, Spain	**3.19.T-02** Identifying persistent, mobile and toxic (PMT), and very persistent and very mobile (vPvM) substances in stormwater systems using passive samplers | **Fabienne Maire**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**3.19.T-03** Passive sampling calibration for persistent and mobile chemicals | **Emma Knight**, Norwegian Institute for Water Research (NIVA), Norway
Madrid DEF	**Environmental Toxicology and Chemistry in Africa: Exchanging Knowledge and Progress on Tackling Legacy and Emerging Pollutants | ...**		
	6.04.T-01 Learnings From the Environmental Pollution Programme in South Africa: Building a Legacy To Manage and Mitigate the Impacts of Pollution | **Isabella Gosetto**, Joint Nature Conservation Committee (JNCC), United Kingdom	**6.04.T-02** Tackling Diaper Pollution: Enhancing Soil Moisture, Biomass Accumulation, and Growth Patterns of Napier Fodder through Entrenched Diapers and Biochar in a Degraded South African Landscape | **Ayanda Shandu**, University of KwaZulu-Natal (UKZN), South Africa	**6.04.T-03** Sustainable Waste Management in Ghana: An In-depth Analysis of the Dompoase Landfill Site and Its Implications for Community Development and Perceived Health risk | **Frank Tandoh**, Kwame Nkrumah University of Science and Technology, Ghana
Bruselas	**Hazards, Risks, and Management of Soil Ecosystems for Sustainable and Environmental Conservation** | Susana Loureiro, Kate Schofield, Chioma Blaise Chikere		
	4.06.B.T-01 Turning Recovered Steel Cleansing Wastes into a Circular Economy Soil Product – A Seasonal Monitoring of Harmful Substances | **Daniel Niepsch**, Manchester Metropolitan University, United Kingdom	**4.06.B.T-02** Methodology and Tools to Promote the Reuse of Excavated Soils in France | **Noémie Dubrac**, French Geological Survey (BRGM), France	**4.06.B.T-03** Functional versus compositional tests in the risk assessment of the impacts of chemicals on the soil microbiome | **Christopher Sweeney**, Syngenta, United Kingdom
Paris	**Bird and Mammal Risk Assessment: Implementation of New Approaches for the Study of Higher-Level Effects in Wildlife Toxicology | ...**		
	6.01.T-01 Redefining the Terrestrial Vertebrates Risk Assessment: A Paradigm Shift Towards Next-Generation Approaches for Agrochemicals. | **Ana Fernandez Agudo**, National Environmental Health Centre. Instituto de Salud Carlos III (ISCIII), Spain	**6.01.T-02** Think Twice Before You Chose Your Study Site – Identification of Focal Species Study Areas Under the Revised Birds and Mammals Guidance Document | **Anja Russ**, tier3 solutions GmbH, Germany	**6.01.T-03** Seed treatment risk assessment scheme in the 2023 EFSA GD for birds and mammals: review and impact assessment | **Dennis Sprenger**, Corteva Agriscience™, Germany
Al Andalus (Fibes 1)	**★Empowering Sustainable Innovations: Leveraging Alternatives Assessment for Safe and Sustainable Design in Practice | ...**		
	14:30	**14:40**	**14:48**
	8.04.T-01 Methodological Needs and Opportunities between Alternatives Assessment and Safe and Sustainable by Design | **Kerstin von Borries**, Technical University of Denmark (DTU), Denmark	**8.04.T-02** Overview of Results of the SETAC High Level Round Table Sounding Board Consultations on Safe and Sustainable by Design | **Annegaaike Leopold**, ibacon GmbH, Germany	**8.04.T-03** Collaborative Innovation for Sustainability: Steering Early-Stage Chemical Development with the Safe and Sustainable by Design Framework | **Josse Moerman**, Apeiron-Team, Belgium
Italica (Fibes 1)	**Complex Mixtures of Chemicals in the Environment and the Human and Eco-Exposome – Next Generation Monitoring (NGM), Toxicity Driver and Source Tracking to Meet ...**		
	3.09.B.T-01 Advanced High- Throughput Effect-Directed Analysis (HT-EDA) Workflow for the Identification of Androgenic Compounds | **Iker Alvarez-Mora**, Helmholtz Centre for Environmental Research (UFZ), Centre for Experimental Marine Biology and Biotechnology (PiE-UPV/EHU), Germany, Spain	**3.09.B.T-02** Effect-Directed Analysis in Human Serum Samples - the Challenges of Dealing with Endogenous Molecules | **Maria Margalef**, Vrije Universiteit Amsterdam, Netherlands	**3.09.B.T-03** Identification of AhR and ER agonists in eggs of black-tailed gulls in the West Sea Coast of Korea using effect-directed analysis | **Jihyun Cha**, Chungnam National University, Korea, Republic of (South)
Ronda (Fibes 1)	**Advances in Exposure Modelling to Inform Science-Based Environmental Solutions** | Joris T.K. Quik, Sam Harrison, Antonia Praetorius, Stephen Lofts		
	3.02.B.T-01 Antibiotics Pollution in the Three Gorges Reservoir Area: Current Status and Risk Analysis | **Shiyang Li**, Wageningen University & Research (WUR), Netherlands	**3.02.B.T-02** Mapping the Risk of Ciprofloxacin in European Water Bodies: Incorporating the Impact of Bioavailability | **Qiyun Zhang**, Ghent University - GhEnToxLab, Belgium	**3.02.B.T-03** Nano- and microplastic particles as vectors of exposure for plastic additive chemicals: Exploring the human health implications through the use of a multimedia food web model | **Todd Gouin**, TG Environmental Research, United Kingdom

Wednesday Platform Presentations Afternoon

	15:15	15:30
Auditorium 1	**Polymers and Their Chemicals: Environmental Fate, Hazards, and Risk Assessment** | Cassandra Johannessen, Eric Carmona Martinez, Elisa Rojo-Nieto, Mridula (Babli) Kapur	
	3.21.B.T-04 Occurrence of novel polymer additives in house dust and its association with allergic diseases | **Mauricius Marques dos Santos**, Nanyang Environment & Water Research Institute (NEWRI), Singapore	**3.21.B.T-05** Hazard Assessment of 6PPD-quinone Across Fishes of Commercial, Cultural, and Ecological Importance | **Markus Hecker**, University of Saskatchewan, Canada
Auditorium 2	**LCA and Beyond – Integrating Sustainability and/or Other Dimensions for a More Informed Decision-Making** | Lucia Rigamonti, Roland Hischier, Giuseppe Cecere, Maria Rydberg	
	5.03.B.T-04 Sustainability Assessment Framework for Innovative Technologies in Agriculture - Application to Algae Production as Alternative Feedstuff | **Melanie Douziech**, Agroscope, Switzerland	**5.03.B.T-05** Poster spotlight (B): 5.03.P-We401, 5.03.P-We423, 5.03.P-We433
Auditorium 3	| Ksenia J Groh, PhD, Denina B.D. Simmons, Nikolai Huwa	
	1.12.T-04 Phosphoproteomics-Based Investigation of the mTOR Pathway Signalling Reveals its Role in Mediation of Chemical Effects on Fish Cell Culture Growth | **Ksenia Groh**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland	**1.12.T-05** Poster spotlight (II): 1.12.P-We080, 1.12.P-We081, 1.12.P-We082
Madrid ABC	**Passive Sampling: Analysis, Transport, Fate and Monitoring of Persistent, Mobile and Toxic Substances in the Environment** | Emma Knight, Branislav Vrana, Sarit Kaserzon	
	3.19.T-04 Combination of Passive Samplers, Bioassays and Nontargeted Screening as a Tool for a Decision Making | **Roman Grabic**, University of South Bohemia in Ceske Budejovice, Faculty of Fisheries and Protection of Waters, Czech Republic	**3.19.T-05** Poster spotlight: 3.19.P-We190, 3.19.P-We191, 3.19.P-We192
Madrid DEF	| Tarryn Lee Botha, Iseult Lynch, Jon S McCosh, Jason Weeks	
	6.04.T-04 The utility of environmental monitoring in understanding the recovery of estuarine habitats subjected to chronic and acute stressors: the case of the uMhlanga estuary in South Africa | **Mzamo Mnikathi**, Institute of Natural Resources (INR), South Africa	**6.04.T-05** Poster spotlight: 6.04.P-We516, 6.04.P-We517, 6.04.P-We518
Bruselas	**Hazards, Risks, and Management of Soil Ecosystems for Sustainable and Environmental Conservation** | Susana Loureiro, Kate Schofield, Chioma Blaise Chikere	
	4.06.B.T-04 Disaggregation behavior in the terrestrial isopod Porcellionides pruinosus as a new ecotoxicological endpoint for assessing infochemical disrupting activity | **Lorenzo Federico**, Department of Applied Science And Technology (DISAT), Italy	**4.06.B.T-05** Importance of Heat Stress in the Risk Assessment of Pesticides for Soil Arthropods | **Micha Wehrli**, University of Gothenburg, Sweden
Paris	| Rafael Mateo, Stephanie Tokar, Suzane Qassim, Apostolos Koutsaftis	
	6.01.T-04 Modulatory Effects of Aquatic Resources on Neonicotinoid-Induced Developmental Toxicity in Tree Swallows (Tachycineta bicolor) | **Christy Morrissey**, University of Saskatchewan, Canada	**6.01.T-05** Poster spotlight: 6.01.P-We462, 6.01.P-We463, 6.01.P-We464
Al Andalus (Fibes 1)	★ | Joel Tickner, Colleen McLoughlin, Peter Fantke, Catherine A Rudisill	
	14:56	**15:04** / **15:10** / **15:40**
	8.04.T-04 Government Efforts towards Safer Alternatives: Examples from Washington State | **Saskia VanBergen**, Washington State Department of Ecology, USA	**8.04.T-05** What is Needed to Hasten Innovation Towards Inherently Safe and Sustainable Chemicals, Materials, Products and Processes. NGO Perspective | **Tatiana Santos**, European Environmental Bureau, Belgium / **8.04.T-06** Interactive Q&A and Group Discussion / **8.04.T-07** Concluding Remarks
Italica (Fibes 1)	**... Regulatory Needs** | Werner Brack, Juliane Hollender, Iker Alvarez-Mora, Beate Escher	
	3.09.B.T-04 A Data-Derived Reference Mixture Representative of European Wastewater Treatment Plant Effluents to Complement Mixture Assessment | **Liza-Marie Beckers**, German Federal Institute of Hydrology (BfG), Germany	**3.09.B.T-05** Predicting, diagnosing and reducing biodiversity impacts of chemical pollution in surface waters | **Leo Posthuma**, Radboud University, National Institute for Public Health and the Environment (RIVM), Netherlands
Ronda (Fibes 1)	**Advances in Exposure Modelling to Inform Science-Based Environmental Solutions** | Joris T.K. Quik, Sam Harrison, Antonia Praetorius, Stephen Lofts	
	3.02.B.T-04 Exposure Modelling Approaches to Support Environmental Decision-Making in Multiple Contexts: A Review of Select Case Examples at the U.S. EPA | **Lindsay Stanek**, U.S. Environmental Protection Agency, USA	**3.02.B.T-05** Power to the (usage) data – opportunities and limitations of model-based emission estimation for environmental exposure assessment of chemicals | **Caterina Zillien**, Radboud University, Netherlands

COFFEE & POSTER BREAK

Schedule

Setup	9:00–9:30
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	18:15–18:45
Poster Corners	16:00–16:45

Late-Breaking Science Posters

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

Poster Corners

Advancing the Use of Effect-Based Approaches for Water Quality Assessment | Alvine C Mehinto, Michael Grant Bertram, Beate Escher, William L. Goodfellow

Poster Corner 1 (Floor 1)

1.01.P-We001, 1.01.P-We002, 1.01.P-We003, 1.01.P-We004, 1.01.P-We009

Exploring Long-Term Ecological Impacts: From Epigenetic Biomarkers to Multigenerational Genomic Effects of Environmental Contaminants | Joana Luisa Pereira, Som Niyogi, Laia Navarro-Martin, Ramji Bhandari

Poster Corner 2 (Floor 1)

1.06.P-We023, 1.06.P-We024, 1.06.P-We025, 1.06.P-We026, 1.06.P-We027, 1.06.P-We031

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

Poster Corner 3 (Floor 1)

2.06.P-We099, 2.06.P-We100, 2.06.P-We101, 2.06.P-We102, 2.06.P-We103

Polymers and Their Chemicals: Environmental Fate, Hazards, and Risk Assessment | Cassandra Johannessen, Eric Carmona Martinez, Elisa Rojo-Nieto, Mridula (Babli) Kapur

Poster Corner 4 (Floor 1)

3.21.P-We206, 3.21.P-We207, 3.21.P-We208, 3.21.P-We209, 3.21.P-We217, 3.21.P-We218

Characterization, Testing and Assessment of Complex Substances (MCS, UVCBs & MOCS) | Delina Lyon, Philipp Mayer, Christopher Hughes

Poster Corner 5 (Floor 1)

4.03.P-We280, 4.03.P-We281, 4.03.P-We282, 4.03.P-We283, 4.03.P-We284, 4.03.P-We288

Progress Into Monitoring and Assessing Risks of Antimicrobials and Antimicrobial Resistance in the Environment | Joanne Elmoznino, Edward Topp, Laura Carter

Poster Corner 6 (Floor 3)

4.10.P-We367, 4.10.P-We368, 4.10.P-We369, 4.10.P-We370, 4.10.P-We371, 4.10.P-We372

LCA and Beyond – Integrating Sustainability and/or Other Dimensions for a More Informed Decision-Making | Lucia Rigamonti, Roland Hischier, PhD, Giuseppe Cecere, Maria Rydberg

Poster Corner 7 (Floor 3)

5.03.P-We402, 5.03.P-We403, 5.03.P-We404, 5.03.P-We405, 5.03.P-We406, 5.03.P-We407

Can Science Help to Respond to the Regulatory Challenge to Demonstrate the Safe Use of Chemicals for Combined Toxicity in the Environment? | Hugo Waeterschoot, Joop De Knecht, Karel De Schamphelaere, Marnix Vangheluwe

Poster Corner 8 (Floor 3)

6.02.P-We490, 6.02.P-We491, 6.02.P-We494, 6.02.P-We499, 6.02.P-We500

Poster Sessions

POSTER AREA 1

Advancing the Use of Effect-Based Approaches for Water Quality Assessment | Alvine C Mehinto, Michael Grant Bertram, Beate Escher, William L. Goodfellow

1.01.P-We001 Application of a bioassay battery to assess water quality in 15 Swiss watercourses | **Cornelia Kienle**, Swiss Centre for Applied Ecotoxicology, Switzerland

1.01.P-We002 How land-use influences aquatic ecotoxicity | **Delia Hof**, Goethe University Frankfurt, Germany

1.01.P-We003 Evaluation of disinfection by-products (DBPs) and related water sources using a panel of effect-based bioassays | **Peter Behnisch**, BioDetection Systems BV (BDS), Netherlands

1.01.P-We004 Complementary Chemical Screening + Bioassay Approach for Monitoring Water Quality: Presentation of a Case Study | **Jonathan Coulmin**, Veolia Group, France

1.01.P-We005 Implementing effects-based monitoring strategy to assess water quality in California waterbodies | **Alvine Mehinto**, Southern California Coastal Water Research Project (SCCWRP), USA

1.01.P-We006 Effect-based assessment: Seasonal differences in streams | **Delia Hof**, Goethe University Frankfurt, Germany

1.01.P-We007 How Much Do Commonly Monitored Organic Contaminants Explain Species-Specific In Vitro Toxicity of Seawater? | **Xintong Liu**, Hong Kong Polytechnic University, Hong Kong (China)

1.01.P-We008 "Chemical characterization and genotoxic assesment of treated and untreated municipal wastewater from WWTPs of Las Palmas de Gran Canaria (Spain) and Mahdia (Tunisie) cities" | **Ludovit Schreiber**, University of Las Palmas de Gran Canaria (ULPGC), Spain

1.01.P-We009 Assessing Estrogenic Activity in Complex Environmental Matrices: The Impact of Organic Matter and Suspended Particulate Material on the Yeast Estrogen Screen | **Allan Argolo**, Universidade do Estado do Rio de Janeiro - UERJ, Brazil

1.01.P-We010 Water fleas as a "canary in the coal mine" to early predict water pollution | **Konstantinos Grintzalis**, Dublin City University (DCU), Ireland

1.01.P-We012 Biological activities of antidepressants and G protein-coupled receptors (GPCRs)-acting pharmaceuticals to monoamine transporters of human, fish, and water flea | **Masaru Ihara**, Kochi University,

1.01.P-We013 Application of gene expression biomarkers in brown trout, Salmo trutta, to assess water quality in 10 Swiss watercourses | **Anne-Sophie Voisin**, Swiss Centre for Applied Ecotoxicology, Switzerland

1.01.P-We014 The Adaptability of Fish Defense Mechanisms Against Anthrophogenic Environmental Pollution | **Vladimír Žlábek**, University of South Bohemia in Ceske Budejovice, Faculty of Fisheries and Protection of Waters, Czech Republic

1.01.P-We015 Exploring the Potential of a Byproduct from Essential Oil Distillation: Ecotoxicity of Lavandin Hydrolates | **María Rosa Pino Otín**, Universidad San Jorge, Spain

1.01.P-We016 Improving the Ecotoxicity Assessment of Waste from Mirror Entries: Evaluating the Suitability of a Biotest Battery | **Janina Blöcher**, ECT Oekotoxikologie GmbH, Germany

1.01.P-We017 The Road to Preliminary Identification of Techniques for Toxicity Monitoring and Chemical Key Environmental Issues | **Gustavo Guerrero-Limon**, Concawe, Belgium

1.01.P-We018 Strategies to address marginal and intermittent toxicity in effluent dominated systems. | **William Goodfellow**, Exponent, United States

1.01.P-We019 Why emission control technologies matter – An environmental perspective of catalyst and electrostatic precipitator application in biomass-based energy supply and their impact on aquatic systems | **Marc Wollenweber**, Goethe University Frankfurt, Germany

1.01.P-We020 Chemical mixtures : Additivity and beyond | **David Spurgeon**, UK Centre for Ecology & Hydrology (UKCEH), United Kingdom

1.01.P-We021 Progressing Short-term Methods for Estimating Chronic Marine Toxicity for Regulatory Use in the North-East Atlantic Region. | **Mathijs Smit**, Shell International, Netherlands

1.01.P-We022 Impacts of Anthropogenic Stressors on Feral Fish: Biomarker Response in Locally Adapted and Translocated Brown Trout along the Holtemme River, Germany | **Tanja Reimann**, Goethe University Frankfurt, Germany

Exploring Long-Term Ecological Impacts: From Epigenetic Biomarkers to Multigenerational Genomic Effects of Environmental Contaminants | Joana Luisa Pereira, Som Niyogi, Laia Navarro-Martin, Ramji Bhandari

1.06.P-We023 Amelioration of Transgenerational Liver Disease by an Epigenetic Modifier Treatment | **Ramji Bhandari**, University of Missouri, USA

1.06.P-We024 Copper Exposure During Early Life Results in Long Term Alterations in Copper Responses Within the Life Span of Individuals and Across Generations | **Eduarda Santos**, University of Exeter, United Kingdom

1.06.P-We025 Identification of Repressive Histone Methylation-mediated Reproductive Toxicity of Chemical Additives in C. elegans Using the Adverse Outcome Pathway (AOP) Concept and Benchmark Concentration Analysis | **Jiwan Kim**, University of Seoul, Korea, Republic of (South)

1.06.P-We026 Multigenerational Exposure to Antidepressants Induces Endocrine Disruption in the Estuarine Polychaete Capitella teleta: From Molecular- to Population-Level Effects | **Martina Santobuono**, Roskilde University, Denmark

1.06.P-We027 Trans-/multi-generational Reproductive Toxicities Induced by Zearalenone Associated with Epigenetic Changes in Caenorhabditis elegans | **Yong-Shan Li**, National Taiwan University, Taiwan

1.06.P-We028 Aquatic neurotoxins – Multi-parametric Analysis of Saxitoxins Effects on Daphnia magna | **Albano Pinto**, CESAM - Centre for Environmental and Marine Studies and Department of Biology, University of Aveiro, University of Aveiro, Portugal

1.06.P-We029 EPIBOOST: A Project Aiming to Link Epigenetic Changes to Phenotypic Outcomes in Microalgae, Microcrustaceans and Fish | **Joana Luisa Pereira**, University of Aveiro, Portugal

1.06.P-We030 Multigenerational epigenetic effects of long-term exposure of Daphnia magna to diazinon. | **Floriane Tisserand**, Faculty of Geoscience and Environment, University of Lausanne, Switzerland

1.06.P-We031 The Hidden Dangers of Water-Soluble Polymers: Unraveling Epigenetic Changes across multiple generations of Daphnia magna | **Lara Nigro**, University of Milan, Italy

1.06.P-We032 Assessing Multigenerational Effects of Exposure to Crude Oil on the Arctic Keystone Species Boreogadus saida and Gadus morhua, and the Model Danio rerio | **Abby Chapman**, Arctic University of Norway (UiT), Norway

1.06.P-We033 Reproductive Toxicity of the Cadmium Exposome: A Transgenerational Study With C.elegans | **Norah Almutairi**, King Abdullah University of Science and Technology, Saudi Arabia

1.06.P-We034 Assessing the Effects of Imazalil on Hepatic DNA Methylation and Gene Expression Profiles in Xenopus tropicalis Frogs | **Mauricio Roza**, Stockholm University, Sweden

1.06.P-We035 Exploring the Molecular Response of Anthropogenic Impacts on Feral Brown Trout Using a Translocation Experiment | **Fabian Weichert**, Goethe University Frankfurt, Germany

Legacy and Emerging Contaminants in Wildlife: Recent Advancements in Ecotoxicology and Risk Assessment | Veerle L. B. Jaspers, Alexander Badry, Elena Adams, Catherine Aubee

1.10.P-We036 Pipping, Hatching, Sex Ratio and Gene Expression Changes in Ducklings Exposed In Ovo to Emerging Per-/Poly-Fluoroalkyl Substances | **Anne-Fleur Brand**, Norwegian University of Science and Technology (NTNU), Norway

1.10.P-We037 Persistent Organic Pollutants and the Role of Anthropic Sources in the Diet of Avian Scavengers | **Juan Munoz-Arnanz**, Institute of Organic Chemistry, Spanish National Research Council (IQOG-CSIC), Spain

1.10.P-We038 Putting Individual Effects into the Context of Natural Variability. Using Dynamic Energy Budget (DEB) Modelling in Amphibians to assess the Normal Operating Range for Metamorphosis | **Joachim Kleinmann**, BASF SE, Germany

1.10.P-We039 Chronic exposure of amphibian aquatic stages to pesticides: a case study with flupyradifurone | **Manuel Ortiz Santaliestra**, Instituto de Investigación en Recursos Cinegéticos (IREC) CSIC-UCLM-JCCM, Spain

1.10.P-We040 Amphibians Provide Unique and Sensitive Models in Ecotoxicology: Arguing for Advanced Propagation and Integration in Risk Assessment | **Werner Kloas**, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Germany

1.10.P-We041 Anticoagulant Rodenticides in Wildlife: A Risk for Game Meat Consumers? | **Rafael Mateo**, Instituto de Investigación en Recursos Cinegéticos (IREC) CSIC-UCLM-JCCM, Spain

1.10.P-We042 Anticoagulant rodenticide exposure of two mammal species, American badger and fisher from British Columbia Canada. | **John Elliott**, Environment and Climate Change Canada, Canada

1.10.P-We043 Anticoagulant Rodenticides in Birds of Prey in Switzerland – Towards an Appraisal of Threshold Values | **Sibylle Maletz**, Swiss Centre for Applied Ecotoxicology, Switzerland

1.10.P-We044 Anticoagulant Rodenticide Contamination and Coagulation Capacity Assessment in Long-Eared Owls (Asio otus) from a Mediterranean Agricultural Landscape | **Livia Spadetto**, University of Murcia, Spain

1.10.P-We045 Environmental Factors Influencing Anticoagulant Rodenticide Exposure in Common Kestrels (Falco tinnunculus) and Barn Owls (Tyto alba) from Southeastern Spain | **Livia Spadetto**, University of Murcia, Spain

1.10.P-We046 Impact of Changes in Governance for Anticoagulant Rodenticide Use on Non-target Exposure in Buzzards (Buteo buteo) | **Megan Galloway**, SASA, United Kingdom

1.10.P-We047 Exposure of piscivorous avian predators to second-generation anticoagulant rodenticides | **Julia Regnery**, Federal Institute of Hydrology (BfG), Germany

1.10.P-We048 Biomonitoring of metals and second-generation anticoagulant rodenticides at the pan-European scale from 1996 to 2021 with wild Common Buzzards (Buteo buteo) | **Shinji Ozaki**, United Kingdom Centre for Ecology & Hydrology (UKCEH), United Kingdom

1.10.P-We049 Lead Exposure of Scavenging Birds Due to Accidental Ingestion of Lead Ammunition: Geographic and Species Variation in Canada | **John Elliott**, Environment and Climate Change Canada, Canada

1.10.P-We050 Feathers to the Rescue: A Non-Destructive Tool for the Detection of Metals and Metalloids | **Martin Emilo Pereda Solis**, Universidad Juarez del Estado de Durango, Mexico

1.10.P-We051 The Red-billed Chough (Pyrrhocorax pyrrhocorax) as a Sentinel Species for the Input of Heavy Metals from the Tajogaite Volcano into the Environment of La Palma, Canary Islands | **Antonio Juan Garcia-Fernandez**, Universidad de Murcia-IMIB, Spain

1.10.P-We052 Why are flamingo eggs not good indicators of environmental pollution? | **Velesia Lesch**, North-West University, South Africa

1.10.P-We053 Compound-specific Stable Isotope Analyses of Amino Acids Reveal Drivers of Mercury Concentrations in Steller Sea Lions and their Prey | **Benjamin Barst**, University of Alaska Fairbanks, USA

1.10.P-We054 Dietary shift in Southeast Alaskan wolf populations leads to increased mercury exposure | **Angela Gastaldi**, University of Alaska Fairbanks, USA

1.10.P-We055 Uncovering Effects with Molecular Techniques and Primer Design: Chronic Mercury Exposure and gene expression in Svalbard Reindeer | **Tove Petersson**, University of Gothenburg, Sweden

1.10.P-We056 The Chemical Load of Pilot Whales in Arctic Waters | **Halla Reinert**, Faroese Environment Agency, Faroe Islands

1.10.P-We057 Ultraviolet Absorbents and Industrial Antioxidants in Tissues of the Canadian Arctic Wildlife | **Alejandra Granados Galvan**, University of Quebec at Rimouski (UQAR), Canada

1.10.P-We058 Time trends (1996-2021) in PCB and PBDE congeners and in ΣPCBs and ΣPBDEs residue concentrations in the common buzzard Buteo buteo in 11 European countries in relation to restrictions on chemicals use | **Paola Movalli**, Naturalis Biodiversity Center, Netherlands

1.10.P-We059 Title: From soils to apex species: chemical pathways, effects and impacts on terrestrial biodiversity and ecosystem services and applications for better chemicals management | **Guy Duke**, Environmental Institute, Slovakia

1.10.P-We060 The TerraChem approach to monitoring chemicals exposure and mixture effects in real-world terrestrial food chains | **Paola Movalli**, Naturalis Biodiversity Center, Netherlands

1.10.P-We061 Unveiling the chemical fingerprint of xenobiotics in different otter tissues through HRMS-based targeted and untargeted workflows | **Antigoni Konomi**, National and Kapodistrian University of Athens, Greece

1.10.P-We062 Pilot study: Seasonal pesticide exposure and corresponding metabolomic changes identified by non-target analysis of plasma samples obtained from hares in Austria. | **Romana Hornek-Gausterer**, Environment Agency Austria, Austria

1.10.P-We063 A Spatial Assessment of Neonicotinoid Exposure in Common Goldeneyes in Finland | **Amalie Ask**, University of Turku, Finland

1.10.P-We064 Exploring 46 Years of Temporal Trends and Interspecific Patterns of Perfluoroalkyl Substances (PFASs) in 4 Seabird Species from Canada's Pacific Coast | **Robert Kesic**, Environment and Climate Change Canada, Canada

1.10.P-We065 PFAS accumulation and associations with reproduction in songbirds living near a hotspot | **Thimo Groffen**, University of Antwerp, Belgium

1.10.P-We066 Assessment of Persistent Organic Pollutants (POPs) in Common Kestrel Eggs from Urban and Rural Areas in Rome, Italy | **Pere Colomer Vidal**, Institute of Organic Chemistry, Spanish National Research Council (IQOG-CSIC), Spain

1.10.P-We067 Difference in Toxicokinetics and Maternal Tranfer between Lipophilic and Proteinophilic Halogenated organic pollutants in Laying Hens | **Xiao-Jun Luo**, Guangzhou Institute of Geochemistry, China

1.10.P-We068 Carbamazepine Acts as Endocrine Disruptor of the Thyroid System in the Amphibian Xenopus laevis | **Andrea Ziková-Kloas**, German Environment Agency (UBA), Germany

1.10.P-We069 Acute Dermal Toxicity of Pesticides to Terrestrial Metamorphs of the Spotted Salamander (Ambystoma maculatum) | **Lennart Weltje**, BASF SE, Germany

1.10.P-We070 Incorporating Mechanistic Effect Models into the Risk Assessment for Amphibians and Reptiles | **Simon Hansul**, Osnabrück University, Germany

1.10.P-We071 Amphibians in the Agricultural Landscape - Risk Reduction in Plant Protection and Promotion of Populations | **Annette Aldrich**, Federal Office for the Environment (FOEN), Switzerland

1.10.P-We072 Evaluating Pesticide-Induced Risks to Amphibians in Agricultural Waters: A Case Study in Arroyo Pergamino, Argentina | **Samuel González López**, Instituto de Investigación en Recursos Cinegéticos (IREC) CSIC-UCLM-JCCM, Spain

1.10.P-We073 Risk assessment screening step for dermal toxicity in terrestrial phase amphibians | **Valentin Mingo**, Corteva Agriscience, Germany

1.10.P-We074 Suggestion of Focal Species of Amphibians in the Context of Environmental Risk Assessment of Pesticides in Brazil | **Marcelo Dias**, Brazilian Institute of Environment and Renewable Natural Resources (IBAMA), Brazil

1.10.P-We075 Mass spectrometry imaging of the developing amphibian brain as a tool to discover bioindicators of developmental neurotoxicity. | **Rikke Poulsen**, University of Victoria, University of Victoria Genome BC Proteomics Centre, Canada

1.10.P-We076 Aquatic Risk Assessment of Pesticides in Swiss Habitats of National Importance | **Etienne Vermeirssen**, Swiss Centre for Applied Ecotoxicology, Switzerland

Omics Beyond Transcriptomics: Leveraging Proteomics and Metabolomics to Improve Mechanistic Understanding of Responses to Environmental Stressors | Ksenia J Groh, Denina B.D. Simmons, Nikolai Huwa

1.12.P-We077 Is Toxicophenomics The New Omics? | **Valentine Guzniczak**, Copenhagen University, Denmark

1.12.P-We078 Coupling Uncoupling: Deciphering the Molecular Symphony – Exploring the Impact of Mitochondria Uncoupling Chemicals on the Transcriptome and Metabolome of Zebrafish Embryos | **Maria Christou**, Norwegian Institute for Water Research (NIVA), Norway

1.12.P-We079 Metabolomic changes in juvenile coho and Chinook salmon exposed to the vehicle tire associated chemical 6PPD-quinone | **Bonnie Lo**, Simon Fraser University, Canada

1.12.P-We080 Omics-Based Biomarker Selection for Difenoconazole and Metalaxyl Toxicity in Zebrafish Embryos. | **Fatma Marghany**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

1.12.P-We081 The Effects of Hypoxia on Fathead Minnow Behaviour and 'Omics | **Raina Hubley**, Ontario Tech University, Canada

1.12.P-We082 Non-targeted multi-omic analyses of blood plasma for health exploration of namew (lake sturgeon, Acipenser fulvescens) in an intact and an impacted watershed in the Moose Cree Homeland | **Keisha Deoraj**, Ontario Tech University, Canada

1.12.P-We083 Untangling Defensomes: Omic Comparisons Across Species and Chemical Mode of Action to Aid Species Sensitivity Prediction. | **David Spurgeon**, UK Centre for Ecology & Hydrology (UKCEH), United Kingdom

1.12.P-We084 Development of Proteomics Modules for the OECD Omics Reporting Framework | **Ksenia Groh**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.12.P-We085 Unravelling the Modes of Action of Antibacterial Agent Triclosan and Novel Alternatives in Human Macrophages by Untargeted Proteomics | **Stefanie Raps**, Helmholtz Centre for Environmental Research (UFZ), Germany

1.12.P-We086 Acetylation and Phosphorylation are Dynamically Involved in Adipocyte Differentiation and Provide Insight on their Response to the Emerging Plastic Additive DINCH | **Alix Aldehoff**, Helmholtz Centre for Environmental Research (UFZ), Germany

1.12.P-We087 Multiomic Analysis of Tributyltin-Exposed Adipocytes Reveals Omic-Related Signatures Associated with Metabolic Syndrome | **Dayna Schultz**, Aristotle University of Thessaloniki, Greece

1.12.P-We088 Concomitant Investigation of Protein Expression, Neurotransmitter Levels and Locomotor Behavior in Zebrafish Larvae upon Exposure and Depuration from Neuroactive Pharmaceuticals Fentanyl and Buspirone | **Ksenia Groh**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

1.12.P-We089 Proteomic Analysis of Short-Chain Perfluorinated Alkyl Substance (PFAS) Exposure in Fathead Minnows (Pimephales Promelas) | **Cristina Henriques**, Ontario Tech University, Canada

1.12.P-We090 Leveraging Multi-Omics Analyses to Explore the Toxicity of Urban Road Runoff Contaminants in Juvenile Salmonid Species | **Manuel Garcia-Jaramillo**, Oregon State University, USA

1.12.P-We091 The Use of Concentration Ranges Inducing Defense and Damage Responses as a Promising Approach to Overcome Database Gaps in Metabolite Annotation in Ecotoxicology | **Simon Colas**, Universite de Pau et des Pays de l'Adour, France

1.12.P-We092 Analyzing the Metabolic Effects of Nitrobenzene Exposure in Japanese Medaka (Oryzias latipes) with Consideration of Reproductive Cycle | **Jaehyeon Park**, Gwangju Institute of Science and Technology, Korea, Republic of (South)

1.12.P-We093 Optimization of simultaneous metabolomics and lipidomics analysis to improve reliability of multi-omics and reduce zebrafish animal use | **Eun Ki Min**, Seoul National University of Science and Technology, Korea, Republic of (South)

1.12.P-We094 Lipidomic Profiling of Coral Exposed to Phthalate Demonstrates a Microplastic Pollution-Deriving Environmental Risk in the Ocean | **Chuan-Ho Tang**, National Museum of Marine Biology and Aquarium/ National Sun Yat-sen University, Taiwan

1.12.P-We095 Multi-Omics in Nanoplastic Research: A Spotlight on Aquatic Life | **Mohamed Helal**, University of Southern Denmark, Denmark

1.12.P-We096 In vivo high throughput screening for mechanism-based toxicity assessment of chemical mixtures from consumer products using Caenorhabditis elegans Transcription Factor RNAi | **Elizabeth Dufourcq Sekatcheff**, University of Seoul, Korea, Republic of (South)

1.12.P-We097 Molecular Response of Chironomus riparius to Antibiotics | **Judit Kalman**, Rey Juan Carlos University, Spain

1.12.P-We098 "Understanding impact of BEMT on larval zebrafish: Thyroid hormone disruption, transcriptome profiling and implications for early life development" | **Yujin Park**, Seoul National University, Korea, Republic of (South)

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

2.06.P-We099 Estuarine Sediments as "Traps" for Trace Metals, PAHs and Hormones: An Example from Southampton Water, UK | **Jana-Sophie Appelt**, University of Southampton, United Kingdom

2.06.P-We100 Paleo-ecotoxicology: Dioxin-like activity in lake sediment core as an indicator of historical anthropogenic environmental pollution | **Polina Kanj**, Goethe University Frankfurt, Germany

2.06.P-We101 When and How to Conduct Ecotoxicological Tests Using Natural Field Collected Sediment | **Henriette Selck**, Roskilde University, Denmark

2.06.P-We102 A Comprehensive Examination of Fluoxetine Exposure in Lumbriculus variegatus: Insights from Biomarkers to Behaviour | **Jacqueline Hilgendorf**, University of Aveiro, Portugal

2.06.P-We103 Evaluating the use of an in vivo bioassay battery for sediment quality assessment in small streams | **M. Carmen Casado-Martinez**, Swiss Centre for Applied Ecotoxicology Eawag (EPFL), Switzerland

2.06.P-We104 Utilizing Natural Deep Eutectic Solvents for Eco-Friendly Analysis of Chemical Pollutants in Marine Sediments | **Mariana Rodrigues**, King Abdullah University of Science and Technology, Saudi Arabia

2.06.P-We105 Metals Distribution in Sediments in Select Creeks in Metro Vancouver, Canada | **Matt Dodd**, Royal Roads University, Canada

2.06.P-We106 Organic contaminants in sediment cores from the lake of L'Albufera Natural Park (Valencia, Spain) | **Yolanda Juan**, University of Valencia, Spain

2.06.P-We107 To Peat or Not to Peat, That Is the Question. Exploring Coconut Husk as an Organic Matter Enrichment Alternative in Sediment Toxicity Test. | **Davide Asnicar**, Huntsman Marine Science Centre, Canada

2.06.P-We108 Acute Lumbriculus variegatus Test Assessing Physiological Responses to Chemicals: A Simplification of the Chronic OECD 225 Test | **Esther Smollich**, University of Duisburg-Essen, ROCKWOOL, Germany, Belgium

2.06.P-We109 Beneath the Surface: Exploring Genotoxic Effects of Polycyclic Aromatic Hydrocarbons (PAHs) and Metabolic Responses in Capitella teleta, a Sediment Dwelling Species | **Ghaliya AlNoaimi**, Wageningen University & Research (WUR), Netherlands

2.06.P-We110 To Avoid or Not to Avoid Rare Earth Element Contaminated Sediment? That is the Question for Daphnia magna | **Chantal van Drimmelen**, University of Applied Science Hamburg, Germany

2.06.P-We111 Assessment of the Toxic, Neurotoxic and Genotoxic Effects of Sediments from the Lower Basin of the Papaloapan River, Veracruz, Mexico. | **Alma Sobrino-Figueroa**, Metropolitan Autonomous University (UAM) Iztapalapa, Mexico

2.06.P-We112 Using Paleotoxicology to Study the Influence of Anthropogenic Compounds in the Last Century | **Olivia Wagner**, University of Bern, Switzerland

2.06.P-We113 Effects of repeated pulsed deltamethrin exposures on a benthic community | **Sarah Betz-Koch**, Goethe University Frankfurt, Germany

2.06.P-We114 Flushing away the future: The effects of wastewater treatment plants on aquatic invertebrates | **Daniel Enns**, Goethe University Frankfurt, Germany

2.06.P-We115 Decrypt the complex – Recent exposure influences neonicotinoid tolerance in a cryptic amphipod species complex | **Jana Kabus**, Goethe University Frankfurt, Germany

3.02.P Advances in Exposure Modelling to Inform Science-Based Environmental Solutions | Joris T.K. Quik, Sam Harrison, Antonia Praetorius, Stephen Lofts

3.02.P-We116 A parametrized and regionalized Life Cycle Inventory Model to assess Tire and Road Wear Particles emissions | **Anne-Marie Boulay**, CIRAIG - Ecole Polytechnique de Montreal, Canada

3.02.P-We117 Extrapolation of Air Release Rates Between Different Substances Being Used Under Similar Conditions | **Yves Verhaegen**, Concawe, Belgium

3.02.P-We118 Improving release estimates for the use of REACH registered petroleum and petrochemical-borne substances | **Yves Verhaegen**, Concawe, Belgium

3.02.P-We119 Estimating Marine Chemical Emissions from Discharges of Sewage Treatment Plants into Freshwater Rivers | **Christopher Holmes**, Applied Analysis Solutions, LLC, USA

3.02.P-We120 European Monitoring Data Reveal Temporally Extended Pesticide Occurrence | **Larissa Herrmann**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany

3.02.P-We121 Modeling Global Environmental Fate of Short-, Medium- and Long-Chain Chlorinated Paraffins and Quantifying Global Source-Receptor Relationships for Remote Regions | **Chengkang Chen**, University of Toronto, Canada

3.02.P-We122 Using fugacity model to explore transport dynamics of polychlorinated biphenyls in coastal environments | **Yi Lun Hung**, Da-Yeh University, Taiwan

3.02.P-We123 Modelling Fate and Transport of Pharmaceutical Active Ingredients in a Swedish Lake Receiving Wastewater Effluents | **Ekaterina Sokolova**, Uppsala University, Sweden

3.02.P-We124 Plastic Fate and Transport in Rivers: A Holistic Micro- / Macroplastic Perspective | **David Mennekes**, ETH Zürich, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland

3.02.P-We125 UTOPIA: Advancing Microplastic Understanding Through Process-Based Mass-Balance Modeling | **Maria del Prado Domercq**, Stockholm University, ACES, Sweden

3.02.P-We126 A mass- balance model analysis of Small Microplastics (<100 µm) in highway stormwater runoff | **Beatrice Rosso**, Ca' Foscari University of Venice, Italy

3.02.P-We127 Fugacity-based estimation of contaminated areas in coastal wetland receiving oxytetracycline from livestock wastewater | **Yun He Chen**, Department of Environmental Engineering, Dacun Township, Changhua County, Taiwan,

3.02.P-We128 Improving the Parameterization of Forest Filter Effect in Environmental Fate Models: A Meta-Analysis Review of Particular Matter/Leaf Interaction | **Hamed Dadkhah- Aghdash**, University of Insubria, Italy

3.02.P-We129 Mass Balance Equations Model To Assess Environmental Fate of Micro- and Nanoplastics | **Blanca Pozuelo**, ITENE, Spain

3.02.P-We130 Developing a Modelling Approach to Estimate Exposure of Coastal Birds to Heavy Metals: A Case Study of the European Shag Gulosus aristotelis | **Rosie Lennon**, Natural England, United Kingdom

3.02.P-We131 Mechanistically Modeling the Long-term Human Exposure to Chlorinated Paraffins | **Chengkang Chen**, University of Toronto, Canada

3.02.P-We132 Advancing Dermal Exposure Modeling: Integration, Evaluation, and Comparative Analysis within the EAS-E Suite Framework | **Alessandro Sangion**, Arnot Research and Consulting Inc. (ARC), Canada

3.02.P-We133 Risk Assessment of UV Filters from Sunscreens and Other Cosmetic Products in Recreational Waters: A Case Study of Southern Poland | **Agata Wódkowska**, University of Science and Technology (AGH), Poland

3.02.P-We134 Environmental Risk Assessment Screening Proposal – applying country-specific dilution factors and refined input factors | **Harald Streicher**, Beiersdorf, Germany

3.02.P-We135 Considerations for Applying the Parallel Artificial Membrane Permeability Assay (PAMPA) in the Screening of Gastrointestinal Absorption of Chemicals of Environmental or Occupational Concerns | **Li Li**, University of Nevada, Reno, USA

3.02.P-We136 An Extension to Current Model Averaging Methods for Benchmark Dose Estimation | **Signe Marie Jensen**, University of Copenhagen, Denmark

3.02.P-We137 Daphnids response to physical toxicants; individual response and data capture approaches | **Katie Reilly**, University of Birmingham, United Kingdom

3.02.P-We138 Environmental risk assessment of different forms of graphene-based materials in European freshwaters | **Hyunjoo Hong**, Empa, Switzerland

Advances in High Resolution Mass Spectrometry Based Non-targeted Analysis for Exposure Monitoring and Assessment of Human and Environmental Samples | Sarit Kaserzon, Yong-Lai Feng, Alberto Celma

3.03.P-We139 Case Study on the Development of a Liquid Chromatography-High Resolution Mass Spectrometry Method for Non-Targeted Detection of β-Lactam Containing Antibiotics and their Transformation Products | **Kathryn Gerry**, Scymaris, United Kingdom

3.03.P-We140 Structural Investigations of Transformation Products of the Anticoagulant Drug and Rodenticide Warfarin | **Christian Piechotta**, BAM Federal Institute for Materials Research and Testing, Germany

3.03.P-We141 Identification of Biomarkers for Citrate Plasticizers through Non-Targeted Analysis and Their Application in Urine Samples. | **Hyeri Jeon**, Eulji University, Korea, Republic of (South)

3.03.P-We142 Harmonizing Sample Pre-Treatment for Multiclass Analysis of Endocrine Disrupting Compounds and its Metabolites in Human Urine – a Target and Suspect Screening Approach | **Julen Abarrategui**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.03.P-We143 A metabolomic approach to the effects of contaminants of concern in fish liver cultures | **Carolina Rocha**, University of Coimbra, MARE - Marine and Environmental Sciences Centre / ARNET – Aquatic Research Network, Portugal

3.03.P-We144 PFAS residues in fish from England and Catalonia: trend, bioaccumulation and dietary exposure | **Eva Junque**, University of Birmingham, United Kingdom

3.03.P-We145 Analysis of Volatile PFAS and Other Contaminants in Plants, Soil and Water Using High Resolution GC/MS and an Accurate Mass PFAS Library | **Jose Juan Rivero Marabé**, Agilent Technologies, Inc., Spain

3.03.P-We146 What's in the Dust? GC×GC-MS Based Non-Target Screening of House Dust | **Andriy Rebryk**, Umeå University, Sweden

3.03.P-We147 Quantitation and screening of drugs in indoor dust from different environments in Spain | **Cristina de Dios Pérez**, University of Cordoba, Spain

3.03.P-We148 Development of a tandem mass spectral library for source fingerprinting of monoterpene derived organic aerosol in Beijing | **Daniel Bryant**, University of York, United Kingdom

3.03.P-We149 An robust protocol for non-target analysis of PFAS in drinking water: from qualitative identification to quantification of unknowns | **Yong-Lai Feng**, Health Canada, Canada

3.03.P-We150 Highly sensitive quantification and selective identification of contaminates with a TOF high resolution instrument | **Jianru Stahl-Zeng**, AB Sciex Germany GmbH, Germany

3.03.P-We151 Study of Tap Water Potential as a New Source of Contaminants of Emerging Concern for Population Exposure | **Luis Muñiz de Bustamante**, University of Cordoba, Spain

3.03.P-We152 High Resolution Mass Spectrometry Solutions to the Challenge of Non-Target Transformation Product Identification Presented by the 2023 EFSA Drinking Water Guidance Document | **Rory Mumford**, Smithers, United Kingdom

3.03.P-We153 Stormwater Ponds as a Hotspot for Chemical Pollution and their Impact in Recipient Water Bodies and Drinking Water Productin | **Alberto Celma**, Swedish University of Agricultural Sciences (SLU), Sweden

3.03.P-We154 Mosaic-Project: Suspect Screening in 545 Water Bodies in Southern Germany | **Anna-Jorina Wicht**, Bavarian Environment Agency (LfU), Germany

3.03.P-We155 Suspect and non-target screening of legacy and emerging pollutants in the freshwater system of South Korea | **Gyojin Choo**, Kangwon National University, Korea, Republic of

3.03.P-We156 Improving Nontarget Screening by Homologous Series Analysis: a Case-study in Swiss Sludge | **Pablo Antonio Lara Martín**, Universidad de Cadiz, Spain

3.03.P-We157 What are Contaminants of Emerging Concern (CECs) in Swedish Landfill Leachate? | **Tsz Yung Wong**, Swedish University of Agricultural Sciences (SLU), Sweden

3.03.P-We158 Exploring Non-Target Screening and Differential Analysis in Assessing Nature-Based Reactive Barrier Treatment of Micropollutants in Treated Wastewater | **Charlotte Guy**, French National Centre for Scientific Research (CNRS), France

3.03.P-We159 Quaternary Ammonium Compounds in Produced Water Wastewater | **Matteo Ottaviani**, Technical University of Denmark (DTU), Denmark

3.03.P-We160 Scaling up Suspect Screening Analysis (SSA) in environmental water samples: a case study of contaminants of emerging concern in wastewater | **Helena Rapp Wright**, Imperial College London, United Kingdom

3.03.P-We161 Suspect Screening Reveals the Presence of Ultra Short Chain PFAS in Australian environmental Water Systems | **Emma Knight**, Norwegian Institute for Water Research (NIVA), Norway

Complex Mixtures of Chemicals in the Environment and the Human and Eco-Exposome – Next Generation Monitoring (NGM), Toxicity Driver and Source Tracking to Meet Regulatory Needs | Werner Brack, Juliane Hollender, Iker Alvarez-Mora, Beate Escher

3.09.P-We162 Ad-hoc assessment of non-target screening data for regulatory water monitoring of the future | **Alexander Badry**, German Environment Agency (UBA), Germany

3.09.P-We163 Advancing Environmental Monitoring: Promising Insights into Non-Target and Suspect Screening | **Jacqueline Meng-Reiterer**, Environment Agency Austria, Austria

3.09.P-We164 Harmonized LC-HRMS Non-Target Screening in the International Regulatory Framework of the River Rhine Catchment Area | **Pavel Ondruch**, International Commission for the Protection of the Rhine (ICPR), Germany

3.09.P-We165 Improving the monitoring of water bodies through the use of LC-HRMS from the perspective of state environmental monitoring | **Klaus Furtmann**, LANUV NRW, Germany

3.09.P-We166 High-Resolution Mass Spectrometry and Nontarget Screening combined to High-Throughput Toxicity Assessments to Address Community Concerns Related to Organic Contaminants in Surface Water | **Manuel Garcia-Jaramillo**, Oregon State University, USA

3.09.P-We167 Non-Target Screening of Surface Water Samples to Identify Exposome-Related Pollutants: A Case Study from Luxembourg | **Dagny Aurich**, University of Luxembourg, Luxembourg

3.09.P-We168 Exploring the environmental risk of pesticides and transformation products in agricultural area using extensive LC-HRMS screening | **Daeho Kang**, Changwon National University, Korea, Republic of (South)

3.09.P-We169 Identification of source-specific pollutant patterns and possible indicator parameters of particulate matter emissions from rail transport | **Sabrina Michael**, German Centre for Rail Traffic Research at the Federal Railway Authority, Germany

3.09.P-We170 Identifying Source-Specific Contaminant Fingerprints in Waste and Surface Water from High Resolution Mass Spectrometry Data | **Alain Hoyek**, Goethe University Frankfurt, Helmholtz Centre for Environmental Research (UFZ), Germany

3.09.P-We171 What Does Brake Abrasion in Rail Traffic Consist of? - Physical and Chemical Characterization of Different Brake Abrasion Samples From Rail Traffic | **Gina Bode**, German Centre for Rail Traffic Research at the Federal Railway Authority, Germany

3.09.P-We172 Assessment of endocrine disruptive potencies of air and dust samples from different indoor environments by a battery of in vitro bioassays | **Jiri Novak**, RECETOX, Masaryk University, Czech Republic

3.09.P-We173 Effects of textile wastewater from wet processing using effect-based methods | **Stella Jennes**, Goethe University Frankfurt, Germany

3.09.P-We174 Aromatic Amine Fingerprints of Different Human Activities From Indoor Environments – Textiles as Passive Samplers | **Anna Goellner**, Goethe University Frankfurt, Helmholtz Centre for Environmental Research (UFZ), Germany

3.09.P-We175 Passive Air Sampling Networks Combined with Multivariate Statistics Reveal Widespread Non-Aroclor Polychlorinated Biphenyl Sources to the Atmosphere | **Jenny Oh**, University of Toronto, Canada

3.09.P-We176 Mapping the Gaseous Outdoor Inhalation Exposome: Archetypes of Spatial Concentration Variability of Organic Trace Contaminants in the Atmosphere | **Frank Wania**, University of Toronto, Canada

3.09.P-We177 A fast and novel workflow for screening smoke from forest fires affecting food quality by SPMESH-DART-MS/MS | **Noud Borg**, Bruker Nederland B.V., Netherlands

3.09.P-We178 Leveraging Machine Learning and Multi-modal Analytical Techniques for Enhanced Source Tracking of Microplastics | **Huy Nguyen**, Toronto Metropolitan University, Canada

3.09.P-We179 "In Vivo" ECOD Assay: A Proxy To Unveil Biotransformation In Sediment-Dwelling Invertebrates. | **Elettra D'Amico**, Roskilde University, Denmark

3.09.P-We180 "Identification of AhR active compounds in sediments of highly industrialized area: Application of effect-directed analysis combined with full-scan screening" | **Jiyun Gwak**, Chungnam National University, Korea, Republic of (South)

3.09.P-We181 Effect-directed analysis of proteins with high antibacterial activity. A proof-of-concept. | **Naroa Lopez**, University of the Basque Country (UPV/EHU), Spain

3.09.P-We182 Assessment of sediment-associated marine microalgal toxicants in industrialized area, South Korea: Application of effected-direct analysis using microalgal bioassay with multiple endpoints | **Junghyun Lee**, Kongju National University, Korea, Republic of (South)

3.09.P-We183 Developing an Effect-Directed Analysis Approach for Prioritizing CECs in Urban Groundwater | **Lyen Castro**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.09.P-We184 Effect Assessment Of Urban Waters In Malawi And Identification Of Effect Drivers Using Pull-down Assay Coupled To Non-target Mass Spectrometry Analysis | **Zuzana Toušová**, RECETOX, Faculty of Science, Masaryk University, Czech Republic

3.09.P-We185 Effected-directed Analysis of Belgian Municipal Wastewater Treatment Plant Effluent Using Cyanobacteria Microcystis Aeruginosa | **Warich Leekitratanapisan**, Ghent University - GhEnToxLab, Belgium

3.09.P-We186 Event driven taxonomy (EDT): Deep learning links EDA and NTA | **Jing You**, Jinan University, China

3.09.P-We187 Analysis of polychlorinated n-alkanes (PCAs) in food from the Swedish market | **Idoia Beloqui**, Linköping University (LiU), Sweden

3.09.P-We188 Assessing the Accuracy of Findings in Oil Pollution Cases Using Likelihood Ratios | **Ana Catarina da Rocha**, Division of Chemistry and Pollution of the Marine Environment, Hydrographic Institute, Portugal

3.09.P-We189 Assessing VOC Performance, Perception and Indoor Air Impacts of Commercial Plug-in Fragrance Diffusers | **Arturo Mendoza**, Givaudan Suisse SA, Switzerland

Passive Sampling: Analysis, Transport, Fate and Monitoring of Persistent, Mobile and Toxic Substances in the Environment | Emma Knight, Branislav Vrana, Sarit Kaserzon

3.19.P-We190 Investigation of mutagenic aromatic amines in municipal wastewaters using passive sampling | **Branislav Vrana**, Masaryk University, Czech Republic

3.19.P-We191 Exposure assessment to organophosphate esters, phthalate esters and alternative plasticizers from recycling workers in Colombia using t-shirts as passive samplers | **Boris Johnson-Restrepo**, University of Cartagena, Colombia

3.19.P-We192 The IMPART project – a citizen science approach to using passive samplers to monitor for emerging contaminants | **Alexandra Richardson**, Imperial College London, United Kingdom

3.19.P-We193 Polytetrafluoroethylene (PTFE) Membranes for Passive Sampling of Hydrophilic Compounds in Water: a Big Yes | **Naomi Reymond**, University of Lausanne, Switzerland

3.19.P-We194 Characterization of Emission Products Formed during Firing of Small Caliber Ammunition | **Wouter van de Steeg**, TNO, Netherlands

3.19.P-We195 Personal Exposures of Waste Collection Workers to Nitrogen Dioxide and Ozone During Day Time and Night Shift Hours on 24 Different Collection Routes | **Eftade Gaga**, Eskisehir Technical University, Turkey

3.19.P-We196 Characterization of Covalent Organic Frameworks as Adsorbents for Pharmaceuticals in Water | **Joana Araújo**, International Iberian Nanotechnology Laboratory, Portugal

3.19.P-We197 Comparison of Recent Attract HLB to Established Biotage HLB and Empore SDB-RPS Phases for Passive Sampling of Pesticides | **Emmanuel Schaad**, University of Bern, Switzerland

3.19.P-We198 Accelerated solvent extraction (ASE) of passive samplers as an efficient tool for the monitoring of hydrophobic micropollutants in water | **Ines Tascon**, University of Lausanne, Switzerland

3.19.P-We199 Illicit drug epidemiology in Luxembourg using passive sampler based load balancing in wastewater treatment plants with different socio-economic population | **Tom Galle**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

3.19.P-We200 Prominent Features In Chemical, Physical And Ecotoxicological Analysis Of Seawater In The Genoa Harbor (Italy) By Means Of Passive Sampling Techniques | **Sonia Manzo**, ENEA PORTICI Research Center, P. le E. Fermi 1, 80055 Portici (NA) Italy,

3.19.P-We201 Passive sampling - results and comparison to national biota monitoring (within the WFD) | **Marcel Kotte**, Ministry of Infrastructure and Water Management, Netherlands

3.19.P-We202 Calibration and field deployment of Ceramic Passive Samplers for monitoring of PFAS in groundwater | **Sandra Perez Solsona**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.19.P-We203 Passive sampler derived profiles and mass flows of Perfluorinated Alkyl Substances (PFAS) across the Fram Strait in the North Atlantic | **Rainer Lohmann**, University of Rhode Island, USA

3.19.P-We204 Atmospheric Passive Sampling Technique for Gas-Phase Perfluoroalkyl Carboxylic Acids | **Cora Young**, York University, Canada

3.19.P-We205 Investigating the Uptake of Gaseous Aromatic Amines to Textiles | **Özge Edebali**, Recetox, Masaryk University, Czech Republic

Polymers and Their Chemicals: Environmental Fate, Hazards, and Risk Assessment | Cassandra Johannessen, Eric Carmona Martinez, Elisa Rojo-Nieto, Mridula (Babli) Kapur

3.21.P-We206 Predicting the Environmental Implications of Tire Compounds: Property Estimation and Environmental Modelling | **Cassandra Johannessen**, Concordia University, Canada

3.21.P-We207 Plasticizers and flame retardants in rubber recycling and recreational surfaces | **Aleix Balasch Garcia**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.21.P-We208 Exploring Toxicity of Tire Particles and Tire-Related Chemicals with Bioassays on High-Performance Thin-Layer Chromatography Plates | **Alan Bergmann**, Swiss Centre for Applied Ecotoxicology, Switzerland

3.21.P-We209 Monitoring and Modelling of Phenylenediamine Antioxidants and Their Transformation Products in Urban Snow – An Important Medium Linking Tire Additive Emissions and Aquatic Loadings | **Cassandra Johannessen**, Concordia University, Canada

3.21.P-We210 Green Analysis of Additives from Plastic Samples by In-Tube Extraction Dynamic Headspace Coupled to GC-MS/MS | **S Muniategui-Lorenzo**, Universidade da Coruña, Spain

3.21.P-We211 Human and Environmental Exposure by Synthetic Antioxidants: Insights from Wastewater | **Juliane Hollender**, Environmental Chemistry, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

3.21.P-We212 Halogenated Flame Retardants in Dust collected from Indoor Environments: Homes, Offices, Kindergartens and High Schools | **Adrián de la Torre**, Center for Energy, Environmental and Technological Research (CIEMAT), Spain

3.21.P-We213 In-Vehicle Exposure of Southern California Commuters to Tris(1,3-dichloro-2-propyl) phosphate | **David Volz**, University of California, Riverside, USA

3.21.P-We214 Time Trends of Flame Retardant Additives in Cars | **Petra Svobodová**, Masaryk University, RECETOX, Czech Republic

3.21.P-We215 Effect-based strategy for identification and assessment of potential health effects of hazardous organic chemicals in indoor environments | **Nathalie Struwe**, Örebro University, Sweden

3.21.P-We216 A novel biomonitoring platform with caged lumpfish (Cyclopterus lumpus) eggs for spreading of rubber- and plastic-associated chemicals from urban run-off into a harbour area in Central Norway | **Bjørn Hansen**, SINTEF, Norway

3.21.P-We217 Identifying and Mitigating Hot Spots of Salmon Exposure to Toxic Road Runoff in Metro Vancouver | **Simon Drew**, University of British Columbia (UBC), Canada

3.21.P-We218 Investigating Alternative Environmental Sources of Toxic Tire Additives | **Leland Bryshun**, University of Saskatchewan, Canada

3.21.P-We219 The Fate of 6PPD-quinone in Soil and Water-Sediment Systems using a 14C Radiotracer | **Rory Mumford**, Smithers, United Kingdom

3.21.P-We221 Chronic effects of three tire rubber-derived contaminants on zebrafish embryos | **Stefano Magni**, University of Milan, Italy

3.21.P-We222 Tire Related Additive Chemicals in Road Run-Off & Recipient Waters, Snow and Sediment Samples from Six Nordic Countries | **Natascha Schmidt**, The Climate and Environmental Research Institute NILU, Norway

3.21.P-We223 Application of a Multispecies Approach to Assess the Effects of Car Tires Leachate Toxicity on Freshwater and Terrestrial Environments | **Stefania Piarulli**, SINTEF Ocean, Norway

3.21.P-We224 Echoes of Ecosystems: Comparing Phthalate Exposure in Sentinel Bottlenose Dolphins (Tursiops truncatus) Residing in Sarasota Bay, Florida and Barataria Bay, Louisiana | **Miranda Dziobak**, College of Charleston, USA

3.21.P-We225 Phthalates Contamination of Wild Pollinators in an Urban and Peri-urban Context | **Virginie Cuvillier**, Université de Lille, France

3.21.P-We226 Spatial Distributions and Ecological Risk Assessment of Phthalate Esters in the Surface Water of the St. Lawrence River and Estuary in Canada | **Amina Ben Chaaben**, University of Quebec at Rimouski (UQAR), Canada

3.21.P-We227 Associations Between Building Characteristics and Plasticizers in Indoor Settled Dusts | **Paula Marcinekova**, Masaryk University, Czech Republic

3.21.P-We228 Dietary exposure of Japanese people to phthalates and their substitutes | **Naohide Shinohara**, National Institute of Advanced Industrial Science and Technology (AIST), Japan

3.21.P-We229 Investigation of the effects of rotenone, bisphenol A and dibutyl phthalate in Schizosaccharomyces pombe strains | **Sara Maisanaba**, Universidad Pablo de Olavide de Sevilla, Spain

3.21.P-We230 A Comprehensive Analysis of Phthalates Microplastics Effects on Developing Zebrafish: Genomic, Organ Development, and BMP Pathway Insights | **Abdulkhalik Mansuri**, Ahmedabad University, India

3.21.P-We231 Plastic additives: trophic level ecotoxicity for enhanced Life Cycle Assessment Impact | **Carla Silva**, NOVA.ID.FCT, MARE - Marine and Environmental Sciences Centre, ARNET - Aquatic Research Network Associate Laboratory, Portugal

3.21.P-We232 Differences in Modulating Phenanthrene Bioavailability and Toxicity in Parhyale hawaiensis by Microplastics: Short- and Long-Term Effects | **Cassiana Montagner**, Universidade Estadual de Campinas (UNICAMP), Brazil

3.21.P-We233 Mixture Toxicity of a Lipophilic and a Hydrophilic Pesticide with Microplastics and a Perfluoroalkyl Substance | **Sam Loon**, Vrije Universiteit Amsterdam, Netherlands

3.21.P-We234 Ecotoxicological effects of ketoconazole combined with virgin and aged microplastics in Daphnia similis | **Teresa Paiva**, University of Sao Paulo - USP, Brazil

3.21.P-We235 Weathered Nanoplastics Cause Zebrafish Developmental Stress and Augment Bisphenol A-driven Estrogenicity | **Astrid Saraceni**, University of Turin, Italy

3.21.P-We236 Inflammatory-gene expression and DNA damage effects in zebrafish adults after nanoplastic and benzo[a]pyrene exposure. | **Joana Antunes**, MARE - Marine and Environmental Sciences Centre, ARNET - Aquatic Research Network Associate Laboratory,

3.21.P-We237 Deciphering toxicological effects: the interplay between nanoplastics, industrial residues and aquatic environment | **Ângela Barreto**, Departament of Biology & CESAM, University of Aveiro, Portugal

3.21.P-We238 Hazard Assessment of Polyhydroxybutyrate Nanoplastics and Caffeine on In Vivo and In Vitro Models of Xenopus Laevis | **Isabel Lopes**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

3.21.P-We239 Nanoplastics and Pharmaceuticals: Unraveling the Hidden Ecotoxicological Web | **Ângela Barreto**, Departament of Biology & CESAM, University of Aveiro, Portugal

3.21.P-We240 Contribution of additive-related effects to LDPE microplastics toxicity for aquatic organisms: a case study with model metal and organic additives | **Dana Kühnel**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.21.P-We241 Do Microplastics Affect the Toxicity of Metals to Duckweed? | **Guiqi Zhao**, University of Quebec in Montreal (UQAM), Canada

3.21.P-We242 Toxic effects on zebrafish caused by micro- and nanoplastic: a review | **Lina Lundin**, Örebro University, Sweden

3.21.P-We243 Impact of Micro(nano)plastics on Amphibian Cell Lines | **Miguel Oliveira**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

3.21.P-We244 Effects of Field-collected Microplastic Particles on Zebrafish (Danio rerio) Embryos | **Lisa Bauer**, University of Heidelberg, Germany

3.21.P-We245 Qualitative and Quantitative Assessment of Microplastics Derived from Ship Paint during Hydroblasting: Estimation of Global Microplastics Emissions from an International Research Vessel study | **Taekhyun Kim**, University of Science and Technology, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of (South)

3.21.P-We246 Exposures to spherical, fibrous, and fragmented microplastics induced alterations of bioaccumulation, microbial immunity, and epigenetic signature in the mussel Mytilus galloprovincialis | **Kiyun Park**, Chonnam National University, Korea, Republic of (South)

3.21.P-We247 Suspect Screening of Emerging Contaminants Adsorbe Onto Microplastics in Seafood: A Potential Route of Human Exposure | **Noelia Caballero-Casero**, University of Córdoba, Spain

3.21.P-We248 The effect of PET microplastics on transcriptomic profile of porcine pituitary – an in vivo study | **Iwona Bogacka**, Department of Animal Anatomy and Physiology, University of Warmia and Mazury in Olsztyn, Poland

3.21.P-We249 Effect of microplastics in diet on the transcriptome profile of the ovary in sexually immature gilts | **Selahattin Şahin**, University of Warmia and Mazury in Olsztyn, Poland

3.21.P-We250 PET microplastics affect metabolism of neurotransmitters in the hypothalamus | **Karol Mierzejewski**, University of Warmia and Mazury in Olsztyn, Poland

3.21.P-We251 The chemical composition of oxo-"degradable" plastics and their use in Switzerland | **Christopher Oberschelp**, ETH Zürich, Switzerland

3.21.P-We252 Beyond the Surface: Spotlight on Plastic Metal(loid) Additive Leaching and Unseen Contaminants | **Ole Klein**, Helmholtz Center Hereon, Germany

3.21.P-We253 Linking Composition to Toxicity in UV-Weathered Plastic Leachates: An Assessment Using Diverse Cell Lines | **Aaron Beck**, GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany

3.21.P-We254 Are Marine Plastics a Sink or a Source of Organic Chemicals in the North Pacific Ocean? | **Elisa Rojo-Nieto**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.21.P-We255 Post-consumer recycling plastics (PCR), a safe alternative to pristine plastic bags? A case study: Degradation and toxicity of PCR vs pristine plastic bags. | **Martin Wagner**, Norwegian University of Science & Technology (NTNU), Norway

3.21.P-We256 Aquatic Toxicity Assessment of Chemical Mixtures from Recycled Plastics | **Francesca Molinari**, University of Gothenburg, Sweden

3.21.P-We257 Assessing the Ecotoxicological Impact of Plastic-Associated Chemicals from Consumer Products on the Marine Environment: Using In Vitro Studies with Halibut (Hippoglossus hippoglossus) Hepatocytes | **Maria Hultman**, Norwegian Institute for Water Research (NIVA), Norway

3.21.P-We258 Comparative Toxicity of Conventional versus Compostable Plastic Consumer Products: an in-vitro Assessment | **Cinta Porte**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.21.P-We259 Impacts of conventional and alternative plastic leachates on Hordeum vulgare: a comparative study in soil and hydroponic environments | **Amy Wright**, Anglia Ruskin University, United Kingdom

3.21.P-We260 Sex hormone disruption potentials of several biodegradable plastics of human use in H295R cell lines | **Eunhye Kim**, Seoul National University, Korea, Republic of

3.21.P-We261 Characterising the Chemical Additive Content of Agricultural Plastic Mulch Film | **Charlie Monkley**, Organic Geochemistry Unit, School of Chemistry, University of Bristol, United Kingdom

3.21.P-We262 Mulches in Agriculture: Tackling Contaminant Transport to Soil and Crops | **Costanza Scopetani**, University of Florence, Italy

3.21.P-We263 Metallic Additives Leaching and Extractions from Biodegradable Plastics Used in Fishing Gears and Potential Materials: Are They Truly More Environmentally Friendly? | **Waranya Wataniyakun**, Arctic University of Norway (UiT), Norway

3.21.P-We264 Biofilms enhance the adsorption capacity of Cd on weathered microplastics generated from mulching material (both biodegradable PLA and conventional PE) | **Xiao Xiao**, University of York, United Kingdom

3.21.P-We265 A recipe for plastic: Expert insights on plastic additives in the marine environment | **Andy Booth**, SINTEF Ocean, Norway

3.21.P-We266 Low toxicity of environmental plastic from aquatic and terrestrial habitats | **Begoña Espina**, International Iberian Nanotechnology Laboratory, Portugal

3.21.P-We267 Comparison of Species Sensitivity Distribution Methods for Risk Assessment of Microplastics | **Sara Hutton**, GSI Environmental, USA

3.21.P-We268 Bioassay-based hazard assessment of chemical mixtures released from plastics: PlastChemTox evidence map | **Ksenia Groh**, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland

3.21.P-We269 Towards risk assessment strategies for nano and microplastic particles | **Dana Kühnel**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.21.P-We270 Towards safe circular economy by assessing chemical risks of plastic recycling | **Salla Selonen**, Finnish Environment Institute (SYKE), Finland

POSTER AREA 2

Characterization, Testing and Assessment of Complex Substances (MCS, UVCBs & MOCS) | Delina Lyon, Philipp Mayer, Christopher Hughes

4.03.P-We280 Tripartite Perspectives on Challenges and Opportunities For The Environmental Testing and Assessment of UVCBs | **Julie Krzykwa**, Health and Environmental Sciences Institute (HESI), USA

4.03.P-We281 Determining Whole UVCB Mineralisation & Constituent Specific Primary Degradation in a Modified OECD 301 Ready Biodegradability Test of an Essential Oil | **Philipp Mayer**, Technical University of Denmark (DTU), Denmark

4.03.P-We282 Applying the principles of grouping and read-across to different lines of evidence to support the development of an ecotoxicity testing strategy for hydrocarbon UVCBs | **Leslie Saunders**, Concawe, Belgium

4.03.P-We283 Contrasting, Characterizing and Predicting the Toxicity and Risk of Natural Complex Substances | **Floriane Larras**, KREATiS, France

4.03.P-We284 Predicting Dermal and Inhalation Exposure from Mixtures: Two Case Studies | **Alena Celsie**, Trent University, Canada

4.03.P-We285 Environmental Classification of Ferromolybdenum - Impact of Copper Impurity Levels | **Dagobert Heijerick**, ARCHE Consulting, Belgium

4.03.P-We286 Navigating the Complexity: Challenges in Ecotoxicity Testing of UVCB Substances | **Sylwia Kosmala-Grzechnik**, wca environment Ltd.,

4.03.P-We287 Optimising Testing Strategies for UVCB Substance Categories to Minimise Vertebrate Testing for Aquatic Toxicity | **Alberto Martin-Aparicio**, Penman Consulting BVBA, Belgium

4.03.P-We288 Application of PBT and PMT Criteria to Complex Substances: A Case Study of Essential Oils | **Mylène Leger**, Consultancy for Environmental & Human Toxicology and Risk Assessment (CEHTRA), France

4.03.P-We289 Investigation Into the Impact of a Substances' Physicochemical Properties on its Suitability to be Dosed at High Flow Rates into Aqueous Media Using Saturator Columns. | **Kathryn Gerry**, Scymaris, United Kingdom

4.03.P-We290 Studying the Effects of Oil Sands Process-Affected Water Composition on PAH Henry's Law Constants | **J. Mark Parnis**, Trent University, Canada

4.03.P-We291 Towards Improving the Reproducibility and Linearity of the Preparation of Water Accommodated Fractions of Esterification Reaction Products | **Kathryn Gerry**, Scymaris, United Kingdom

4.03.P-We292 Searching for slowly-biodegrading constituents using whole petroleum substance biodegradation testing with deconvolution and non-target analysis of GCxGC-FID/TOFMS data | **Delina Lyon**, Concawe, Belgium

4.03.P-We293 Application of MOSH/MOAH GCxGC methods to support bioaccumulation testing of hydrocarbon UVCBs in fish | **Leslie Saunders**, Concawe, Belgium

4.03.P-We294 Outcomes from the 2023 Concawe workshop "Analytical technology exchange to meet health & environmental regulatory challenges for UVCBs" | **Delina Lyon**, Concawe, Belgium

4.03.P-We295 Development of a Pilot Database of UVCB Chemical Characterization Information | **Julie Krzykwa**, Health and Environmental Sciences Institute (HESI), USA

4.03.P-We296 A Linear Regression Model for Predicting COSMO-RS Sigma Profiles | **Alena Celsie**, Trent University, Canada

Effect Modelling in Regulatory Science: In the Service of Environmental Risk Assessment and Risk Management? | Andreas Focks, André Gergs, Sabine Duquesne

4.04.P-We297 The MAD book - Acceptability of Regulatory Models | **Jeremias Becker**, UBA, German Federal Environmental Agency, Germany

4.04.P-We298 The MAD-Book - Potential Applications of Mechanistic Effect Models in Environmental Risk Assessment of Pesticides | **Jeremias Becker**, UBA, German Federal Environmental Agency, Germany

4.04.P-We299 The MAD book - Development of Environmental Scenarios for the Application of Mechanistic Effect Models in Environmental Risk Assessment | **Sanne van den Berg**, Wageningen University & Research, Netherlands

4.04.P-We300 The MAD book - Documentation and Evaluation of Data Used in Mechanistic Effect Models | **Benoit Goussen**, ibacon GmbH, Germany

4.04.P-We301 The MAD book – Evaluation of modular models in ERA | **Tido Strauss**, Research Institute gaiac, Germany

4.04.P-We302 The MAD Book - On the Evaluation of Calibration and Validation Outputs with Mechanistic Effect Models | **Simon Hansul**, Osnabrück University, Germany

4.04.P-We303 The MAD Book - Sensitivity and Uncertainty of Mechanistic Effect Models | **Simon Hansul**, Osnabrück University, Germany

4.04.P-We304 Use of Toxicokinetic-Toxicodynamic (TKTD) Models in Pesticides Risk Assessment for Aquatic Organisms – Feedback from a National Regulatory Agency | **Fannie Chouvellon**, French Agency for Food, Environmental and Occupational Health & Safety (ANSES), France

4.04.P-We305 New perspectives on the body burden model for bird risk assessment of pesticides | **Sandrine Charles**, University Claude Bernard Lyon 1, France

4.04.P-We306 Effect of Time Variable Concentrations on Green Microalgae: Evaluating the Robustness of a Laboratory Comparison Test using Toxicokinetic-Toxicodynamic Modelling | **Johannes Witt**, Bayer AG - Crop Science Division, Germany

4.04.P-We307 Global Sensitivity Analysis of the Harmonised Lemna Model | **Stefan Reichenberger**, knoell France SAS, France

4.04.P-We308 Predicting Effects of Time-Variable Exposure Concentrations on Primary Producers using the cvasi Software Tool | **Johannes Witt**, Bayer AG - Crop Science Division, Germany

4.04.P-We309 Toxicokinetic-Toxicodynamic Modelling Application (for Lemna sp.) in Regulatory Risk Assessment Scheme: Conceptual Stepwise Approach | **Elena Alonso**, Knoell Iberia S.L., Spain

4.04.P-We310 Using Mechanistic Modelling to Understand Species Sensitivity to Xenobiotics: A Case Study in Birds | **Thomas Preuss**, Bayer AG - Crop Science Division, Germany

4.04.P-We311 A Dynamic Energy Budget Model of Anuran Larval Development for Environmental Risk Assessment. | **Benoit Goussen**, ibacon GmbH, Germany

4.04.P-We312 Comparative Energetics and Toxicant Response of Standard Laboratory Fish Species and European Edge of Field Species – Are We Really Protective? | **Benoit Goussen**, ibacon GmbH, Germany

4.04.P-We313 Comparative Energetics for Environmental Risk Assessment of North American Birds | **Benoit Goussen**, ibacon GmbH, Germany

4.04.P-We314 DEB-TKTD analysis of avian reproduction studies: overview of two case studies | **Benoit Goussen**, ibacon GmbH, Germany

4.04.P-We315 Feeding inhibition : starvation : chronic mortality – a dynamic energy budget approach | **André Gergs**, Bayer AG - Crop Science Division, Germany

4.04.P-We316 To DEB or not to DEB – Earthworm Modelling using Standard Ecotox Data | **Joachim Kleinmann**, BASF SE, Germany

4.04.P-We317 A Conceptual Approach to Determining Normal Operating Ranges: Outcomes from a Multi-Stakeholder Workshop | **Nika Galic**, Syngenta AG, Switzerland

4.04.P-We318 Determining Normal Operating Ranges from Field Data: A Wood Mouse Case Study | **Nika Galic**, Syngenta AG, Switzerland

4.04.P-We319 Ecological modelling in support of sediment remediation: impact of nature-based remediation on Hyalella azteca populations | **Karel Vlaeminck**, ARCHE Consulting, Belgium

4.04.P-We320 Evaluation of Two Different Individual-Based Models to Simulate the Population Dynamics of Daphnia Magna in a Long-Term Laboratory Experiment | **Natalie Dallmann**, gaiac - Research Institute for Ecosystem Analysis and Assessment, Germany

4.04.P-We321 Simulating field-realistic effects to Chironomus riparius populations from exposure to insecticides: the role of density dependence and food availability | **Tido Strauss**, Research Institute gaiac, Germany

4.04.P-We322 Challenges for estimating exposure experienced by moving organisms: a movement modelling concept | **Pernille Thorbek**, BASF plc, United Kingdom

4.04.P-We323 Quantification of Risk from Pesticide Exposure in Landscape-scale Population Models | **Bas Buddendorf**, Wageningen University & Research (WUR), Netherlands

4.04.P-We324 Exposure and Effect Modelling for Aquatic Primary Producers at Catchment-scale | **Bas Buddendorf**, Wageningen University & Research (WUR), Netherlands

4.04.P-We325 Consistent wildlife modelling across Tiers of the European environmental risk assessment | **Thomas Martin**, RIFCON GmbH, Germany

4.04.P-We326 Mapping the Watershed: A Landscape Modeling Approach for Higher Tier Risk Assessment of Lemna in Surface Waters | **Oliver Jakoby**, RIFCON GmbH, Germany

4.04.P-We327 Predicting Extinctions in Food Webs | **Thomas Malpas**, University of Sheffield, United Kingdom

Hazards, Risks, and Management of Soil Ecosystems for Sustainable and Environmental Conservation | Susana Loureiro, Agnes Schimera, Kate Schofield, Ricardo Petersen

4.06.P-We328 Predicting Earthworm Toxicity Endpoints in Non-Standard Soils: Risk Assessment Concept and Model Validation | **Nika Galic**, Syngenta AG, Switzerland

4.06.P-We329 Novel Strategy to Assess the Risk of Sequential Application of Tank Mixtures to Non-Target Soil Organisms | **Fernanda de Santo**, University of Coimbra, Portugal

4.06.P-We330 Why do we neglect key drivers for soil health in environmental risk assessment? – A plea for the use of nematodes as bioindicators | **Sebastian Hoss**, Ecossa, Germany

4.06.P-We331 Targeting Validity Criteria in Natural Soil Testing as Intermediate-Tier Approach with Earthworms, Soil Mites and Springtails | **Eva Aderjan**, Eurofins Scientific, Germany

4.06.P-We332 Studies on Bile Acid Degrading Bacteria for the Development of a Test for Assessing Effects of Chemicals on Microbiological Activity in Soil Samples | **Antonia Bruder**, University of Muenster, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

4.06.P-We333 Effects of Heavy Metals from Artisanal Gold Mining and Pesticides on Farmland Soil Quality and Earthworm Biodiversity in Batouri, East Cameroon | **Patricia Asanga Fai**, University of Dschang, University of Bamenda, Cameroon

4.06.P-We334 Ecotoxicological characterization of nano-biochar obtained by ball-milling | **Monika Raczkiewicz**, Maria Curie-Skłodowska University, Poland

4.06.P-We335 An agricultural systems' perspective on soil and biodiversity: Learnings from a set of field trials with soil health and climate balance in a broader sustainability context | **Christian Bogen**, Bayer AG - Crop Science Division, Germany

4.06.P-We336 Co-occurrence of Di-2-ethylhexyl phthalate (DEHP) and Titanium Dioxide Nanoparticles (nTi02) in Soil Aggravates Ecotoxicity Associated with Disrupted Energy Budget in Nematode Caenorhabditis elegans | **Yu-Hsuan Kuo**, National Taiwan University, Taiwan

4.06.P-We337 Field Study with Carbendazim in Brazil to Evaluate Effects on Local Earthworm Community | **Julia Carina Niemeyer**, Federal University of Santa Catarina (UFSC), Brazil

4.06.P-We338 "Evaluation of soil enzyme activities in abandoned mine area" | **Haemi Kim**, Konkuk University, Korea, Republic of (South)

4.06.P-We339 From invasion to solution: Optimizing a Sargasso Biochar Strategy for Chlordecone Sequestration that not alter Caribbean Soil Quality | **Perrine Stephan**, Université de Lorraine, France

4.06.P-We340 Can the land use affect the risk for inducing antibiotic resistance by heavy metals? | **Carla Cruz Paredes**, Roskilde University (RUC), Denmark

4.06.P-We341 Assessment of pesticide mixtures on soil organisms: challenges for non-standard endpoints | **Anja Coors**, ECT Oekotoxikologie GmbH,

4.06.P-We342 Ecotoxicity of the monoterpene eugenol on soil microbial communities | **María Rosa Pino Otín**, Universidad San Jorge, Spain

4.06.P-We343 Intermediate Tier Testing Alternatives for Ground Invertebrates – A Granular Insecticide Case Study | **Ricardo Petersen**, ERM International Group Limited, United Kingdom

4.06.P-We344 A multispecies test system as tool for an intermediate test system in soil ecotoxicology and risk assessment | **Michael Thomas Marx**, Bayer AG - Crop Science Division, Germany

4.06.P-We345 Representativeness of Standard Species of Microarthropods for Pesticides Risk Assessment in Brazil | **Julia Carina Niemeyer**, Federal University of Santa Catarina (UFSC), Brazil

4.06.P-We346 Compatibility of commercial bacterial consortium of plant biostimulant with copper-based pesticides | **Marija Prodana**, CESAM - Centre for Environmental and Marine Studies and Department of Biology, University of Aveiro, Portugal

4.06.P-We347 Integrating Terrestrial Model Ecosystems into Soil Risk Assessment – A Tier 3 Refinement Option | **Hanna Schuster**, Cambridge Environmental Assessments (CEA), United Kingdom

4.06.P-We348 Ecotoxicity of commercial nano-pesticide to the soil model Enchytraeus crypticus (Oligochaeta): from standard tests to long(er)-term effects assessment | **Monica Amorim**, Department of Biology & CESAM, University of Aveiro, Portugal

4.06.P-We349 "FORESEE": A Spatial and Temporal Explicit (DEB-)TKTD Model for Earthworms | **Natalie Dallmann**, gaiac - Research Institute for Ecosystem Analysis and Assessment, Germany

4.06.P-We350 Long-term nanoplastics exposure affects soil carbon dioxide emission and microbial carbon metabolism in agricultural soil | **Chi-Wei Huang**, National Kaohsiung University of Science and Technology, Taiwan

4.06.P-We351 Ecotoxicological effects of roadside soils on earthworms - the role of pollution variation with distance and habitat type | **Gintare Sujetoviene**, Vytautas Magnus University, Lithuania

4.06.P-We352 Long-chain Hydrocarbon-Degrading Bacterial Communities in Long-Term Polluted Soil in Ogoniland, Niger Delta | **Professor Chioma Chikere**, UNIPORT; CAES - UNISA, Nigeria

4.06.P-We353 Effects of Temperature and Moisture on the Ecotoxicity of Metal-Based Fungicides Towards Earthworms | **Hussain Kaka**, North-West University, South Africa

4.06.P-We354 Heat Waves Decrease the Avoidance of Folsomia candida to the Fungicide Fontelis 20 SC | **Sara Coordes**, University of Bremen, Germany

4.06.P-We355 Natural Soil Testing in the OECD 226 Soil Mite Reproduction Test using Dimethoate | **Eva Aderjan**, Eurofins Scientific, Germany

4.06.P-We356 Ecotoxicological effects of sugarcane vinasse in natura and biogested in methanogenic reactor on the reproduction of Enchytraeus crypticus | **Mayara Felipe**, University of Sao Paulo - USP, Brazil

4.06.P-We357 Abundance of frequently found soil organisms (Collembola) in ecotoxicological field studies in Central Europe and determination of their normal operating range – part 1 | **Agnes Schimera**, ADAMA Deutschland GmbH, Germany

4.06.P-We358 Abundance of frequently found soil organisms (Collembola) in ecotoxicological field studies in Central Europe and determination of their normal operating range – part 2 | **Agnes Schimera**, ADAMA Deutschland GmbH, Germany

4.06.P-We359 Misfortunes never come singly: Interplay of temperature and soil moisture on toxicity of Cu contamination in springtails, Folsomia candida | **Jian Ge**, Aarhus University, Denmark

4.06.P-We360 Evaluating the Effect of Carbendazim on Soil Fauna Feeding Activity through a Bait-lamina Test | **Higor Lorin**, Federal University of Santa Catarina (UFSC), Brazil

4.06.P-We361 Sustainable agriculture strategies in the face of Climate Change: Biosolid compost and trace elements impact on soil and crops | **Jose Mediano-Guisado**, Institute of Natural Resources and Agrobiology of Seville, Spanish National Research Council (IRNAS-CSIC), Spain

4.06.P-We362 Sustainable waste management: The impact of olive pomace-derived Entomofertilizer on soil health | **Amid Mostafaie**, University of Aveiro, Portugal

4.06.P-We363 Soil fertilization with a novel Zn fertilizer: The effects of Zn-Al-NO3 layered double hydroxide on soil biological and chemical properties and maize development | **Catarina Malheiro**, University of Aveiro, Portugal

4.06.P-We364 From waste to resource: Exploring the use of Black Soldier Fly entomofertilizers to replace mineral fertilizers in agriculture practices | **Ana Rodrigues**, CESAM - Centre for Environmental and Marine Studies and Department of Biology, University of Aveiro, Portugal

4.06.P-We365 Ecotoxicological Evaluation of Drilling Cuttings from Oil Wells for Organomineral Fertilizer Development: Predicting Impacts on Forest Ecosystems | **Julia Carina Niemeyer**, Federal University of Santa Catarina (UFSC), Brazil

4.06.P-We366 A Spatiotemporally Explicit Modeling Approach for Exposure and Risk Assessment of Off-field Soil Organisms | **Christopher Holmes**, Applied Analysis Solutions, LLC, USA

Progress Into Monitoring and Assessing Risks of Antimicrobials and Antimicrobial Resistance in the Environment | Joanne Elmoznino, Edward Topp, Laura Carter

4.10.P-We367 Key Environmental Drivers of Antimicrobial Resistance | **Kiri Rodgers**, University of the West of Scotland (UWS), United Kingdom

4.10.P-We368 Evaluation of the SELECT Assay as a Method to Facilitate Risk Assessment for Antimicrobial Resistance | **Alejandra Bouzas Monroy**, University of York, United Kingdom

4.10.P-We369 Occurrences of antibiotics in wastewater and runoff of pharmaceutical production sites and their impact on environmental water quality | **Ursula Karges**, IWW Water Centre,

4.10.P-We370 Occurrence and Seasonal-Spatial Variation of Emerging Chemicals and Antibiotic Resistance Genes in a Wastewater-Effluent-Dominated Stream | **Anna Marizzi del Olmo**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

4.10.P-We371 Resistome Profile of the Baltic Benthic Ecosystem | **Joeselle Serrana**, Stockholm University, Stockholm University Center for Circular and Sustainable Systems, Sweden

4.10.P-We372 Grazing on freshwater biofilm influences Xenopus laevis larvae microbiota and antimicrobial resistance dynamics in the environment | **Alexandre Thibodeau**, UMR5245 CNRS-UT3-INPT Laboratoire Ecologie Fonctionnelle et Environnement, France

4.10.P-We373 Political demands to produce antibiotics more environmentally sustainable | **Ursula Karges**, IWW Water Centre, Germany

4.10.P-We374 The Antimicrobial Resistance Multi-Stakeholder Partnership Platform: An Inclusive And Collaborative Space For Enhancing Global Governance On AMR And One Health | **Paola Grenni**, National Research Council (CNR), Italy

4.10.P-We375 Are On-Site Sewage Facilities Contributing to the Spread of Antimicrobial Resistance? | **Valentina Ugolini**, Swedish University of Agricultural Sciences (SLU), Sweden

4.10.P-We376 Case study to examine environmentally relevant amoxicillin concentrations in production wastewater - before and after wastewater treatment improvements | **Ursula Karges**, IWW Water Centre, Germany

4.10.P-We377 Plastics as a Potential Vector for Spread of Antimicrobial Resistance and Pathogens From Wastewater Discharge in the Marine Environment – the PlastiSpread Project | **Sigrid Hakvåg**, SINTEF Ocean, Norway

4.10.P-We378 Occurrence of Antibiotic Resistant Bacteria (ARB) and Antibiotic Resistance Genes (ARG) in Water from the Middle Tagus River: Seasonal Variability | **Cristina de los Reyes Ramos**, Castilla La Mancha University (UCLM), Spain

4.10.P-We379 Ecosystem-Level Assessment of The Fate and Effects of Benzalkonium Chloride in In-Lake Mesocosms | **Jose Rodriguez Gil**, Experimental Lakes Area (IISD-ELA), Canada

4.10.P-We380 "Azole Pesticides and Their Role in Antimicrobial Resistance: Case for Aspergillus fumigatus" | **Diletta Scaccabarozzi**, European Commission - Joint Research Centre (JRC), Italy

POSTER AREA 3

LCA and Beyond – Integrating Sustainability and/or Other Dimensions for a More Informed Decision-Making | Lucia Rigamonti, Roland Hischier, Giuseppe Cecere, Maria Rydberg

5.03.P-We400 Exploring the Environmental and Economic Sustainability of a Novel Light-Driven System for Wastewater Management | **Mario Martín-Gamboa**, Chemical and Environmental Engineering Group, Rey Juan Carlos University, Spain

5.03.P-We401 Evaluating Economic Sustainability in LCSA – Learnings from the International Round Table of Materials Criticality | **Thomas Schaubroeck**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

5.03.P-We402 Evaluating the Sustainability Level of Energy Storage Options | **Carlos Pozo**, Departament d'Enginyeria Química, Universitat Rovira i Virgili, Spain

5.03.P-We403 Second Life of Batteries: Modeling Choices in Social Life Cycle Assessment | **Maeva Lavigne Philippot**, ETEC Department, Vrije Universiteit Brussel (VUB), Brussel, Belgium

5.03.P-We404 Prospective life cycle assessment of organic redox flow batteries | **Shan Zhang**, Swedish University of Agricultural Sciences (SLU), Sweden

5.03.P-We405 Combining Life Cycle Assessment and Planetary Boundaries for Sustainable Energy System Designs | **Jan Hartmann**, RWTH Aachen University, Germany

5.03.P-We406 Life cycle assessment of future energy system flexibility – a methodological framework applied to Belgium | **Dominik Huber**, Free University Brussels (VUB), Belgium

5.03.P-We407 Social Implications of Raw Material Requirements for Solar Photovoltaic Deployment on the Terawatt Scale | **Mario Martín-Gamboa**, Chemical and Environmental Engineering Group, Rey Juan Carlos University, Spain

5.03.P-We408 Life Cycle Assessment of Emerging Hybrid Storage Systems for Maritime Sector | **Maria Leonor Carvalho**, RSE SpA - Research on Energy System, Italy

5.03.P-We409 Relevance of application and use-phase impact on Carbon footprint of Battery Energy Storage Systems (BESS) | **Luka Smajila**, KTH Royal Institute of Technology, Sweden

5.03.P-We410 Comparative life cycle assessment of NMC 811 type Li-ion battery production using different electricity mix | **Thaiskang Jamatia**, Tomas Bata University, Czech Republic

5.03.P-We411 Life-Cycle and environmental impact assessment approach to support decision-making in hybrid Solar-Battery projects | **Luka Smajila**, KTH Royal Institute of Technology, Sweden

5.03.P-We412 Environmental impacts of photovoltaic integration in concentrated solar power plants | **Daniele Costa**, Energyville-VITO, Boeretang 200, Belgium

5.03.P-We413 Feasibility of Using Alternative Fuels in Steel Industry | **Siti Ahmad**, University of Sheffield, United Kingdom

5.03.P-We414 Assessing Environmental Impact and Material Criticality in Scaling Perovskite-Silicon Tandem Photovoltaic Modules: A Comprehensive Approach | **Roberto Magnifico**, University of Liège, Belgium

5.03.P-We415 Environmental Footprint of Labgrown and Germinated Plant-based Meat: A Life Cycle Assessment Study | **Nichole Eunice Lalas**, Tokyo City University, Japan

5.03.P-We416 Consequential Life Cycle Assessment of Various Geographical Adoption of the EAT-Lancet Diet | **Aurore Guillaume**, KU Leuven, University of Chemistry and Technology Prague, Belgium, Czech Republic

5.03.P-We417 Inclusion of environmental impacts into the formulation of pig diets: Reducing the climate change impact of pig feed at minimal added cost | **Styrmir Gislason**, University of Southern Denmark (SDU), Denmark

5.03.P-We418 Life Cycle Sustainability Assessment of nano-enabled PFAS (Polyfluoroalkyl substances)-free anti-sticking coating for bakery moulds | **Arianna Livieri**, Ca' Foscari University of Venice, Italy

5.03.P-We419 Environmental sustainability analysis of an industrial Italian Laundry Operations: a comprehensive Life Cycle Assessment | **Francesco Romagnoli**, Riga Technical University, Latvia

5.03.P-We420 Considering the evolution of the risk of natural and technological disasters while applying Life Cycle Assessment: a morphological analysis-based prospective method | **Alejandra Cue Gonzalez**, Mines Paris | PSL, France

5.03.P-We421 Incorporating the Risk of Zoonotic Disease into Life Cycle Assessments of Animal Agriculture | **John Hader**, Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland

5.03.P-We422 Determining the external costs of metals through risk indicators | **Pia Heidak**, University of Applied Science Pforzheim, Germany

5.03.P-We423 Using GIS-methods in Life Cycle Methodologies: an application in two olive groves | **Cristian Soldati**, Mediterranean University of Reggio Calabria, Italy

5.03.P-We424 How to assess impacts on biodiversity of metal sources ? Providing indicators for decision-making | **Anne Asselin**, Sayari, France

5.03.P-We425 Measuring biodiversity impacts of salmon production: A case study for Norway | **Pinar Kavak Gulbeyaz**, Norwegian University of Science and Technology (NTNU), Norway

5.03.P-We426 Moving forward with the definition and assessment of positive biodiversity impact from financial investments using an LCA-based methodology | **Ana Guerrero Esquivel**, PRe Sustainability, Netherlands

5.03.P-We427 Integration of environmental sustainability for decision support applying the SSbD strategy at the design stage of nanomaterials production | **Cristiana Gheorghe**, University of Birmingham, United Kingdom

5.03.P-We428 Integration of Robust Chemical Safety and Sustainability Assessment with Agent-Based Models Applied to the Energy Transition | **Agnese Fuortes**, National Institute for Public Health and the Environment (RIVM), Leiden University, Netherlands

5.03.P-We429 Integrating LCA and MFA with Linear Programming: Assessing Pathways of Energy Storage within the European Union | **Léon Ferrari**, Joint Research Centre - European Commission, Free University Brussels (VUB), Italy, Belgium

5.03.P-We430 Development of a Novel 'Hub & Spoke' Framework for the Holistic Sustainability Assessment of Chemical Value Chains | **Alex Newman**, University of Sheffield, United Kingdom

5.03.P-We431 Circular economy metric for the energy transition: a life cycle thinking approach | **Maria Anna Cusenza**, Ricerca sul Sistema Energetico - RSE S.p.A., Italy

5.03.P-We432 An Integrated Framework for Combining Environment, Health, and Sustainability Metrics: Zinc Case Study | **Eric Van Genderen**, International Zinc Association, USA

5.03.P-We433 Sustainable future of peatlands: evaluation of peat extraction site restoration strategies from a life cycle thinking perspective | **Francesco Romagnoli**, Riga Technical University, Latvia

5.03.P-We434 Portfolio Sustainability Assessment incorporating ProScale for a holistic view on human toxicity portencial | **Peter Saling**, BASF SE, Germany

5.03.P-We435 Communicating life cycle global health impacts of addressing the plastic pollution crisis | **Megan Deeney**, London School of Hygiene & Tropical Medicine (LSHTM), United Kingdom

5.03.P-We436 On the Readiness of Social Life Cycle Assessment for Integration in Life Cycle Sustainability Assessment and Safe and Sustainable by Design Frameworks | **Nina van Dulmen**, Leiden University, Netherlands

5.03.P-We437 Assessing Social Life Cycle Impacts of Power Technologies in the Spanish Electricity Mix | **Mario Martín-Gamboa**, Chemical and Environmental Engineering Group, Rey Juan Carlos University, Spain

5.03.P-We438 Proposal of a scalable product biodiversity footprint framework based on state-of-the-art methodologies for eco-design of cosmetic products | **Kaiwei Wang**, L'OREAL, France

Navigating the Complexity of Plastic Life Cycles: Interdisciplinary Challenges and Advances in Assessing Environmental Impact | Michele De Rosa, Susanne M Brander, Anne-Marie Boulay, Christopher Oberschelp

5.06.P-We439 Regionalized sourcing strategies of lignocellulose residues for a net-zero plastics industry | **Jing Huo**, ETH Zurich, Switzerland

5.06.P-We440 Methodology and case studies to address potential impacts of plastic emissions in life cycle assessment | **Daniel Maga**, Fraunhofer UMSICHT, Germany

5.06.P-We441 Including Microplastics Emissions Impact in Sediments in Life Cycle Impact Assessment | **Nadim Saadi**, CIRAIG Polytechnique Montreal, Canada

5.06.P-We442 Plastic Litter in Life Cycle Assessment: Advances of the Marine Impacts in Life Cycle Assessment International Taskforce | **Anne-Marie Boulay**, CIRAIG - Ecole Polytechnique de Montreal, Canada

5.06.P-We443 Updated and Comprehensive Characterization Factors for Microplastics in Life Cycle Assessment Considering Multimedia Fate Modelling | **Anne-Marie Boulay**, CIRAIG - Ecole Polytechnique de Montreal, Canada

5.06.P-We444 Development of an Effect Factor for Quantifying the Physical Impacts of Macroplastic Ingestion in Marine Ecosystems | **Ahmed Marhoon**, Norwegian University of Science and Technology, Norway

5.06.P-We445 Examining the environmental benefit of the chemical recycling of polypropylene plastic waste | **Carlos Pozo**, Departament d'Enginyeria Quimica, Universitat Rovira i Virgili, Spain

5.06.P-We446 The Importance of Material Flow Analysis for Life Cycle Assessment of Microplastics | **Cecilia Askham**, NORSUS AS, Norway

5.06.P-We447 The Life Cycle Inventory of an Innovative Biorefinery for Polyhydroxyalkanoates Production | **Martina Pelliconi**, University of Bologna, Italy

5.06.P-We448 Life Cycle Assessment of the Electron Beam-Assisted Production of Thermoplastic Elastomers Based on Recycled Polyethylene and Polypropylene Waste | **Richard Zeumer**, University of Applied Sciences Dresden, Germany

5.06.P-We449 Life cycle assessment of advanced grade PLA product with novel end-of-life treatment through depolymerization | **Spela Ferjan**, TNO, Netherlands

5.06.P-We450 Updating Recycling and Substitution Ratios Throughout the Recycled Polyester Life Cycle | **Heather Logan**, Technical University of Denmark (DTU), Denmark

5.06.P-We451 Application of Life Cycle Assessment as a decision-making tool for eco-design in the development of an automated and digitalized production chain for speed-bumpers (AD CORSSI) | **Pablo de la Reta**, University of Liege, Belgium

5.06.P-We452 Development of an Approach for the Comprehensive Life Cycle Assessment of an Epoxy Resin System in Relation to Toxicity Categories | **Sabrina Diniz**, German Aerospace Center (DLR), Germany

5.06.P-We453 Lifecycle Challenges and Opportunities for Different Bio-Based Feedstocks | **Kealie Vogel**, Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland

5.06.P-We454 Life Cycle Assessment of single versus multiple use medical products: a case study for steam sterilization packaging | **Tiffany Ramos**, Roskilde University (RUC), Denmark

5.06.P-We455 Thermochemical decomposition and mechanical treatment of waste plastics as innovative and perspective technologies for production of recyclates | **Tatiana Trecakova**, University of Chemistry and Technology Prague (UTC), Czech Republic

5.06.P-We456 Early-stage process design: Applying the Safe and Sustainable by Design framework to recycling of acrylonitrile butadiene styrene (ABS) plastic from electronics | **Anna-Karin Hellström**, RISE Research Institute of Sweden, Sweden

5.06.P-We457 Decarbonization roadmap of the plastic industry in China through life cycle degradable plastics substitution | **Fan Wu**, Jinan University, China

5.06.P-We458 Understanding Stakeholder Perspectives to Overcome Barriers in Tackling Textile Fibre Pollution | **Miranda Prendergast-Miller**, Northumbria University, United Kingdom

5.06.P-We459 Comparative LCA of two chocolate-bars packaging alternatives: the contribution of raw materials and End-of-Life | **Eleonora Rossi**, University of Bologna, Italy

5.06.P-We460 A Comprehensive Life Cycle Assessment of Aircraft Cabin Interiors from Cradle to Grave | **Su Mohamad**, University of Sheffield, United Kingdom

5.06.P-We461 Life Cycle Assessment of Aircraft Cabin Interiors from Cradle to Grave | **Su Mohamad**, University of Sheffield, United Kingdom

Bird and Mammal Risk Assessment: Implementation of New Approaches for the Study of Higher-Level Effects in Wildlife Toxicology | Rafael Mateo, Stephanie Tokar, Suzane Qassim, PhD, Apostolos Koutsaftis

6.01.P-We462 Validation of Avian In Ovo Assay for Sex Steroid Hormone Disrupting Properties | **Andrea Rivero Arze**, Pepper, France

6.01.P-We463 Disentangling the Adverse Outcome Pathway of triazole fungicides on birds | **Claudia Santamaria Cervantes**, Instituto de Investigación en Recursos Cinegéticos (IREC) CSIC-UCLM-JCCM, Spain

6.01.P-We464 Predictive framework for estimating exposure to and risks of Second Generation Anticoagulant Rodenticides (SGARs) for kestrels (Falco tinnunculus) | **Ciara Marienne Sanchez Paredes**, University of York, United Kingdom

6.01.P-We465 Higher tier refinement of the risk assessment for birds and mammals: Residue decline patterns in foliage food items | **Kai Ristau**, BASF SE, Germany

6.01.P-We466 Mixture toxicity assessments in birds and mammals according to GD 2023 – is the calculated risk real? | **Sonja Wich**, BASF SE, Germany

6.01.P-We467 Refining Plant Residue Decline Data to Account For Decreasing Plant Water Content | **Nils Kehrein**, Bayer AG - Cropscience Division, Germany

6.01.P-We468 Time-to-Effect and Recovery of Effects in a Bird Reproduction Study Argues for Use of the Time-Weighted Average Factor (fTWA) for Eggshell Quality in the Regulatory Risk Assessment | **Katherine Coady**, Bayer AG - Crop Science Division, USA

6.01.P-We469 Applying a DEB-TKTD model to analyse avian reproduction study data: a case study with three fungicides and northern bobwhite | **Nika Galic**, Syngenta AG, Switzerland

6.01.P-We470 Benchmark Dose Modelling: Expectation vs Reality | **Sarah Priestly**, Cambridge Environmental Assessments (CEA), United Kingdom

6.01.P-We471 Bird-Brained? Migratory Bird Risk Assessment According to the New EFSA (2023) Bird and Mammal Guidance | **Helena Crosland**, Cambridge Environmental Assessments (CEA), United Kingdom

6.01.P-We472 Bridging the gap between first tier and higher tier risk assessments for seed treatments | **Michael Fryer**, Health and Safety Executive (HSE) - Chemical Regulation Division, United Kingdom

6.01.P-We473 Energy Content, Moisture Content and Energy Assimilation Efficiency by Birds and Mammals of Oil-containing Seeds and its Implications for Seed Treatment Risk Assessments | **Anja Russ**, Tier3 Solutions GmbH, Germany

6.01.P-We474 Outcome of a Virtual Workshop on Avian Higher Tier Studies Under the New EFSA Birds and Mammals Guidance Document | **Anja Russ**, tier3 solutions GmbH, Germany

6.01.P-We475 A Proposal on How to Consider 'Vulnerable Species' in Bird Focal Species Selection | **Anja Russ**, tier3 solutions GmbH, Germany

6.01.P-We476 Health Status of Animals Tagged in PT Studies: the Importance for Regulatory Acceptance | **Olaf Fuelling**, tier3 solutions GmbH, Germany

6.01.P-We477 GPS Tracking to Estimate Exposure of Birds and Mammals to Plant Protection Products for Risk Assessments | **Olaf Fuelling**, tier3 solutions GmbH, Germany

6.01.P-We478 Exclusion of Performance Outliers in Avian Reproduction Studies | **Gunther du Hoffmann**, Eurofins Agroscience Services, USA

6.01.P-We479 Spatial Approaches to Field Study Characterisation and Representativeness to Address EFSA Guidance on the Risk Assessment for Birds and Mammals | **Christopher Holmes**, Applied Analysis Solutions, LLC, USA

6.01.P-We480 Long-term Toxicity to Birds and Mammals – Early Experience and Approaches to Benchmark Dose Calculation According to the Update to the EFSA Guidance Document | **Apostolos Koutsaftis**, ERM Regulatory Services Limited, Netherlands

6.01.P-We481 Storks and Pesticides in Rice Fields: A Feathered Perspective on Ecological Risk | **Ricardo Petersen**, ERM International Group Limited, United Kingdom

6.01.P-We482 Effects of Agrochemical Usage on Ecosystem Services Provided by Rice Fields | **Ana Lopez Antia**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

6.01.P-We483 Determining risks of triazole fungicides to birds and invertebrates under field conditions | **Paula Bolívar**, Castilla La Mancha University (UCLM), Spain

6.01.P-We484 Impacts of triazole consumption on health and immunocompetence of passerine birds | **Jessica Jiménez Peñuela**, Institute for Game and Wildlife Research (IREC), Spain

6.01.P-We485 Behavioural Responses of Imidaclo-prid-dosed Farmland Birds to a Simulated Predation Risk | **Rafael Mateo**, Instituto de Investigación en Recursos Cinegéticos (IREC) CSIC-UCLM-JCCM, Spain

6.01.P-We486 Contamination of Second Generation Anticoagulant Rodenticides in the Eurasian Sparrowhawk and Assessment of Population Level Effects in the UK | **Lee Walker**, UK Centre for Ecology & Hydrology (UKCEH), United Kingdom

6.01.P-We487 Could the Use of Anticoagulant Rodenticides Against Plagues of Rabbits be the Cause of High Exposure in Predators and Scavengers? | **Antonio Juan Garcia-Fernandez**, Universidad de Murcia-IMIB, Spain

6.01.P-We488 Evolution of Plumbism in Waterfowl From "El Hondo" Natural Park (Southeastern Spain) since 1998 | **Antonio Juan Garcia-Fernandez**, Universidad de Murcia-IMIB, Spain

6.01.P-We489 Gene Loss events shaped the Chemical Defensome in Cetacea | **Maria Fernández Míguez**, University of Bergen, Norway

Can Science Help to Respond to the Regulatory Challenge to Demonstrate the Safe Use of Chemicals for Combined Toxicity in the Environment? | Hugo Waeterschoot, Joop De Knecht, Karel De Schamphelaere, Marnix Vangheluwe

6.02.P-We490 The Mixture Assessment (or Allocation) Factor as a tool for prospective mixture risk assessment: a discussion of the pros, cons and the way forward | **Thomas Backhaus**, University of Gothenburg, Sweden

6.02.P-We491 Substance-group specific Mixture Allocation Factors (MAFs) analysis using Dutch surface waters monitoring data | **Emiel Rorije**, National Institute for Public Health and the Environment (RIVM), Netherlands

6.02.P-We492 Comparison of mixture risk indicators in the aquatic environment | **Fabian Balk**, Swiss Centre for Applied Ecotoxicology, Switzerland

6.02.P-We493 MEED: Progress with the Metals Environmental Exposure Data Collection program to Anticipate the Challenges of the EU Zero Pollution Ambition Policy and the Chemicals Strategy for Sustainability | **Hugo Waeterschoot**, Eurometaux, Belgium

6.02.P-We494 Metal Mixture Effects in the Aquatic Environment: Evaluating the Potential for Refinement of the Default Mixture Allocation Factor (MAF) Based on Experimental Data | **Charlotte Nys**, ARCHE Consulting, Belgium

6.02.P-We495 The accuracy of the Concentration Addition and Independent action model to predict the toxicity of complex metal-metal mixtures to Daphnia magna – Is IA the better model? | **Franz Marius Schmitt**, Ghent University - GhEnToxLab, Belgium

6.02.P-We496 A Tiered Toolbox to Assess the Impact of Metal Emissions on Biodiversity Integrating Mixture Risk Calculations, Biomonitoring and Metabarcoding – Pilot Study with a Belgian Brook | **Karel Viaene**, ARCHE Consulting, Belgium

6.02.P-We497 Comparison of Herbicide Mixtures at Two Catchments in Belgium | **Hanna Schuster**, Cambridge Environmental Assessments (CEA), United Kingdom

6.02.P-We498 Evaluating the Effects of Metal Mixtures on Freshwater Invertebrate Communities | **Yamini Gopalapillai**, International Copper Association, Ltd., USA

6.02.P-We499 Systemic Toxicity Screening of Mixture Chemicals in Consumer Products in Korea: Case Study on Cleaning Products | **Yongmin Jung**, University of Seoul, Korea, Republic of

6.02.P-We500 Impact of exposure assumptions on the size of mixture assessment factors required to protect environmental receptors | **Arnd Weyers**, Bayer AG, United States

6.02.P-We501 Addressing the Impact of the Mixture Allocation Factor (MAF) on Environmental Risk Assessment: Refining Regulatory Exposure Predictions Using Spatial Data and Modelling Approaches | **Christopher Holmes**, Applied Analysis Solutions, LLC, USA

6.02.P-We502 Monitoring risks of chemical mixtures in humans | **Michael Olvedy**, European Commission - Joint Research Centre (JRC), Italy

6.02.P-We503 Review of the human mixture risk assessment cases: Research needs for scientific evidences to select mixture allocation factors in human MRA | **Sunmi Kim**, Korea Research Institute of Chemical Technology,

6.02.P-We504 Offshore Chemical Regulatory System & Risk Assessment | **Kirit Wadhia**, NOV Inc, United Kingdom

6.02.P-We505 Safety Assessment of Flow Battery Electrolytes in New Alternative Models Such as Zebrafish, Crustacean and Microalgae | **Arantza Muriana**, BBD BioPhenix S.L. - Biobide, Spain

Combining Prospective and Retrospective Soil Risk Assessment - From Predicted Risks Towards Holistic Approaches by Integrating Monitoring Results | Silvia Pieper, Mireia Marti-Roura, Paola Grenni, Claudia Lima

6.03.P-We506 Disentangling uncertainties in the Environmental Risk Assessment of pesticides for soil organisms – UNCERTAIN project | **José Paulo Sousa**, University of Coimbra, Centre for Functional Ecology, Portugal

6.03.P-We507 Ecotoxicological tests for assessing single and mixture effects of antibiotics and copper | **Alessandra Narciso**, Department of Ecological and Biological Sciences - Tuscia University, National Research Council - Water Research Institute (IRSA-CNR), Italy

6.03.P-We508 MICROSOIL - Investigation of Alternative Test Methods to Correctly Assess the Impact of Plant Protection Products, Biocides and Pharmaceuticals on Soil Microorganisms | **Vivian Reiermann**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

6.03.P-We509 Exploring the Biodiversity of Brazilian Soils: A Review on Earthworms, Enchytraeids, Collembolans, and Soil Mites | **Francisca Ribeiro**, ERM International Group Limited, Portugal

6.03.P-We510 Case Study on Soil Organism Species Richness and Abundance on Agricultural Sites in Germany | **Christoph Digel**, German Environment Agency (UBA), Germany

6.03.P-We511 The role of soil monitoring for the regulation of chemicals | **Pia Kotschik**, German Environment Agency (UBA), Germany

6.03.P-We512 Retrospective pesticide mixture risk assessment for agricultural soils | **Fabian Balk**, Swiss Centre for Applied Ecotoxicology, Switzerland

6.03.P-We513 Chemical, Ecotoxicological And Ecological Indicators In Risk Assessment Of The Agricultural Area Long-Term Contaminated With Organic Pollutants | **Agnieszka Klimkowicz-Pawlas**, Institute of Soil Science and Plant Cultivation - State Research Institute, Poland

6.03.P-We514 ARAGORN: Achieving Remediation And Governing Restoration of contaminated soils Now | **Hans Peter Arp**, Norwegian University of Science & Technology (NTNU), Norwegian Geotechnical Institute (NGI), Norway

6.03.P-We515 Using vis-NIR spectroscopy for the evaluation of environmental quality in agricultural areas potentially contaminated | **Valeria Ancona**, Italian National Research Council - Water Research Institute (CNR-IRSA), Italy

Environmental Toxicology and Chemistry in Africa: Exchanging Knowledge and Progress on Tackling Legacy and Emerging Pollutants | Tarryn Lee Botha, Iseult Lynch, Jon S McCosh, Jason Weeks

6.04.P-We516 Comprehensive Chemical Analysis to Unravel Exposure to Chemical Mixtures in Kenyan Rivers | **Isaac Tanui**, Goethe University, Moi university, Helmholtz Centre for Environmental Research (UFZ), Kenya, Germany

6.04.P-We517 Water Quality Challenges in South Africa: Gauging the Size of the Problem | **Nick Rivers-Moore**, Nick Rivers-Moore Aquatics, South Africa

6.04.P-We518 Let It Burn – Evaluation of Polycyclic Aromatic Hydrocarbon Emissions from Sugar Cane Pre-harvest Combustion | **Patricia Forbes**, University of Pretoria, South Africa

6.04.P-We519 Introduction to the Session on Understanding Pollution Issues Facing Low- And Middle-Income Countries, Sharing Knowledge with the Global South | **Jason Weeks**, IEH Consulting Ltd., United Kingdom

6.04.P-We520 Metal Element and Organochlorine Pesticide Levels in Elasmobranchs from the East and South Coast of South Africa. | **Victor Wepener**, North-West University, South Africa

6.04.P-We521 Integrated Knowledge Systems Towards Flood Resilience and Sustainable Solid Waste Management in South African Urban Informal Settlements | **Admire Nyamwanza**, Institute of Natural Resources NPC, South Africa

6.04.P-We522 Achieving Community-Led Solid Waste Pollution Mitigation at the Catchment Scale: The Case of the Umkhomazi and Umngeni Catchments in Kwazulu-Natal, South Africa | **Hlengiwe Zuma**, Institute of Natural Resources (INR), South Africa

6.04.P-We523 Human Health Risk Assessments of Selected Metals in the Qwaqwa Region River Waters | **Ngitheni Nyoka**, University of the Free State, South Africa

6.04.P-We524 Microplastics across the drinking water supply chain of Addis Ababa, Ethiopia. | **Selamawit Tekle**, Ghent University, Belgium

6.04.P-We525 Spring Protection For Sustainable Water Supply: A Case Study Of Water Use And Quality Within Two Selected Sub-Catchments In Kwazulu-Natal Province, South Africa | **Thabo Makhubedu**, Institute of Natural Resources (INR), South Africa

6.04.P-We526 Application of bioassays for the evaluation of aquatic toxicity of a WWTP effluent in Western Cape, South Africa | **Beatrice Opeolu**, Cape Peninsula University of Technology, South Africa

6.04.P-We527 Examining Polycyclic Aromatic Hydrocarbons in the Orange-Senqu River Catchment: Impact on Ecosystems and Health | **Rialet Pieters**, North-West University, South Africa

6.04.P-We528 Abidjan Convention and the Chemical Management Strategy | **Kirit Wadhia**, NOV Inc, United Kingdom

6.04.P-We529 Investigating the feasibility of phycoremediation for dairy milking parlour wastewater in South Africa. | **Jon McCosh**, Institute of Natural Resources (INR), South Africa

6.04.P-We530 Odonata as indicators of heavy metals and environmental impact on an operational gold mine in South Africa. | **Velesia Lesch**, North-West University, South Africa

6.04.P-We531 Occurrence, Elimination and Risk Assessment of Organic Micropollutants: A Case Study of Selected Wastewater Treatment Plants in Western Kenya | **Faith Kandie**, Moi University, Kenya

How to Effectively Communicate Results From Environmental Assessment Frameworks to Support the Decision-Making Process | Monia Niero, Agneta Ghose, Timen Mattheüs Boeve, Giovanni Codotto

6.06.P-We532 Holistic multiple stressor impact assessment methodology for application to vulnerable and disadvantaged communities | **Charlie Menzie**, Exponent Inc., USA

6.06.P-We533 How can we explain to the public what Sick Building Syndrome is and how to defend against it? | **Pavla Fojtíková**, University of South Bohemia Ceske Budejovice, Czech Republic

6.06.P-We534 Combining LCA and eLCC with a Foresight Exercise: Sustainability Assessment of Water Reuse Chains in the Mediterranean | **Valentina Guerrieri**, University of Bologna, Italy

6.06.P-We535 Avoiding errors of the third kind: Prescriptive decision analysis to bridge the gap between public knowledge needs and scientific knowledge generation | **Timothy Canfield**, U.S. Environmental Protection Agency, USA

Science Communication: Reaching Outside of the Scientific Bubble | Annika Mangold-Döring, Lena Benner, John Daniel Hader, David Mennekes

6.10.P-We537 Using a Consumer-App to inform citizens and pressure chemical substitution and regulation | **Janna Kuhlmann**, Bund für Umwelt und Naturschutz BUND eV, Friends of the Earth Germany, Germany

6.10.P-We538 Bridging the Gap in Science Communication: From Scientific Understanding to Public Reception | **David Mennekes**, ETH Zürich, Switzerland

6.10.P-We539 Sharing your Science and Making it Sticky | **Laura McConnell**, Bayer Crop Science, USA

6.10.P-We540 The Interweaving – of the synthetic and natural world | **Hans Peter Arp**, Norwegian Geotechnical Institute (NGI), Norwegian University of Science & Technology (NTNU), Norway

6.10.P-We541 ZeroPM on youtube | **Hans Peter Arp**, Norwegian Geotechnical Institute (NGI), Norwegian University of Science & Technology (NTNU), Norway

6.10.P-We542 The PARC ambition to communicate to gain impact | **Sónia Namorado**, National Institute of Health Doutor Ricardo Jorge, Portugal

6.10.P-We543 Communicating the Complexities of Plastic Pollution in a Polarized Media Landscape | **Nanna Hartmann**, Technical University of Denmark, Denmark

6.10.P-We544 Phytoremediation for Public Engagement – An Interdisciplinary Project Bringing Together Art and Science | **Jessica Chadwick**, University of Birmingham, United Kingdom

6.10.P-We545 Scientific Communication from an Industrial Science Perspective: Gaps and Opportunities | **Erin Maloney**, Shell International, Netherlands

6.10.P-We547 Bridging the Gap Between Research and Stakeholder Needs for Effective AquaticPollutants Management | **Sabrina Giebner**, Society for Chemical Engineering and Biotechnology e.V. (DECHEMA), Germany

6.10.P-We548 Sailing Scientists- Exploring water quality through water sports | **Katie Reilly**, University of Birmingham, United Kingdom

6.10.P-We549 Watch on the Rhine – RIWA-Rijn - Turning River Water Quality Data into a River of Quality Water Data | **Rozemarijn Neefjes**, RIWA-Rijn, Netherlands

6.10.P-We550 Full STEAM Ahead: Merging Science and Communications to Investigate Environmental Questions | **Gretchen Bielmyer-Fraser**, Jacksonville University, USA

In Silico Approaches Toward Safer Use and Green Design of Chemicals: Present Achievements and Future Challenges | Ester Papa, Alessandro Sangion

7.02.P-We551 Bridging Gaps, Recognizing Limits: Machine Learning in Chemical Toxicity Characterization | **Kerstin von Borries**, Technical University of Denmark (DTU), Denmark

7.02.P-We552 In Silico Prediction of the Human Transthyretin Binding Affinity | **Ester Papa**, University of Insubria, Italy

7.02.P-We553 Endocrine Disrupting Chemical (EDC) Screening of Additive Chemicals in Plastics Using In vitro ToxCast Data, In Silico Molecular Docking and QSAR Models | **Kimoon Na**, University of Seoul, Korea, Republic of (South)

7.02.P-We554 Chemical Space Covered by Applicability Domains of Quantitative Structure-Property Relationships and Semi-empirical Relationships in in silico Chemical Assessments | **Li Li**, University of Nevada, Reno, USA

7.02.P-We555 Consolidated Octanol/Water Partition Coefficients: Combining Multiple Estimates from Different Methods to Reduce Uncertainties in log Kow | **Monika Nendza**, Analytisches Laboratorium, Germany

7.02.P-We556 How to build trust in the use of Artificial Intelligence for Chemical Risk Assessment? | **Pim Wassenaar**, National Institute for Public Health and the Environment (RIVM), Netherlands

7.02.P-We557 Ecotoxicological Quantitative Structure-Activity Relationship Model Performances, and how they Underpredict Very Toxic Compounds | **Patrik Svedberg**, University of Gothenburg, Sweden

7.02.P-We558 Implementing in silico approaches for human toxicity prediction in the Dutch drinking water sector | **Renske Hoondert**, KWR Water Research Institute, Netherlands

7.02.P-We559 Are We Justified in Modeling Human Exposure to Chlorinated Paraffin Mixtures Using the Average Properties of Congeners and Homologues? | **Chengkang Chen**, University of Toronto, Canada

7.02.P-We560 EAS-E Suite: A comprehensive web-based platform to integrate in vivo, in vitro and in silico data for chemical safety and sustainability | **Alessandro Sangion**, Arnot Research and Consulting Inc. (ARC), Canada

7.02.P-We561 Screening the Persistency, Mobility, and Toxicity of Pharmaceuticals and Personal Care Products Using In Silico Strategies | **Ester Papa**, University of Insubria, Italy

7.02.P-We562 Developing Sustainable Alternatives for Persistent, Mobile, and Toxic Chemicals: A Safe and Sustainable by Design (SSbD) Approach | **Bianca Stadelmann**, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Netherlands

7.02.P-We563 Support of persistence assessment under REACH and CLP using in silico predictions | **Antje Gerloff-Elias**, knoell Germany GmbH, Germany

7.02.P-We564 Computational Characterization of Sulfate-Reducing Bacteria Inhibitors to Overcome Methanogenic Competence and Optimize Green Biogas Production | **David Talavera Cortés**, ProtoQSAR, Spain

Safe and Sustainable by Design Advanced Materials: What Does It Take? | Irantzu Garmendia Aguirre, Carla Caldeira

7.04.P-We565 Safe and Sustainable-by-Design – A Guidance to Unleash the Transformative Power of Innovation | **Eva-Kathrin Schillinger**, European Chemical Industry Council (CEFIC), Belgium

7.04.P-We566 Towards Regulatory Preparedness of Advanced Materials: the OECD Early4AdMa System | **Elmer Swart**, National Institute for Public Health and the Environment (RIVM), Netherlands

7.04.P-We567 Implementing Safe and Sustainable by Design (SSbD) approach in the design of biobased, recyclable multifunctional composites for automotive and aeronautical sectors | **Elena Destro**, Italian Association for Industrial Research, Italy

7.04.P-We568 Learning from Safe-by-Design for Safe-and-Sustainable-by-Design: Mapping the Current Landscape of Safe-by-Design Reviews, Case Studies, and Frameworks | **Akshat Sudheshwar**, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland

7.04.P-We569 Safe and Sustainable Innovation Approach: Towards an agile system for dealing with innovation | **Lya Soeteman-Hernandez**, RIVM, Netherlands

7.04.P-We570 Sustainable product innovations for fast-moving consumer goods – Learning from companies' experiences for a more effective and accessible 'Safe and Sustainable by Design' framework | **Florence Bohnes**, Unilever R&D Colworth, United Kingdom

7.04.P-We571 Safe, Sustainable and Recyclable by-Design (SSRbD) integrated approach applied to polymeric systems | **Virginia Cazzagon**, Leitat Technological Center, Spain

7.04.P-We572 Safe and Sustainable by Design Framework for Advanced Nanomaterials: The Harmless Approach | **Elise Morel**, UK Centre for Ecology & Hydrology (UKCEH), United Kingdom

7.04.P-We573 A science-based innovative dashboard tool to operationalise Safe-and-Sustainable-by-Design | **Leo Posthuma**, National Institute for Public Health and the Environment, Netherlands

7.04.P-We574 Socio-Economic Life Cycle-based Framework for Safe and Sustainable by Design of Advanced Materials | **Katharina Mayer**, Yordas Group, Germany

7.04.P-We575 SSbD application: widening Step 1 to environmental, economic and social considerations for early stage decision making | **Natalia Fernández Pampín**, Universidad de Burgos, Spain

7.04.P-We576 Ensuring regulatory Alignment in the Research & Innovation of five market-relevant Advanced Materials | **Steffi Friedrichs**, AcumenIST, Belgium

7.04.P-We577 Enhancing the European Commission's Safe and Sustainable by Design Framework for Chemicals and Materials | **Irantzu Garmendia Aguirre**, European Commission - Joint Research Centre (JRC), Belgium

7.04.P-We578 Testing Tools for Suitability for SSbD in Early Phases of Innovation, Applied to BPA and Alternatives | **Maja Halling**, Swedish Environmental Research Institute (IVL), Sweden

7.04.P-We579 Safe and Sustainable by Design strategies validated for toxicity reduction applied to active nanomaterials with antibacterial and antiviral properties | **Arantxa Ballesteros Riaza**, Technological Institute of Packaging, Transport and Logistics, Spain

7.04.P-We580 Challenges in the Evaluation of the Environmental Sustainability of Advanced Materials: the Case of Printable Electronics | **Martina Pelliconi**, University of Bologna, Italy

7.04.P-We581 Assessing the Impact of Nanomaterials on D. magna, R. subcapitata, and E. foetida: Towards Safer and Greener Nanomaterials through SSbD strategies - Titanium Dioxide Nanoparticles as a case study | **Javier Alcodori**, Technological Institute of Packaging, Transport and Logistics (ITENE), Spain

7.04.P-We582 Safe and Sustainable by Design: Case Study of Microreactors and Bionanocompounds for Wastewater Treatment | **Olga Fuentes**, University of Bordeaux, France

7.04.P-We583 Investigation of ecotoxicological effects of fibrous and platelet-shaped advanced materials for deriving adapted testing strategies - the project FaPlaN | **Dana Kühnel**, Helmholtz Centre for Environmental Research (UFZ), Germany

7.04.P-We584 Eco/Genotoxicity Assessment Of Yeast-based Natural Astaxanthin Obtained Using Bio-Based Solvents | **Amanda dos Santos**, School of Pharmaceutical Sciences - São Paulo State University, Brazil

7.04.P-We585 Engaging chemists in ethical deliberations of relevance for chemical management | **Gunilla Oberg**, The University of British Columbia, Canada

SETAC EUROPE 35TH ANNUAL MEETING

11-15 MAY 2025 | VIENNA, AUSTRIA

THURSDAY SCHEDULE		
09:00–15:00	Badge Pick-up & Registration & Cloakroom	Outside Ramp (Registration Are)
09:00–11:30	Speaker Ready Room Open	Secretaria 1
09:00–09:30	Poster Setup	
09:30–10:50	**Presentation Sessions**	
10:50–11:35	Coffee & Poster Break	Exhibition Areas
11:35–12:55	**Presentation Sessions**	
12:55–14:20	Lunch & Poster Break	Exhibition Areas
14:25–15:00	**Closing Ceremony**	**Auditorium 1**

★ Special Session

11:35 - 12:55 | Madrid ABC

8.02 - Are We There Yet? – Ways Forward for Mechanistic Effect Modeling in Environmental Risk Assessment

Andreas Focks, Devdutt Kulkarni, Vanessa Roeben

The purpose of this session is to bring together representatives of academia, industry as well as consultants and regulatory authorities to discuss experiences, lessons learned, shortcomings, frustrations, wishes, and potential solutions regarding the development and evaluation of effect models intended to refine risks. Considering the tripartite nature of SETAC, this special session will provide a platform for a relevant and timely discussion to support the entire process. Industry/consultancies will present their experience with model development and submission, the challenges they face, and the feedback they expect or have experienced. Regulators will share their experience with these evaluations and highlight the most common issues and shortcomings of such models, along with constructive feedback, which would benefit the regulatory process. Academics, with their scientific standpoint will provide their view on the process, the status of model development, and model evaluation.

The ultimate goal is to identify elements of the current model development, application and evaluation processes that appear valuable and should be continued, but as well blockers that would ideally be stopped, and activities, and strategies that need to be started in the future to support constructive feedback and collaboration. Such collaborative analysis will benefit all stakeholders and overall lead to a more holistic and safe risk assessment.

The outcomes of this Special Session are to be summarized in a SETAC globe article.

Join Us for the Closing Ceremony!

14:25–15:00 | Auditorium 1

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 Seville Programme Committee Chairs and newly elected SETAC Europe President and get a taste of next year's meeting in Vienna, Austria.

Thursday Platform Presentations Morning 1

	09:35	09:50	10:05
Auditorium 1	**Tire-Road Wear Particles: Analytical Possibilities, Challenges, and Current Knowledge of Environmental Impact	...**		
	3.23.A.T-01 Occurrence and Leaching Potential of Tire Rubber-Derived Compounds from Vancouver Road Dust	**Yanru Wang**, Department of Civil Engineering, University of British Columbia, Canada	**3.23.A.T-02** Analysis of tyre wear and other road-derived microplastics collected from urban roadside via atmospheric deposition sampling	**Stefan Krause**, School of Geography, Earth and Environmental Sciences, University of Birmingham, United Kingdom	**3.23.A.T-03** Breaking Down and Disentangling the Complexity of Road Runoff – Results from Three Comprehensive Road Runoff Case Studies in Aachen, Germany	**Markus Schmitz**, Goethe University Frankfurt, Germany
Auditorium 2	**Circularity Strategies and Life Cycle Thinking: Ensuring the Way to Sustainability**	Valeria De Laurentiis, Davide Tosches, Carla Caldeira	
	5.01.A.T-01 A conceptual framework to enable the implementation of circular economy strategies in support of sustainable production and consumption	**Stéphanie Muller**, Bureau de recherches géologiques et minières, BRGM, France	**5.01.A.T-02** A Model to Assess Environmental and Economic Impacts of Waste Management in Europe	**Paola Federica Albizzati**, European Commission - Joint Research Centre (JRC), Spain	**5.01.A.T-03** Modelling the Environmental and Socio-Economic Impacts of Existing and Novel Technologies for Textile Waste Management in the EU: Methods, Data Sources and Hotspots	**Martyna Solis**, Technical University of Denmark (DTU), Denmark
Auditorium 3	**New Approach Methodologies (NAMs) – Robust Predictions for Addressing Regulatory Challenges in the Field of Ecotoxicology	...**		
	1.11.T-01 Commission Roadmap towards Phasing out Animal Testing for Chemical Safety Assessments	**Georg Streck**, European Commission - DG GROW, Belgium	**1.11.T-02** Building an alternative fish to improve current environmental risk assessment schemes for chemicals	**Kristin Schirmer**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland	**1.11.T-03** Integration of Endocrine Modalities into an Existing Mechanism of Action-based In Silico Scheme for use in Environmental Risk Assessment	**James Firman**, Liverpool John Moores University, United Kingdom
Madrid ABC	**Measuring Chemicals in the Environment – Maximising the Utility of Monitoring Data for Environmental Assessment**	Graham Merrington, Lisa Nowell, Adam C Ryan	
	3.16.T-01 An Approach for Evaluating the Reliability of Measured Environmental Concentrations in Environmental Risk Assessment	**Iain Wilson**, wca environment Ltd., United Kingdom	**3.16.T-02** Assessing the Reliability and Relevance of a Dataset for Evaluating the Occurrence of Hexa(methoxymethyl)melamine in Surface Waters	**Jeanne Vuaille**, European Environment Agency (EEA), Denmark	**3.16.T-03** Trend Analysis of Environmental Concentrations of Bisphenol A in European waters	**Chesney Swansborough**, Ricardo Energy & Environment, United Kingdom
d DEF	**Nano and Advanced Materials Safety: Research Progress, Industrial Applications and Regulation	...**		
	6.08.A.T-01 Nano-Adsorbents for sustainable remediation: efficiency evaluation and fate after utilization	**Nitin Khandelwal**, Indian Institute of Technology Roorkee, India	**6.08.A.T-02** Nanofertiliser Use Can Reduce Volatilized N Emissions from Soil – Reducing the Pollution from Crop Production	**Jessica Chadwick**, University of Birmingham, United Kingdom	**6.08.A.T-03** Integrated Approaches for Environmental Safety Assessment of Nanoforms Embedded in Paint Fragments – SAbyNA Project	**Patricia Solorzano**, Leitat, Spain
Bruselas	**Advances in Bioaccumulation Science and Assessment**	Leslie J Saunders, Karla M. Johanning, Markus Brinkmann, Johannes Raths	
	3.01.A.T-01 Bioaccumulation Kinetics of Per- and Polyfluoroalkyl Substances in Pimphales promelas	**Jaylen Sims**, Environmental Science & Public Health, Baylor University, USA	**3.01.A.T-02** Significant Bioaccumulation of NSO-Heterocyclic PAHs in Daphnia Magna Was Observed Under Controlled Exposure with Passive Dosing	**Goksu Celik**, Technical University Dresden, Germany	**3.01.A.T-03** Integrating in Vitro Intrinsic Clearance (OECD TG 319B) for BCF Prediction in a Regulatory Context – Fragrance Chemicals as Case Studies	**Heike Laue**, Givaudan Schweiz AG, Switzerland
Paris	**Biodiversity, Ecosystem Services and Ecological Risk Assessment: Advances and Challenges**	Marie-Hélène Enrici, Sabine Elisabeth Apitz, Gabriel Sigmund	
	4.02.T-01 Navigating Management Strategies in Mediterranean Coastal Wetlands: An Ecosystem Services Perspective	**Pablo Amador**, University of Valencia, Spain	**4.02.T-02** Accounting for the Impact of PPPs on Ecosystem Services by Ecological Models: An Example for Pest Control	**Andreas Focks**, Osnabrück University, Germany	**4.02.T-03** Individual effects to Ecosystem Services: Insights from DEB IBMs on Freshwater Shredder Species	**Niamh O'Connor**, University of Sheffield, United Kingdom
Al Andalus (Fibes 1)	**Improving Chemical Regulation Through Robust Science, Data Accessibility, and Interdisciplinary Collaboration	...**		
	6.07.A.T-01 The implementation of the substitution principle in European chemical legislation: a comparative analysis	**Thomas Backhaus**, RWTH-Aachen University, University of Gothenburg, Germany, Sweden	**6.07.A.T-02** Understanding Policy Incoherence as a Driving Force for the Lock-in of Hazardous Chemicals in Automotive Plastics	**Anna Shalin**, Empa – Swiss Federal Laboratories for Material Science and Technology, ETH Zurich, Switzerland	**6.07.A.T-03** Mapping Substances Subject to Overlapping Regulations within the EU's Chemicals Regulatory Framework	**Mathilda Andreassen**, Stockholm University, Sweden
Italica (Fibes 1)	**Pharmaceuticals in the Environment – Risk Assessment, Regulation, and New Insights Into the Science Globally**	John Wilkinson, Dean Leverett, Todd Davidson	
	3.20.A.T-01 Global Megatrends: the critical role of pharmaceuticals in health and environment	**Stewart Owen**, AstraZeneca UK Ltd, United Kingdom	**3.20.A.T-02** Pharmaceutical Contamination of European River Systems	**Jun Li**, University of York, United Kingdom	**3.20.A.T-03** Temporal Analysis of EcoPharmacoVigilance Data; Insights from Measured Environmental Concentrations of Active Pharmaceutical Ingredients (APIs) since 1996	**Irene Bramke**, AstraZeneca, Netherlands
Ronda (Fibes 1)	**Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment**	Marianne Elizabeth Glascott, Guido Gonsior, Aida Farag, Zhongli Chen	
	2.02.A.T-01 Chronic multigenerational radionuclide exposure in Lemna minor: from epigenetics to population	**Luca Boldrini**, SCK CEN, Belgium	**2.02.A.T-02** Amendments Improve Performance of Perennial Native Plants for Revegetation of Acidic Mine Tailings Over Time	**David Olszyk**, U.S. Environmental Protection Agency (US EPA), United States	**2.02.A.T-03** Measuring the effect of time variable concentrations on green microalgae: a laboratory comparison study	**Cecilie Rendal**, Syngenta, United Kingdom

Thursday Platform Presentations Morning 1

	10:20	10:35
Auditorium 1	Elisabeth Støhle Rødland, Stephan Wagner, Frank G.A.J. van Belleghem, Farhan R. Khan	
	3.23.A.T-04 Quo Vadis Tire Wear Leachable? – Suspect Screening for More than 70 Tire Wear Leachables in the Aquatic Environment	**Kathrin Müller**, Hochschule Fresenius, Germany	**3.23.A.T-05** Discussion
Auditorium 2	**Circularity Strategies and Life Cycle Thinking: Ensuring the Way to Sustainability**	Valeria De Laurentiis, Davide Tosches, Carla Caldeira	
	5.01.A.T-04 How to reach an absolute sustainability and circularity in the building sector?	**Nada Bendahmane**, CSTB, France	**5.01.A.T-05** Assessing the potential of exergy as a thermodynamic material and energy efficiency indicator to guide the optimisation of industrial symbiosis projects	**Marie Lourioux**, CIRAIG Polytechnique Montreal, Canada
Auditorium 3	Anna-Maija Nyman, Lennart Weltje, Mark Cronin, Paul Thomas	
	1.11.T-04 Predicting Aquatic Toxicity of Surfactants Using Simulated Coarse-Grained Membrane-Water Coefficient Derived QSARs	**Andrea Gredelj**, Norwegian Geotechnical Institute (NGI), Unilever - Safety and Environmental Assurance Centre (SEAC), Norway, United Kingdom	**1.11.T-05** Poster spotlight: 1.11.P-Th064, 1.11.P-Th065, 1.11.P-Th066
Madrid ABC	**Measuring Chemicals in the Environment – Maximising the Utility of Monitoring Data for Environmental Assessment**	Graham Merrington, Lisa Nowell, Adam C Ryan	
	3.16.T-04 Concentrations of copper in the environment across the EU: an analysis of national copper monitoring data and the influence of land use	**Gareth Le Page**, Battelle UK, United Kingdom	**3.16.T-05** Persistence, seasonality and sporadic releases of micropollutants within the urban water cycle - the benefit of four-year monitoring program	**Maricor Arlos**, Department of Civil and Environmental Engineering, Canada
d DEF	Marianne Matzke, Kai Benjamin Paul, Susana Loureiro, Nitin Kumar Khandelwal	
	6.08.A.T-04 Safe and sustainable by design approach for the safety assessment of advanced bio-based nanomaterials used for the production of polyurethane foams	**Rossella Bengalli,** POLARIS Research Center, University of Milano-Bicocca, Italy	**6.08.A.T-05** Poster spotlight (A): 6.08.P-Th536, 6.08.P-Th537, 6.08.P-Th546
Bruselas	**Advances in Bioaccumulation Science and Assessment**	Leslie J Saunders, Karla M. Johanning, Markus Brinkmann, Johannes Raths	
	3.01.A.T-04 Application of the Chemical Activity Approach to Assess the Bioaccumulation and Risks of PFAS in Aquatic and Terrestrial Wildlife at PFAS impacted Sites and Ecosystems	**Frank Gobas**, Simon Fraser University; School of Resource & Environmental Management, Canada	**3.01.A.T-05** Temperature Effects on Organic Compound Uptake and Elimination Rates in Aquatic Species	**Lea Grenc**, Radboud University, Netherlands
Paris	**Biodiversity, Ecosystem Services and Ecological Risk Assessment: Advances and Challenges**	Marie-Hélène Enrici, Sabine Elisabeth Apitz, Gabriel Sigmund	
	4.02.T-04 Evidence of Chemical Impact on Biodiversity	**Marta Baccaro**, European Commission - Joint Research Centre (JRC), Belgium	**4.02.T-05** Assessing Risks to Biodiversity from Exposure to Chemicals: Findings of an ECETOC Task Force on Biodiversity Definitions, Metrics, and Methodologies	**Aaron Stoler**, Exxon Mobil, United States
Al Andalus (Fibes 1)	Marlene Ågerstrand, Mathilda Andreassen, Caroline Moermond, Jan Woelz	
	6.07.A.T-04 Prioritization and Identification of Emerging Pollutants for National Environmental Screening and Monitoring Programs in Norway	**Aina Charlotte Wennberg**, Norwegian Institute for Water Research (NIVA), Norway	**6.07.A.T-05** Data Harmonization of Contaminants in Fishery Products for Improvement in National Monitoring Programmes: the Spanish Case Study	**Maria Vittoria Barbieri**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain
Italica (Fibes 1)	**Pharmaceuticals in the Environment – Risk Assessment, Regulation, and New Insights Into the Science Globally**	John Wilkinson, Dean Leverett, Todd Davidson	
	3.20.A.T-04 Distribution, Bioaccumulation and Ecological Risk Assessment of Contaminants of Emerging Concern in the Freshwater-Sediment-Fish System	**Diana Manjarrés**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain	**3.20.A.T-05** Engaging Citizen Scientists to Support Monitoring of Contaminants of Emerging Concern in Coastal Environments	**Jasmin Uhlhorn**, Brunel University London, United Kingdom
Ronda (Fibes 1)	**Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment**	Marianne Elizabeth Glascott, Guido Gonsior, Aida Farag, Zhongli Chen	
	2.02.A.T-04 Reproducibility, Reliability and Regulatory Relevance of Terrestrial Plant Visual Injury (PVI) assessments	**Rena Isemer**, Bayer AG, United States	**2.02.A.T-05** Simulating ecosystem services of natural plant communities of importance for indirect effects on Endangered Species: the IBC-Grass model as a case study	**Zhenglei Gao**, Bayer AG, Germany

COFFEE & POSTER BREAK

Thursday Platform Presentations Morning 2

	11:40	11:55	12:10
Auditorium 1	**Tire-Road Wear Particles: Analytical Possibilities, Challenges, and Current Knowledge of Environmental Impact	...**		
	3.23.B.T-01 Tire and road wear particles contamination in infiltration ponds sediments: occurrence, spatial variability, size distribution and correlation with metals	**Tiago De Oliveira**, Gustave Eiffel University, France	**3.23.B.T-02** Bioaccessibility of Antioxidants, Antiozonants and Other Tire Hazardous Chemicals.	**Sergio Soñora**, University of Santiago de Compostela, Spain	**3.23.B.T-03** Effects of Weathered Tire Wear Micro- and Nanoparticles in the Model Estuarine Species Fish Menidia Beryllina and Mysid Shrimp Americamysis bahia	**Clarissa Raguso**, Milano-Bicocca University - Oregon State University, USA
Auditorium 2	**Circularity Strategies and Life Cycle Thinking: Ensuring the Way to Sustainability**	Valeria De Laurentiis, Davide Tosches, Carla Caldeira		
	5.01.B.T-01 The Environmental Costs of Clean Cycles: Quantitative Analysis for the Case of PVC Window Profile Recycling in Germany	**Sarah Schmidt**, University of Kassel, Germany	**5.01.B.T-02** Bioenergy with Carbon Capture and Storage as Catalyst for Carbon-Negative Products – A Life Cycle Assessment Case Study of Olive Oil Production	**Ángel Galán Martín**, University of Jaén, Spain	**5.01.B.T-03** Environmental impacts of reducing medication waste by redispensing unused oral anticancer drugs: a life cycle assessment	**Anne Ottenbros**, Radboud University, Netherlands
Auditorium 3	**Better Alignment of New Approach Methodologies and Adverse Outcome Pathways to Support Next Generation Risk Assessment	...**		
	1.05.T-01 The Cross-Species Applicability of the Thyroid Hormone System Disruption (THSD) AOP Network and it's Utilisation in Cross-species Extrapolations	**Ann-Cathrin Haigis**, University of Antwerp, Belgium	**1.05.T-02** Bridging the gap between human toxicology and ecotoxicology via the development of Cross Species Adverse Outcome Pathway: a case study on silver nanoparticles	**Elizabeth Dufourcq Sekatcheff**, University of Seoul, Korea, Republic of (South)	**1.05.T-03** Explainable Artificial Intelligence Models for Developmental and Reproductive Toxicity Prediction using ToxCast Data in Adverse Outcome Pathway Framework	**Donghyeon Kim**, University of Seoul, Korea, Republic of (South)
Madrid ABC	★**Are We There Yet? – Ways Forward for Mechanistic Effect Modeling in Environmental Risk Assessment**	Andreas Focks, Devdutt Pratap Kulkarni, Vanessa Roeben		
	11:40	**11:45**	**11:50**
	8.02.T-01 Industry opinion on model development and submission – Challenges and requests	**Nika Galic**, Syngenta AG, Switzerland	**8.02.T-02** Regulatory perspective on model evaluation – Challenges and feedback	**Matthias Fürst**, Austrian Agency for Health and Food Safety (AGES), Austria	**8.02.T-03** CRO's viewpoint on model development and evaluation – Challenges and feedback	**Oliver Jakoby**, RIFCON GmbH, Germany
Madrid DEF	**Nano and Advanced Materials Safety: Research Progress, Industrial Applications and Regulation	...**		
	6.08.B.T-01 Inhalation hazard of multicomponent Advanced Materials: a case of successful confirmation of New Approach Methodologies (NAMs) by in vivo data	**Veronica Di Battista**, Technical University of Denmark, BASF SE, Denmark, Germany	**6.08.B.T-02** Acute and Subacute Toxicity of Micro- and Nanoplastics from 3D printing: a Repeated 28-day In Vitro Approach Using an Advanced Human Bronchial Epithelial Model	**Alberto Katsumiti**, GAIKER Technology Centre, Spain	**6.08.B.T-03** Case studies assessing suitability of in silico modelling tools and read-across approaches for nanomaterial hazard assessment	**Laurence Deydier Stephan**, European Chemicals Agency, Finland
Bruselas	**Advances in Bioaccumulation Science and Assessment**	Leslie J Saunders, Karla M. Johanning, Markus Brinkmann, Johannes Raths		
	3.01.B.T-01 Advances in Bioaccumulation Assessments of Transformed Nanomaterials Under Environmentally Relevant Conditions	**Sebastian Kuehr**, Norwegian Institute for Water Research (NIVA), Norway	**3.01.B.T-02** Biomagnification in Polar Bears: The Role of Interindividual Differences, Dietary Ingestion Rate and the Gut Microbiome	**Yuhao Chen**, University of Toronto, Canada	**3.01.B.T-03** Using An In Silico NAMs Approach To Predict Bioaccumulation In Fish: A Case Study For Anionic Surfactants Within A Regulatory Context	**Jayne Roberts**, Unilever - Safety and Environmental Assurance Centre (SEAC), United Kingdom
Paris	**Climate Change and Chemical Contamination: From Combined Effect Studies to Environmental Risk Modelling	...**		
	7.01.T-01 The Interactive Effects of Temperature and Chemicals at Different Levels of Biological Organization of Aquatic Ecosystems	**Paul van den Brink**, Wageningen University & Research, Netherlands	**7.01.T-02** Combined effects of heat waves and pesticide pollution in aquatic ecosystems: does the timing of stressor matter?	**Andreu Rico**, University of Valencia, Spain	**7.01.T-03** Future Risks for Migrating Salmonids Exposed to Chemicals from Road Runoff	**Rik Oldenkamp**, Vrije University Amsterdam, Netherlands
Al Andalus (Fibes 1)	**Improving Chemical Regulation Through Robust Science, Data Accessibility, and Interdisciplinary Collaboration	...**		
	6.07.B.T-01 FAIR data to support Chemical Risk Assessment and Regulation – The PARC ambition and approach	**Iseult Lynch**, University of Birmingham, United Kingdom	**6.07.B.T-02** A database on pharmaceuticals in the environment: what do stakeholders need?	**Cristiana Cannata**, Radboud University Nijmegen, Netherlands	**6.07.B.T-03** Towards FAIR Sharing of Chemical Monitoring Data	**Stephanie Bopp**, European Commission - Joint Research Centre (JRC), Italy
Italica (Fibes 1)	**Pharmaceuticals in the Environment – Risk Assessment, Regulation, and New Insights Into the Science Globally**	John Wilkinson, Dean Leverett, Todd Davidson		
	3.20.B.T-01 Understanding the Variability of Poultry Litter on the Degradation Rates of Veterinary Medicines and Feed Additives.	**Bethany Adams**, University of Leeds, United Kingdom	**3.20.B.T-02** Acidification increases the toxicity of diclofenac to aquatic organisms	**Katarzyna Bethke**, University of Gdansk, Poland	**3.20.B.T-03** Fish Show Altered Reproductive Behaviours in the Wild Following a Whole-Lake Exposure to an Estrogenic Pharmaceutical	**Erin McCallum**, Swedish University of Agricultural Sciences, Sweden
Ronda (Fibes 1)	**Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment**	Marianne Elizabeth Glascott, Guido Gonsior, Aida Farag, Zhongli Chen		
	2.02.B.T-01 Ecotoxicological Test Protocol for the Assessment of Reproductive Endpoints in Non-Target Terrestrial Plants under Greenhouse Conditions	**Andreas Duffner**, Eurofins Scientific, Germany	**2.02.B.T-02** Microalgal Responses to Organic Contaminants and Influence on Contaminants Fate in Aquatic Ecosystems	**Giulia Cheloni**, MARBEC, Université de Montpellier, CNRS, Ifremer, IRD, France	**2.02.B.T-03** Functionalisation and size dependence effect of upconverting lanthanide doped nanoparticles, NaYF4:Yb,Er@NaYF4 on wheat seedlings' growth, germination, cell death and membrane permeability	**Anna Ekner-Grzyb**, Adam Mickiewicz University, Poznan, Poland

Thursday Platform Presentations Morning 2

	12:25	12:40
Auditorium 1	Elisabeth Støhle Rødland, Stephan Wagner, Frank G.A.J. van Belleghem, Farhan R. Khan	
	3.23.B.T-04 Cocktail Chronicles: Investigating the Impact of Tire Particle Leachates Across Diverse Biological Models	**Jessy Ledu-Carree**, University of Las Palmas de Gran Canaria (ULPGC), Spain	**3.23.B.T-05** Poster spotlight: 3.23.P-Th400, 3.23.P-Th401, 3.23.P-Th402
Auditorium 2	**Circularity Strategies and Life Cycle Thinking: Ensuring the Way to Sustainability**	Valeria De Laurentiis, Davide Tosches, Carla Caldeira	
	5.01.B.T-04 Life Cycle Assessment Case of Study: eAOP Applied to Commercial Scale Pd Recovery from Wastewater	**Gema Amaya Santos**, University College London (UCL), United Kingdom	**5.01.B.T-05** Synergies and Lessons: On-grid and Off-grid Solar Energy Systems in Kenya and Europe	**Gloria Moscatelli**, Technical University of Denmark (DTU), Denmark
Auditorium 3	Claudia de Lima e Silva, You Song, Terje Svingen		
	1.05.T-04 A quantitative adverse outcome pathway (qAOP) linking mitochondrial uncoupling to growth inhibition in Lemna minor	**Li Xie**, Norwegian Institute for Water Research (NIVA), Norway	**1.05.T-05** Navigating Complex Biological Systems with PBPK, Text Mining and AI: in silico NAMs for the Development of Reliable and Robust Quantitative Adverse Outcome Pathways	**Achilleas Karakoltzidis**, Aristotle University of Thessaloniki, Greece
Madrid ABC	★**Are We There Yet? – Ways Forward for Mechanistic Effect Modeling in Environmental Risk Assessment**	Andreas Focks, Devdutt Pratap Kulkarni, Vanessa Roeben	
	11:55	**12:00**	**12:50**
	8.02.T-04 Academic insights on model development and evaluation – Status and potential improvements	**Sandrine Charles**, University Claude Bernard Lyon 1, France	**8.02.T-05** Panel Discussion	**8.02.T-06** Concluding Remarks
Madrid DEF	Marianne Matzke, Kai Benjamin Paul, Susana Loureiro, Nitin Kumar Khandelwal		
	6.08.B.T-04 Implementation of Grouping Strategies for Nanoecotoxicology	**Andrew Barrick**, Auburn University, USA	**6.08.B.T-05** Poster spotlight (B): 6.08.P-Th533, 6.08.P-Th534, 6.08.P-Th535
Bruselas	**Advances in Bioaccumulation Science and Assessment**	Leslie J Saunders, Karla M. Johanning, Markus Brinkmann, Johannes Raths	
	3.01.B.T-04 Bioaccumulation and Trophic Transfer of Tire Particles and Associated Chemicals From Aquatic Invertebrates to Fish	**Thibault Masset**, EPFL, Switzerland	**3.01.B.T-05** Surfactant Bioconcentration: The Puzzle Unraveled	**Michael McLachlan**, Stockholm University, Sweden
Paris	Chantal K.E. van Drimmelen, Jannicke Moe, Steffen H. Keiter, Andrew John		
	7.01.T-04 Adaptation of Metals Risk Assessments to Consider Climate Change	**Eric Van Genderen**, International Zinc Association, USA	**7.01.T-05** Poster spotlight: 7.01.P-Th569, 7.01.P-Th570, 7.01.P-Th571
Al Andalus (Fibes 1)	Marlene Ågerstrand, Mathilda Andreassen, Caroline Moermond, Jan Woelz		
	6.07.B.T-04 So FAIR, So Clean: How the cleanventory Approach Provides Reliable Data for Chemical Structures Regulated in Global Trade Markets	**Raoul Wolf**, Norwegian Geotechnical Institute (NGI), Norway	**6.07.B.T-05** From Parcel to People: development of an indicator to monitor risk to residents from pesticide use in agricultural areas	**Francesco Galimberti**, European Commission - Joint Research Centre (JRC), Italy
Italica (Fibes 1)	**Pharmaceuticals in the Environment – Risk Assessment, Regulation, and New Insights Into the Science Globally**	John Wilkinson, Dean Leverett, Todd Davidson	
	3.20.B.T-04 Antibiotic and Emerging Antibiotic Resistance Assessment in the Ebro Delta and the Albufera of Valencia reservoirs (Spain)	**Maria Garcia Torné**, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain	**3.20.B.T-05** Refining the Predicted Environmental Concentration (PEC) of human pharmaceuticals; effect of region-specific dilution factors and wastewater volumes	**Rachel Moreby**, AstraZeneca UK Ltd, United Kingdom
Ronda (Fibes 1)	**Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment**	Marianne Elizabeth Glascott, Guido Gonsior, Aida Farag, Zhongli Chen	
	2.02.B.T-04 Ecotoxicological Effects of Copper and Pendimethalin at Three Different Temperatures on Raphidocelis subcapitata- the Impacts of Climate Changes	**Micael Neves**, University of Aveiro (UA), Portugal	**2.02.B.T-05** Developing a Reference Tier with Quantitative Aquatic Macrophyte Field Data	**Gertie Arts**, Wageningen University & Research (WUR), Netherlands

LUNCH & POSTER BREAK

Schedule

Setup	9:00–9:30
Poster Viewing	10:50–11:35
Poster Viewing	12:55–14:25
Take Down	14:25–15:00

Late-Breaking Science Posters

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

Poster Sessions

POSTER AREA 1

Better Alignment of New Approach Methodologies and Adverse Outcome Pathways to Support Next Generation Risk Assessment | Claudia de Lima e Silva, You Song, Terje Svingen

1.05.P-Th001 AOP-Network: Investigation of a Cross-talk Between Retinoic Acid Signaling and Thyroid Hormone Signaling During Zebrafish Early Development. | **Audrey Phan**, Masaryk University, Czech Republic

1.05.P-Th002 Quantitative Systems Modeling of Adverse Outcome Pathways as Translational Tools in Human Health Risk Assessment | **Huan Yang**, esqLABS GmbH, Germany

1.05.P-Th003 Unveiling an Adverse Outcome Pathway for Caridina africana Following Exposure to Nanodiamonds. | **Nichole Donough**, Water Research Group, North-West University, South Africa

1.05.P-Th004 Development of Quantitative Adverse Outcome Pathway for Respiratory Diseases Induced by CMIT/MIT using Transcriptomic Profiling | **Yongmin Jung**, University of Seoul, Korea, Republic of

1.05.P-Th005 Development of Quantitative Adverse Outcome Pathway Leading to Hepatocellular Carcinoma using Transcriptomics Data with Benchmark Dose Analysis | **Jaeseong Jeong**, University of Seoul, Korea, Republic of (South)

1.05.P-Th006 Development of adverse outcome pathways and testing strategies for endocrine disrupting chemicals and mixtures promoting metabolic dysfunction-associated steatotic liver disease | **You Song**, Norwegian Institute for Water Research (NIVA), Norway

1.05.P-Th007 Alterations of ubiquitin-dependent catabolic pathway and growth in the brackish water clam Corbicula japonica caused by environmental stress in estuaries revealed by transcriptome analysis | **Ihn-Sil Kwak**, Chonnam National University, Korea, Republic of (South)

1.05.P-Th008 Ecotoxicogenomic Hazard Assessment of Artificial Sweeteners in Aquatic Model Organisms | **Alexandra Loll**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

1.05.P-Th009 Omics-based fingerprinting of neurotoxic and microtubule-disrupting pesticides in zebrafish embryos | **Steve Ayobahan**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

1.05.P-Th010 In vitro assessment of the synergistic potentials of the ingredients in surface applied preservatives for dermal cytotoxicity and skin sensitization | **Haena Kim**, Korea Research Institute of Chemical Technology, Korea, Republic of (South)

1.05.P-Th011 In vitro Toxicity screening of real-life mixture using HepG2 cells | **Kang Kyoung Hee**, Korea Research Institute of Chemical Technology, Korea, Republic of

1.05.P-Th012 Apical and molecular endpoints in zebrafish embryos exposed to cadmium | **Ines Domingues**, University of Aveiro, Portugal

1.05.P-Th013 Molting inhibition in non-model species Calanus finmarchicus exposed to aquatic veterinary agents | **Bjørn Hansen**, SINTEF, Norway

1.05.P-Th014 A Gamechanger In The Mutagenicity Characterization of Azo Dyes | **Gabriely Groto Militão**, Universidade Estadual de Campinas, Brazil

1.05.P-Th015 Insights into the Microbial Degradation Potential of Hydrocarbon Contaminants across the Baltic Sea Environment | **Joeselle Serrana**, Stockholm University Center for Circular and Sustainable Systems, Sweden

1.05.P-Th016 Differential expression of different clusters of non-coding RNAs (ncRNAs) and altered gene regulation in response to exposure of ten environmental stressors to EndoC-BH1 pancreatic b - cells | **Dayna Schultz**, Aristotle University of Thessaloniki, Greece

1.05.P-Th017 An overview of the effects of Polycyclic Aromatic Hydrocarbons (PAHs) mixtures in both in vivo and in vitro models. | **Beatriz Matos**, MARE - Marine and Environmental Sciences Centre, NOVA School of Science and Technology, Portugal

1.05.P-Th018 Deriving Predicted No-effect Concentration of Tributyltin for Marine Environment Using Taxon-specific Adverse Outcome Pathways | **Zhaochuan Li**, National Marine Environmental Monitoring Center, China

1.05.P-Th019 Modes of Action of Thyroid Disruption: Insights from Zebrafish Transcriptomics | **Fabian Essfeld**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

Fish Model Species in Human and Environmental Toxicology | Maria Christou, Sarah Johann, Fabian Weichert

1.07.P-Th020 Towards Standardization of the Dark/Light Transition Test with Zebrafish (Danio rerio) embryos. Reporting of Results from an Inter-laboratory Ring Test | **Maria Christou**, Norwegian Institute for Water Research (NIVA), Norway

1.07.P-Th021 Bisphenols A alternatives alters Thyroid Hormone System (THS) sensitive endpoints in zebrafish - are they safer alternatives? | **Pernille Ambus Hansen**, University of Southern Denmark, Denmark

1.07.P-Th022 Identification of ingredients in Air Freshener Commercial Products Causing Neurotoxicity to zebrafish | **han-Seul Lee**, Seoul National University of Science and Technology, Korea, Republic of

1.07.P-Th023 A Comparative Study of toxic pathway according to the Large Microplastic Shape Characteristics (Polyethylene Terephthalate) on juvenile Rockfish Sebastes schlegeli | **Kwang-Min Choi**, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of

1.07.P-Th024 A Method for the Detection of Steroid Hormones in Fish Holding Tank Water | **Emily Kennedy**, University of Saskatchewan, Canada

1.07.P-Th025 Assessing the Impact of Combined Anticancer Drugs On the Early Life Stages of Danio Rerio | **Daniel Bruno**, University of Aveiro (UA), Portugal

1.07.P-Th026 Cardio- and Neurotoxicological Characterization of Sediment Flood Samples Taken After the 2021 Extreme Flood Event in Western Germany using Zebrafish Embryos | **Jakob Pfefferle**, Goethe University Frankfurt, Germany

1.07.P-Th027 Characterisation of Zebrafish Embryos Developmental Stages using Automated Computer Device | **Sizenando Abreu**, Tekenbio, University of Aveiro, Portugal

1.07.P-Th028 Characterising the Functional Homology of Central Nervous System Drug Targets in Fish. | **Siobhán Monaghan**, University of Exeter, United Kingdom

1.07.P-Th029 Combined effects of benzisothiazolinone and propyl paraben using embryonic and adult zebrafish | **Chaeun Park**, Yong In University, Korea, Republic of

1.07.P-Th030 Development of toxicity test protocols for Atlantic cod (Gadus morhua) – a relevant test species for the Northern Atlantic Ocean | **Bjørn Hansen**, SINTEF, Norway

1.07.P-Th031 Ecotoxicity of Perovskites as Multi-component Advanced Materials (AdMs) in Aquatic Environments: from Cellular Effects to Acute Toxicity and Bioaccumulation Potential in Fish | **Mona Connolly**, Institute for Agricultural and Food Research and Technology, Spanish National Research Council (INIA-CSIC), Spain

1.07.P-Th032 Effect of Psychoactive Compounds on Neurotransmission in Fish | **Gayani Kapukotuwa**, University of South Bohemia Ceske Budejovice, Czech Republic

1.07.P-Th033 Effects of Tributyltin Exposures in Zebrafish Embryos by Multi-omics | **Janan Gawra**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.07.P-Th034 Effects of a Reduced Graphene Oxide-Silver Nanoparticle Hybrid Material on Zebrafish Embryos | **Amaia Orbea**, CBET+ Research Group, Department Zoology and Animal Cell Biology, Faculty of Science and Technology and Research Centre for Experimental Marine Biology and Biotechnology PiE, University of the Basque Country UPV/EHU, Spain

1.07.P-Th035 Effects of exposure to Piriproxifen on the survival of adult Danio rerio (Zebrafish) | **Rafaella Brito**, Federal University of São Paulo,

1.07.P-Th036 Effects of the thyroid hormone system disrupting compound metformin on the development of early life stages of zebrafish (Danio rerio) | **Simone Sørensen**, University of Southern Denmark, Denmark

1.07.P-Th037 Effects of three alkyl-organophosphate flame retardants on neurobehavioral development and oxidative stress in zebrafish larvae | **Kijeong Yun**, Yong In University, Korea, Republic of

1.07.P-Th038 Embryotoxicity assessment of Diflubenzuron commercial formulations using the zebrafish model system | **Rafaella Brito**, Federal University of São Paulo, Brazil

1.07.P-Th039 Exploiting Zebrafish Tools for a Safe and Sustainable Development of Nano-Enabled Antimicrobials to Reduce the Presence of Antimicrobial-Resistant Bacteria in the Aquatic Environments | **Beatrice Negrini**, Project Hub-360, Sustainability & Innovation Consultancy Company, University of Milano-Bicocca, POLARIS Research Center, University of Milano-Bicocca, Italy

1.07.P-Th040 Filling The Fish Toxicity Data Gap of Pesticides Using in silico Tools: | **Selen Gökçe Selçuki**, Bogazici University, Turkey

1.07.P-Th041 Harmful Effects of Caffeine on the Fish Poeciliopsis gracilis Heckel, 1848 (Poeciliidae) | **Alma Sobrino-Figueroa**, Metropolitan Autonomous University (UAM) Iztapalapa, Mexico

1.07.P-Th042 INTOB: Advancing Digital Infrastructure for Enhanced and findable, accessible, interoperable, and reproducible (FAIR) Management and Analysis of Toxicological Data Obtained with Zebrafish Embryo | **Bente Nissen**, UFZ, Germany

1.07.P-Th043 Identification of Differences in Mechanisms of Developmental Neurotoxicity of Methyl-, Ethyl-, and Propyl-Parabens in Zebrafish Embryos Through Transcriptome Analysis | **Ji Yun Kang**, Seoul National University of Science and Technology, Korea, Republic of (South)

1.07.P-Th044 Identification of Molecular Markers on Zebrafish Embryo for Thyroid Disruption by Transcriptomic Analysis | **Noémie de Crozé**, L'Oréal, France

1.07.P-Th045 Impact of Trifloxystrobin Exposure on the Early-Stage Zebrafish (Danio rerio) Metabolome | **Chaeeun Kim**, Kyungpook National University, Korea, Republic of

1.07.P-Th046 Investigating The Mechanisms of Endocrine Disrupting Chemical-Induced Masculinization in Medaka (Oryzias latipes) | **Ching-Hsin Yang**, National Taiwan University, Taiwan

1.07.P-Th047 Is the Japanese Medaka a Reliable Species for Testing Endocrine Disrupting Compounds? | **Giuliana de Araujo**, Eurofins Agroscience Services Regulatory, Spain

1.07.P-Th048 Metabolomics approach to detecting toxicity in Oreochromis niloticus exposed to natural and synthetic organophosphates | **Larissa Passos**, University of São Paulo (USP), Brazil

1.07.P-Th049 Nanoplastic-induced toxicity mechanism in intact zebrafish larvae revealed by novel magnetic resonance method | **Bashirova Narmin**, ,

1.07.P-Th050 Neurodevelopmental Effects of Petroleum Exposure on Developing Zebrafish (Danio rerio): Insights into Sensory-, Motor- and Anxiety- Responses | **Alischa Becker**, Goethe University Frankfurt, Germany

1.07.P-Th051 Neurotoxic effects of antidepressants on zebrafish embryos. | **Ines Lacchetti**, Italian Institute of Health (ISS), Italy

1.07.P-Th052 Osmotic diuretic exposure blocks aryl phosphate ester-induced pericardial edema in zebrafish embryos | **John Hoang**, University of California Riverside (UC Riverside), United States

1.07.P-Th053 Paired Computer-Assisted Sperm Analysis (CASA) and ATP Quantification Methods to Assess Reproductive Capacity of Male Mummichog (Fundulus heteroclitus) | **Sabine Malik**, University of Maryland, United States

1.07.P-Th054 Modification of the Comet Assay to Assess Sperm DNA Integrity in the Male Mummichog (Fundulus heteroclitus) | **Sabine Malik**, University of Maryland, United States

1.07.P-Th055 Pharmaceuticals and mixtures in the environment: a review on the use of zebrafish for neurotoxicity | **Kevin di Domenico**, Italian National Institute of Health, Italy

1.07.P-Th056 Potential Triggering Effect of BPS for Diabetes by Dietary Condition in Zebrafish | **Yuna Kim**, Seoul National University, Korea, Republic of

1.07.P-Th057 Subcellular effects of an antineoplastic agent and a nanomaterial to zebrafish | **Diana Carneiro**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

1.07.P-Th058 The impact of nano-polypropylene accumulation in the brain on behavioral changes in Zebrafish (Danio rerio) | **Minji Kim**, Gwangju Institute of Science and Technology (GIST), Korea, Republic of

1.07.P-Th059 Toxicity assessments of benzophenone-related derivatives in medaka fish | **Pei-Jen Chen**, National Taiwan University, Taiwan

1.07.P-Th060 Transcriptomic alterations caused by progestogens during early zebrafish development | **Liliya Sokalchuk Sokalchuk**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

1.07.P-Th061 Translocation and Toxicity of Additional Chemical Substances in Expanded Polystyrene Microplastics on Black Rockfish Sebastes schlegeli | **Kwang-Min Choi**, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of

1.07.P-Th062 Zebrafish as a Model for Screening Chemicals Linked to Preeclampsia Induction | **Inhye Lee**, Seoul National University, Korea, Republic of

1.07.P-Th063 Effects of Differently Aged Tire-Wear Particle Suspensions on Danio rerio | **Isabel Lopes**, University of Aveiro & Centre for Environmental and Marine Studies (CESAM), Portugal

New Approach Methodologies (NAMs) – Robust Predictions for Addressing Regulatory Challenges in the Field of Ecotoxicology | Anna-Maija Nyman, Lennart Weltje, Mark Cronin, Paul Thomas

1.11.P-Th064 Machine Learning-based Prediction of Fish Acute Mortality: Implementation, Interpretation, and Regulatory Relevance | **Christoph Schuer**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

1.11.P-Th065 Connecting the Dots: A Bottom-Up Approach to Link Liver Fibrosis with Key Events through Text Mining and Topic Modeling in AOP Development | **Achilleas Karakoltzidis**, Aristotle University of Thessaloniki, Greece

1.11.P-Th066 High-Throughput Transcriptome in Zebrafish Embryos towards Adverse Outcome Pathway Network-Based Screening of Environmental Neurotoxicants | **Pu Xia**, University of Saskatchewan, Canada

1.11.P-Th067 Addressing the challenges of Acute Toxicity Hazard Classification using a non-animal Defined Approach | **Jayne Roberts**, Unilever - Safety and Environmental Assurance Centre (SEAC), United Kingdom

1.11.P-Th068 Development of an Ontology-Driven In Silico Profiler for the Evaluation of Potential Endocrine Disruptors | **Mark Cronin**, Liverpool John Moores University, United Kingdom

1.11.P-Th069 MechoA+: use, versatility and structural diversity | **Paul Thomas**, KREATiS SAS, France

1.11.P-Th070 How Well QSAR(s) Predict Aquatic Toxicity of REACH Registered Substances? | **Anna-Maija Nyman**, European Chemicals Agency (ECHA), Finland

1.11.P-Th071 Predicting species sensitivities to corticosteroids | **Fernando Calahorro Nunez**, University of Southampton, United Kingdom

1.11.P-Th072 Can Fish Toxicity Data Reliably Predict Toxicity to Aquatic Stages of Amphibia – Re-evaluation of a Dataset by Formulation | **Heino Christl**, Tier3 Solutions GmbH, Germany

1.11.P-Th073 In vitro effects of plastic additives and their mixtures with pharmaceuticals on fish liver cell line | **María del Mar Pimentel**, Institute of Oceanography, Spanish National Research Council (IEO-CSIC), Spain

1.11.P-Th074 In vitro effects of pharmaceuticals at environmental relevant concentrations on fish liver cell line | **María del Mar Pimentel**, Institute of Oceanography, Spanish National Research Council (IEO-CSIC), Spain

1.11.P-Th075 Quantitative Adverse Outcome Pathway Assisted Formulation of Integrated In vitro Testing Strategies for Identification of Mitochondrial Uncouplers | **Maria Hultman**, Norwegian Institute for Water Research (NIVA), Norway

1.11.P-Th076 Transcriptomic Points of Departure in Early-life Stage Rainbow Trout Exposed to Diverse Chemicals for 24 hr | **Emily Boulanger**, McGill University, Canada

1.11.P-Th077 Transcriptomic Points of Departure in Rainbow Trout Exposed to Ethinylestradiol: A Comparison of Approaches in Different Model Systems | **Emily Boulanger**, McGill University, Canada

1.11.P-Th078 Exploiting Single Cell Sequencing to Evaluate the Efficacy of Primary Gill Cell Cultures as Tools for Deriving Pharmaceutical Toxicological Mechanisms | **Owen Trimming**, Cardiff University, United Kingdom

1.11.P-Th079 Exploring the genome of the oribatid mite, Oppia nitens | **Adedamola Adedokun**, University of Saskatchewan, Canada

1.11.P-Th080 Sub-lethal Transcriptomic Points of Departure and Toxicity Pathways of Legacy and Emerging Perfluoroalkyl Substances Determined Using New Approach Methods | **Hannah Mahoney**, University of Saskatchewan, Canada

1.11.P-Th081 The Induction of Nuclear Receptor Pathways Plays a Role in Hepatic Thyroid Hormone Metabolism in Zebrafish (Danio Rerio) Embryos | **Maximilian Rinderknecht**, University of Heidelberg, Germany

1.11.P-Th082 Navigating truth and truce: Validation as institutional entrepreneurship in regulatory science | **Gordon Hickey**, McGill University, Canada

Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment | Marianne Elizabeth Glascott, Guido Gonsior, Aida Farag, Zhongli Chen

2.02.P-Th083 Uptake and Toxicity of Per- and Polyfluoroalkyl Substances (PFAS) at Environmentally Relevant Water Concentrations by Azolla filiculoides | **Marthe Monique Gagnon**, Curtin University, Australia

2.02.P-Th084 Ecotoxicological Assessment of Four Veterinary Antibiotics (Enrofloxacin, Doxycycline, Tylosin, and Lincomycin) on Terrestrial and Aquatic Indicators | **María Rosa Pino Otín**, Universidad San Jorge, Spain

2.02.P-Th085 Seasonal Dynamics of Phytoplankton Biodiversity, Abundance and Biomass in the Freshwater Lentic Mesocom System Located in Southern Poland | **Anna Arendarczyk**, Łukasiewicz Research Network-Institute of Industrial Organic Chemistry Branch Pszczyna, Poland

2.02.P-Th086 Further Evaluation of Macrophytes for Species Sensitivity Distribution (SSD) Tests | **Guido Gonsior**, GG BioTech Design GmbH, Germany

2.02.P-Th087 First Approach to Compare Sensitivity of Macroalgae and Symbiosis-Living Microalgae to Standard Test Species | **Guido Gonsior**, GG BioTech Design GmbH, Germany

2.02.P-Th088 Study on the Effects of Particulate Matter on Plants According to Exposure Routes | **Hyun Jung**, Korea Institute of Toxicology (KIT), Korea, Republic of

2.02.P-Th089 Using Flow Through Mesocosms to Investigate How Herbicide Exposure Impacts Macrophyte Communities and Long Term Recovery | **Isabel Navarro Law**, University of York, United Kingdom

2.02.P-Th090 Temperature related sensitivity of the green alga Ankistrodesmus falcatus exposed to Diflufenican | **Melanie Grolms-Aal**, gaiac Research Institute, Germany

2.02.P-Th091 Residue assessment of toxic metals in seaweeds for livestock feeds | **Jin Seong Kim**, Gyeongsang National University, Korea, Republic of

2.02.P-Th092 Survey of bromoform contents in seaweeds on the Korean coast by GC-μECD | **Kang Woo**, Gyeongsang National University, Korea, Republic of (South)

2.02.P-Th093 Investigation of the residue dissipation and pre-harvest residue limit for sethoxydim and fluazifop-p-butyl as an herbicide in root minor crops. | **Kim Hyo**, Gyeongsang National University, Korea, Republic of (South)

2.02.P-Th094 Sewage sludge long-term fertilization: effects on heavy metal accumulation in soil and willows (Salix viminalis L.) | **Jurate Zaltauskaite**, Vytautas Magnus University, Lithuania

2.02.P-Th095 Phytotoxicity Effects of Tetracyclines and Sulfonamides mixture in presence of copper on Lemna x mediterranea plants | **Chiara De Carolis**, Sapienza University of Rome, Italy

2.02.P-Th096 Challenges in calculating the mean measured concentrations for Algal Growth Inhibition Test According to OECD Test Guideline 201 - And what about the toxicity? | **Stefan Hoeger**, Innovative Environmental Services (IES) Ltd, Switzerland

2.02.P-Th097 Paper-disc Soil Method to Predict Ex-situ Soil Quality Evaluation | **Sun-Hwa Nam**, Konkuk University, Korea, Republic of (South)

2.02.P-Th098 Photosynthetic Effects of Polyvinyl Chloride Microplastics in Paints | **Sun-Hwa Nam**, Konkuk University, Korea, Republic of (South)

2.02.P-Th099 Toxic Effects of Three Detergents on Cladophora Sp. (Chlorophyta) | **Alma Sobrino-Figueroa**, Metropolitan Autonomous University (UAM) Iztapalapa, Mexico

2.02.P-Th100 Reassessing Exposure Design: Exploring Overspray in Toxicity Tests for Herbicides with Unexpectedly Low Toxicity to Macrophytes | **Gertie Arts**, Wageningen University & Research (WUR), Netherlands

2.02.P-Th101 Ecotoxicity evaluation of several composts through Lactuca sativa, Daphnia magna and Lemna minor | **Mathilde Henrion**, University of Lleida, Spain

2.02.P-Th102 Risk Assessment based on Visual Effect Endpoints for Terrestrial Plant (NTTP) | **Carmen Schweikert**, German Environment Agency (UBA), Germany

2.02.P-Th103 Use of Egeria dense as a Pb adsorbent in wastewater treatment | **Cynthia Wong Arguelles**, Tecnologico Nacional de Mexico campus Ciudad Valles, Mexico

2.02.P-Th104 Duckweed (Lemna minor) Response to Triclosan and its Recovery after Exposure under Elevated Temperature | **Diana Miškelytė**, Vytautas Magnus University, Lithuania

2.02.P-Th105 Water contaminations by persistent toxic substances and responses of phytoplankton community in the Geum River Estuary, South Korea | **Seo Joon Yoon**, Seoul National University, Korea, Republic of (South)

2.02.P-Th106 The Microscopic world: a comparison of different techniques for quantifying plankton | **Marie Brown**, Cambridge Environmental Assessments (CEA), United Kingdom

2.02.P-Th107 Incorporating macrophyte health measurements into higher tier risk assessments | **Marie Brown**, Cambridge Environmental Assessments (CEA), United Kingdom

2.02.P-Th108 Are TKTD Models for Algae and Macrophytes Protective in a Community Context – a Simulation Study | **Udo Hommen**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

2.02.P-Th109 Aquatic primary producers in the prospective risk assessment for pesticides; some insights into considering the framework and connecting to the reality. | **Sabine Duquesne**, German Environment Agency (UBA), Germany

2.02.P-Th110 Protectiveness check of Tier-1 pesticide risk assessment for aquatic primary producers: learnings and possible next steps | **Sarah Hartmann**, Bayer AG - Crop Science Division, Germany

2.02.P-Th111 The Influence of Abiotic Factors on the Distribution of Macrophytes in Small Water Bodies in Temperate Ecosystems | **Isabel Navarro Law**, University of York, United Kingdom

2.02.P-Th112 Betula pendula (Roth.) Seedlings Exposed to Polycyclic Aromatic Hydrocarbons: Insights into Plant Defense Mechanisms | **Greta Striganavičiūtė**, Lithuanian Research Centre for Agriculture and Forestry, Lithuania

2.02.P-Th113 Multiplexed Algal Cytological Imaging (MACI) - A Novel Image-Based Phenotypic Profiling Assay for Screening Environmental Chemicals in Microalgae | **Eric Ostovich**, University of Wisconsin, Milwaukee, USA

2.02.P-Th114 Effects of Imidacloprid and Deltamethrin to aquatic macroinvertebrates using a microcosm approach | **Victor Wepener**, North-West University, South Africa

2.02.P-Th115 Amoxicillin at Environmentally Relevant Concentrations Affects the Reproduction and Survival of the Littoral Cladoceran Simocephalus Punctatus. A Life Table Study. | **Fernando Martínez-Jerónimo**, Escuela Nacional de Ciencias Biologicas, IPN, Mexico

2.02.P-Th116 Screening of wheat lines for biological nitrification inhibition in hydroponics using a novel high-throughput experimental platform | **Clara Aguilar I Vilar**, University of Copenhagen, Denmark

2.02.P-Th117 Challenges With Ecotoxicity Testing of Surfactants: The Impact of Water Hardness on Toxicity to Algae | **Sylwia Kosmala-Grzechnik**, wca environment Ltd., United Kingdom

2.02.P-Th118 Physiological Effects of Suspended Sediments to Macroalgae Using Pulse-Amplitude Modulation (PAM) Fluorometry | **Shin Yeong Park**, Seoul National University, Korea, Republic of (South)

Advances in Bioaccumulation Science and Assessment | Leslie J Saunders, Karla M. Johanning, Markus Brinkmann, Johannes Raths

3.01.P-Th119 The Decotabs as Standardized Food Substrate for Ecotoxicity Bioassays in Gammarus Fossarum | **Anthony Mathiron**, Biomae, France

3.01.P-Th120 HYBIT protocol application in European freshwater amphipods Gammarus fossarum: Case studies with terbutryn and 2,4,5-trichlorophenol | **Anthony Mathiron**, Biomae, France

3.01.P-Th121 Uptake of Venlafaxine and its Metabolite O-Desmethyl-Venlafaxine in Lettuce under Hydroponic Conditions | **Lucas Alonso**, University of Girona (UdG), Catalan Institute for Water Research (ICRA), Spain

3.01.P-Th122 Bioturbation Affects Bioaccumulation of Per- and Polyfluorinated Substances (PFAS): Uptake from Sediments by a Rooting Macrophyte and a Benthic Invertebrate | **Ioanna Gkika**, University of Amsterdam, Institute for Biodiversity and Ecosystem Dynamics (IBED), Netherlands

3.01.P-Th123 Trophic Transfer of Halogenated Organic Pollutants in a Wetland Food Web: Insights from Compound-Specific Nitrogen Isotope of Amino Acids and Food Source Analysis | **Yanhong Zeng**, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, China

3.01.P-Th124 Bioaccumulation, translocation and biomagnification of tetrabromobisphenol A and hexabromocyclododecane in mangrove wetlands from South China | **Yuxin Sun**, South China Normal University, China

3.01.P-Th125 Optimization of a deep learning-based automated sorting robot for bioconcentration studies with the fresh amphipods Hyelella azteca | **Cyril Sweetlove**, L'Oréal, France

3.01.P-Th126 Assessing Bioaccumulation with the Biomagnification Factor (BMF) | **Frank Gobas**, Simon Fraser University; School of Resource & Environmental Management, Canada

3.01.P-Th127 Bioaccumulation of Caffeine in Organisms of Different Trophic Levels | **Alma Sobrino-Figueroa**, Metropolitan Autonomous University (UAM) Iztapalapa, Mexico

3.01.P-Th128 Biodistribution of europium-doped polystyrene nanoplastics in terrestrial crustacean Porcellio scaber | **Anita Jemec Kokalj**, University of Ljubljana, Biotechnical Faculty, Slovenia

3.01.P-Th129 Species-specific prey uptake and biotransformation of chiral polychlorinated biphenyls in riparian and aquatic food webs | **Bixian Mai**, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, China

3.01.P-Th130 Development and Evaluation of Aquatic and Terrestrial Food Web Bioaccumulation Models for Per- and Polyfluoroalkyl Substances | **Barry Kelly**, Simon Fraser University, Canada

3.01.P-Th131 Metabolic activities in Rainbow trout (Oncorhynchus mykiss) S9 fractions from liver and extrahepatic organs as an alternative in vitro ecotoxicity assessment approach | **Tanja Krimmling**, Primacyt Cell Culture Technology GmbH, Germany

3.01.P-Th132 A Food Web Bioaccumulation Model for Quantifying the Dietary Exposure to Persistent Organic Pollutants of Beluga Whales from the St. Lawrence Estuary, Quebec, Canada | **Jenny Oh**, University of Toronto, Canada

3.01.P-Th133 Enabling Regulatory Confidence in the Reliability of Stable Isotope Data Used to Describe the Trophic Position of Organisms in Bioaccumulation Studies | **Harriet Sleight**, Environment Agency (England), United Kingdom

3.01.P-Th134 Temperature Mediated Bioconcentration and Behavioral Effects of Mirtazapine in Aquatic Invertebrates | **Daniel Cerveny**, Swedish University of Agricultural Sciences (SLU), Sweden

3.01.P-Th135 Optimization of Avian In Vitro Substrate Depletion Assays to Study Biotransformation of Organic Chemicals | **Matthew Schultz**, University of Saskatchewan, Canada

3.01.P-Th136 Assessment of Methods for Determining The Membrane-Water Partition Ratio for Surfactants | **Steven Droge**, Wageningen University & Research (WUR), Netherlands

3.01.P-Th137 Scoping Key Sources of Uncertainty in Bioaccumulation Assessment: Biopartitioning and Biotransformation | **Pippa Curtis-Jackson**, Environment Agency (England), United Kingdom

3.01.P-Th138 Regulatory Application of a Toxicokinetic-based Bioaccumulation Model | **Elena Alonso**, Knoell Iberia S.L., Spain

3.01.P-Th139 Celebrating Some of the Many Scientific Contributions of Don Mackay: The Role of Chemical Fugacity and Activity in PBT, Exposure and Risk assessment | **Alena Celsie**, Trent University, Canada

3.01.P-Th140 Mixture Toxicokinetic Assessment of Pharmaceuticals in Daphnia magna using Liquid Chromatography Tandem Mass Spectrometry Analysis | **Jasmin Uhlhorn**, Brunel University London, United Kingdom

3.01.P-Th141 Integrated Approach for Testing and Assessment (IATA) for Bioaccumulation | **Pippa Curtis-Jackson**, Environment Agency (England), United Kingdom

3.01.P-Th142 Integrating In Vivo, In Vitro, and In Silico Approaches to Assess Chemical Toxicokinetics: A Cross-Species Comparative Analysis | **Alessandro Sangion**, Arnot Research and Consulting Inc. (ARC), Canada

3.01.P-Th143 Contaminant Biomagnification in Humans: Interindividual Differences and the Role of the Gut Microbiome | **Yuhao Chen**, University of Toronto, Canada

3.01.P-Th144 Monitoring freely dissolved concentrations of hydrophobic pollutants improves understanding of pollutant transport and bioaccumulation with clarity on sustainable management options | **Upal Ghosh**, University of Maryland, Baltimore County, USA

3.01.P-Th145 "Chasing Chemical Echoes:Unveiling Bioconcentration and Bioaccumulation of Legacy POPs and Emergent Compounds in the Waters of King George Island (Antarctica)" | **Cristobal Galban-Malagon**, Universidad Mayor, Chile

3.01.P-Th146 Occurrence, distribution, and bioaccumulation patterns of contaminants in coral reef systems | **Micaela Justo**, King Abdullah University of Science and Technology, Saudi Arabia

3.01.P-Th147 Bioaccumulation Of Selected Pesticides In Freshwater Invertebrates | **Helena Švecová**, University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, Czech Republic

3.01.P-Th148 Bioaccumulation Dynamics of Ionizable Pharmaceuticals in Freshwater Crayfish | **Anna Koubová**, University of South Bohemia Ceske Budejovice, Czech Republic

3.01.P-Th149 Development of Meta-Analysis Techniques to Evaluate the Biomagnification Potential of Contaminants in Wildlife and Food-Webs For Environmental Risk Assessments | **Kate Fremlin**, Simon Fraser University; Department of Biological Sciences, Canada

Analysis, Assessment and Management of Contaminants of Emerging Concern and Their Transformation Products in the Environment | Nicola Montemurro, Daniel Zahn, Gabriel Sigmund, Sandra Perez Solsona

3.04.P-Th150 Spatial and Seasonal Variations of Emerging Contaminants, Microplastics and Per- And Polyfluoroalkyl Substances (PFAS) in Pampulha Lake, a UNESCO Heritage Site in Brazil | **Cassiana Montagner**, Universidade Estadual de Campinas (UNICAMP), Brazil

3.04.P-Th151 Particles in the Aquatic Environment: Heteroagglomeration with Natural Suspended Particulate Matter | **Frank Von der Kammer**, Vienna University, Austria

3.04.P-Th152 Occurrence and Distribution of Per- and Polyfluoroalkyl Substances in Serbian Surface Water | **Natasa Durisic-Mladenovic**, University of Novi Sad, Faculty of Technology Novi Sad, Serbia

3.04.P-Th153 Combining Liquid Chromatography-High Resolution Mass Spectrometry and in Vivo Models to Assess Unexpected Thyroid-Active Transformation Products From the Degradation of Diclofenac | **Rafael Reis**, KU Leuven, Belgium

3.04.P-Th154 Occurrence of organic pollutants and source apportionment in urban groundwaters | **Sandra Perez Solsona**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.04.P-Th155 Spatial and Temporal Analysis of Contaminants of Emerging Concern (CECs) in Dublin Bay: Presenting a Marine Biofilm as New Sampling Device | **Enrique Díaz-Montaña**, DCU Water Institute, School of Chemical Sciences, Dublin City University, Ireland

3.04.P-Th156 Skimming the lake surface microlayer - how to catch highly lipophilic pollutants in surface water | **Armin Zenker**, University of Applied Sciences and Arts Northwestern Switzerland (FHNW), Switzerland

3.04.P-Th157 Assessing the risk of booster biocides for the marine environment: a case study at the Belgian Part of the North Sea | **Bavo De Witte**, Institute for Agriculture and Fisheries Research (ILVO), Belgium

3.04.P-Th158 Wide-Range Target Screening of Pharmaceuticals in Serbian Rivers: Occurrence and Seasonal Distribution | **Jelena Živančev**, University of Novi Sad, Serbia

3.04.P-Th159 Analysis of Antiozonants, Vulcanizing Agents and Other Hazardous Organic Compounds in Tire Rubber Particles | **Andres Duque-Villaverde**, University of Santiago de Compostela, Spain

3.04.P-Th160 Accurate Microplastics Characterization on Aluminum-Coated Filter Using QCL IR Chemical Imaging | **Andreas Kerstan**, Agilent Technologies, Inc., USA

3.04.P-Th161 Assessment of Volatile Organic Compounds (VOC) in underground water from around fuel station in Okinni Oshogbo, Osun State, Nigeria | **Fatai Afolabi**, Federal University of Health Sciences Ila-Orangun, Osun State Nigeria, Nigeria

3.04.P-Th162 Degradation of phenol and sulfamethoxazole with persulfate and ozone with nano-MnO2–biochar composites | **Seok-Young Oh**, University of Ulsan, Korea, Republic of

3.04.P-Th163 Biotransformation of Metronidazole, Sulfamethoxazole, and Trimethoprim by The Green Microalga Chlorella sorokiniana: Removal Efficiency, Mechanism, and Pathways | **Ornrumpha Sethanunt**, Department of Biology, University of York, United Kingdom

3.04.P-Th164 Occurrence of Illicit Drug Residues and New Psychoactive Substances in Wastewater Influents in the Region of Sfax, Middle East of Tunisia. | **Bilel Moslah**, University of Tunis El Manar, Tunisia

3.04.P-Th165 Rapid Multi-analyte Quantification of Disrupting Contaminants in Surface Water Through the Use of Deep Eutectic Solvents and Tandem Mass Spectrometry | **Sara Cunha**, LAQV_REQUIMTE, Portugal

3.04.P-Th166 Antimicrobial exposure with Eisenia fetida earthworms: multitarget analysis, by-products identification and biological effects elucidation | **Manuel Soto**, Research Center for Experimental Marine Biology Biotechnology "Plentziako Itsas Estazioa", University of the Basque Country (PiE-UPV/EHU), Spain

3.04.P-Th167 A Comprehensive Pollutant Profile Characterization of Sewage Sludge: The effect of different polarity fractions on compound recovery and toxicological profile using Accelerated Solvent Extraction | **Rhayn Werz**, Oerebro University, Sweden

3.04.P-Th168 Investigation of pesticides, pharmaceuticals and personal care products in small water bodies using polar organic chemical integrative samplers (POCIS) and non-target screening | **Ivo Havranek**, Norwegian Institute of Bioeconomy Research (NIBIO), Norway

3.04.P-Th169 Assessing the Ecotoxicity of Thymol and Carvacrol Isomers on Aquatic and Terrestrial Organisms | **Cristina Gan-Oria**, Universidad San Jorge, Spain

3.04.P-Th170 Contamination of agricultural soils by micropollutants in irrigated areas of the Czech Republic | **Radka Kodesova**, Czech University of Life Sciences Prague, Czech Republic

3.04.P-Th171 Groundwater vulnerability maps of the Czech Republic specified for selected micropollutants | **Vít Kodeš**, Czech Hydrometeorological Institute, Czech Republic

3.04.P-Th172 Optimisation of SPE and LC-MS for the Determination of Antibiotic Concentrations in Liquid Environmental Samples | **Kalina Dobrowolska**, Dublin City University (DCU), Ireland

3.04.P-Th174 Identification of Chlorinated Paraffin Biotransformation Products in Sediment Cores of a Polluted Lake: Insights into Oxidative Degradation | **Xiaodi Shi**, Stockholm University, Sweden

3.04.P-Th175 Analytical Method Validation, Residue and Health Risk Assessment for Clopidol in Egg Using Liquid Chromatography-Tandem Mass Spectrometry | **Min-Chul Shin**, Korea Institute of Toxicology (KIT), Korea, Republic of (South)

3.04.P-Th176 Analytical Method Validation and Residue Kinetic of Fumagillin in Rainbow Trout Using Radiolabeled Compound | **Seung-Min Lee**, Korea Institute of Toxicology (KIT), Korea, Republic of (South)

3.04.P-Th177 Analysis and Occurrence of UV Filters, Parabens and Benzotriazoles in Cadiz Bay (Andalusia, SW Spain) | **Lillie Freemantle**, Cádiz University, Spain

3.04.P-Th178 Degradation of the Herbicide Profoxydim by Ozone Water Treatment. Theoretical DFT Study to Elucidate the Reaction Mechanism | **Pilar Sandin-España**, Institute for Agricultural and Food Research and Technology, Spanish National Research Council (INIA-CSIC), Spain

3.04.P-Th179 Migration of Organic Compounds from Rubber Materials in Contact with Water and their Safety Evaluation as Water Contact Materials | **Andreia Videira**, Empresa Portuguesa das Águas Livres, S.A. – EPAL, Portugal

3.04.P-Th180 Optimisation of Solid Phase Extraction for the Determination of Bifenthrin, Estrone, and Diclofenac in Marine Environments | **Jodie Bermingham**, Dublin City University (DCU) School of Chemical Sciences, DCU Water Institute, Ireland

3.04.P-Th181 Analysis of Pesticides, Pharmaceuticals and Personal Care Products in Drinking and Environmental Water by Direct Injection Using UPLC-MS/MS | **Cecile Pinto**, Waters Corporation, France

3.04.P-Th182 Anthropogenic substances on Mar Menor beaches: occurrence, environmental risk, and usefulness as markers of anthropogenic contaminant sources. | **Judit Kalman**, Rey Juan Carlos University, Spain

3.04.P-Th183 Chemical and Biological Transformations of ZnO Engineered Nanoparticles in Aquatic Environments: Implications for Toxicity and Environmental Risk Assessment | **Mikołaj Feculak**, University of Life Sciences, Poland

3.04.P-Th184 Improving the sensitivity of additive detection in environmental matrices using SPE and selected reaction monitoring | **Michaela Reay**, Organic Geochemistry Unit, School of Chemistry, University of Bristol, United Kingdom

3.04.P-Th185 Occurrence of pharmaceuticals in surface water from rural areas located in the Northwest of Spain | **Gabriela Castro**, University of Santiago de Compostela, Spain

3.04.P-Th186 Determination of Pyrethroids in Water Samples According to the EU Water Framework Directive Using Atmospheric Pressure Gas Chromatography Tandem Mass Spectrometry (APGC-MS/MS) | **Cecile Pinto**, Waters Corporation, France

3.04.P-Th187 Marine ecotoxicity of amines used as solvents in carbon capture processes: Species sensitivity distributions and additive toxicity aspects. | **Bjørn Hansen**, SINTEF, Norway

3.04.P-Th188 Spatial variability of microplastic concentration in benthic sediments from coastal aquaculture region of Korea using a new device for extracting microplastics from sediments | **Dong-Hoon Im**, National Institute of Fisheries Science, Korea, Republic of (South)

3.04.P-Th189 A study of chemical toxic effects on juvenile Rockfish (Sebastes schlegeli) exposed to hull cleaning discharge using brain and liver transcriptome analysis | **Seong Hee Mun**, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of (South)

3.04.P-Th190 Acute toxic effects of hull in-water cleaning discharge on embryonic flounder (Paralichthys olivaceus) | **Seong Hee Mun**, Korea Institute of Ocean Science and Technology (KIOST), Korea, Republic of (South)

3.04.P-Th191 Occurrence and seasonal variations of 160 current-use pesticides in surface seawater of Korean coastal waters | **Sunggyu Lee**, National Institute of Fisheries Science, Korea, Republic of (South)

3.04.P-Th192 Comprehensive monitoring of emerging contaminants following "Daniel" and "Elias" storm events at Pagasitikos Gulf, Eastern Mediterranean Sea, Greece, utilizing the technique of LC-VIP-HESI-TIMS-HRMS | **Rallis Lougkovois**, National and Kapodistrian University of Athens, Greece

3.04.P-Th193 Assessing the Removal and Risks of Micropollutants and Transformation Products in PAC-AGS Treatment | **Heewon Jang**, Changwon National University, Korea, Republic of (South)

3.04.P-Th194 RHE-MEDiation Lighthouse: Responsive hub for long term governance to destress the Mediterranean Sea from chemical pollution | **Rallis Lougkovois**, National and Kapodistrian University of Athens, Greece

3.04.P-Th195 Exploring the Potential of Vacuum-Assisted Evaporation Concentration for Improved Analysis of Very Polar Compounds: Comparing Analysis Platforms, Method Development and Method Validation | **Lisa Reinhardt**, University of Copenhagen, Denmark

3.04.P-Th196 Exploring the Absorption Dynamics of Benzophenone-3 and Octocrylene in Polyethylene and Polypropylene in Pure and Sea Water | **Albert Contreras Llin**, Agencia Estatal Consejo Superior de Investigaciones Científicas, Spain

3.04.P-Th197 The Occurrence of Poly- and Perfluoroalkyl Substances (PFASs) and Potential Sources in the River Liffey, Ireland | **Helen Burke**, Dublin City University (DCU), Ireland

3.04.P-Th198 An approach to the presence of the recent emerging organic contaminants adsorbed onto microplastics in the Canary Islands. | **Ludovit Schreiber**, University of Las Palmas de Gran Canaria (ULPGC), Spain

3.04.P-Th199 In-Depth Investigation of Organic Micropollutant Burden in the Dnieper River Basin Using HRMS-Based Workflows | **Nikolaos Boinis**, National and Kapodistrian University of Athens, Greece

3.04.P-Th200 A comparative study of the presence of organic contaminants of emerging concern in two urban wastewater treatment plants from Canary Islands (Spain) and Tunisia. | **Ludovit Schreiber**, University of Las Palmas de Gran Canaria (ULPGC), Spain

3.04.P-Th201 Determination of Glyphosate, Aminomethylphosphonic Acid (AMPA), and Glufosinate in Drinking Water Using Direct Analysis by Liquid Chromatography Tandem Mass Spectrometry | **Cecile Pinto**, Waters Corporation, France

3.04.P-Th202 Improved compound identification in GC-MS analysis using an EI&CI-TOFMS | **Marleen Vetter**, TOFWERK AG, Switzerland

3.04.P-Th203 Tidal influence on the distribution and partitioning of pharmaceuticals in estuarine environments | **Ruben Rios-Quintero**, Universidad de Cadiz,

3.04.P-Th204 Factorial Design Optimization of a Bioanalytical Method Using Low-Temperature Purification Extraction (LTPE) and LC-MS/MS to Determine Levamisole in Fish Meat | **Lucas Freitas**, University of São Paulo (USP), Brazil

3.04.P-Th205 Occurrence and Trophodynamics of Organic UV Filters, Benzotriazole UV Stabilizers and Aromatic Secondary Amines in the Food Web of the St. Lawrence Estuary Beluga Population. | **Alexis Trinquet**, Institut des Sciences de la Mer de Rimouski, Canada

3.04.P-Th206 Atmospheric Pressure Ionization GC/MS/MS of Multi-Class Semivolatile Organic Compounds: Reducing Environmental Impact Without Compromise | **Cecile Pinto**, Waters Corporation, France

3.04.P-Th207 A Water Quality Stocktake: Identification of Priority Emerging Pollutants in Waters of England and Northern Ireland | **Ed Stutt**, wca environment Ltd., United Kingdom

3.04.P-Th208 Environmental Assessment of Tire-Road Wear Particles and Tire Rubber Additives in Water and Biota Samples from Llobregat River Delta | **Francesca De Angelis**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.04.P-Th209 A Novel approach in addressing the challenges of monitoring multi-classes of POPs in a single run by GC-Ion Moblity-HRMS | **Carsten Baessmann**, Bruker Daltonics GmbH, Germany

3.04.P-Th210 Analysis of rubber-derived contaminants in surface water by liquid chromatography coupled with a hybrid linear ion-trap-Orbitrap high-resolution mass spectrometry. | **Julie Anquetin**, University of Quebec at Rimouski (UQAR), Canada

3.04.P-Th211 Monitoring and Risk Assessment of Contaminants of Emerging Concern in the Middle Tagus River Basin (Central Spain) | **Cristina de los Reyes Ramos**, Castilla La Mancha University (UCLM), Spain

3.04.P-Th212 Development of an Analytical Method based on micro-Matrix Solid Phase Dispersion Combined with Gas Chromatography -Mass Spectrometry for the Determination of Bisphenols in Mussel Samples | **Nieves Carro**, INTECMAR (Techonological Institute for the Control of the Marine Environment of Galicia), Spain

3.04.P-Th213 Multicompound method for the ultra-sensitive quantification of non-polar pesticides in Swiss rivers and effluents | **Vera Ganz**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

3.04.P-Th214 Direct Aqueous Analysis of Pesticides and PPCPs in Drinking and Bottled Water at Parts per Trillion Levels | **Daniel McMillan**, SCIEX, United Kingdom

3.04.P-Th215 Exploring the impacts of primary and secondary aerosols from emerging sources on human health | **Aristeidis Voliotis**, University of Manchester, United Kingdom

3.04.P-Th216 Towards Standardization of the Biomimetic Extraction using Solid-Phase Microextraction (BE-SPME) Analytical Method | **Barry Kelly**, Simon Fraser University, Canada

Analytical Developments and Challenges in Detection and Monitoring of the Growing Universe of Per- And Polyfluoroalkyl Substances (PFAS) | Lara Cioni, Melanie Lauria, Mohammad Sadia, Dorte Herzke

3.05.P-Th217 Quantification of ultrashort per- and polyfluoroalkyl substances (PFAS) in water samples via headspace gas chromatography-mass spectrometry (GC-MS) - a method development | **Peter Leube**, Bundesanstalt für Materialforschung und -prüfung (BAM), Germany

3.05.P-Th218 Per- and Polyfluoroalkyl Substances (PFAS) Precursors in Dutch Surface Waters | **D. Liwara**, Vrije University Amsterdam, Netherlands

3.05.P-Th219 PFAS in Sub-Antarctic Seabirds: Evidence for Long-Range Transport and Bioaccumulation of Emerging Contaminants | **Imogen Bailes**, Lancaster University, United Kingdom

3.05.P-Th220 Potential Impacts of COVID-19 on Per- and Polyfluoroalkyl Substances (PFASs) in Air in the Great Lakes Basin | **Hayley Hung**, Environment and Climate Change Canada, Canada

3.05.P-Th221 Detection of Legacy and Emerging PFAS in Wastewater from a Fluoropolymer Production Facility in Italy | **Sara Valsecchi**, Water Research Institute - Italian National Research Council IRSA-CNR, Italy

3.05.P-Th222 Comprehensive Screening for Per- and Polyfluoroalkyl Substances (PFAS) in Fish From More Than 100 Water Bodies in Southern Germany | **Jessica Fischer**, Bavarian Environment Agency (LfU), Germany

3.05.P-Th223 Environmental and multisource monitoring of PFAS in a pan-European perspective | **Stefano Polesello**, Water Research Institute - Italian National Research Council IRSA-CNR, Italy

3.05.P-Th224 Per- and Polyfluoroalkyl Substances (PFAS): Validation of Methodology for the Determination of Residues in Surface Water and Plasma | **Stephen Brewin**, Labcorp, United Kingdom

3.05.P-Th225 PFAS Reference Materials: From Industrial Precursors and Technical Grade to High Purity n-Isomers | **Huiling Liu**, Chiron AS, Norway

3.05.P-Th226 Laboratory Considerations when Analysing PFAS Containing Samples | **Matt James**, Avantor Sciences, United Kingdom

3.05.P-Th227 Overcoming Solvent Effects at High Injection Volumes in PFAS Analysis | **Marcus Chadha**, Agilent Technologies, Inc., United Kingdom

3.05.P-Th228 PFAS Analysis to Address the EU Regulations for 24 Compounds | **Day Powell**, Agilent Technologies, Inc., United Kingdom

3.05.P-Th229 Occurrence of Poly- and Perfluoroalkyl Substances (PFAS) in Transitional and Marine Water along the Dublin Coast | **Helen Burke**, Dublin City University (DCU), Ireland

3.05.P-Th230 An Investigation into Apolar Extractable Organofluorine | **Melanie Lauria**, Stockholm University, Sweden

3.05.P-Th231 Method Validation for the Analysis of per- and polyfluoroalkyl substances (PFAS) in Water Samples using Solid Phase Extraction and Liquid Chromatography coupled to Tandem Mass Spectrometry | **Andreia Videira**, Empresa Portuguesa das Águas Livres, S.A. – EPAL, Portugal

3.05.P-Th232 Enhanced confidence in the identification of PFAS using high resolution mass spectrometry (HRMS) | **Cecile Pinto**, Waters Corporation, France

3.05.P-Th233 Investigating The Extent of Legacy Per- and Polyfluoroalkyl Substances Contamination in English Surface Waters: An Environmental Agency Water Quality Archive Investigation | **Rafael Georgiou**, Lancaster University, United Kingdom

3.05.P-Th234 Monitoring Produced Gases From PFAS Removal Technologies Using Thermal Desorption Coupled To Gas Chromatography/Mass Spectrometry | **Chris Llewellyn**, Markes International, United Kingdom

3.05.P-Th235 Quantitation of different compound classes in drinking water to comply with EU regulations by LC-MS/MS workflow and direct injection | **Josep Lliberia**, Sciex Spain, Spain

3.05.P-Th236 Utilizing Ion Mobility to Enhance Targeted and Non-Targeted Analysis of Per- and polyfluoroalkyl substances (PFAS) from a Landfill Leachate Sample | **Cecile Pinto**, Waters Corporation, France

3.05.P-Th237 Extending PFAS coverage and sensitivity in a direct injection UPLC-MS/MS method for water matrices based on EU and UK Drinking Water regulations | **Cecile Pinto**, Waters Corporation, France

3.05.P-Th238 Screening of Legacy Precursor Per- and Polyfluoroalkyl Substances (PFAS) and Potential Precursors in Curtains, Sofas and Carpets Fabric Samples | **D. Liwara**, Vrije University Amsterdam, Netherlands

3.05.P-Th239 Per- And Polyfluorinated Alkyl Substances (PFAS) in Car Interior Materials | **Ulrika Eriksson**, Oerebro University, Sweden

3.05.P-Th240 Fate of PFAS in dune infiltration systems | **Elvio Amato**, KWR Water Research Insititute, Netherlands

3.05.P-Th241 To Isolation and Beyond: A New Mixed Mode Column Approach for PFAS Chromatography | **Cecile Pinto**, Waters Corporation, France

3.05.P-Th242 Uncovering the PFAS Complexity: A powerful IMS-QTOF Workflow for Biota Analysis combining Targeted and Non-target Approaches | **Noud van der Borg**, Bruker Nederland B.V., Netherlands

3.05.P-Th243 Fate of Per- and Polyfluoroalkyl Substances in a Waste-to-Energy (WtE) Plant – Transport and Distribution in WtE Residues | **Sofie Björklund**, Industrial Doctoral School, Umea university, University of Umea, Sweden

3.05.P-Th244 Electrochemical Degradation of Perfluorinated Organic Compounds (PFAS) in pH-Controlled media using Boron-Doped Diamond (BDD) Flow Cell | **Dua'a Tahboub**, University Duisburg-Essen (Uni DUE), Germany

3.05.P-Th245 Solving the PFAS Challenge: Comprehensive Screening of Environmental Samples against 1000s of Compounds in a Single Run | **Arnd Ingendoh**, Bruker Daltonics GmbH & Co. KG, Germany

3.05.P-Th246 Ion Mobility Filtering for Non-Targeted Analysis of PFAS from Environmental Samples Collected at a Ski Resort | **Cecile Pinto**, Waters Corporation, France

3.05.P-Th247 Pushing PFAS Possibilities: The hunt for Ultra Sensitivity to Reach ppq EPA Health Advisory Levels | **Cecile Pinto**, Waters Corporation, France

3.05.P-Th248 Performance of Different Sorbents on the Removal of Per- and Polyfluoroalkyl Substances from Aqueous Firefighting Foam Impacted Ground- and Wastewater | **Joost Dalmijn**, Stockholm University, Sweden

3.05.P-Th249 Developing Targeted and Untargeted Liquid Chromatography-Tandem Mass Spectrometry Methods for Analyzing PFAS in Potable and Wastewater Samples | **Emir Nazdrajić**, University of Waterloo, Canada

3.05.P-Th250 PFAS in Danish Groundwater: A combined Targeted and Non-Targeted-Screening Approach | **Jana-Sophie Appelt**, University of Southampton, United Kingdom

3.05.P-Th251 An ultra-high sensitivity and robust analysis of PFAS compounds in multiple water sources. | **Jianru Stahl-Zeng**, AB Sciex Germany GmbH, Germany

POSTER AREA 2

Beyond Microplastics: Analytics, Environmental Fate and Impacts of (Water-Soluble) Polymers and Biodegradable Polymers | Glauco Battagliarin, Pippa Kate Curtis-Jackson, Renata Gerhardt, Hans Sanderson

3.07.P-Th280 Bioavailability of Polymers: Factors Governing Bioaccumulation and Toxicity | **Fola Ogungbemi**, Currenta GmbH & Co. OHG, Germany

3.07.P-Th281 Overcoming Analytical Challenges in Size Exclusion Chromatography for Accurate Characterization of Molecular Weight Distribution of Polymers | **Timo Beskers**, BASF SE, Germany

3.07.P-Th282 A Proposal for a Three-Tiered Approach for Targeted Information Requirements for Polymers | **Nathalie Vallotton**, Dow Europe GmbH, Switzerland

3.07.P-Th283 Biodegradation of Water-Soluble Polymers – Reviewing In-Silico Methods | **Dimitrios Skodras**, Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Germany

3.07.P-Th284 A Novel Approach for Determining Oligomer Content in Partially Insoluble Polymers Using Size Exclusion Chromatography and OECD 118/119 | **Timo Beskers**, BASF SE, Germany

3.07.P-Th285 Assessing the Applicability of Eco-Toxicological OECD Guidelines 202 and 487 for Testing of Polymers | **Simon Lüderwald**, BASF SE, Germany

3.07.P-Th286 Influence of Gel Permeation Chromatography Set-up on Results | **Sebastian Schmiedt**, Eurofins Agroscience Services EAG Laboratories GmbH, Germany

3.07.P-Th287 Challenges and Recommendations for Addressing Side Components in SEC Chromatograms of Polymers for Regulatory Purposes | **Timo Beskers**, BASF SE, Germany

3.07.P-Th288 Polyvinylpyrrolidone in aquatic organisms: Development of an aqueous GPC method for water-soluble polymer analysis | **Eve Tarring**, Cardiff University, United Kingdom

3.07.P-Th289 A comprehensive study of polymer – lipid membrane interactions with in-chemico NAMs. | **Wendel Wohlleben**, BASF SE, Germany

3.07.P-Th290 Polyethylene Terephthalate (PET) Biodegradation Using Isothermal Titration Calorimetry: A Path to Circular Economy | **Noelia Fernandez Merayo**, University of Leipzig, Germany

3.07.P-Th291 Polymer risk assessment: Consideration from the ECETOC Polymer Task Force | **Nathalie Vallotton**, Dow Europe GmbH, Switzerland

3.07.P-Th292 Environmental Persistency Assessment for Synthetically Modified Biopolymers | **Harald Streicher**, Beiersdorf, Germany

3.07.P-Th293 Safer by design approach to support innovation : a practical case study with microplastics | **Mickael Cregut**, Solvay - Biomattech- RIC-Lyon, France

3.07.P-Th294 Modelling Techniques for the Prediction of Polymer Properties | **Averina Nicolae**, BASF SE, Germany

3.07.P-Th295 Applying a High-Throughput Biodegradation Test to Assess Factors Affecting the Biodegradability of Polymers | **Edward Mitchell**, Newcastle University, United Kingdom

3.07.P-Th296 Investigating Biodegradation of Polymers: A Bibliometric Analysis of Research Trends and Proposed Informative Framework for Water-Soluble Polymers | **Russell Davenport**, Newcastle University, United Kingdom

3.07.P-Th297 Fragrance encapsulates: impact of the polymeric shell purification method on the accuracy of the OECD 301F biodegradability assessment | **Karen Jenner**, Givaudan UK Ltd, United Kingdom

3.07.P-Th298 (Bio)degradation of Model Polymers with Varying Physico-Chemicals Properties & Structures | **Guillaume Cottin**, L'OREAL, France

3.07.P-Th299 Interactions of cosmetic polyacrylic-based water-soluble polymers with activated sludge: Biodegradability, adsorption, and effects | **Gabriela Kalcikova**, University of Ljubljana, Slovenia

3.07.P-Th300 Prolonged test duration for testing the biodegradability of polymers in OECD 301 improves reproducibility of test results | **Marlies Bergheim**, Henkel AG & Co. KGaA, Germany

3.07.P-Th301 Biodegradability of Water-Soluble and Water-Dispersible Polymers in Respirometric Laboratory Methods | **Glauco Battagliarin**, BASF SE, Germany

3.07.P-Th302 From Proteome to Behaviour: Evaluating the Ecological Impacts of Water-Soluble Polymers on Daphnia Magna | **Lara Nigro**, University of Milan, Italy

3.07.P-Th303 Assessing the biodegradability of water-soluble polymer flocculants and their impact on microbial communities | **Eve Tarring**, Cardiff University, United Kingdom

3.07.P-Th304 Fate of water-soluble and water-dispersible polymers used in agricultural formulations | **Kevin Kleemann**, ETH Zurich, Switzerland

3.07.P-Th305 Can we Spectroscopically Trace Deuterium from Labeled Biodegradable (Micro)Plastics into Microbial Biomolecules? | **Natalia Ivleva**, Technical University of Munich, Chair of Analytical Chemistry and Water Chemistry, Institute of Water Chemistry, Germany

3.07.P-Th306 Development of a Modified Screening Method for Degradation of Polymers and Validation with 14C-radiolabelled Alginate | **Julia Peters**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

3.07.P-Th307 Downscaling of syntheses and preparation of a variety of 14C -labelled polymers and oligomers | **Dieter Hennecke**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

3.07.P-Th308 Assessing the biodegradation of polymers using 13C-labelling | **Michael Sander**, Department of Environmental Systems Science, ETH Zürich, Switzerland

3.07.P-Th309 Assessing the Suitability of Standardised Tests to Monitor Polymer Biodegradation in Soil | **Grace Davies**, University of Birmingham, United Kingdom

3.07.P-Th310 Long-term field degradation of mulch films and their effect on soil microbial communities | **Martine Graf**, School of Environmental & Natural Sciences, Bangor University, United Kingdom

3.07.P-Th311 Developing New Methods for Assessing Freshwater Biodegradability of Plastics | **Sebastian Groß**, BASF SE, Germany

3.07.P-Th312 Comparison of the characteristics of In-situ Freshwater biofilm development on bioplastics and petrochemical plastics | **Tadar Yadar**, Korea University, Korea, Republic of

3.07.P-Th313 Evaluating Bioplastic Degradation and Fragmentation Using Rainfall Simulation | **Cherrelle Johnson**, National University of Ireland Galway, Ireland

3.07.P-Th314 Fragmentation of biodegradable polymers: Assessing and modeling the interim fragmentation in different environmental compartments | **Patrizia Pfohl**, BASF SE, Germany

3.07.P-Th315 The Fate of "Compostable" Plastic Bags in Municipal Composting Plants | **Julia Möller**, Wageningen University & Research (WUR), Netherlands

3.07.P-Th316 Degradation of Biodegradable Plastics | **Sevil Vafadar Afshar**, Technical University of Denmark (DTU), Denmark

3.07.P-Th317 Plastic Degradation In Natural Seawater Conditions | **Sara López Ibáñez**, University of Vigo, Spain

3.07.P-Th318 Bioplastic Bags Degradation Under Marine Conditions In A Mesocosm Facility | **Sara López Ibáñez**, University of Vigo, Spain

3.07.P-Th319 Investigations into Ageing of Monofilaments Under Various Test Conditions in the Sea | **Sigrid Hakvåg**, SINTEF Ocean, Norway

3.07.P-Th320 Laccases as a Biocatalytic Tool for the Degradation of Biodegradable Plastics | **Stefanie Clauß**, University of Leipzig, Germany

Measuring Chemicals in the Environment – Maximising the Utility of Monitoring Data for Environmental Assessment | Graham Merrington, Lisa Nowell, Adam C Ryan

3.16.P-Th321 Regression on Order Statistics – An Improved and Straightforward Approach to Dealing with Non-Detects? | **Iain Wilson**, wca environment Ltd., United Kingdom

3.16.P-Th322 AQUA-GAPS/MONET-derived concentrations and trends of PAHs and polycyclic musks across global waters | **Rainer Lohmann**, University of Rhode Island, USA

3.16.P-Th323 Effectiveness and Interpretation of Surface Water Chemical Quality Indicators: A Case Study in England. | **Neve Hughes**, University of Birmingham, United Kingdom

3.16.P-Th324 LUCI - A GIS-tool to select monitoring sites in river networks based on catchment properties allowing for hypothesis testing and statistical independence | **Tom Galle**, Luxembourg Institute of Science and Technology (LIST), Luxembourg

3.16.P-Th325 The challenges of creating a pan-European database and open-access dashboard of readily available public chemical monitoring data | **Gregory Hughes**, GeoSpatial Analytics Ltd, United Kingdom

3.16.P-Th326 Comparison of the relevance of a dataset for different assessment purposes | **Jeanne Vuaille**, EEA,

3.16.P-Th327 Assessing the Reliability and Relevance of a Dataset for Evaluating the Effects of Metal Mixtures on Benthic Macroinvertebrates in the Field | **Jeanne Vuaille**, EEA,

3.16.P-Th328 Temporal Trends of Atmospheric PBDEs in Spain: An Analysis over a Decade (2008-2019) | **Begoña Jiménez**, Institute of Organic Chemistry, Spanish National Research Council (IQOG-CSIC), Spain

3.16.P-Th329 Contextualisation of RAC exceedances reported for small surface water bodies in Germany | **Oliver Körner**, ADAMA Deutschland GmbH, Germany

3.16.P-Th330 Monitoring chemical emissions from offshore wind farms: assessing impacts, gaps and opportunities | **Bavo De Witte**, Institute for Agriculture and Fisheries Research (ILVO), Belgium

3.16.P-Th331 Using biota monitoring data to identify priority substances and improve chemical risk assessment and management under REACH | **Oliver Machate**, German Environment Agency (UBA), Germany

3.16.P-Th332 Copper does not appear to drive adverse effects on German aquatic biodiversity: A spatial analysis of copper concentrations in German surface waters and sediments and biomonitoring data | **Gareth Le Page**, Battelle UK, United Kingdom

3.16.P-Th333 Determination of Biogenic Sterols in Surface Sediments of Admiralty Bay, Antarctic, and their Relationship with Recent Environmental Changes | **Gabrielle Lube**, University of São Paulo, Brazil

3.16.P-Th334 Estimation of Gas-particle partitioning Coefficients (Kp) of POPs in different Antarctic region. | **Victoria Gómez**, Universidad Mayor, Chile

3.16.P-Th335 Differences in the concentrations of organic pollutants in suspended particulate matter in Admiralty Bay, Antarctic Peninsula, during the summer of 2022/23 | **Amanda Souza**, University of São Paulo, Brazil

3.16.P-Th336 Detection of Particulate and Metal(loid) Emissions from Offshore Wind Farms | **Alexa Zonderman**, Helmholtz-Zentrum Hereon, Universität Hamburg, Germany

3.16.P-Th337 Footprints of Biohazards (VOCs, Volatile Organic Compounds): Monitoring of wastewater | **Parth Gupta**, G42 Healthcare, United Arab Emirates

3.16.P-Th338 Toxicity of Wastewater with Elevated Bromide concentration | **Nabiazam Sayed**, G42 Healthcare, United Arab Emirates

3.16.P-Th339 Presence of anthropogenic contaminants in urban groundwater wells | **Sergio Santana-Viera**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.16.P-Th340 Introduction to Automated Analysis of Multiclass Biohazardous Chemicals (BCs) and Persistent Organic Pollutants (POPs) in Water by APGC-MSMS with RTC PAL SPME Arrow | **Dnyaneshwar Shinde**, G42 Healthcare, United Arab Emirates

3.16.P-Th341 Analysis of Difficult Test Chemicals in Support of Aquatic Toxicity Studies (Organization for Economic Cooperation and Development Guidance Document 23) | **Marc Baremans**, Charles River Laboratories, United Kingdom

3.16.P-Th342 The development of salinisation in German waterways from 2000 to 2022 | **Theresa Piana**, Rhineland-Palatinate Technical University Kaiserslautern-Landau (RPTU), Germany

3.16.P-Th343 Monitoring of seven N-nitrosamines in raw and cooked Korean food by UPLC-APCI-MS/MS | **In-Kyu Lee**, Eulji university, Korea, Republic of (South)

Pharmaceuticals in the Environment – Risk Assessment, Regulation, and New Insights Into the Science Globally | John Wilkinson, Dean Leverett, Todd Davidson

3.20.P-Th344 Metabolites Are Overlooked in Environmental Risk Assessment and Monitoring of Pharmaceuticals: The Case Study of Pantoprazole | **Finnian Freeling**, TZW: DVGW-Technologiezentrum Wasser (German Water Centre), Germany

3.20.P-Th345 A Refined Read-Across Approach to Support Environmental Assessment of Data-Poor Pharmaceuticals | **Tim Verslycke**, Gradient, United States

3.20.P-Th346 Exposure Assessment of Pharmaceuticals in the Northern Adriatic Sea: Emission Inventory and Environmental Modelling | **Loris Calgaro**, University Ca' Foscari of Venice, Italy

3.20.P-Th347 Can the Enantiomeric Fraction of Chiral Pharmaceuticals be used to Identify Septic Tank Discharges? | **Maike Wilschnack**, Robert Gordon University, United Kingdom

3.20.P-Th348 Seasonal study of the presence of pharmaceuticals in A Coruña estuary (NW Spain) | **Jorge Lejo-Santiago**, University of A Coruña, Spain

3.20.P-Th349 Evaluation of the Occurrence and Fate of Pharmaceuticals in North and South Mediterranean Intermittent River Basins | **Olga Gómez Navarro**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.20.P-Th350 Solid-phase extraction and chromatographic determination of diazepam, alprazolam and clonezapam in wastewater samples | **Vernon Somerset**, Cape Peninsula University of Technology, South Africa

3.20.P-Th351 Anthropogenic Gadolinium And Correlations of Pharmaceuticals Along River Wutach (Black Forest Germany) | **Thomas Schiedek**, Technical University Darmstadt, Germany

3.20.P-Th352 Perils of Pet Pollution: Monitoring of Companion Animal Parasiticides in English Surface Waters | **Isla Thorpe**, University of York, United Kingdom

3.20.P-Th353 Occurrence and Human Exposure Assessment of Pharmaceutically Active Compounds (PhACs) in Indoor Dust Collected from Spanish Homes, Schools and Offices | **María Ángeles Martínez**, Center for Energy, Environmental and Technological Research (CIEMAT), Spain

3.20.P-Th354 Aquatic-to-Terrestrial Transfer of Pharmaceuticals: Insights from Riparian Spiders | **Natalia Sandoval Herrera**, Swedish University of Agricultural Sciences, Sweden

3.20.P-Th355 Assessing the environmental fate of novel peptidomimetic antimicrobial molecules | **Owen Daniel**, METIS - UMR 7619, France

3.20.P-Th356 Biosorption of Pharmaceutical Compounds under Acidogenic and Methanogenic Condition during Anaerobic Digestion: Effect of pH and Glycerol Co-fermentation | **Rodrigo Carneiro**, University of São Paulo (USP), Brazil

3.20.P-Th357 Degradation Studies of Some Pharmaceuticals Present in Sewage Sludge | **Lembit Nei**, Tallinn University of Technology, Estonia

3.20.P-Th358 Unravelling the Dynamics of a Photolabile Pharmaceutical in the River Rhine: Real-Life Degradation Rates and the Impact of Sunlight Variability | **Enpei Li**, German Federal Institute of Hydrology, Germany

3.20.P-Th359 Pharmaceutically Active Compounds (PhACs) in sediments and fish from a fluvial ecosystem. Tagus River case study | **María Ángeles Martínez**, Center for Energy, Environmental and Technological Research (CIEMAT), Spain

3.20.P-Th360 A microcosm to elucidate the mobility of wastewater derived pharmaceuticals in soils and their effects towards respiration - a combined fate and effect study | **John Nightingale**, University of Leeds and Fera Science Ltd, United Kingdom

3.20.P-Th361 Prioritisation of fish testing requirements for human pharmaceuticals – a quantitative impact analysis | **Samuel Maynard**, AstraZeneca UK Ltd, United Kingdom

3.20.P-Th362 Ecological risk assessment of human pharmaceuticals detected in Japan and establishment of ecotoxicity database | **Hiroshi Yamamoto**, The University of Tokyo, National Institute for Environmental Studies (NIES), Japan

3.20.P-Th363 Ecological Risk Assessment of Individual PPCPs and Their Mixtures in Korean Surface Waters | **Jun Yub Kim**, Gwangju Institute of Science and Technology, Korea, Republic of (South)

3.20.P-Th364 A biomarker-based investigation of the effects of metformin and guanylurea on the Mediterranean mussel, Mytilus galloprovincialis | **Ayesha Rafiq**, University of Bologna, Italy

3.20.P-Th365 Hazards of Cardiovascular Drugs in the Aquatic Environment: Impact on Growth and Vascular System Development in Zebrafish (Danio rerio) Embryos | **Giulia Cafiero**, University of Heidelberg, Germany

3.20.P-Th366 Toxicity of Diclofenac Towards Baltic Cyanobacteria and Their Biochemical Response | **Klaudia Kwidzińska**, University of Gdansk, Poland

3.20.P-Th367 Pharmaceutical Pollution Drives Changes in the Composition and the Functionality of the Aquatic Microbial Biotic and Abiotic Communities | **Julian Blasco**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

3.20.P-Th368 Green microalgae respond differently to the toxicity of diclofenac. An study with Scenedesmus quadricauda and Ankistrodesmus falcatus | **Fernando Martínez-Jerónimo**, Instituto Politécnico Nacional. Escuela Nacional de Ciencias Biológicas, Mexico

3.20.P-Th369 Does DCF influence antioxidant enzyme system in Baltic cyanobacteria? Biochemical response of the cells to environmental emergent pollutant | **Magda Caban**, University of Gdansk, Poland

3.20.P-Th370 Application of flow cytometry for testing of pharmaceuticals toxicity toward cyanobacteria | **Magda Caban**, University of Gdansk, Poland

3.20.P-Th371 Antibiotics and its Associated Risk in an Indonesian Reservoir | **Miranti Ariyani**, Wageningen University & Research (WUR), Netherlands

3.20.P-Th372 Pharmaceutical pollution in agriculture: Impacts & risks of antidepressants on soil health and crop production | **Isla Stubbs**, University of York, United Kingdom

3.20.P-Th373 Are there alternatives to PFAS pharmaceuticals? | **Gunther Speichert**, German Environment Agency (UBA), Germany

3.20.P-Th374 Demonstrating the environmental benefits of greener alternative pharmaceuticals in a hazard driven regulatory landscape | **Rebecca Brown**, wca environment Ltd., United Kingdom

3.20.P-Th375 Pharmaceuticals Strategy for Europe: A Call for Continuous Improvement towards Environmental Protection | **Sam Harrison**, UK Centre for Ecology and Hydrology (UKCEH), United Kingdom

3.20.P-Th376 Proposal for of a threshold approach to PBT/PMT assessment of active pharmaceutical ingredients (APIs) | **Gemma Janer**, Novartis Pharma, Spain

3.20.P-Th377 Toward a greener pharmacy: preparation of factsheets on potential environmental risks of pharmaceuticals products to support the environmentally conscious prescription of medicines | **Stefano Polesello**, Water Research Institute - Italian National Research Council IRSA-CNR, Italy

3.20.P-Th378 Use Pharmaceutical PNECs with Caution | **Neil Parke**, Lilly, United States

3.20.P-Th379 Towards a Greener Pharmaceutical. A Comparative Study of the Environmental Risk of Ciprofloxacin and its Alternative CIP-Hemi from Human to River. | **Qiyun Zhang**, Ghent University - GhEnToxLab, Belgium

3.20.P-Th380 Ecological Impacts of the Pharmaceutical Pollutant Oxazepam on Roach (Rutilus rutilus) Behavior in Natural Environments: Integrating Landscape Use and Resource Selection | **Natalia Sandoval Herrera**, Swedish University of Agricultural Sciences, Sweden

3.20.P-Th381 From Science to Practice: Ecotoxicological Insights in Malaria Vector Control in Burkina Faso | **Andre Heinrich**, Justus Liebig University Giessen, Germany

3.20.P-Th382 Bioaccumulation of pharmaceuticals and metabolome investigation in trout – from egg to young-of-the-year fish | **Kateřina Grabicová**, University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, Czech Republic

POSTER AREA 3

Tire-Road Wear Particles: Analytical Possibilities, Challenges, and Current Knowledge of Environmental Impact | Elisabeth Støhle Rødland, Stephan Wagner, Frank G.A.J. van Belleghem, Farhan R. Khan

3.23.P-Th400 Exploring the Potential of Proton-Transfer-Reaction Mass Spectrometry for the Analysis of Tire Wear Particles in Air | **Nikita Sobolev**, University of Oslo, Norway

3.23.P-Th401 Microplastics and tyre wear particles infiltration in the soil of a roadside biofiltration swale | **Max Beaurepaire**, LEESU, France

3.23.P-Th402 Exposure to Cryogenically Milled Tire Tread Contamination May Induce Functional Changes in Periphyton Communities | **Sara Gonçalves**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

3.23.P-Th403 Presence of 6PPD, 6PPDq and Related Compounds in Real Water Samples Contaminated by Coming Into Contact with Tire Rubber Surfaces | **Andres Duque-Villaverde**, University of Santiago de Compostela, Spain

3.23.P-Th404 Biodegradation of tire-related phenylenediamines and their transformation products identification | **Limei Han**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.23.P-Th406 Characterization of the Impact of Standard Soils as Sample Matrix on the Pyrolysis Products of Polystyrene and Tire Particles | **Luca Muth**, University of Applied Science Fresenius, Germany

3.23.P-Th407 Trace Metal Adsorption on Tire and Road Wear Particles in Surface Waters – A Problem for Water Quality? | **Angus Rocha Vogel**, Helmholtz Centre for Environmental Research (UFZ), Germany

3.23.P-Th408 Comprehensive Approach to National Tire Wear Emissions | **Maria Polukarova**, Chalmers University of Technology, Sweden

3.23.P-Th409 The Identification and Quantification of Tire and Road Wear Particles in Osaka Bay, Japan, by Two Analytical Methods | **Timothy Barber**, ERM, USA

3.23.P-Th410 The measurement of tire and road wear particles in road surface, roadside soil and retention basin samples in the Chesapeake Bay watershed, USA | **Timothy Barber**, ERM, USA

3.23.P-Th411 Exploring the Presence and Spatial/Temporal Patterns of Tire and Road Wear Particles in the Seine River, France | **Timothy Barber**, ERM, USA

3.23.P-Th412 Tyre Wear and other Microplastics in Snow in Urban Traffic Environments | **Maria Polukarova**, Chalmers University of Technology, Sweden

3.23.P-Th413 Tyre Wear Particles at a Swedish Highway– Occurrence in Stormwater, Sediments and Snow | **Elly Gaggini**, Chalmers University of Technology, Sweden

3.23.P-Th414 Detection and Effects of pneumatic microparticles in aquatic environments – Case study in run-off water | **Coralie Le Picard**, University of La Rochelle, France

3.23.P-Th415 Tyre and Road Wear Particles and Additive Chemicals in Roadside Sustainable Drainage Systems (SUDS) | **Katie McKenzie**, Robert Gordon University, United Kingdom

3.23.P-Th416 Chemical Profile and Toxicity of Leachates from Different Types of Tires | **Elisabeth Rødland**, Norwegian Institute for Water Research (NIVA), Norway

3.23.P-Th417 Investigating toxicity pathways of crumb rubber-derived particles and leachates on blue mussels Mytilus edulis | **Tania Gomes**, Norwegian Institute for Water Research (NIVA), Norway

3.23.P-Th418 Understanding the Impact of Chemical Leachates from Car Tire Rubber on Marine Microalgae: Insights into Toxic Mechanisms and Ecosystem Implications | **Ana Almeida**, Norwegian Institute for Water Research (NIVA), Norway

3.23.P-Th419 A Comparison of the Uptake of Tyre Particles via Suspension and Surface Deposit Feeding in the Estuarine Amphipod, Corophium volutator | **Charlotte Woodhouse**, University of Exeter, Plymouth Marine Laboratory, United Kingdom

3.23.P-Th420 It's Getting Confusing: 6PPD-quinone Induces Developmental Cardiotoxicity in Fathead Minnow (Pimephales promelas) Embryos Following Microinjection | **Katherine Anderson-Bain**, University of Lethbridge, Canada

3.23.P-Th421 Chronic Toxicity of Tire Additive 6PPD and its Oxidized Substance 6PPD-Q in the Reproduction and Locomotion of Daphnia magna | **Yooeun Chae**, Korea Institute of Toxicology (KIT), Korea, Republic of (South)

3.23.P-Th422 Fate, Effects and Ecosystem Interactions of 6-PPD-Quinone: A Freshwater Enclosure Study | **Jose Rodriguez Gil**, Experimental Lakes Area (IISD-ELA), Canada

Unveiling the Chemical Exposome: Insights From Human Biomonitoring and Its Influence on Adverse Health Outcomes | Montse Marquès, Pablo Gago-Ferrero, Ruben Gil-Solsona, Adrià Sunyer-Caldú

3.24.P-Th423 Assessing The Pregnant Women Chemical Exposome Through Serum And Placenta (Semi) Quantitative Analysis | **Esteban Restrepo-Montes**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.24.P-Th424 Potential Association of Endocrine-Disrupting Chemicals with Frontal Fibrosing Alopecia: A Case-Control Study | **Ana González Ruiz**, Pere Virgili Health Research Institute (IISPV), Spain

3.24.P-Th425 Nontarget and Multi-Class Target Chemical Exposomics in Human Plasma by Lipid Removal and Large Volume Injection GC-HRMS | **Hongyu Xie**, Stockholm University, Sweden

3.24.P-Th426 Unveiling the Chemical Exposome of Brain Cancer: A Proof of Concept | **Pablo Gago Ferrero**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.24.P-Th427 Holistic determination of the prenatal exposome for a comprehensive overview of placental barrier | **Montse Marquès**, Rovira i Virgili University (URV), Spain

3.24.P-Th428 Advanced HRMS-Based Strategies for Profiling and Semi-Quantification of Exogenous Chemicals in Human Urine. | **Daniel Gutiérrez-Martín**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.24.P-Th429 Biomonitoring of Different Endocrine-Disrupting Chemicals Metabolites in Urine Samples | **Sandra Callejas Martos**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.24.P-Th430 Wide-scope Target and Nontarget Profiling of the Airborne Chemical Exposome using Polydimethylsiloxane (PDMS) Passive Samplers | **Adrià Sunyer-Caldú**, Stockholm University, Sweden

3.24.P-Th431 Exposure level to legacy phthalates and alternative plasticizer metabolites in urine during pregnancy and delivery | **Na-Youn Park**, Eulji University, Korea, Republic of (South)

3.24.P-Th432 Lipidomic Changes and Toxicity Induced in Human Lung Cells by a Mixture of Water Disinfection byproducts | **Mahboubeh Hosseinzadeh**, Institute for Environmental Assessment and Water Research, Spanish Research Council (IDAEA-CSIC), Spain

3.24.P-Th433 "Exposure Levels of Environmental Phenols in the Urine of Pregnant Women during Pregnancy and Childbirth" | **SuBeen Park**, Eulji University, Korea, Republic of (South)

3.24.P-Th434 Identification of exogenous organic compounds in blood plasma, seminal plasma and urine, and their association with human semen quality | **Montse Marquès**, Institut d'Investigació Sanitària Pere Virgili, Rovira i Virgili University (URV), Spain

3.24.P-Th435 Korean National Biomonitoring Programs and Comparative Toxicogenomics Database Analysis Reveals AOP of Atopic Disease by DEHP Exposure: Epidemiology and Toxicology Combined Approach | **Donghyeon Kim**, University of Seoul, Korea, Republic of (South)

3.24.P-Th436 Multi-target analysis and suspect screening of exposome-related xenobiotics in human follicular biofluid | **Mikel Musatadi**, Research Centre for Experimental Marine Biology and Biotechnology (PiE-UPV/EHU), Spain

3.24.P-Th437 Determination of Aflatoxin B1 and M1 in human breast milk | **MCarmen Collado**, Institute of Agrochemistry and Food Technology, Spanish National Research Council (IATA-CSIC), Spain

Biodiversity, Ecosystem Services and Ecological Risk Assessment: Advances and Challenges | Marie-Hélène Enrici, Sabine Elisabeth Apitz, Gabriel Sigmund

4.02.P-Th438 Modeling Chemical Source-to-Damage Pathways in Terrestrial Ecosystems | **Susan Oginah**, Technical University of Denmark, Denmark

4.02.P-Th439 Scaling Up: An Ecosystem Services Approach To Assess Chemical Risk To Recreational Fisheries Within A River Network | **Susanna Mölkänen**, University of Sheffield, United Kingdom

4.02.P-Th440 Understanding the Impact of Anthropogenic Environmental Change on Freshwater Biodiversity across Spatiotemporal Scales | **Niamh Eastwood**, University of Birmingham, United Kingdom

4.02.P-Th441 Linking ecological and ecotoxicological risk to ecosystem services degradation of Alento catchment (Southern Italy) | **Sara Accardo**, University Parthenope,

4.02.P-Th442 Enhancing Government Processes and Communication Through Bayesian Networks | **Wayne Landis**, Western Washington University, USA

4.02.P-Th443 Assessing risks to biodiversity from exposure to chemicals: findings of an ECETOC Task Force on the regulatory context | **Christoph Mayer**, BASF SE, Germany

4.02.P-Th444 Assessing Risks to Biodiversity from Exposure to Chemicals: Findings of an ECETOC Task Force on Current and Future Research Directions | **Anja Gladbach**, Bayer AG - Crop Science Division, Germany

4.02.P-Th445 CSRD and TNFD, learnings from the sustainability reporting journey | **Christian Bogen**, Bayer AG - Crop Science Division, Germany

4.02.P-Th446 Increasing transparency of the environmental profile of agriculture to inform sustainability improvements and environmental protection goals with a pragmatic two-phase methodology | **Christian Bogen**, Bayer AG - Crop Science Division, Germany

4.02.P-Th447 Linking Freshwater Mussel Habitat Conditions to Restoration Outcomes and Ecosystem Services | **Nile Kemble**, U.S. Geological Survey, USA

4.02.P-Th448 Using DECOTABs to evaluate organic matter decomposition by aquatic hyphomycetes in pesticide-contaminated environments | **Lais Menezes da Silva**, RPTU Kaiserslautern-Landau, Germany

Understanding, Detection, Monitoring, and Management of Harmful Algal Blooms (HABs) and Biotoxins for a Safer Environment and Public Health | Javier Moreno-Andrés, James M. Lazorchak, Sandra Lage, Marisa Sarria Pereira de Passos

4.14.P-Th449 Bloom Dynamics Monitoring Program of the Toxic Benthic Dinoflagellate Ostreopsis along the Basque Coast (South East Bay of Biscay) | **Yago Laurenns-Balparda**, University of the Basque Country (UPV/EHU), Spain

4.14.P-Th450 High-Frequency Monitoring of Lake Plankton Abundances | **Marco Baity-Jesi**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

4.14.P-Th451 Seasonal variability of tetrodotoxin and analogues in trumpet shell, Charonia Lampas | **Sandra Lage**, CCMAR - Center for Marine Sciences, Portugal

4.14.P-Th452 Enhanced Control of Biological Contaminants and Biotoxins in Shellfish Aquaculture through UV-LED Technology | **Javier Moreno-Andrés**, University of Cadiz, Spain

4.14.P-Th453 Efficient Adsorbents based on Covalent Organic Frameworks and Polymers for Biotoxins from Harmful Algal Blooms | **Begoña Espina**, International Iberian Nanotechnology Laboratory, Portugal

4.14.P-Th454 Assessment of Heterosigma akashiwo Inactivation by UV Irradiation at Different Wavelengths | **Javier Moreno-Andrés**, University of Cadiz, Spain

4.14.P-Th455 Impact of Intense Agricultural Activities on Biota in a Natural Protected Area in SW Spain | **M Dolores Basallote**, Institute of Marine Sciences of Andalusia, Spanish National Research Council (ICMAN-CSIC), Spain

4.14.P-Th456 Cigarette Butts can Enhance Toxigenic Cyanobacteria Growth Through Fungal Parasite Infection Suppression | **Erika Berenice Martinez Ruiz**, Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Germany

4.14.P-Th457 Acute Toxicity of Harmful Algae on Marine Zooplankton in the Context of Climate Change | **Wenxin Liu**, Ghent University, Belgium

4.14.P-Th458 Cyanobacteria Blooms in City Parks: Implications for Urban Ecology in a Climate Change Scenario | **Ines Domingues**, University of Aveiro, Portugal

4.14.P-Th459 Influence of Temperature on Acute and Chronic Toxicity of Marine Algal Toxins — A Case Study with Copepod Nitokra spinipes | **Wenxin Liu**, Ghent University, Belgium

4.14.P-Th460 Gene Expression Response in Marine Mussels Exposed to Toxic Cyanobacteria | **Cristina Calzado**, University of Sevilla, Spain

4.14.P-Th461 Cylindrospermopsin Neurotoxicity in a Human Brain Spheroid Model | **Antonio Rodríguez**, University of Sevilla, Spain

4.14.P-Th462 Neurotoxic Assessment of Cylindrospermopsin and Microcystin-LR Mixtures in Rat Brain | **Cristina Calzado**, University of Sevilla, Spain

4.14.P-Th463 Investigation of Anatoxin-a Uptake and its Possible Cytotoxic Effects in Different Cell Lines | **Cristina Calzado**, University of Sevilla, Spain

4.14.P-Th464 Immunomodulatory Effects of Arsenic, Cadmium, and their Combinations with Cylindrospermopsin on the Human THP-1 Cell Line. | **Antonio Rodríguez**, University of Sevilla, Spain

Circularity Strategies and Life Cycle Thinking: Ensuring the Way to Sustainability | Valeria De Laurentiis, Davide Tosches, Carla Caldeira

5.01.P-Th467 Allocation of by-products: A multi-sector Life Cycle Assessment of low carbon steel and cement production in the United Kingdom | **Jacob Whittle**, University of Sheffield, United Kingdom

5.01.P-Th468 Comparison of Different End-of-Life Modelling Approaches for an Environmental Life Cycle Assessment of Agrivoltaic Systems in Austria | **Theresa Krexner**, University of Natural Resources and Life Sciences (BOKU), Austria

5.01.P-Th469 Environmental Impact Effect of Food Loss Reduction by Automated Ordering System | **Tomoya Hachiman**, Tokyo City University, Japan

5.01.P-Th470 Harnessing Carbon Capture and Utilization for New Carbon Material Fabrication: A Comprehensive Exploration of Environmental Benefits Through Life Cycle Thinking | **Mengshan Lee**, National Kaohsiung University of Science and Technology, Taiwan (China)

5.01.P-Th471 Identification of Environmentally Optimal Process Design for a Large-Scale Cellulose Nanocrystals Production | **Polina Yaseneva**, University of Cambridge, United Kingdom

5.01.P-Th472 Homogeneous Green Conversion of the Bio-Based Platform HMF (5-Hydroxymethylfurfural) into BHMF (2,5-Bis(hydroxymethyl)furan): Synthesis and LCA (Life Cycle Assessment) | **Eleonora Rossi**, University of Bologna, Italy

5.01.P-Th473 Eco-design Approach for the Steel Circularity: a Case Study of a Steel Radiator Manufacturing | **Riccardo Paoli**, Riga Technical University, Latvia

5.01.P-Th474 Environmental Assessment of Steel Slags Ball Milling Carbonation a Carbon Capture, Utilization and Storage Material | **Ponnapat Watjanatepin**, KU Leuven, Belgium

5.01.P-Th475 State of the art on the environmental sustainability of aluminum foundries based on Life Cycle Assessment: a systematic literature review. | **Federico Rossi**, Sant'Anna School of Advanced Studies, Italy

5.01.P-Th476 Leveraging Life Cycle Thinking to Select Sustainable Circular Materials for Highly Demanded and High-Performance Grout Production | **Nadine Riiashi**, University of Liège, Belgium

5.01.P-Th477 MalsoVi Project: Vacuum Insulation Materials, Innovative Approach for Windows in Construction and Renovation | **Sylvie Groslambert**, University of Liège, Belgium

5.01.P-Th478 R3PANOT: Rethinking the tile of the future of Barcelona city | **Carolina González**, Fundació EURECAT, Spain

5.01.P-Th479 Environmental performance of end-of-life scenarios of Electric Vehicles (EV) batteries following a life cycle approach | **Susana Leão**, Leitat Technological Center, Spain

5.01.P-Th480 Life Cycle Assessment of Electric Traction Machine Considering Novel Recycling Processes for Permanent Magnet Circularity | **Lea D'amore**, ETEC Department, Vrije Universiteit Brussel (VUB), Brussel, Belgium

5.01.P-Th481 Sustainable Design for Electric Vehicle Battery Packs: An Integrated Eco-Design Methodology | **Carolina González**, Fundació EURECAT, Spain

5.01.P-Th482 To Mix or Not to Mix? Life Cycle Assessment of Critical Raw Material Recovery From Lithium-Ion Batteries by Hydrometallurgy | **Yvonne Kaye Perocillo**, University of Liege - Chemical Engineering, Belgium

5.01.P-Th483 Development of a Methodology for Assessing Circularity at Company Level | **Elena Semenzin**, Ca' Foscari University of Venice, Italy

5.01.P-Th484 Digitalisation for a Sustainable Circular Economy: the DaCapo (Digital Assets and Tools for Circular Value Chains and Manufacturing Products) Project | **Valeria Acevedo García**, AIMEN, Spain

5.01.P-Th485 Can LCA Support the Circular Economy? Evidences From Recent Scientific Literature | **Caterina Barbiero**, University of Padova, Italy

5.01.P-Th486 Towards Cascading Use of Wood in Switzerland: Material Flow Analysis as the Basis for Circular Economy | **Nadia Malinverno**, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland

5.01.P-Th487 Urban Mining Riches: Unveiling the Economic Value in Electronic Scrap Material for Enhanced Recycling Strategies | **Ole Klein**, Helmholtz Center Hereon, Germany

5.01.P-Th488 Production and use of biofertilizers from organic waste for sustainable agriculture | **Cynthia Wong Arguelles**, El Colegio de Veracruz, Tecnologico Nacional de Mexico campus Ciudad Valles, Mexico

5.01.P-Th489 Sensitivity Analysis of a Life Cycle Assessment for Biochar in an Italian context | **Francesco Romagnoli**, Riga Technical University, Latvia

5.01.P-Th490 Unlocking the Technical, Economic and Environmental Implications behind a Multiproduct Biorefinery from Exhausted Olive Pomace | **Ángel Galán Martín**, University of Jaén,

Improving Chemical Regulation Through Robust Science, Data Accessibility, and Interdisciplinary Collaboration | Marlene Ågerstrand, Mathilda Andreassen, Caroline Moermond, Jan Woelz

6.07.P-Th491 The European Network of Human Biomonitoring Laboratories: Advancing the European HBM Platform in PARC | **Marta Esteban López**, National Centre for Environmental Health, Instituto de Salud Carlos III, Spain

6.07.P-Th492 Strengthening Collaboration for Next-Generation Environmental Risk Assessment (NG-ERA): A Horizon Europe PARC Platform and Process for Governance of Scientific Coordination | **Romana Hornek-Gausterer**, Environment Agency Austria, Austria

6.07.P-Th493 OECD QSAR Assessment Framework: Advantages and disadvantages of a tool designed to assess and ultimately strengthen predictive NAMs | **Paul Thomas**, KREATiS, France

6.07.P-Th494 Shifting Towards NAMs Based Risk Assessment: A Korean Case Study | **Dawoon Jung**, Korea Environment Institute (KEI), Korea, Republic of (South)

6.07.P-Th495 Differences and similarities between levels of protection of the aquatic ecosystem under different EU chemical regulations - Part I: surface waters | **Annette Aldrich**, Federal Office for the Environment (FOEN), Switzerland

6.07.P-Th496 Differences and Similarities Between Levels of Protection of the Aquatic Ecosystem under Different EU Chemical Regulations - Part II: Sediments. | **M. Carmen Casado-Martinez**, Swiss Centre for Applied Ecotoxicology Eawag (EPFL), Switzerland

6.07.P-Th497 Phenanthrene: A Regulatory Journey in the European Union | **David Saunders**, Shell Global Solutions, Netherlands

6.07.P-Th498 High level screening strategy to determine impact of new CLP hazard classes on chemical portfolios | **Valentina Ricottone**, ERM International Group Limited, United Kingdom

6.07.P-Th499 REACHing for solution: case of chemical regulation and regrettable substitution | **Ola Dosunmu**, Lancaster University, United Kingdom

6.07.P-Th500 German Court Judgement: The Right to Environmental Information Grants Access to Environmental Risk Assessment Data and Studies from the Human Medicinal Product Authorisation Procedure | **Carolin Floeter**, Hamburg University of Applied Sciences (HAW), Germany

6.07.P-Th501 Environmental Fate Data of Chemicals from Regulatory Dossiers – Harmonisation of Public Assessment Reports across different Regulation? | **Susanne Schwonbeck**, Fraunhofer ITEM - Institute for Toxicology and Experimental Medicine, Germany

6.07.P-Th502 Perspectives on Increasing Complexity in the Environmental Fate and Ecotoxicology Regulatory Space | **Aleksandra Zalewska**, GAB Consulting GmbH, Germany

6.07.P-Th503 Improving Implementation of the Stockholm Convention and other Global Governance Frameworks for Chemical Management in the Republic of Korea | **Yunsun Jeong**, Korea Environment Institute (KEI), Korea, Republic of (South)

6.07.P-Th504 Health-Based Limit Value Repository – Current Status and Future Challenges | **Bianca Pieczyk**, Fraunhofer Institute for Toxicology and Experimental Medicine (ITEM), Germany

6.07.P-Th505 The Mixture Allocation Factor & Options to Address Unintentional Environmental Mixtures Across Substance Regulations | **Enken Hassold**, German Environment Agency (UBA), Germany

6.07.P-Th506 A Gap Between Risk Assessors and Risk Managers in the Case of Pharmaceuticals in the Environment | **Boris Kolar**, National Laboratory of Health, Environment and Food, Slovenia

6.07.P-Th507 Enabling circular non-toxic supply-chains. | **Marlene Ågerstrand**, Stockholm University, Sweden

6.07.P-Th508 Impurity assessment in the EU from an (eco)toxicological perspective. How do we know if an impurity is relevant and if it enhances the (eco)toxicity of an active substance? | **Esteban García-Ruiz**, knoell Iberia S.L., Spain

6.07.P-Th509 The CATs are out of the bag: Experiences to date with Critical Appraisal Tools | **Helena Crosland**, Cambridge Environmental Assessments (CEA), United Kingdom

6.07.P-Th510 Are Current Regulatory log Kow cut-off Values fit-for-purpose as a Screening Tool for Bioaccumulation Potential in Aquatic Organisms? | **Sylvia Gimeno**, DSM-Firmenich, Belgium

6.07.P-Th511 Taking into account data quality and uncertainty to guide informed chemical substitution of PMT/vPvM substances | **Joanke van Dijk**, Empa – Swiss Federal Laboratories for Material Science and Technology, Switzerland

6.07.P-Th512 Revisiting Data Quality – Illustration with Fish BCF Data | **Dave Kuo**, National Taiwan University, Taiwan

6.07.P-Th513 Reporting Chemical Data in the Environmental Sciences | **Sivani Baskaran**, Norwegian Geotechnical Institute (NGI), Norway

6.07.P-Th514 Curated Mode-of-Action Data and Effect Concentrations for Chemicals Relevant for the Aquatic Environment | **Bente Nissen**, UFZ, Germany

6.07.P-Th515 Towards Safer Insect-Based Feed and Food: Evaluating Metal Uptake and Elimination in the Larvae of Black Soldier Fly | **Marija Prodana**, CESAM - Centre for Environmental and Marine Studies and Department of Biology, University of Aveiro, Portugal

6.07.P-Th516 Towards Safer Insect-Based Foods: Evaluating Benzo(a)pyrene Uptake and Elimination in Yellow Mealworms | **José Pinto**, University of Aveiro (UA), Portugal

6.07.P-Th517 Clarifying Regulatory Needs to Advance the Environmental Risk Assessment of Chemical Pesticides | **Johan Axelman**, Swedish Chemicals Agency, Sweden

6.07.P-Th518 Three Pesticide Indicators Based on Sales Data, Exposure, Ecotoxicity and Risk Mitigation Measures to Show Trends in the Risk Potential of Pesticides | **Laurent Boualit**, Agroscope, Switzerland

6.07.P-Th519 Synthetic pyrethroids and water quality | **Joost Lahr**, National Institute for Public Health and the Environment (RIVM), Netherlands

6.07.P-Th520 PCBs an Emerging Pollutant of Concern...? | **David Megson**, Manchester Metropolitan University, United Kingdom

6.07.P-Th521 Exploring Practice, Challenges, and Priorities for Human Health and Ecological Risk Assessments in Indigenous Communities in Canada: A Multi-sector Survey | **Katie Chong**, McGill University, Canada

6.07.P-Th522 Phase out of lead in hunting ammunition – a perspective from an EU Member State: Denmark | **Rafael Mateo**, Instituto de Investigación en Recursos Cinegéticos (IREC) CSIC-UCLM-JCCM, Spain

6.07.P-Th523 REACH registered Per- and Polyfluoroalkyl Substances (PFAS) in firefighting foams: Is ecotoxicological data sufficient to assess environmental risk? | **Anais Espinosa**, SOCOTEC ENVIRONNEMENT, France

6.07.P-Th524 Assessing Awareness and Compliance With Fish Consumption Advisories on the Upper Hudson River: Implications for Risk Management of the Hudson River Superfund Site | **Jeffrey Bolnick**, Middlebury College, United States

6.07.P-Th525 Developing UK-specific chemical emission futures within the global context | **Stephen Lofts**, UK Centre for Ecology & Hydrology (UKCEH), United Kingdom

6.07.P-Th526 A Meta-analysis of Sorption Capacity of Microplastics for Organic Pollutants | **Dave Kuo**, National Taiwan University, Taiwan

6.07.P-Th527 Health Risk Evaluation on Recycled Plastics: the Case Study of Dermal Exposure of Plasticizer from the Actual Recycled Plastic Products | **Naohide Shinohara**, National Institute of Advanced Industrial Science and Technology (AIST), Japan

6.07.P-Th528 Unveiling Hidden Threats: Non-Conventional Endpoints In Environmental Risk Assessment For Enhanced Contaminant Impact Understanding. | **Jacqueline Hilgendorf**, University of Aveiro, Portugal

6.07.P-Th529 Common Approach for Setting Environmental Self-Classifications for Metals and Metal Compounds | **Dagobert Heijerick**, ARCHE Consulting, Belgium

6.07.P-Th530 Beyond 'Surface Activity': Addressing Challenges of Standard Chronic Aquatic Toxicity Testing with Surfactants | **Erin Maloney**, Shell International, Netherlands

6.07.P-Th531 Evidence on the effects of Flame Retardant substances at ecologically relevant endpoints: A Systematic Map Protocol | **Lowenna Jones**, University of Sheffield, United Kingdom

6.07.P-Th532 Implications for Implementing the "Essential-use" Concept in Chemical Regulations | **Romain Figuière**, Stockholm University, Sweden

Nano and Advanced Materials Safety: Research Progress, Industrial Applications and Regulation | Marianne Matzke, Kai Benjamin Paul, Susana Loureiro, Nitin Kumar Khandelwal

6.08.P-Th533 Assessment of the Advanced Material Molybdenum Disulfide (MoS2) and Layered Double Hydroxides (LDHs) Nanosheets Effects in vitro Using Zebrafish Liver Cells | **Anastasia Georgantzopoulou**, Norwegian Institute for Water Research (NIVA), Norway

6.08.P-Th534 Development of a Human Hazard Strategy for Assessment of Nanoforms and Nano-Enabled Products in the SAbyNA Guidance Platform | **Ana Candalija**, Leitat Technological Center, Spain

6.08.P-Th535 20 years of European nanomaterial legislation – closing the final gaps | **Maria Bille Nielsen**, Technical University of Denmark (DTU), Denmark

6.08.P-Th536 Ecotoxicity assessment of "smart" coatings for marine corrosion protection | **Roberto Martins**, University of Aveiro, Portugal

6.08.P-Th537 Safe and Sustainable by Design (SSbD) strategies for advanced manufactured materials: a case study on perovskites for catalysis | **Veronica Di Battista**, Technical University of Denmark, BASF SE, Denmark, Germany

6.08.P-Th538 Multispecies ecotoxicity assessment for "safe-by-design" of metal nanoforms for paints – a case study of SAbyNA project | **Patricia Solorzano**, Leitat, Spain

6.08.P-Th539 Ecotoxicological Assessment of Graphene Containing Commercial Product in Aquatic Ecosystems: From Single Species Approaches to Aquatic Microcosms. | **Florian Chapeau**, University of Toulouse III - Paul Sabatier, France

6.08.P-Th540 Regulatory testing of fate (OECD 29, 318) and aquatic toxicity (OECD 201, 211) on selected ZnO nanoforms | **Karsten Schlich**, Fraunhofer IME - Institute for Molecular Biology and Applied Ecology, Germany

6.08.P-Th541 Ecotoxicity assessment of ENMs: harmonization of Daphnia standardized protocols. | **Fábio Chen**, CESAM - Centre for Environmental and Marine Studies and Department of Biology, University of Aveiro, Portugal

6.08.P-Th542 Developmental Effects of Cadmium Telluride Quantum Dot Nanoparticles in Zebrafish Embryo and Larva | **Raveesha KP**, Eurofins Advinus Agrosciences Services India Private Limited, India

6.08.P-Th543 Assessing Pre-guideline Literature Data on Bioaccumulation of CeO2 Nanoparticles in a REACH Context – Conclusions, Identified Issues, and Recommendations for Standardised Testing | **Nele Deleebeeck**, Arcadis, Belgium

6.08.P-Th544 Towards Improved Reliability in The Characterization of Metallic Nanoparticles in Environmental Samples | **Rosa Rodríguez Martín-Doimeadios**, Castilla La Mancha University (UCLM), Spain

6.08.P-Th545 Hydrodechlorination of Mine Water-specific Polychlorinated Biphenyls (PCBs) Using Palladium Nanocatalysts | **Katrin Wiltschka**, Justus Liebig University Giessen, Germany

6.08.P-Th546 Trimethyl chitosan magnetic nanosorbents efficiency and safety - Remediation of waters contaminated with glyphosate and aminomethylphosphonic acid | **Ângela Barreto**, Departament of Biology & CESAM, University of Aveiro, Portugal

6.08.P-Th547 Nanoherbicides and its impacts on weed management: an alternative for sustainable agriculture | **Gustavo Munhoz-Garcia**, University of São Paulo (USP), Brazil

6.08.P-Th548 Pesticide Nanoformulation Is a Solution for Agriculture? Fate, Efficacy, and Challenges of Metribuzin Herbicide as Case of Study | **Vanessa Takeshita**, University of São Paulo (USP), Brazil

6.08.P-Th549 Freshwater ecotoxicity and life cycle risks of nano-encapsulated imidacloprid compared to its conventional analog | **Fan Wu**, Jinan University, China

6.08.P-Th550 Assessment of Innovative Polyurethane Coatings: Anti-Corrosion Performance and Ecotoxicological Effects | **Roberto Martins**, University of Aveiro, Portugal

6.08.P-Th551 The dampening impact of the dual transformation of ENPs for their phytotoxicity | **Izabela Jośko**, University of Life Sciences in Lublin, Poland

6.08.P-Th552 Ecotoxicity Tests of TEMPO Oxidized Cellulose Nanofibers | **Hiroyuki Mano**, National Institute of Advanced Industrial Science and Technology (AIST), Japan

6.08.P-Th553 Mesocosm-based Studies for Assessing Impacts of Nano-enabled Pesticides on Freshwater Ecosystems: Results & Opportunities | **Tom Nederstigt**, Leiden University, Netherlands

6.08.P-Th554 Toxicity of Repeated Exposures to Electronic Cigarette and Heat-not-Burn Aerosols on Human Bronchial Epithelia: Combining Biological Assays and Microscopy Analysis | **Ursula Fiorela Navarro Abarca**, University of the Basque Country (UPV/EHU), Spain

6.08.P-Th555 Advanced Materials Earliest Assessment (AMEA) | **Wendel Wohlleben**, BASF SE, Germany

6.08.P-Th556 Cellular Responses of Eisenia fetida Coelomocytes Exposed to Wastewater Treatment Plant-Transformed Isotopically Enriched Nanomaterials | **Anastasia Georgantzopoulou**, Norwegian Institute for Water Research (NIVA), Norway

6.08.P-Th557 In Vitro to Organ Level Effect Extrapolation for Human Risk Assessment of Nanomaterials | **Jimeng Wu**, Empa - Swiss Federal Laboratories for Material Science and Technology, Switzerland

6.08.P-Th558 Safety Assessment of Hexagonal Boron Nitride at the Skin Level: an In Vitro Study on 3D Reconstructed Human Epidermis and HaCaT Keratinocytes | **Marco Pelin**, University of Trieste, Italy

6.08.P-Th559 Global RNA Sequencing of Escherichia coli from Exposure to Nanodiamonds and Carbon Nanotubes with Surface Coatings | **Joanne Vassallo**, Vitis Regulatory Ltd., United Kingdom

6.08.P-Th560 Beyond Conventional Measures: Embryotoxicity Evaluation of Innovative Nanostructured Corrosion Inhibitors | **Roberto Martins**, University of Aveiro, Portugal

6.08.P-Th562 Safer by design approach to support innovation: a practical case study with polymers | **Torres Anaelle**, Solvay - Biomattech- RIC-Lyon, France

6.08.P-Th563 Biological Effects of Microcapsules | **Yukiyo Okazaki**, Ehime University, Japan

6.08.P-Th564 Application of Adverse Outcome Pathway framework in assessing nanogold exposure to Daphnia magna | **Tarryn Botha**, University of Johannesburg, South Africa

6.08.P-Th565 Two-dimensional Hexagonal Boron Nitride (h-BN) and One-dimensional BN Nanotubes (ID-BNNTs): Structural Analogs to Graphene and Carbon Nanotubes with Distinct Effects | **Mona Connolly**, Institute for Agricultural and Food Research and Technology, Spanish National Research Council (INIA-CSIC), Spain

6.08.P-Th566 Comparing the Effects of 6PPD and a Mixture of Atmospheric Transformation Products on Immortalized Chicken and Double-Crested Cormorant Hepatic Cell Lines | **Tasnia Sharin**, Environment and Climate Change Canada, Canada

6.08.P-Th567 Instantaneous photocatalytic degradation of pesticides over coupled ZnO@CdS nanocomposite via greener approach | **Jyoti Yadav**, Malaviya National Institute of Technology Jaipur, India

6.08.P-Th568 Co(II) oxidation to Co(III) at magnetite surface under oxidizing conditions | **Laura Fablet**, Univ Rennes, CNRS, France

Climate Change and Chemical Contamination: From Combined Effect Studies to Environmental Risk Modelling | Chantal K.E. van Drimmelen, Jannicke Moe, Steffen H. Keiter, Andrew John

7.01.P-Th569 Combined Pesticide and Temperature Stress Marginally Affect Leaf Decomposition in an Outdoor Stream Mesocosm | **Verena Schreiner**, University of Kaiserslautern-Landau (RPTU), Germany

7.01.P-Th570 Robust adaptation to climate change in environmental risk assessments | **Andrew John**, University of Melbourne, Australia

7.01.P-Th571 Integrating Climate Model Projections into Environmental Risk Assessment: a Probabilistic Modeling Approach | **Jannicke Moe**, Norwegian Institute for Water Research (NIVA), Norway

7.01.P-Th572 Environmental Behavior of a Novel Anti-Corrosion Nanomaterial in a Global Change Scenario | **Roberto Martins**, University of Aveiro, Portugal

7.01.P-Th573 Assessing the dynamics of chemical pollution within urban environments: Toxicological implications for aquatic ecosystems in a changing climate | **Jonas Zetzsche**, Örebro University, Sweden

7.01.P-Th574 Impact of Global Warming on OECD Water-Sediment Test Systems | **Sabine Eser**, Eurofins Aquatics Ecotoxicology GmbH, Germany

7.01.P-Th575 Evaluating Combined Effects of Temperature and Chemical Exposure in Daphnia magna | **Sophie Steigerwald**, Stockholm University, Sweden

7.01.P-Th576 Impact of climate change on effects in Daphnia acute studies | **Valentina Selja**, Eurofins Aquatic Ecotoxicology GmbH, Germany

7.01.P-Th577 The Effect of Combined Environmental Stressors on Daphnia magna and Brachionus calyciflorus. | **Apurva Bhatkhande**, University of Antwerp, Belgium

7.01.P-Th578 How Pyrene and Salinity Affect the Thermal Tolerance Thresholds of Copepods | **Andrea Skari**, Department of Biosciences, University of Oslo, Norway

7.01.P-Th579 Influence of temperature and nutrient availability on the toxicity of the fungicide trifloxystrobin to the aquatic hyphomycete Articulospora tetracladia | **Lais Menezes da Silva**, RPTU Kaiserslautern-Landau, Germany

7.01.P-Th580 Mixture Toxicity of Two Pesticide Formulations on Aquatic Mesocosm Communities | **Jonas Nelles**, University of Bremen, Germany

7.01.P-Th581 Effects of the Herbicide Terbuthylazine on Freshwater Communities Under Different Global Climate Change Warming Scenarios | **Pierina I. Rivas-Comerlati**, Wageningen University & Research (WUR), Netherlands

7.01.P-Th582 Ecotoxicity Assessment of the Natural Dye Alizarin Using Aquatic Organisms | **Marina Botelho**, Universidade de Campinas, Brazil

7.01.P-Th583 Global change effect: when the inter-individual variability provides information about metabolic response in a sentinel species facing extreme events and multi-metallic contamination | **Fanny Louis**, Université de Lorraine, France

7.01.P-Th584 Using scenario predictions of climate, chemical, and physical stressors for probabilistic effect assessment of nearshore coral reefs | **Sophie Mentzel**, Norwegian Institute for Water Research (NIVA), Norway

7.01.P-Th585 Projections of Future Climates, the Problem of Interacting Stressors, Endpoints and Management Uncertainties, and the Estimation of Ecological Risk at Appropriate Management Scales | **Wayne Landis**, Western Washington University, USA

7.01.P-Th586 Taking account of climate change in FOCUS PECsw calculations | **Magnus Wang**, WSC Scientific GmbH, Germany

Presenter Index

A

B

Presenter Index

C

D

Presenter Index

E

F

G

H

I

J

K

Presenter Index

L

Presenter Index

M

Presenter Index

N

O

P

Presenter Index

Q

R

S

Presenter Index

Presenter Index

T

U

V

W

X

Y

Z

Meeting Policies

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.

Attendees of SETAC meetings are expected to adhere to all SETAC policies, including SETAC Participant Policies. Learn more at www.setac.org/policies.

Conduct

Participants in SETAC activities are expected to adhere to the highest standards of integrity and professionalism and comply with the SETAC Code of Conduct. Attendees are reminded to observe SETAC's principles and values and to maintain an atmosphere of civil and constructive scientific exchange.

Reporting Harassment or Other Violations

Individuals who become aware of potential breaches of SETAC policies and its practices are encouraged to report concerns so that SETAC can address and correct inappropriate conduct and actions through SETAC's Problem Resolution SOP. SETAC is committed to open communication and will endeavour to protect individuals reporting issues from any reprisals or victimisation consistent with the SETAC Whistleblower Policy.

SETAC reserves the right to remove an individual who does not adhere to the SETAC policies from the event without warning or refund, prohibit attendance at future SETAC meetings, workshops or other SETAC-sponsored events, and notify the individual's employer.

Presentation Recording and Photographing

SETAC embraces a set of values, which include transparency, integrity and civil dialogue. As part of our commitment to be an open and transparent society, we encourage meeting attendees to capture and share the research being presented as long as they do so in a respectful manner, honour the intellectual property of the presenter, and they provide appropriate attribution.

While the default assumption is to allow for open discussion of and access to scientific content of presentations at SETAC events, please respect a presenter's request to refrain from photographing or disseminating the contents of their talk or poster. Presenters may have various reasons for opting out, such as guarding intellectual property or not wanting preliminary data disseminated while they are seeking feedback from peers. Presenters are encouraged to use the no recording or copying icon on their slides or posters to discourage content copying.

Cell Phones

Out of courtesy to our speakers and attendees, we require that all cell phones be turned off during sessions and meetings.

Photo Release

Photographs will be taken during the SETAC Europe meeting. By registering for this meeting, you agree to allow SETAC to use your photo in any SETAC-related publication or website.

For conduct concerns, please contact:

concerns@setac.org

Bart Bosveld
+32 2 772 72 81 Ext. 206

Tamar Schlekat
+1 202 677 3001 Ext. 113

Notes

Notes

Notes

Notes

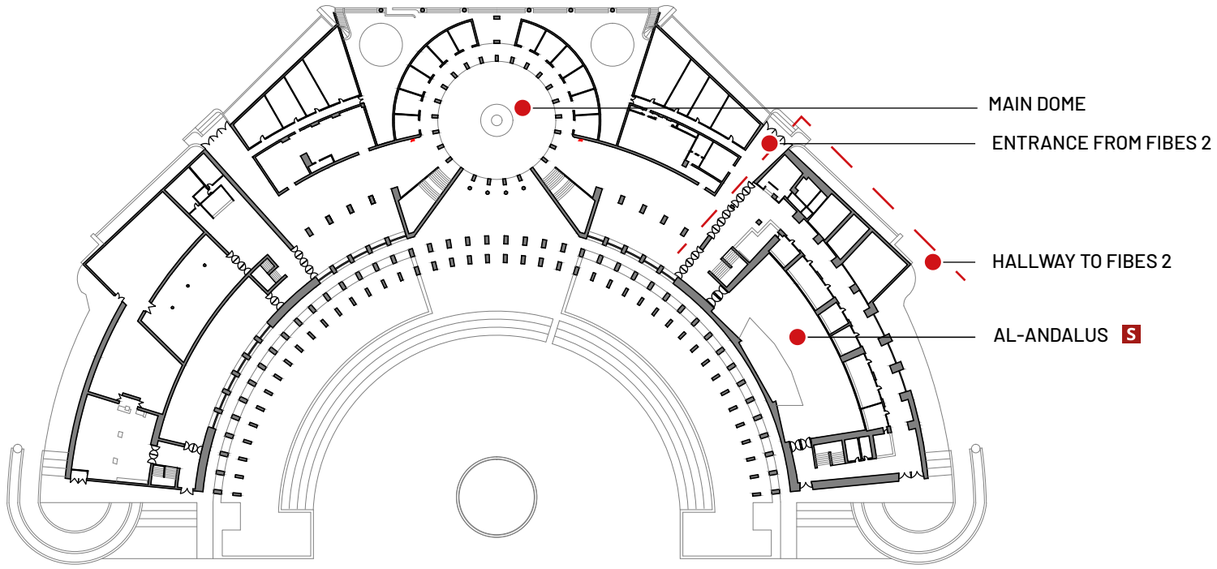
Notes

Notes

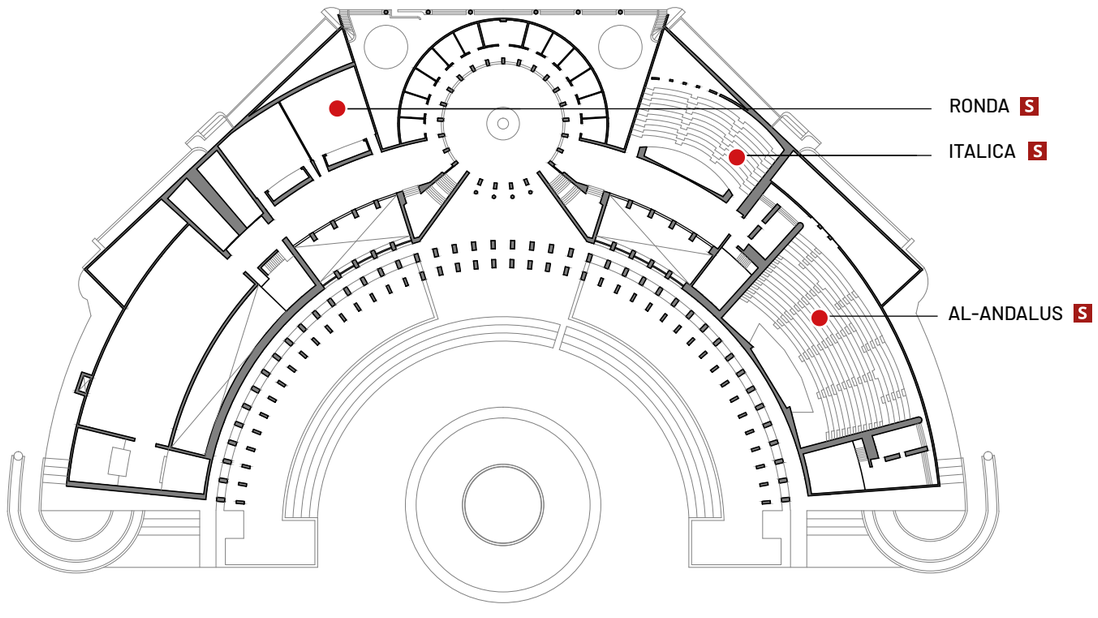
Notes

Floor Plan

Ground Floor (Fibes 1)

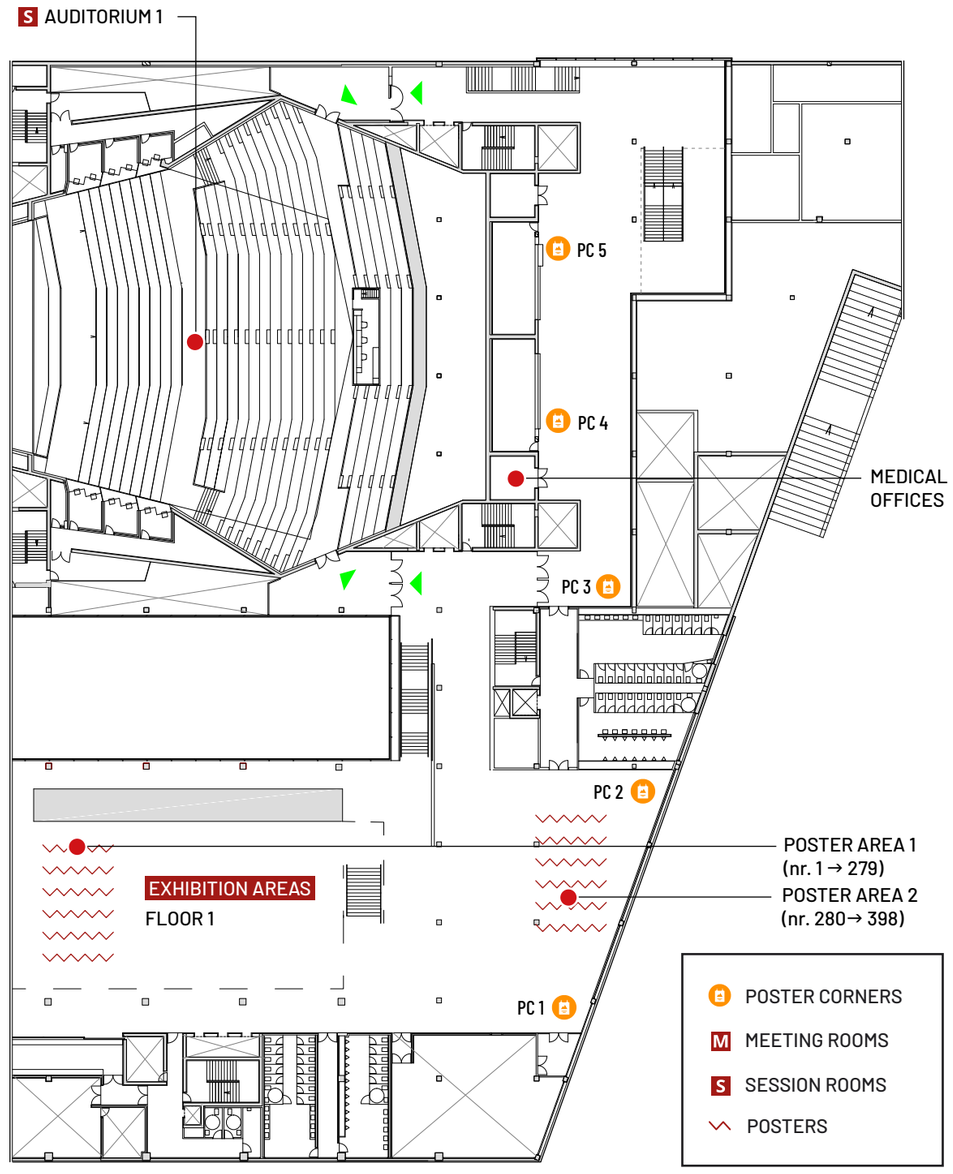


Floor 1 (Fibes 1)



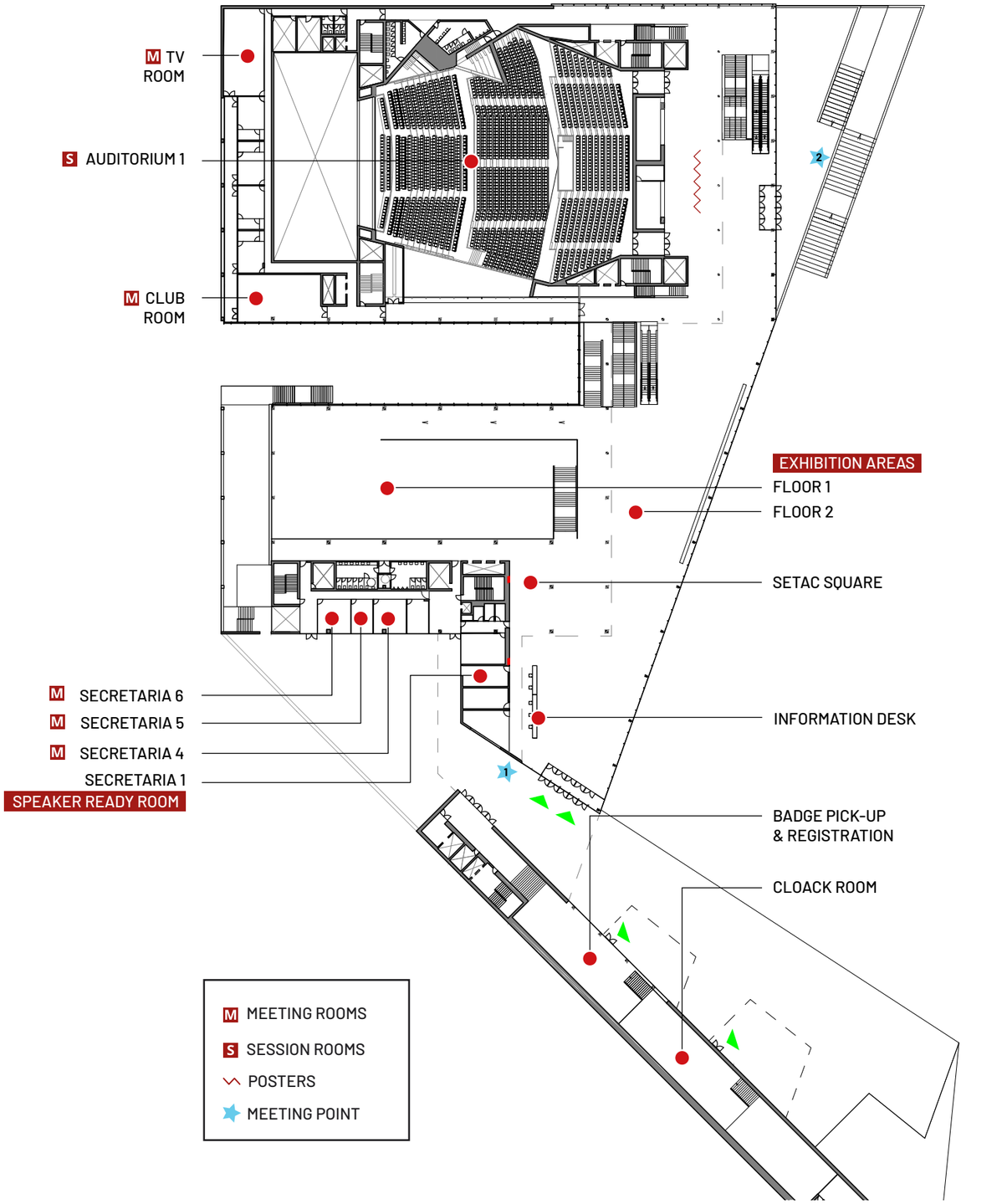
Floor Plan

Floor 1 (Fibes 2)



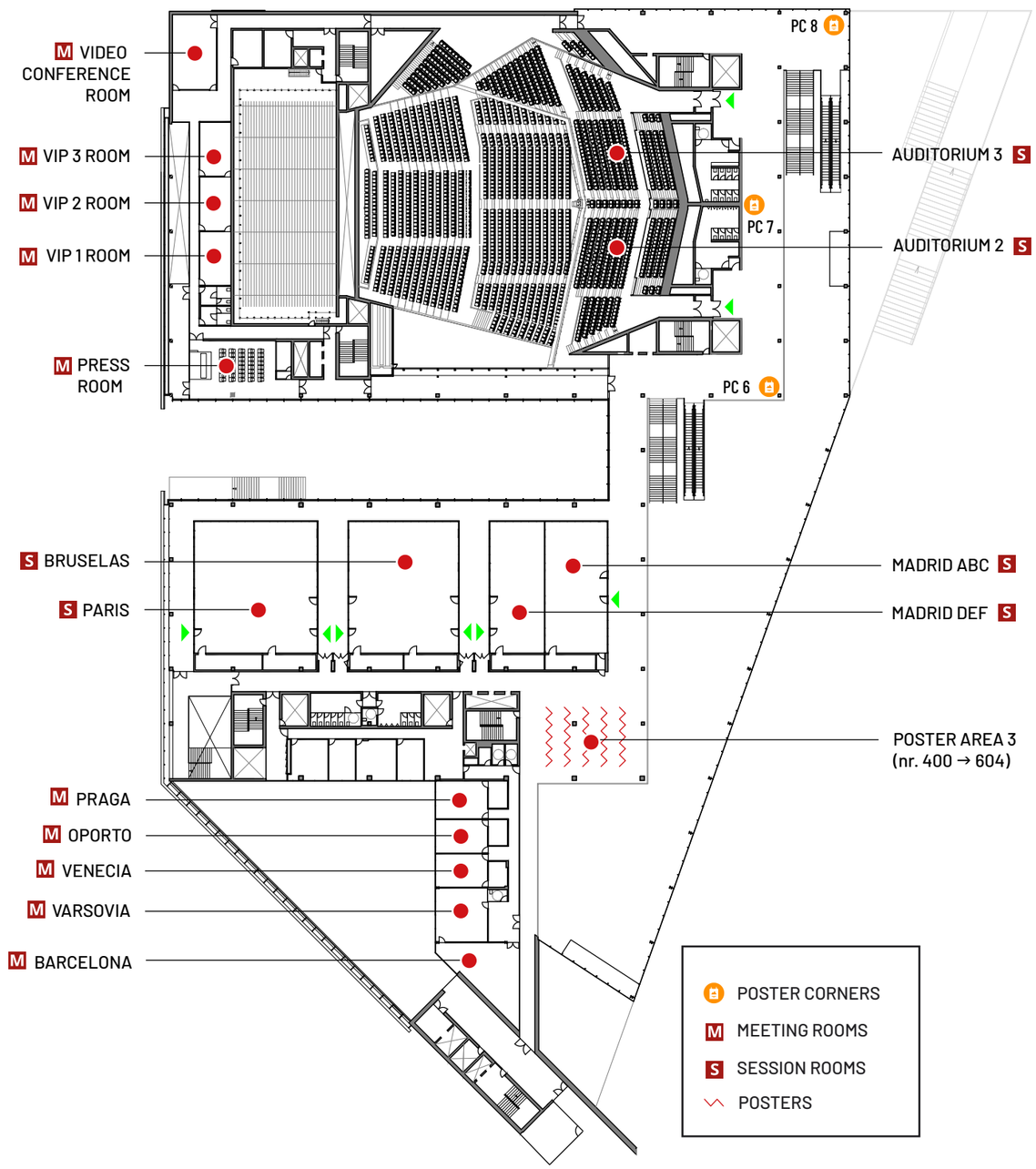
Floor Plan

Floor 2 (Fibes 2)



Floor Plan

Floor 3 (Fibes 2)



SOCIETY OF ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY

Avenue des Arts 53
1000 Brussels, Belgium
T +32 2 772 72 81
E setac@setac.org

712 H Street NE, Suite 1889,
Washington, DC 20002
T +1 202 677 3001
E setac@setac.org