SETAC Europe 28th Annual Meeting

13–17 May 2018 | Rome, Italy

PROGRAMME BOOK

Responsible and Innovative Research for Environmental Quality

Prince Sultan Bin Abdulaziz
International Prize for Water

Recognizing Innovation

Invitation for Nominations

9th Award (2020)

Nominations open online until 31 December 2019

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

WELCOME

It is our pleasure to welcome you to Rome, "caput mundi", the eternal city, where you can enjoy the emotion of living 2781 years of history. Rome is the city of squares, fountains, churches and romantic ancient bridges on the River Tiber. It is the city where you can find ruins going back to its foundation by Romulus. But in Rome, just sixty years ago, the foundations were also laid for the Europe that we know today, ushering in the longest period of peace in written history in Europe. The Treaties of Rome have established a common market where people, goods, services and capital can move freely, and created the conditions for the prosperity and stability of European citizens.

We have done our best to make this an unforgettable meeting as regards both its scientific and social programmes. The scientific programme features about 2,546 presentations over 88 sessions, with 572 platform presentations and 1,974 poster presentations including special sessions with invited talks. In order to accommodate the exceptional need for oral presentations, the Scientific Committee increased the number of platforms from 5 to 6 in each session time block, making possible a higher number of oral presenters than at other SETAC Europe annual meetings.

Overall, the sessions will embrace the "Responsible and Innovative Research for Environmental Quality" theme of the Rome meeting. Responsible research and innovation is an interactive and transparent process with which scientists and social actors work together on ethical and sustainability aspects in order to ensure a correct implementation of scientific progress in our society. The safeguarding of the environment is an ethical duty for every citizen, and in particular for environmental scientists. In our society, the latter have a huge responsibility to develop, communicate and implement knowledge, methods and tools regarding the management of the toxicological and ecotoxicological effects of chemicals, in order to reduce their risks and regulate their use.

Rome is in the Mediterranean, where some environmental topics are of particular concern and require attention. For example, the Mediterranean Sea is one of the areas most affected by marine litter in the world and for this reason a special session will deal with the harmful effects of plastic litter and the mitigation strategies to be used. In addition, 2018 is the European Year of Cultural Heritage in the context of which the contribution of chemistry and material science to knowledge, monitoring and conservation from pollution and aggressive environmental conditions is highly important. A special session will give an overview of the main problems and innovative research into the safeguarding and conservation of cultural heritage.

A special session will be dedicated to giving a clear picture of the general context of Sustainable Development Goals with high-level speakers from the United Nations, EU Commission, research planners and enterprises, with the goal of helping each participant to better understand how their personal work can contribute to overarching sustainable development goals. Other sessions will address some of these goals, e.g. one of emerging pollutants and mixture risk evaluation in European freshwater, and the other one on environmental specimen banks in research and regulation for a better environmental quality. Moreover, a special session will be dedicated to showing how, through good science, constructive discussion and open communication, scientific and regulatory progress, shared by all stakeholders, can promote environmental sustainability. Finally, impressive keynote speakers will highlight different aspects of the meeting theme.

The venue of the Annual Meeting is the "Nuvola", the new Rome Convention Centre designed by the Architect Fuksas. It is a work of extraordinary artistic value, which represents a cloud suspended in the sky, consisting of a huge white sheet made of glass fibre inside a steel and glass theca.

The organisation of the meeting would not have been possible without the precious support of the Brussels office, an enthusiastic and professional team, the Scientific and Local Organising Committees, both composed of devoted volunteers, the 12 sponsors and 56 exhibitors, and the Tourism Department of Rome municipality.

On behalf of the Scientific and Local Organising Committees, we warmly welcome you to the SETAC Europe 28th Annual Meeting.

Anna Barra Caracciolo
Chair

Paola Grenni
Co-chair

Paolo Masoni
Co-chair

José Julio Ortega-Calvo
Co-chair

ROME 2018

WIFI
Network: SETAC
Login: setac2018

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WELCOME FROM SETAC EUROPE

Welcome to Rome!

Rome, this is 28 centuries of history welcoming our 28th Europe Annual Meeting: It had to be this year...

It is an honour to be hosted by Rome, La Citta Eterna, this year. Twenty-eight centuries of history indeed, a university life since the early 14th century with Sapienza, the proud home to hundreds of thousands of students. We had to get it right, and our meeting chair Anna Barra Caracciolo and co-chairs Paolo Masoni, José Julio Ortega-Calvo and Paola Grenni together with the Local Organising and Scientific Committees, and the SETAC staff worked their hardest to deliver an outstanding scientific and social programme.

First, this year's theme: "Responsible and Innovative Research for Environmental Quality" is ambitious and embraces the most fundamental scientific findings and applied research while meeting 21st century goals of responsibility and sustainability in innovation. The theme is reflected into 7 scientific tracks, which attracted no less than 120 session proposals and 2,546 abstracts at closure of submission. This shows more than ever the dynamism of environmental research and the willingness to give science a meaning. All in relation to environmental protection approaches, policies and innovative developments.

Beside the sessions, this year's programme offers eight training courses organised by volunteers. Four of these training courses now count toward the Certification of Environmental Risk Assessors (CRA) programme and will provide credits to our CRA participants. This achievement has been possible thanks to the continuous efforts of the Certification Programme Committee, who has identified the best education programmes and facilitated its accessibility to trainees. This meeting will also host, for the first time, the CRA multiple-choice examination. The exam serves as proof that the trainee has acquired the knowledge and competences on the nine CRA topics, and is ready for the final oral CRA exam required to become a certified environmental risk assessor. You will have a chance to meet our committed and motivated trainees and the CRA committee members over the week and learn more about our esteemed certification programme.

This year's meeting programme also offers Interest Group (IG)-sponsored events: The SETAC Europe Interest Group Symposium on Science and Risk Communication (SCIRIC) and the Pharmaceuticals IG Symposium. These events are organised on Sunday and aim at opening the forum for debate and exchange on research themes that are at the crossroads with regulatory needs, but also with the flow of information feeding back to larger audience, to facilitate their understanding, and their acceptation of science. Now more than ever, SETAC Europe is on a mission to promote and facilitate collaboration, communication and education, and will continue to offer new opportunities to meet, debate, initiate partnerships and learn. The annual meeting programme is rich with opportunities to join these groups and forums, which are open and waiting for you!

As always annual meetings are a team effort and we warmly thank the Local Organising Committee, the Scientific Committee and, the SETAC Europe team: Barbara Koelman, Delphine Delire, Filip Gunst, Roel Evens, Rebecca Bundschuh and Veerle Vandeveire who did their magic for this meeting to simply happen (they do deserve your smiles as you meet them in Rome or in Brussels); our students, who will be welcoming you and helping you for a smooth meeting; and the SETAC Europe and Global Partners and Affiliates, the meeting sponsors and the exhibitors at the meeting. Extended thanks to each of you! We hope that this meeting matches your expectations and make you feel part of the SETAC community. Bart and I can't wait to meet you all. Have a great week!

Anne Alix
SETAC Europe President

Bart Bosveld
SETAC Europe Executive Director

WELCOME FROM SETAC GLOBAL

Dear SETAC members and guests,

Benvenuti a voi tutti!

Thank you for participating in an extremely timely annual meeting in Rome for SETAC Europe. The theme – Responsible and Innovative Research for Environmental Quality– speaks to our recognition of the importance of integrity, reliability, and credibility in science. This is one of SETAC's highest priorities and one we aspire to attain by following our tripartite – academia, government, and business – approach to all SETAC governance, workshops, and meeting programming. We commend the programme committee for the SETAC Rome meeting for what promises to be an exciting and stimulating platform for discourse on important research and environmental issues. The sessions reflect the integrative nature of SETAC science as for example, "Ecotoxicology and Human Toxicology: From Molecules to Organisms From Omics to In Vivo" as well as the impact SETAC Science can have across broader society through sessions like "Indigeneity and Science: A Collaborative Work in Progress" and "Thinking Green and Circularly About Microparticles, Nanomaterials and Composite Materials: Approaches For Recovery, Recycling and Reuse".

SETAC is a unique scientific society in that we are global with more than 5,200 members in all parts of the world. Rome will be attracting many of these members and other individuals aligned with SETAC. We encourage you to reach out to colleagues to share your insights and to engage in exchanges of knowledge. The diversity of programmes and events offered at the Rome meeting contributes greatly to SETAC's priorities of advancing and communicating science, developing the next generation of scientists and environmental engineers, and supporting these individuals throughout their careers. Along those lines, your engagement is also encouraged with respect to SETAC's mentorship programme. Whether you are a student, young scientist, or long-term SETAC member, you should take advantage of this programme as either a mentee or mentor. A meeting will kick this off the mentorship activities on Sunday at 5 p.m. and the student mentor lunch will occur on Monday. If you are new to SETAC, you should take advantage of one or more side meetings involving interest groups or committees. Your engagement in one or more of these will deepen your experience with the sciences, provide connection with other scientists working in your particular area of interest, and with the SETAC community more broadly.

We congratulate the SETAC Europe Council and staff and the numerous SETAC volunteers for putting together an inspirational and fun meeting. We will be joining you in Rome. Please reach out and introduce yourself so we can chat a little while. We wish you the best and trust you will have a terrific experience at the SETAC Europe Rome meeting.

Sincerely,

Ross Smith
SETAC President

Charles Menzie
SETAC Global Executive Director

SETAC Europe Staff

Bart Bosveld, *Executive Director*
Barbara Koelman, *Office & Meeting Manager*
Delphine Delire, *Communications Manager*
Filip Gunst, *Financial Administration*
Rebecca Bundschuh, *Education Project Manager*
Roel Evens, *Scientific Project Manager*
Veerle Vandeveire, *Finances & Registration Manager*

And a "special thank you" to our SETAC North America colleagues for their constant support:

Dusty Kennedy, Greg Schiefer, Jason Andersen, Jen Lynch, Laura Swanson, Linda Fenner, Nikki Mayo, Sabine Barrett, Tamar Schlekat, Terresa Murdoch

THANK YOU

To our meeting supporters for their generous contributions!

Platinum

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Programme Committee

Chairs

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Paola Grenni, *CNR-IRSA, Italy*
Paolo Masoni, *Ecoinnovazione srl, Italy*
José Julio Ortega-Calvo, *Spanish National Research Council, Spain*

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Thomas-Benjamin Seiler, *RWTH Aachen University, Germany*

ABOUT SETAC AND SETAC EUROPE

SETAC is a not-for-profit, worldwide professional organisation comprised of more than 5,200 individuals and institutions in 100 countries dedicated to the study, analysis and solution of environmental problems, the management and regulation of natural resources, research and development, and environmental education.

Our mission is to support the development of principles and practices for protection, enhancement and management of sustainable environmental quality and ecosystem integrity.

SETAC Europe is one of five Geographic Units (GU) of the global Society, established to promote and further the mission of SETAC in Europe, the Middle East and Russia.

SETAC Europe is incorporated in Belgium as a not-for-profit organisation. The Society is administered to its articles of association and by-laws.

For more information, visit www.setac.org

SETAC Europe is governed by a Council, elected by the general membership at the Annual General Assembly (AGA) which convenes every year during the SETAC Europe Annual Meeting.

If you are a SETAC member from Europe, you are strongly encouraged to attend the assembly which will be held from

12:25 p.m.–1:55 p.m. on Wednesday, 16 May in the Workshop Room.

SETAC Europe Committees

The affairs of SETAC Europe are partly managed by Committees composed of volunteers.

If you are interested to contribute to the activities of SETAC Europe and willing to volunteer in one of its below committees, have a look at the open vacancies at www.setac.org (go to "Get Involved").

- Awards
- Certification Programme Committee
- Development
- Education
- Finance
- Long-Range Planning
- Membership and Public Relations
- Nominations
- Regional Branches
- Science
- Student Advisory Council (SAC)

JOIN SETAC TODAY!

SETAC's impressive scientific programme has formidable global reach and attracts members from approximately 100 countries. The five geographic units in Africa, Asia-Pacific, Europe, Latin America and North America, together with regional branches and chapters, offer cutting edge scientific programming anchored by well-attended meetings.

Not a SETAC member yet? Don't wait any longer!

SETAC membership helps you succeed with:

- Online access to every issue of SETAC's highly cited, peer-reviewed journals, *Environmental Toxicology and Chemistry* (ET&C) and *Integrated Environmental Assessment and Management* (IEAM)
- Discounts for SETAC meetings worldwide, such as annual meetings, Special Science Symposia, Focused Topic Meetings, LCA symposia and more
- Global networking opportunities with access to the online membership portal, mentorship programmes and more
- SETAC News messages to members & online subscription to the SETAC Globe, a monthly newsletter bringing international research, workshop & meeting recaps, collaborative opportunities & policy changes straight to your inbox
- Free access to the SETAC Career Center for job seekers and employers
- An ever-growing education programme with training courses and certification programme
- Outreach opportunities through SETAC Interest Groups, service projects and volunteer positions
- Reduced prices on the Society's publications, including books, webinars and online courses

For Student Members

Join this energetic group and take advantage of mentoring, career and leadership opportunities, networking and learning events geared towards students, and more. Support in the form of travel, presentation and publication awards are available.

JOIN

Go to www.setac.org

SETAC Europe Mentorship Programme

Are you looking for some help to find your way at the meeting? Want to be introduced to new colleagues? Or just want to chat with someone during lunchtime? The SETAC Europe Mentorship Programme makes a match between a newbie (mentee) and a mentor. The match has been made on the basis of your professional interest area and other preferences.

We gather in a relaxed atmosphere on Sunday, 13 May at 5:00 p.m. in Meeting Room 11.

GET CONNECTED WITH SETAC INTEREST GROUPS!

Interest Groups (IGs) are recognised internally within SETAC as well as outside the Society as the incubators of specific technical subject matters. They nurture and grow a technical subject matter by being a repository of expertise in the specified area, and provide opportunities to collaborate on specific topics such as scientific sessions, workshops and Technical Issue Papers. IGs also develop leadership skills and provide mentorship to early career members interested in learning more about the subject. Hence, irrespective of your background and stage of career, IGs are a great platform to develop your skills and to expand your network in a very exciting research field.

More info at www.setac.org > Get Involved > Interest Groups

or contact Roel Evens, SETAC Europe Scientific Project Manager at roel.evens@setac.org or Tamar Schlekat, SETAC Scientific Affairs Manager at tamar.schlekat@setac.org.

IG

Several Interest Groups will meet and/or present posters in the coming days. Feel free to join and share your ideas!

Interest Group	Open Meeting	Location	Poster
Animal Alternatives in Environmental Science	Tuesday, 4:00 p.m.–6:00 p.m.	Meeting Room 7	MO197
Bioaccumulation Science	Monday, 5:00 p.m.–6:00 p.m.	Session Room O	TH045
Dung Organism Toxicity Testing	Monday, 5:30 p.m.–7:00 p.m.	Meeting Room 1	MO386
Ecosystem Services	Tuesday, 12:00 p.m.–1:30 p.m.	Meeting Room 1 (jointly with Sustainability IG)	TU386
Effect Modelling	Tuesday 4:00 p.m.–5:00 p.m.	Session Room M	TU213
Endocrine Disruptor Testing and Risk Assessment	Tuesday, 4:30 p.m.–6:00 p.m.	Meeting Room 8	TH079
Exposure Modelling	Wednesday, 4:00 p.m.–5:00 p.m.	Meeting Room 10	-
Freshwater Salinisation	Tuesday, 12:25 p.m.–1:55 p.m.	Meeting Room 7	-
Human Health Risk Assessment	-	-	TU419
Indigenous Knowledge and Values	Thursday, 11:00 a.m.–12:00 p.m.	Meeting Room 7	-
Life-Cycle Assessment – Europe	IG steering committee meeting, Tuesday, 5:30 p.m.–6:30 p.m.	Meeting Room 6	WE237
Metals	Monday, 5:30 p.m.–7:00 p.m.	Session Room M	-
Nanotechnology	Monday, 5:30 p.m.–7:00 p.m.	Meeting Room 6	MO425
OMICs	Wednesday, 4:00 p.m.–6:00 p.m.	Meeting Room 6	WE294
Pharmaceuticals	• Symposium, Sunday 1:00 p.m.–5:30 p.m. • IG steering committee meeting, Tuesday 5:00 p.m.–6:30 p.m.	Session Room O Session Room O	WE025
Plants	Wednesday, 4:00 p.m.–5:30 p.m.	Meeting Room 9	WE177
Science and Risk Communication (SCIRIC)	• Symposium, Sunday 12:50 p.m.–5:30 p.m. • IG annual meeting, Monday 9:00 a.m.–10:00 a.m.	Meeting Room 10 Meeting Room 1	WEPC16
Sediment	Tuesday, 8:00 a.m.–9:00 a.m.	Meeting Room 7	WE197
Soils	Tuesday, 5:30 p.m.–7:00 p.m.	Session Room N	TH157
Sustainability	Tuesday, 12:00 p.m.–1:30 p.m.	Meeting Room 1 (jointly with Ecosystem services IG)	WE236
Wildlife Toxicology	Wednesday, 6:00 p.m.–7:00 p.m.	Session Room O	MO089

SETAC EUROPE PARTNERS

SETAC Europe Partners are non-profit and for-profit organisations, institutions, government agencies, or associations concerned with the affairs and purpose of the Society and who wish to foster the Society´s purposes.

SETAC EUROPE AWARD WINNERS

Noack Laboratorien Environmental Education Award

Marco Vighi

IMDEA Water Institute, Spain

The Noack Laboratorien Environmental Education Award honours an outstanding record of interdisciplinary activities in the dissemination of knowledge on environmental sciences.

EDANA Lifetime Achievement Award for LCA

Michael Hauschild

Technical University of Denmark, Denmark

Awared biannually, the SETAC Europe EDANA Award for Lifetime Achievement in Life Cycle Assessment recognises outstanding contributions in promoting life cycle thinking and improving LCA approaches.

Rifcon Best Publication Award

Mélanie Douziech

Radboud University Nijmegen, Netherlands

and I. Conesa, A. Benítez-López, A. Franco, M. Huijbregts and R. van Zelm

Quantifying variability in removal efficiencies of chemicals in activated sludge wastewater treatment plants – A meta-analytical approach

Environmental Science: Processes & Impacts, Volume 20

LCA Young Scientist Award

Photo: Ulrika Ernström, Chalmers

Rickard Arvidsson

Chalmers University of Technology, Sweden

LCA for assessing emerging technologies – Prospective LCA

The SETAC Europe Young Scientist LCA Award recognises exceptional achievements by a young scientist in the field of Life Cycle Assessment.

Sponsored by LENZING AG and Springer Nature

Young Scientist Awards 2017

Honouring a young scientist for the best platform and best poster presentation at the SETAC Europe 27th Annual Meeting in Brussels, Belgium.

ECETOC Best Platform

Richard Cross

College of Life and Environmental Sciences, UK

has been granted for his platform presentation "Routes of uptake and bioaccumulation of cerium oxide and silver nanoparticles depend on their fate in sediments".

SETAC Europe Best Poster

Amandine Laffite

University of Geneva, Switzerland

received the award for her poster on "Hospital effluents, not an exclusive source of emerging contaminant spread in sub-saharian urban rivers".

Grants for SETAC Members

Jointly sponsored by SETAC Europe and Syngenta, we awarded 33 registration grants, 21 travel grants, and 18 training course grants and supported 38 students to come to the SETAC Europe 28th Annual Meeting.

THANK YOU!

To our award and grant sponsors!

ecetoc · edana · Lenzing Innovative by nature · NOACK LABORATORIEN · RIFCON · SPRINGER NATURE · syngenta

SETAC GLOBAL PARTNERS AND AFFILIATES

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

SETAC GLOBAL AWARD WINNERS

Founders Award

Harold Bergman

University of Wyoming, USA

The prestigious Founders Award is the highest honour SETAC can bestow. It is given annually to an individual whose outstanding career and significant contributions to environmental science reflect the goals of SETAC.

Capacity-Building Award

Keith Solomon

University of Guelph, Canada

The Global Partners Capacity-Building Award recognises individuals or groups for their contribution toward building capacity in the environmental sciences within countries with developing economies.

Herb Ward Exceptional Service Award

Diane Nacci

Environmental Protection Agency, USA

Renamed in 1999 to honour ET&C´s founding Editor-in-Chief C. Herb Ward for his important contributions to the founding and development of SETAC, this award recognises a SETAC member who has performed long-term exceptionally high-quality service to the Society.

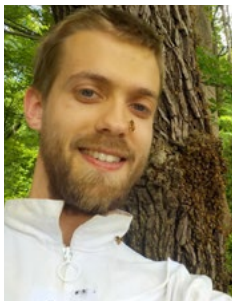
SETAC / ICA Chris Lee Award

Maikel Rosabal

Université du Québec à Montréal, Canada

Jointly sponsored by SETAC and the International Copper Association, this award provides up to $5,000 to a graduate student or recent graduate whose ongoing research focuses on fate and effects of metals in the environment.

ET&C Best Paper Award



Douglas Sponsler

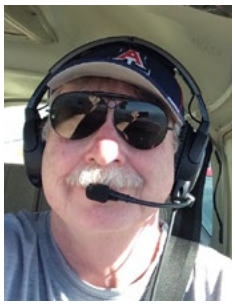
Penn State University, USA

and R Johnson

Mechanistic modeling of pesticide exposure: The missing keystone of honey bee toxicology

Volume 36:4, 2017

IEAM Best Paper Award



Wayne Landis

Western Washington University, USA

A Markiewicz, K Ayre, A Johns, M Harris, J Stinson, and H Summers

A general risk-based adaptive management scheme incorporating the Bayesian network relative risk model with the South River, Virginia as case study.

Volume 13:1, 2017

SETAC / Procter & Gamble Fellowship

Julie Kryzkwa

Texas Christian University, USA

This $15,000, 1-year grant, sponsored by Procter & Gamble, is bestowed annually and rotates among the five SETAC geographic units. The Fellowship recognises a student enrolled in a doctoral programme at a North American university.

Congratulations to all award winners!

ABOUT ROME

We welcome you to Rome, capital of Italy with 3 million inhabitants. Rome "caput mundi", the eternal city where you can enjoy the emotion of living 2781 years of history.

Rome is the city of squares, fountains, churches and romantic ancient bridges on the River Tiber. It is the city where you can find ruins going back to its foundation (764 B.C.) by Romulus. The Rome that Julius Caesar ruled, where ancient gladiators fought, where the Roman temples and columns got transformed into churches. There is also the Rome from the Renaissance to the Barocco where the most important artists of that time came to renew the city creatively.

Visit the Colosseum and "Saint Peter´s Basilica", which represent the city as the capital of the Roman Empire and Christianity, and "Vittoriano" or "Altare della Patria", respectively, symbolising Rome as the capital of Italy. Enjoy a multitude of Roman archaeological sites where you can see Roman houses (domus and insula), palaces, fora (Augusto, Cesare, Traiano, Minerva, etc.) and baths (Diocleziano, Caracalla).

Picutres: Andrea Cenni

Rome boasts 2,000 fountains, 11 Roman aqueducts, 13 Egyptian obelisks, one pyramid, 900 churches, 20 bridges and 12 Villas with landscaped parks. You can find several unique archaeological sites inside and outside (e.g. Villa Adriana, Ostia Antica, Villa dei Quntili, the Catacombs) the city which can be reached by walking or riding along an imperial road like the Via Appia. You can choose from among the tens of Rome museums and the many churches or squares where you can find masterpieces from some of the artists most famous worldwide like Raphael, Michelangelo, Leonardo da Vinci, Caravaggio, Bernini, Borromini, Canova and many others.

Enjoy wonderful sunsets from one of the hills of Rome (Pincio, Aventine, Ganiculum), sunny squares and cobblestone streets, nightlife, delicious wine and local food with cheese, Roman pasta and pizza specialities. Rome is a bustling, vibrant metropolis that effortlessly pairs history with contemporary style.

Catering: Focus on Food Allergies and Sustainable Efforts

SETAC Rome is contributing to a responsible meeting with a priority on environmental quality.

Lunches and coffee breaks will be served with plastic-free tableware. The meeting will also offer a variety of food satisfying different needs: A special gluten-free corner, lactose-free food and vegetarian food. Their respective labels will be added in the menus.

In order to reduce food waste, the surplus of the catering will be donated to local charity organisations.

Special trash bins will be allocated for different types of waste.

Icon: Vectortwins - Freepik.com

PRACTICAL INFORMATION

Badges

The badges must be worn to gain entrance to all sessions, meetings, and the exhibition during the conference. For the replacement of a lost badge a charge of 5€ applies.

Cloakroom

The cloakroom is free of charge and located in the registration area. SETAC is not responsible for any loss.

Opening Hours

Sunday	7:30 a.m.–9:30 p.m.
Thursday	7:30 a.m.–3:00 p.m.

Drinking Water

Water will be provided in coolers.

Emergencies / First Aid

If you have a medical problem you can come to the registration desk. The general emergency number is: 112.

Evaluation

After the conference we will invite you to a survey via email. We are very interested in your feedback and will use it to make future conferences even better.

Food Allergies

Food that is served will be labelled by the catering company. There will be special buffets for people with allergies.

Letters of Participation

Letters of participation will be provided to those who are registered for the meeting and will be sent to you after the meeting via email. If you are a presenter, you will receive a confirmation as well.

Lost and Found

Please come to the registration desk for inquiries concerning lost and found items.

Public Transportation

It is very easy to travel trough the city by public transport. The nearest metro station next to the conference centre is EUR Fermi – La Nuvola, Roma Convention Center (metro line B – direction Laurentina).

Registration Desk

The registration desk is located right after the entrance. Our staff as well as the volunteers are happy to help if you have any queries.

Opening Hours

Sunday	7:30 a.m.–8:00 p.m.
Monday – Wednesday	7:30 a.m.–6:30 p.m.
Thursday	7:30 a.m.–2:00 p.m.

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 registration desk.

Taxi Service

Taxis (white vehicles) are easy to find. If the light is green, they are free. Useful taxi numbers: +39 06-5551 (Samarcanda Line), +39 06-3570 (Soc. Coop Line), +39 06-6645 (Pronto Taxi Line), +39 06-4994 (La Capitale Line), +39 06 6645 (Prontotaxi).

Please keep in mind, during rush hours the public transportation is usually faster.

Tourist Information

An agent from the tourist office is available in the registration area to answer your questions about Rome.

Sunday 4:00 p.m.–7:00 p.m.

Monday – Thursday 9:00 a.m.–6:00 p.m.

Venue Contact

Rome Convention Centre La Nuvola

Viale Asia – 00144 Rome

www.romaconventiongroup.it

Our Meeting App

Available now in the Google Play, and in the iTunes app stores.

Take advantage of the app's many features including:

- View all session information including full abstracts
- Comment on sessions and presentations and add your personal notes
- Engage with other delegates through the interactive forum
- Stay tuned with the latest meeting news
- Sync with online itinerary planner and add items to the calendar on your device
- Share an abstract through social media or a colleague
- View the satellite meetings and the social activities
- Know more about our sponsors and exhibitors

ANDROID APP ON Google play DOWNLOAD

Available on the App Store DOWNLOAD

PRACTICAL INFORMATION

Information for Oral Presenters

Talks are scheduled in 15-minutes time slots (including discussion). Please keep your presentation limited to 12 minutes maximum, to allow ample time for questions from the audience. The schedule will be strictly enforced to facilitate movement between sessions.

We advise you to:

- Locate your session room in time.
- Have your presentation uploaded in advance.
- Bring your presentation on a memory stick, as a backup.
- Be in the session room no later than 20 minutes prior to the session and introduce yourself to the session chair(s).
- Stay on schedule!

Presentation Upload and Review

If you are a platform or poster spotlight presenter, you can upload your PowerPoint or Pdf presentation online via https://meetings.setac.org, or onsite at the presentation upload and review desk in the registration area. Our staff and volunteers will be happy to help you out.

Be sure to upload your presentation by 4:00 p.m. the day before your session is scheduled.

New for 2018

Poster presenters can upload a PDF of their poster and allow meeting attendees to view the poster during and up to 6 months after the meeting. Have a look at

https://meetings.setac.org > SETAC Europe 28th Annual Meeting > Upload Poster Image File

Abstract Book

Download your copy of the SETAC Rome abstract book at

rome.setac.org

Information for Poster Presenters

Poster Display

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. Posters will be displayed in the exhibition hall. See page 106 for a map of poster boards.

Poster Setup and Take Down

Presenters are responsible for setup and take down. Posters for the respective day can be put up from 7:30 a.m. to 8:30 a.m. They should be removed by 6:45 p.m. (Mo, Tues, Wed) and 3:15 p.m. Thursday at the very latest or they will be discarded. Please remove any remaining tape and keep the board clean for the next presenter.

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 in order to ensure maximum exposure for their research.

Poster Corner Presentations

The Poster Corners are located in the exhibition hall and scheduled during the poster social (5:15 p.m.–6:15 p.m.). During the poster session, a group discussion will be organised with an introduction by the session chair in front of the posters. After this introduction, the posters will be discussed among the authors and the audience in the Poster Corner.

Poster Spotlight Presentations

The Poster Spotlights will take place at the end of a platform session and consist of a 4-minutes platform presentation, highlighting the major findings of the work.

If you have a Poster Spotlight Presentation (maximum 3 slides), have your presentation uploaded in advance (see Presentation Upload). As a backup, bring your presentation on a memory stick to the session room. Please stay on schedule and respect the 4-minutes presentation time.

Late Poster Presentations

Late breaking science poster abstracts (Session 'Extended Submission') are not mentioned in the hard copy programme. Please check the online programme.

Poster Viewing and Attendance

	Monday – Wednesday	Thursday
Setup	7:30 a.m.–8:30 a.m.	7:30 a.m.–8:30 a.m.
Morning Coffee Break & Poster Viewing	10:05 a.m.–10:50 a.m.	10:05 a.m.–10:50 a.m.
Lunch Break & Poster Viewing	12:25 p.m.–1:55 p.m.	12:25 p.m.–1:55 p.m.
Afternoon Coffee Break & Poster Viewing	3:30 p.m.–4:15 p.m.	
Poster Social & Poster Viewing	5:15 p.m.–6:15 p.m.	
Take Down	6:15 p.m.–6:45 p.m.	2:45 p.m.–3:15 p.m.

DAILY SCHEDULE

SUNDAY 13 MAY

7:30 a.m.–8:00 p.m.
Registration

8:00 a.m.–5:00 p.m.
Training Courses and Interest Group Symposia

5:00 p.m. | Meeting Room 11
Mentorship Programme Gathering

6:00 p.m. | Auditorium
Opening Ceremony
Keynote
Award Ceremony

7:30 p.m.–9:30 p.m. | Exhibition Hall
Welcome Reception
Exhibition Opening

MONDAY 14 MAY

7:30 a.m.–6:30 p.m.
Registration

8:30 a.m.
Platform Session

Coffee & Poster Viewing

10:50 a.m.
Platform Session

12:25 p.m.
Lunch & Poster Viewing

12:25 p.m.–1:55 p.m.
Student Mentor Lunch

1:55 p.m.
Platform Session

2:00 p.m.–6:00 p.m.
SETAC Square
Reddit AMA

Coffee & Poster

4:15 p.m. | Session Room A+B
Keynote

5:15 p.m. | Exhibition Hall
Poster Social

TUESDAY 15 MAY

7:30 a.m.–6:30 p.m.
Registration

8:30 a.m.
Platform Session

Coffee & Poster Viewing

10:50 a.m.
Platform Session

12:25 p.m.
Lunch & Poster

12:25 p.m.–1:55 p.m.
Student Lunch Seminar

12:00 p.m.–2:30 p.m.
Fun Run

1:55 p.m.
Platform Session

Coffee & Poster Viewing

4:15 p.m. | Session Room A+B
Keynote

5:15 p.m. | Exhibition Hall
Poster Social

9:00 p.m.–3:00 a.m.
Student Party

WEDNESDAY 16 MAY

7:30 a.m.–6:30 p.m.
Registration

8:00 a.m.–11:15 a.m.
Meeting Room 11
Job Event

8:30 a.m.
Platform Session

Coffee & Poster

10:50 a.m.
Platform Session

12:25 p.m.
Lunch & Poster Viewing

12:25 p.m.–1:55 p.m.
Workshop Room
SETAC Europe General Assembly

1:55 p.m.
Platform Session

2:30 p.m.–3:30 p.m.
Workshop Room
Students Assembly

Coffee & Poster Viewing

4:15 p.m. | Session Room A+B
Keynote

5:15 p.m. | Exhibition Hall
Poster Social

6:00 p.m.–10:30 p.m.
Social Dinner with Ancient Rome Guided Tour

THURSDAY 17 MAY

7:30 a.m.–2:00 p.m.
Registration

8:30 a.m.
Platform Session

Coffee & Poster Viewing

10:50 a.m.
Platform Session

12:25 p.m. | Exhibition Hall
Farewell Reception
Young Scientist Awards
Poster Viewing

PLATFORM SESSIONS

	Monday 14 May			Tuesday 15 May			Wednesday 16 May			Thursday 17 May	
	AM1 8:30 a.m.–10:05 a.m.	AM2 10:50 a.m.–12:25 p.m.	PM 1:55 p.m.–3:30 p.m.	AM1 8:30 a.m.–10:05 a.m.	AM2 10:50 a.m.–12:25 p.m.	PM 1:55 p.m.–3:30 p.m.	AM1 8:30 a.m.–10:05 a.m.	AM2 10:50 a.m.–12:25 p.m.	PM 1:55 p.m.–3:30 p.m.	AM1 8:30 a.m.–10:05 a.m.	AM2 10:50 a.m.–12:25 p.m.
Session Room A	3.16 - Pesticides Fate & Exposure		3.14 - Mercury	6.01 - Specific Protection Goals for PPPs	7.01 - Anthropogenic vs Natural Sources of Contamination	6.02 - Environmental Quality Benchmarks	2.02 - Multiple Stressors			4.08 - Chemical Mixtures	
Session Room B	3.11 - Hydrophobic Chemicals		3.05 - Bioavailability Organic Chemicals	3.13 - Microbial Activity for In Situ Remediation	3.17 - Biodegradation Assessment	2.04 - Microbial Community Ecotox	6.05 - PBT/vPvB Assessment		4.11 - Improve Quality of Ecotox Tests & ERA	4.02 - Soil Ecotox & ERA	
Session Room C	5.05. - Uncertainty in Translating LCA Results	5.07 - LCIA Method Developments		5.08 - Life Cycle Inventory Data Collection & Model	5.04 - Sustainable Circular Economy		5.09 - Positive Life Cycle & Sustainability Assessment	5.06 - LCA to Improve Decision Support		5.02 Social LCA in Industry & Policy	5.03 - Emerging Technologies & Raw Materials
Session Room D	3.07 - Emerging Contam: Analytical Challenges			2.03 - Behavioural Toxicology	6.04 - Informed Substit of Hazardous Chemicals	6.07 - Safe & Sustainable Chemistry	3.02 - Remedy Effectiveness in Soils & Sediments	6.03 - ERA & Management of Soil Material	4.09 - ERA of Sediments	4.06 - Exposure & Risk Assessment with Bioassays	
Session Room E	2.09 - Wildlife Ecotoxicology		5.01 - Inventories of Emissions & Resources for Env. Footprints	7.02 - From Trends in Wildlife Populations to Improved Regulation	2.01 - Big Data Analysis	2.06 - Pollinators	3.04 - Emerging Contaminants under Water Scarcity		4.16 - Wastewater	3.10 - Fluorinated Compounds	7.03 - Indigeneity & Science
Session Room M	4.12 - ERA of Biocides & Vet Med	4.05 - ERA in Time and Space	4.13 - Mechanistic Effect Modelling for ERA	4.15 - Bioavail, Effects & ERA of Metals		3.19 - Exposure to Chemical in Urban Systems	4.14 - Testing & ERA of Pharmaceuticals & Metabolites		4.03 - Antibiotics Fate, Resistance & Effects	3.12 - Environmental Exposure Assessment	
Session Room N	3.18 - Nano-Materials Fate & Toxicity		3.09 - Micro & Nanoplastics Detection	3.15 - Microplastics Fate & Monitoring			2.05 - Plants	1.05 - Nanoparticles Interactions	3.06 - Incidental Nanoparticles & Nanoplastics	6.06 - ERA of Nanomaterials	1.04 - Mechanistic Ecotox Macro & Micro Plastics
Session Room O	3.01 - Effects & ERA of Oil Spills			3.03 - Air Pollution & Human Health		2.08 - From Ecotox to Trophic Ecology	3.08 - Terrestrial Ecological Biomonitors	4.10 - ERA of Aquaculture Blue Revolution	1.09 - Luminescent Biomonitoring	4.07 - Natural Toxins & Harmful Algal Blooms	
Session Room P	1.06 - Fish Model Species		1.02 - Animal Alternatives	1.12 - Invertebrate Model Species		1.08 - Integrate Experimental Tox & Mechan Modelling	1.13 - OMICS		1.11 - Obesogens & Lipid Disruptors	1.01 - Adverse Outcome Pathways	1.10 - Endocrine Disruptors
Session Room Q	8.04 - Safeguard Cultural Heritage ★	8.06 - Sustainable Development Goals ★	8.03 - Migratory Bird Species at Risk ★	8.05 - Solutions for Emerging Pollutants ★			8.02 - Plastics in the Mediterranean Sea ★	8.07 - Balance the Inevitability & Hazard of Chemicals in Society ★		8.01 - Environmental Specimen Banks ★	1.03 - Bio-transformation & Elimination Rate

X.YY - AAAA: Track . Session - Session Title

★ *Special Session*

SESSIONS OVERVIEW

All sessions have poster exhibition at the same day as their associated platform session.

Session	Day	Location
1. Ecotoxicology and Human Toxicology: From Molecules to Organisms, from Omics to In Vivo		
1.01 – Advancing the Adverse Outcome Pathway Framework – An International Horizon Scanning Approach	Thursday	Session Room P
1.02 – Alternative Approaches to Animal Testing for Ecotoxicity Assessments	Monday	Session Room P
1.03 – BiER Is Good for You: How Biotransformation and Elimination Rate Information Can Improve Chemical Assessments	Thursday	Session Room Q
1.04 – Ecotoxicology of Micro and Nanoplastics: Mechanistic Approaches to Understand Their Risk for the Environment and Human Health	Thursday	Session Room N
1.05 – Emergence and Multidimensional Interactions of Engineered Nanoparticles in Toxicology	Wednesday	Session Room N
1.06 – Fish Model Species in Human and Environmental Toxicology	Monday	Session Room P
1.07 – Fungicides – An Overlooked Compound Group? Fate, Effects, Risk Assessment and Mitigation	Tuesday	Exhibition Hall*
1.08 – Integrated Approaches in Ecotoxicology: Bridging the Gap Between Experimental Toxicology and Mechanistic Modelling	Tuesday	Session Room P
1.09 – Luminescent Biomonitoring Via Bioassays of Different Complexity – From Cells Trough Enzyme Reactions to Proteins	Wednesday	Session Room O
1.10 – Advances in Evaluating and Regulating Endocrine Disruptors	Thursday	Session Room P
1.11 – Obesogens and Lipid Disruptors	Wednesday	Session Room P
1.12 – The Added Value of Using Invertebrate Species in Ecotoxicology: New Insights for Environmental Risk Assessment	Tuesday	Session Room P
1.13 – Systems Ecotoxicology: Application of OMICs Data Across Multiple Level of Biological Organisation in Research and Risk Assessment	Wednesday	Session Room P
1.14 – Epigenetic and Evolutionary Toxicology: From Mechanisms to Risk Assessment	Wednesday	Exhibition Hall*
2. Ecotoxicology Becomes Stress Ecology: From Populations to Ecosystems and Landscapes		
2.01 – Big Data Analysis in Ecotoxicology: How to Get New Information Out of Existing Data?	Tuesday	Session Room E
2.02 – Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects with Environmental Drivers	Wednesday	Session Room A
2.03 – Behavioural Ecotoxicology: Unravelling Behavioural Responses to Chemical Contaminants in the Environment	Tuesday	Session Room D
2.04 – Microbial Community Ecotoxicology in Environmental Risk Assessment and Ecosystem Monitoring	Tuesday	Session Room B
2.05 – Plants: Predicting and Assessing Direct, Indirect Effects and Recovery of Plants From Chemical Stress	Wednesday	Session Room N
2.06 – Recent Developments in Environmental Risk Assessment for Pollinators	Tuesday	Session Room E
2.07 – Salt of the Earth – Causes, Consequences and Management of Salinisation of Surface Freshwaters, Groundwaters and Soils	Wednesday	Exhibition Hall*
2.08 – When Ecotoxicology Meets Trophic Ecology	Tuesday	Session Room O
2.09 – Wildlife Ecotoxicology: Laboratory Dosing Studies to Field Population Assessments	Monday	Session Room E
3. Environmental Chemistry and Exposure Assessment: Analysis, Monitoring, Fate and Modeling		
3.01 – Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations	Monday	Session Room O
3.02 – Advances in Monitoring and Evaluating Remedy Effectiveness for In Situ Amendments in Soils and Sediments	Wednesday	Session Room D
3.03 – Air Pollution, Biomonitoring and Human Health	Tuesday	Session Room O
3.04 – Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity	Wednesday	Session Room E
3.05 – Bioavailability and Realistic Risk Assessment of Organic Chemicals	Monday	Session Room B
3.06 – Distribution, Transformations and Biological Effects of Incidental Nanoparticles and Nanoplastics in the Environment from a More Realistic Point of View	Wednesday	Session Room N
3.07 – Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions	Monday	Session Room D

*Poster only session

SESSIONS OVERVIEW

Session	Day	Location
3.08 – Environmental Monitoring of Contaminants Using Terrestrial Ecological Biomonitors	Wednesday	Session Room O
3.09 – New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation and Impacts in the Environment	Monday	Session Room N
3.10 – From Detection to Action: Advancements in Assessing and Managing Highly Fluorinated Compounds	Thursday	Session Room E
3.11 – Hydrophobic Chemicals and Mixtures: Reliable Investigations on Their Environmental Fate and Effects	Monday	Session Room B
3.12 – Improvements in Environmental Exposure Assessment: Development and Application of Tools Across Industry Sectors, Regulatory Agencies, and International Boundaries	Thursday	Session Room M
3.13 – Innovative Techniques for Enhancing and Monitoring Microbial Activities for In Situ Remediation of Contaminated Sites	Tuesday	Session Room B
3.14 – Mercury Biogeosciences – Fate, Effects and Policy	Monday	Session Room A
3.15 – Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions	Tuesday	Session Room N
3.16 – Modelling and Monitoring of Pesticides Fate and Exposure in a Regulatory Context	Monday	Session Room A
3.17 – Persistence & Biodegradation Assessment	Tuesday	Session Room B
3.18 – The Environment as a Reactor Determining Fate and Toxicity of Nanomaterials	Monday	Session Room N
3.19 – Understanding Human and Environmental Exposure to Chemicals in Urban Systems	Tuesday	Session Room M
4. Ecological Risk Assessment and Human Health Risk Assessment of Chemicals, Mixtures and Stressors and Risk Mitigation Strategies		
4.01 – (Eco)Toxicity Tests for Hazard Evaluation of Recycling Materials and Waste	Wednesday	Exhibition Hall*
4.02 – Advances In Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems	Thursday	Session Room B
4.03 – Antibiotics and Antibiotic Resistance in the Environment: Fate and Ecological Effects, Resistance Development and Implications for Human Health	Wednesday	Session Room M
4.04 – Developments in the Ecological and Human Health Risk Assessment of Biopesticides: Microorganisms, Semiochemicals and Botanicals	Tuesday	Exhibition Hall*
4.05 – Environmental Risk Assessment in Time and Space – New Approaches to Deal with Ecological Complexity	Monday	Session Room M
4.06 – Developments in the Use of Bioassays for Chemical and Environmental Risk Assessment	Thursday	Session Room D
4.07 – Natural Toxins and Harmful Algal Blooms (Habs): Water and Food Safety, Analysis, Toxicity, and Risks	Thursday	Session Room O
4.08 – Hazard and Exposure Assessment of Chemical Mixtures: Steps Towards Increasing the Realism of Chemical Risk Assessment	Thursday	Session Room A
4.09 – Environmental Risk Assessment in Sediments	Wednesday	Session Room D
4.10 – Improving the Environmental Risk Assessment of the Aquaculture 'Blue Revolution'	Wednesday	Session Room O
4.11 – Improving the Quality of Ecotoxicological Testing and Assessment	Wednesday	Session Room B
4.12 – Biocides and Veterinary Medicines: Latest Developments in Regulatory Risk Assessment, Research and Monitoring	Monday	Session Room M
4.13 – Mechanistic Effect Modelling for Risk Assessment: Applications, Use in a Regulatory Context and Future Directions	Monday	Session Room M
4.14 – Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment	Wednesday	Session Room M
4.15 – Environmental Effects of Metals: Improvements to Risk Assessment by Considering Speciation and Bioavailability	Tuesday	Session Room M
4.16 – Wastewater Effluents: How Research Can Improve Risk Assessment and Regulation	Wednesday	Session Room E
5. Life Cycle Assessment and Foot-Printing		
5.01 – Building of Large-Scale Inventories of Emissions and Resources and Applications for Environmental Footprints of Territories, Nations and Sectors	Monday	Session Room E
5.02 – Challenges, Methodological Developments and Practical Solutions for Social Life Cycle Assessment in Industry and Policy	Thursday	Session Room C

*Poster only session

SESSIONS OVERVIEW

Session	Day	Location
5.03 – Emerging Technologies and Related Raw Materials Requirements Scenarios: The Role of Life Cycle Thinking	Thursday	Session Room C
5.04 – Integrating Life Cycle Approaches Towards a Sustainable Circular Economy	Tuesday	Session Room C
5.05 – Interpretation and Uncertainty – Overcoming Challenges of Translating LCA Results Into Reliable Information	Monday	Session Room C
5.06 – LCA and Beyond – Integrating Sustainability and/or Other Dimensions to Improve Decision Support	Wednesday	Session Room C
5.07 – LCIA Method Developments in a Global Perspective: Status and Outlook	Monday	Session Room C
5.08 – New Frontiers in Life Cycle Inventory Data Collection and Modelling	Tuesday	Session Room C
5.09 – Product Benefits and Positive Outcomes: Valuation and Beyond	Wednesday	Session Room C
6. Environmental Policy, Risk Management, and Science Communication		
6.01 – Challenges in Setting, Meeting and Measuring Specific Protection Goals for Plant Protection Products	Tuesday	Session Room A
6.02 – Derivation, Validation and Implementation of Environmental Quality Benchmarks	Tuesday	Session Room A
6.03 – Environmental Risk Assessment and Management of The Spoil Material Produced in Tunnelling Excavation	Wednesday	Session Room D
6.04 – Informed Substitution of Hazardous Chemicals for Circular Economy: Science and Practice	Tuesday	Session Room D
6.05 – Pbt/Vpvb & Pmt/Vpvm Substances and Non-Extractable Residues (Ner): Scientific Strategies, Analytical Challenges and Regulatory Issues	Wednesday	Session Room B
6.06 – Risk Assessment of Nanomaterials: Innovative Approaches and Application of Recent Research Developments to Regulatory Science	Thursday	Session Room N
6.07 – Safe by Design: Responsible and Innovative Research for Safe and Sustainable Chemistry	Tuesday	Session Room D
6.08 – The Need for Resilience in Environmental Impact Assessment	Tuesday	Exhibition Hall*
6.09 – Use of Effect Based Methods in the Context of the National and European Legislative Framework for the Protection of Aquatic Ecosystems	Tuesday	Exhibition Hall*
6.10 – What's Your Take on Communication? Don't Panic! Reports on How to Accurately Communicating Science and Risk	Wednesday	Exhibition Hall*
7. Think-Outside-The-Box (Fundamentally New Concepts, Innovative/Controversial Ideas, Interdisciplinary Issues)		
7.01 – Anthropogenic and Natural Sources of Environmental Contaminants Highlight the Impacts of Opposing and Conflicting Regulations	Tuesday	Session Room A
7.02 – Can Trends in Wildlife Populations Revolutionise our Understanding of the Impacts of Chemicals on the Environment?	Tuesday	Session Room E
7.03 – Indigeneity and Science: A Collaborative Work in Progress	Thursday	Session Room E
7.04 – Thinking Green and Circularly About Microparticles, Nanomaterials and Composite Materials: Approaches for Recovery, Recycling and Reuse	Wednesday	Exhibition Hall*
8. Special Sessions		
8.01 – Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality	Thursday	Session Room Q
8.02 – Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea	Wednesday	Session Room Q
8.03 – Migratory Bird Species at Risk - The Role of Pesticides and Other Chemicals	Monday	Session Room Q
8.04 – Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry	Monday	Session Room Q
8.05 – Solutions for Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater Resources	Tuesday	Session Room Q
8.06 – Sustainable Development Goals: The Global Context Defining the Agenda for Government, Business and Academia	Monday	Session Room Q
8.07 – Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals and the Hazard They May Represent	Wednesday	Session Room Q

*Poster only session

GHENT BELGIUM
2019

SETAC 8th YOUNG ENVIRONMENTAL SCIENTISTS MEETING

5-10 February 2019
Ghent, Belgium

SAC EUROPE

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STUDENT ACTIVITIES AT A GLANCE

Sunday

5:00 p.m.–6:00 p.m.	**Mentorship Programme | Pre-registration required** Gather with your mentor and other mentees before the Opening Ceremony.	Meeting Room 11

Monday

12:25 p.m.–1:55 p.m.	**Student Mentor Lunch | Free** While enjoying lunch, get in touch with established scientists from all over the world. Get your ticket Monday morning at the registration desk.	Workshop Room

Tuesday

12:25 p.m.–1:55 p.m.	**Student Lunch Seminar | Free** In this interactive session, Agnieszka Hunka will talk about risk communication. Get your ticket Tuesday morning at the registration desk.	Workshop Room
9:00 p.m.–3:00 a.m.	**Student Party | 20€** You are never too old to have fun and hit the dance floor! It is party time for scientists of all ages! There will be drinks, music and dancing at Locanda Atlantide. Tickets are still available at the registration desk.	Locanda Atlantide, Via Dei Lucani 22, Rome

Wednesday

8:00 a.m.–11:15 a.m.	**Job Event | Pre-registration required** Students and companies can meet each other to discuss job opportunities during this speed dating event.	Meeting Room 11
2:30 p.m.–3:30 p.m.	**Students Assembly** All students are welcome to join! Discover what is happening in the world of Student Advisory Council (SAC) and students of SETAC.	Workshop Room

Early Career Working Group

Wednesday, 16 May | 4:30 p.m.–5:30 p.m. | Workshop Room

Do you identify yourself as an early career professional (e.g. postdoc, recently started in consulting or industry,...)? If so, we need your help. SETAC Europe is establishing an Early Career Working Group to identify how we can help you with your career progression and professional development. We are looking to expand this area for our membership and we need your input to make the right decisions and focus on things that you feel passionate about.

If you're interested in joining the Early Career Working Group, that's great, but we are also looking for guidance without future commitment if you prefer.

So if you simply want to share your experiences and ideas or if you'd like to join our Working Group, come along on Wednesday, 16 May from 4:30 p.m. to 5:30 p.m. in the Workshop Room. You will meet SETAC Europe Council Members who are working to make the Society more inclusive so as to represent all of our membership and also like-minded early career professionals who want a voice within our Society.

SUNDAY 13 MAY

Daily Schedule		Location
7:30 a.m.–8:00 p.m.	Registration Open	Registration Area
8:00 a.m.–5:00 p.m.	Training Courses	see list below
12:00 p.m.–1:00 p.m.	Lunch Break	
5:00 p.m.–6:00 p.m.	Mentorship Programme Gathering	Meeting Room 11
6:00 p.m.–7:30 p.m.	Opening Ceremony featuring Keynote Speaker Roger Strand Award Ceremony	Auditorium
7:30 p.m.–9:30 p.m.	Welcome Reception and Exhibition Opening	Exhibition Hall

Satellite Meetings		Location
9:00 a.m.–4:00 p.m.	SETAC Europe Council Meeting	Meeting Room 6
12:50 p.m.–5:30 p.m.	Science & Risk Communication SCIRIC IG Symposium	Meeting Room 10
1:00 p.m.–5:30 p.m.	Pharmaceuticals IG Symposium	Session Room 0
4:00 p.m.–5:30 p.m.	ECETOC – Aquatic Tox/Particulates TF	Meeting Room 9

Training Courses

Morning Half-Day Courses | 8:00 a.m.–12:00 p.m.		Location
TC06	Introduction to Interspecies Toxicity Extrapolation Using the Epa's Web-Ice Tool	Meeting Room 9
TC07	How to be Successful in Scientific Publishing	Meeting Room 2
Afternoon Half-Day Courses | 1:00 p.m.–5:00 p.m.		**Location**
TC08	Project Management for Scientists	Meeting Room 2

Full-Day Courses | 8:00 a.m.–5:00 p.m.		Location
TC01	The Endocrine System: Global Perspectives on Testing Methods and Evaluation of Endocrine Activity	Meeting Room 3
TC02	Statistical Issues in the Design and Analysis of Ecotox Experiments	Meeting Room 8
TC03	Effective Live Presentations for Scientists: Get Your Message Across Using Improvisational Theatre Techniques	Session Room N
TC04	Testing Methods for Honey Bees, Bumblebees and Solitary Bees on the Context of Pesticide Registration	Meeting Room 1
TC05	Statistical Methods in Ecotoxicology Using R	Meeting Room 7

OPENING CEREMONY

Sunday, 13 May | 6:00 p.m. | Auditorium

Responsible Research and Innovation (RRI): A Path Towards Sustainability?

Roger Strand

University of Bergen, Norway

Roger Strand is Professor at the Centre for the Study of the Sciences and Humanities and the Centre for Cancer Biomarkers at the University of Bergen, Norway, and Adjunct Professor at Department of Biotechnology and Food Science, the Norwegian University of Science and Technology, Trondheim, Norway. Originally trained as a natural scientist (PhD, biochemistry 1998), Strand developed research interests in the philosophy of science and has worked on issues of scientific uncertainty and complexity, including the theory of post-normal science. This has gradually led his research into broader strands of social research, philosophy and broader issues of policy, decision-making and governance at the science-society interface. He has coordinated two EU FP7 projects (TECHNOLIFE and EPINET), which both addressed the need for more dynamic governance of science in society. He was a member of the National Research Ethics Committee for Science and Technology in Norway (2006-2013) and Chair of the European Commission Expert Group on Indicators for Responsible Research and Innovation (2014-2015). He is one of the Directors of the European Centre for Governance in Complexity.


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MONDAY 14 MAY

Daily Schedule		Location
7:30 a.m.–6:30 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
8:30 a.m.–10:05 p.m.	Platform Session *Morning 1*	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session *Morning 2*	
12:25 p.m.–1:55 p.m.	Lunch Break and Poster Viewing	Exhibition Hall
12:25 p.m.–1:55 p.m.	Student Mentor Lunch	Workshop Room
1:55 p.m.–3:30 p.m.	Platform Session *Afternoon*	
2:00 p.m.–6:00 p.m.	Reddit Ask Me Anything	SETAC Square
3:30 p.m.–4:15 p.m.	Coffee Break & Poster Viewing	Exhibition Hall
4:15 p.m.–5:00 p.m.	Keynote Speaker Bernhard Url	Session Room A+B
5:15 p.m.–6:15 p.m.	Poster Social	Exhibition Hall

KEYNOTE SPEAKER

Monday, 14 May | 4:15 p.m.–5:00 p.m. | Session Room A+B

Food Safety in a Complex Changing World

Bernhard Url

European Food Safety Agency (EFSA), Italy

Dr. Bernhard Url was appointed Executive Director of EFSA in June 2014, having served as Acting Executive Director for seven months. Dr. Url joined EFSA in June 2012 as Head of the Risk Assessment and Scientific Assistance Department. A qualified veterinarian by training, he brings high-level management experience from food-safety organisations to his role at EFSA.

Prior to joining the Authority, Dr. Url was Managing Director of the Austrian Agency for Health and Food Safety (AGES), which represents Austria on EFSA's Advisory Forum. From 2008 to March 2012, he also served as a member of EFSA's Management Board.

During his 10 years at AGES, he was in charge of technical and scientific affairs with a remit that included the timely delivery of risk assessment and risk management services across a wide range of areas. This included ensuring effective risk communications during urgent food safety-related events.

Prior to AGES Dr. Url spent five years as an Assistant Professor at the Institute of Milk Hygiene and Milk Technology at the University of Veterinary Medicine in Vienna before running a food quality control laboratory from 1993 to 2002.

Dr. Url graduated from the University of Veterinary Medicine in Vienna in 1987 and became a Doctor of Veterinary Medicine in 1990. He has published in the field of veterinary medicine with a particular focus on listeria and milk hygiene.

MONDAY 14 MAY

Satellite Meetings		Location
08:00 a.m.–09:00 a.m.	Global Horizon Scanning Project: Open Meeting	Meeting Room 1
09:00 a.m.–10:00 a.m.	SCIRIC Annual Meeting 2018	Meeting Room 1
09:00 a.m.–10:00 a.m.	SETAC World Finance Committee	Meeting Room 6
10:00 a.m.–11:30 a.m.	CRA multiple-choice examination	Meeting Room 1
11:00 a.m.–12:00 p.m.	Membership & PR Committee	Meeting Room 1
11:00 p.m.–12:00 p.m.	SETAC Europe Finance Committee	Meeting Room 9
12:00 p.m.–2:00 p.m.	ET&C Editorial Lunch Meeting	Meeting Room 6
12:25 p.m.–1:55 p.m.	Student Mentor Lunch	Workshop Room
12:55 p.m.–1:55 p.m.	Interest Group Summit	Meeting Room 10
2:00 p.m.–3:00 p.m.	SETAC Europe Development Committee	Meeting Room 9
2:00 p.m.–3:30 p.m.	IEAM Editorial Meeting	Meeting Room 10
2:00 p.m.–4:00 p.m.	Global Science Committee	Meeting Room 8
2:00 p.m.–6:00 p.m.	Reddit Ask Me Anything	SETAC Square
2:30 p.m.–3:30 p.m.	Student Advisory Council	Meeting Room 7
3:00 p.m.–5:00 p.m.	Italian Language Branch	Meeting Room 6
4:00 p.m.–5:00 p.m.	An online tool for dynamic LCA – DyPLCA	Meeting Room 7
4:00 p.m.–5:30 p.m.	ECETOC/CEFIC LRI ECO 35 – Progress review Meeting	Meeting Room 9
4:00 p.m.–6:00 p.m.	ICPPR Microbials and bees working group	Meeting Room 8
4:30 p.m.–6:00 p.m.	IPCP 2018 General Assembly	Meeting Room 2
4:30 p.m.–6:30 p.m.	NanoFASE Hands-on Stakeholder Consultation	Meeting Room 10
5:00 p.m.–6:00 p.m.	Bioaccumulation Science Interest Group	Session Room O
5:30 p.m.–7:00 p.m.	Dung Organism Toxicity Testing (DOTTS) Interest Group	Meeting Room 1
5:30 p.m.–7:00 p.m.	Metals Interest Group	Session Room M
5:30 p.m.–7:00 p.m.	SETAC Nanotechnology Interest Group	Meeting Room 6
6:00 p.m.	LCA Social Event	Welcome to Rome, Corso Vittorio Emanuele II, 203, 00186 Rome

PROGRAMME HIGHLIGHTS

Special Session

Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry

Monday, 14 May | 8:30 a.m.–10:05 a.m. | Session Room Q

Lucia Toniolo
Politecnico di Milano, Italy

Rocco Mazzeo
University of Bologna, Italy

The contribution of chemistry and material science to the knowledge, conservation and monitoring of Cultural Heritage is relevant and well established in the scientific community. Artefacts and polychrome artefacts, historical buildings and archaeological heritage are complex material systems subjected to continuous stress deriving from aggressive environmental conditions and climate change with increasing kinetic of deterioration processes. The conservation and enhancement and exploitation of the huge world heritage deserves attention and needs innovative materials and technical solutions, besides a great research effort for the development of a new consciousness of the society. Climate change and pollution threats are difficult to face and control, while new nanomaterials are proposed and used in different areas, without an appropriate set-up and evaluation of the connected risks. The European Commission is aware of the importance of this Societal Challenge and of the determinant impact of Cultural Heritage for the formation and development of the European citizenship. The Special Session would like to present the main responses given by the research in Europe with an overview of the main problems and innovation opportunities in the field of safeguard of Cultural properties. The new European infrastructure E-RIHS (Research Infrastructure Heritage Science), under the Italian guidance and leadership, will be presented in details during the session.

Programme

08:30 a.m.	Introduction
08:35 a.m.	Cultural Heritage and Climate Change: impact and adaptation | **Cristina Sabbioni**, *CNR-ISAC – Istituto di Scienze dell'Atmosfera e del Clima, Italy*
09:05 a.m.	Nanotechnologies for the conservation and connected risks | **Maria Mosquera**, *University of Cadiz, Spain*
09:35 a.m.	Towards the European Research Infrastructure in Heritage Science: E-RIHS | **Luca Pezzati**, *CNR-Istituto Nazionale di Ottica, Italy*
09:55 a.m.	Discussion & Conclusions
10:05 a.m.	End

Student Mentor Lunch

12:25 p.m.–1:55 p.m. | Workshop Room

Get in touch with established scientists and with other students from all over the world. Enjoy the informal atmosphere and enlarge your network while having a nice lunch!

Sponsored by SMITHERS VISCIENT

Tickets are distributed Monday morning at the registration desk. First come, first served!

reddit

SETAC

Join the SETAC sponsored Reddit Ask Me Anything

Monday 14 May I 2 p.m–6 p.m.
SETAC Square

Help answer questions to anyone curious about our science!

PROGRAMME HIGHLIGHTS

Special Session

Sustainable Development Goals: The Global Context defining the Agenda for Government, Business and Academia

Monday, 14 May | 10:50 a.m.–12:25 p.m. | Session Room Q

Patricia Navarra
ENEL, Italy

Paolo Masoni
Ecoinnovazione srl, Italy

Sustainable Development Goals, to be achieved by 2030, have been approved in 2015 in the Agenda for the Sustainable Development by the member states of the United Nations. They are 17 goals, 168 targets and more than 200 indicators. The ambition and complexity of Agenda 2030 requires a strong involvement and commitment of all components of the society: business, public sector, academia and research centers, cultural operators and associations.

In 2012, SETAC approved the Berlin Declaration on Sustainability as a basis for its engagement towards the sustainability. Moreover, SETAC, together with the United Nation Environment, promotes and leads the Life Cycle Initiative, a public-private, multi-stakeholder partnership enabling the global use of credible life cycle knowledge by private and public decision makers, to identify possible tradeoffs and avoiding problem shifting. Its mission is to bring Life Cycle Thinking to the mindsets of decision makers with the practical knowledge and tools to enhance the sustainability of their decisions, as a basis for supporting governments and businesses in achieving the Sustainable Development Goals.

Purpose of this special session is to provide SETAC members with a clear picture of the general context from the different perspectives of business, government and academia. Ambition of the special session is to help each participant in better understanding how her/his personal work can contribute to the overarching sustainable developing goals.

Programme

10:50 a.m.	Introduction
10:55 a.m.	Can the Agenda 2030 and the Sustainable Development Goals be the drivers to change the world? | **Enrico Giovannini**, *AsviS, Italy*
11:10 a.m.	How the SDGs are being addressed in Horizon 2020 | **Marialuisa Tamborra,** *European Commission – DG Research and Innovation, Belgium*
11:25 a.m.	Examples of EU projects related to SDGs | **Marco Recchioni,** *European Commission – EASME, Belgium*
11:40 a.m.	Why SDGs are relevant for a large enterprise | **Andrea Valcalda**, *ENEL, Italy*
11:55 a.m.	Conclusions | **Elisa Tonda,** *UN Environment, France*
12:10 p.m.	Questions & Answers
12:25 p.m.	End

PROGRAMME HIGHLIGHTS

★ Special Session

Migratory Bird Species at Risk: The Role of Pesticides and Other Chemicals

Monday, 14 May | 1:55 p.m.–3:30 p.m. | Session Room Q

Nico van den Brink
Wageningen University, Netherlands

Borja Heredia
UNEP/CMS, Germany

Rafael Mateo
IREC – CSIC – UCLM, Spain

Richard Shore
Centre for Ecology & Hydrology, UK

Several migratory bird species are iconic species that inspire people but often also act as indicators for environmental health. Worldwide, populations of migratory birds are under pressure, showing declines in populations and sometimes they are even endangered. Within the United Nations Convention on the Conservation of Migratory Species of Wild Animals (http://www.cms.int/), the Avian Species Team works on the assessment of the status of populations of (endangered) migratory bird species, identifying potential threats to those species and improving their (international) management. Management and conservation of migratory bird species is complex, due to the need to address a range of threats that may act across part or all of entire fly ways which cross borders and multiple diverse habitats. Within the UN Avian Species Team there is more and more concern that chemicals affect migratory bird species, and that this issue demands specific attention. However, obtaining clear evidence of pollution-mediated effects is very complicated due to the long range movements of migratory species, complex exposure scenarios to different classes of compounds in different regions along migration routes, and the logistics of working across multiple countries. Furthermore, this UN-team does not have the experience neither the capacity to fully explore the potential threats that chemicals may pose to migratory species. Recently, the Preventing Poisoning Working Group of the UN-Avian Species Team made a first inventory of potential chemical risks to migratory birds along their migration fly ways and concluded that these included pesticides, rodenticides, pharmaceuticals, lead ammunition and fishing weights and deliberate poisoning. For further development of this inventory, and to assess actual risks of chemicals, the UN-Avian Species Team reached out to the Wildlife Toxicology Interest Group (SETAC World) to gain the experience needed for this process.

Rationale for a session at this meeting:

- The issue is closely related to the central theme of the conference "Responsible and Innovative Research for Environmental Quality" since this complex issue can only be solved by applying new and innovative tools and concepts. This is essential for e.g. non-destructive collection of sampling, back tracing of exposure routes (e.g. by application of stable isotopes or other signals).
- This issue is highly connected to the Mediterranean Sea and its bordering countries since there are several areas where migratory birds stay during the winter while several important migratory fly ways cross the Mediterranean e.g. via Israel, Spain and Italy.
- This topic will likely need the involvement of a wider part of the SETAC community. This would also bring SETAC in close connection with an important Directive of the UN, expanding the potential outreach of SETAC.

Programme

1:55 p.m.	Introduction
2:00 p.m.	CMS talk setting the scene for the CMS working group on poisoning and outlining CMS needs in terms of scientific input from SETAC | **Borja Heredia**, *UNEP/CMS, Germany*
2:15 p.m.	Main scientific gaps in knowledge of risk from pesticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Christine Bishop**, *Environment and Climate Change Canada, Canada* – *Poster Spotlight MO456*
2:20 p.m.	Main scientific gaps in knowledge of risk from rodenticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Philippe Berny,** *VetAgro Sup, France* – *Poster Spotlight MO457*
2:25 p.m.	Main scientific gaps in knowledge of risk from Pb ammunition and shot to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Ruth Cromie,** *Wildfowl & Wetlands Trust, UK* – *Poster Spotlight MO458*
2:30 p.m.	Main scientific gaps on knowledge of NSAIDs [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Mark Taggart,** *University of the Highlands and Islands, UK* – *Poster Spotlight MO459*
2:35 p.m.	Main scientific gaps on knowledge of deliberate poisoning to [migratory] wildlife globally | **Martin Odino,** *Independent Environmental Services Professional, Kenya* – *Poster Spotlight MO460*
2:40 p.m.	Questions and discussion
2:50 p.m.	Regulatory view describing the extent to which [if any] regulation takes into account neighbouring country/regional use of compounds, accounts for how local use might affect migratory species, how field data on migratory species might feed into regulatory processes | **Rachel Sharp,** *EFSA, Italy*
3:10 p.m.	Panel discussion with audience and presenters focusing on how SETAC can interact with CMS usefully to provide scientific evidence and expertise
3:30 p.m.	End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	**Modelling and Monitoring of Pesticides Fate and Exposure in a Regulatory Context (I) | Bernhard Gottesbueren,...**		
	001 | The SETAC DRAW workshops – aims, approaches and progress to date | **Neil Mackay**, *FMC Corporation, UK*	002 | Plant uptake in regulatory environmental exposure assessment: Refined modelling based on experimental data | **Carola Schriever**, *BASF SE, Germany*	003 | Work of a SETAC Group to Develop the Scientific Basis for Guidance for Regulatory Groundwater Monitoring of Crop Protection Products and their Metabolites in Europe | **Russell Jones**, *Bayer AG Crop Science Division, USA*
Session Room B	**Hydrophobic Chemicals and Mixtures: Reliable Investigations on their Environmental Fate and Effects (I) | Philipp Mayer,...**		
	007 | The hydrophobicity delay: Symptoms and solutions | **Alena Celsie**, *Queens University, Canada*	008 | Partitioning of chlorinated paraffins (CPs) to organic matter is not class specific: Implications for bioaccumulation? | **Mafalda Castro**, *Stockholm University, Sweden*	009 | Trophic magnification of cyclic volatile siloxane materials (D4, D5, and D6) in a freshwater lake: A Monte-Carlo analysis | **Kent Woodburn**, *The Dow Chemical Company, USA*
Session Room C	**Interpretation and Uncertainty – Overcoming Challenges of Translating LCA Results Into Reliable Information |...**		
	013 | LCA: Everything is relative and nothing is certain | **Reinout Heijungs**, *Leiden University, Netherlands*	014 | Drivers of variability and uncertainty in the chemical footprint of personal care products | **Mélanie Douziech**, *Radboud University Nijmegen, Netherlands*	015 | Combined uncertainty and scenario analysis within Life Cycle Assessment of waste management systems | **Valentina Bisinella**, *DTU – Technical University of Denmark, Denmark*
Session Room D	**Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions (I) |...**		
	019 | Unravelling longitudinal pollution patterns in freshwaters by non-target screening and cluster analysis | **Liza-Marie Beckers**, *Helmholtz-Zentrum für Umweltforschung GmbH – UFZ, Germany*	020 | Tracing sewage-derived contaminants from mainland towards the ocean by high resolution mass spectrometry | **Pablo Antonio Lara-Martin**, *University of Cadiz, Spain*	021 | Pharmaceuticals, personal care products (PPCPs), and artificial sweeteners (ASWs) in river and groundwater from the Ganges River Basin, India | **Brij Sharma**, *RECETOX Masaryk University, Czech Republic*
Session Room E	**Wildlife Ecotoxicology: Laboratory Dosing Studies to Field Population Assessments (I) | John Elliott, Veerle Jaspers,...**		
	025 | An interspecies correlation model to predict acute dermal toxicity of plant protection products to terrestrial life stages of amphibians | **Lennart Weltje**, *BASF SE, Germany*	026 | Overview of the EFSA Scientific Opinion on the state of the science on pesticide risk assessment for amphibians and reptiles | **Silvia Pieper**, *German Federal Environment Agency (UBA), Germany*	027 | Ecotoxicological assessment of Caretta caretta (Linnaeus, 1758) in the Mediterranean Sea using an integrated non-invasive protocol | **Silvia Casini**, *University of Siena, Italy*
Session Room M	**Biocides and Veterinary Medicines: Latest Developments in Regulatory Risk Assessment, Research and Monitoring |...**		
	031 | Regulatory improvement in the assessment of environmental risks from veterinary medicines; a European Perspective | **Jason Weeks**, *Joint Nature Conservation Committee, UK*	032 | Risk of veterinary medicines to plants: Reflections for an updated approach. | **Ricardo Carapeto García**, *Spanish Medicines Agency, Spain*	033 | Innovative environmental assessment of a veterinary medicinal product: Watershed-level impacts of trenbolone acetate and 17β-estradiol | **Jane Staveley**, *Exponent, USA*
Session Room N	**The Environment as a Reactor Determining Fate and Toxicity of Nanomaterials (I) | Susana Loureiro, Cornelis A.M van Gestel,...**		
	037 | Comparative multi-generation study of long-term effects of pristine and wastewater-borne silver and titanium dioxide nanoparticles on reproduction in *Daphnia magna* | **Sarah Hartmann**, *University of Siegen, Institute of Biology, Germany*	038 | Development of a rapid screen to assess bioaccumulation potential: From ex vivo to in vivo using pristine and aged nanomaterials in fish | **Nathaniel Clark**, *School of Biological Sciences, Plymouth University, UK*	039 | Fate and Effect of Wastewater Borne Manufactured Nanomaterials on the Aquatic Food Chain | **Richard Zeumer**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*
Session Room O	**Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations (I) | Vince Palace,...**		
	043 | Optimization of Oil Spill Response Planning and Preparedness Using Spill Mitigation Impact Assessment (SIMA) | **Richard Wenning**, *Ramboll Environ, USA*	044 | Adapting the SIMA Process to Assess Offshore Decommissioning Options | **Thomas Coolbaugh**, *ExxonMobil Research & Engineering, USA*	045 | Detection and quantification of oil contamination in vegetated areas using hyperspectral remote sensing | **Guillaume Lassalle**, *ONERA, France*
Session Room P	**Fish Model Species in Human and Environmental Toxicology (I) | Jessica Legradi, Jorke Kamstra, Riccardo Massei**		
	049 | Exposure to bisphenol S alters microRNA expression in male zebrafish (Danio rerio) | **Jiyun Lee**, *Yongin University, South Korea*	050 | Zebrafish as a model to investigate mechanisms of adverse metabolic and cardiovascular outcomes associated with elevated dietary selenium exposure | **David Janz**, *University of Saskatchewan, Canada*	051 | Toxicity and neurotoxicity profiling of sediments from Gulf of Bothnia with Danio rerio embryos | **Riccardo Massei**, *Helmholtz Centre for Environmental Research UFZ, Germany*
★ Session Room Q	**Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry | Lucia Toniolo, Rocco Mazzeo**		
	8:35 a.m.		9:05 a.m.
	055 | Cultural Heritage and Climate Change: Impact and adaptation | **Cristina Sabbioni**, *CNR-Istituto di Scienze dellAtmosfera e del Clima, Italy*		056 | Nanotechnologies for the conservation and connected risks | **Maria Mosquera**, *University of Cadiz, Spain*

	9:20 a.m.	9:35 a.m.	9:50 a.m.	
Session Room A	**...Laura Padovani, Giovannna Azimonti**			
	004 | Effect of the Freundlich exponent on the finite penetration depth in a homogeneous Freundlich-SFO leaching system | **Jos Boesten**, *Wageningen Environmental Research, Netherlands*	005 | Bespoke monitoring to support Tier 4 FOCUS groundwater assessment | **Sarah McManus**, *Syngenta, UK*	006 | Long-Term Trend of Aquatic Pesticide Risk | **Anne Paulus**, *UFZ – Helmholtz Centre for Environmental Research, Germany*	COFFEE BREAK
Session Room B	**...Felix Stibany, Josh Butler**			
	010 | Distribution and Bioaccumulation of Polyhalogenated Carbazoles in Aquatic Systems from the USA and China | **Da Chen**, *Jinan University, China*	011 | Bioconcentration factors of constituents of essential oils in fish determined in an in-vivo benchmarked dietary exposure study: A case study for pine oil | **Changer Chen**, *Stockholm University, Sweden*	012 | Role of adipose tissue responsible for echolocation on the bioaccumulation process of lipophilic compounds in harbour porpoises | **Iris Schaap**, *Utrecht University, Netherlands*	
Session Room C	**...Gudrun Obersteiner, Michele De Rosa, Nicole Unger**			
	016 | Which impact categories are relevant for LCA results interpretation? | **Antoine Esnouf**, *Institut National de la Recherche Agronomique, France*	017 | Reduce the uncertainty of LCA results by prioritizing the regionalization effort: A sectorial meta-analysis | **Laure Patouillard**, *CIRAIG – École Polytechnique de Montréal, Canada*	018 | Poster spotlight: MO387, MO388, MO389	
Session Room D	**...Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg**			
	022 | Data-dependent fragment ion search for detection of sartans and related compounds in wastewater and surface water | **Bozo Zonja**, *IDAEA-CSIC, Spain*	023 | HR-MS non-target analysis for transformation products of emerging organic contaminants in waste water fractions pre-screened by ELISA | **Rudolf Schneider**, *BAM – Federal Institute Materials Research and Testing, Germany*	024 | Designing a risk based monitoring program for groundwater sources for drinking water production – based on target and suspect screening combined with clustering techniques | **Annemarie van Wezel**, *KWR Watercycle Research Institute, Netherlands*	COFFEE BREAK
Session Room E	**...Emmanuelle Bonneris, Scott Glaberman**			
	028 | Sucking clams or hunting seals – consequences to walrus health | **Cristina Panti**, *University of Siena, Italy*	029 | Triclosan-induced embryotoxicity in the yellow-legged gull | **Cristina Possenti**, *Università degli Studi di Milano, Italy*	030 | Egg overspray with herbicides and fungicides reduces chick survival in red-legged partridges | **Manuel Ortiz Santaliestra**, *Institute for Game and Wildlife Research (IREC) UCLM-CSIC-JCCM, Spain*	
Session Room M	**...Fabienne Ericher, Jaana Laitinen, Jason Weeks, Anja Kehrer**			
	034 | How can mesocosm studies increase realism in risk assessment of biocides and veterinary medicines? | **László Dören**, *ERM, Germany*	035 | Emission estimation of insecticides in mink farms | **Rikke Ovesen**, *Danish Environmental Protection Age, Denmark*	036 | Biocidal active substances in municipal wastewater – what product groups are the sources? | **Stefanie Wieck**, *Leuphana University of Lüneburg, Germany*	
Session Room N	**...Iseult Lynch, Claus Svendsen**			
	040 | Uptake and elimination kinetics of pristine and aged silver nanoparticles in freshwater benthic organisms | **Patricia Silva**, *Universidade de Aveiro, Portugal*	041 | Transformation of silver nanomaterials by ubiquitous zinc finger peptides | **Korin Wheeler**, *Santa Clara University, USA*	042 | Fate and effects of transformed Ag and TiO2 nanoparticles aged through a lab-scale wastewater treatment system | **Anastasia Georgantzopoulou**, *Norwegian Institute for Water Research NIVA, Norway*	COFFEE BREAK
Session Room O	**... Gregg Tomy, Graham Whale**			
	046 | A tool for tracking complex ecotoxicological effect data after large pollution events with use of the Deepwater Horizon oil spill as a case study | **Jonny Beyer**, *NIVA – Norwegian Institute for Water Research, Norway*	047 | Oil spill combat and effects in the Arctic coastal environment; self-cleaning potential and in situ burning | **Susse Wegeberg**, *Aarhus University, Denmark*	048 | How stable are our indices? – Differentiating between sources in a weathering environment | **Stephen Mudge**, *NILU – Norwegian Institute for Air Research, Norway*	
Session Room P	**Fish Model Species in Human and Environmental Toxicology (I) | Jessica Legradi, Jorke Kamstra, Riccardo Massei**			
	052 | Proteomics based screening tool to detect molecular responses following aromatase inhibition | **Steve Ayobahan**, *IME Fraunhofer, Germany*	053 | Zebrafish embryos are able to conduct complex biotransformation processes and activation of chemicals | **Eberhard Küster**, *Helmholtz Centre for Environmental Research, Germany*	054 | Differing PM2.5 Filter Extraction Methods: Impact on Chemical and Toxicological Analyses | **Courtney Roper**, *Oregon State University, USA*	
★ Session Room Q	**Safeguard and Conservation of Cultural Heritage: The Contribution of Chemistry | Lucia Toniolo, Rocco Mazzeo**			
	9:35 a.m.		**9:55 a.m.**	
	057 | Towards the European Research Infrastructure in Heritage Science: E-RIHS | **Luca Pezzati**, *CNR-Istituto Nazionale di Ottica, Italy*		058 | Discussion & Conclusions	

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	**Modelling and Monitoring of Pesticides Fate and Exposure in a Regulatory Context (II) | Bernhard Gottesbueren,...**		
	059 | Scenario Development for Off-field Soil Exposure and Risk Assessment | **Joachim Kleinmann**, *WSC Scientific GmbH, Germany*	060 | Biogenic residues formation from pesticides – an overview | **Karolina Nowak**, *TU Berlin, Germany*	061 | Derivation of a foliar wash-off factor for FOCUS modelling based on literature research | **Stephan Sittig**, *DR. KNOELL CONSULT GmbH, Germany*
Session Room B	**Hydrophobic Chemicals and Mixtures: Reliable Investigations on their Environmental Fate and Effects (II) | Philipp Mayer,...**		
	065 | Acute Toxicity of Pyrene Associated with Dissolved Organic Matter of Various Molecular Weights to *Daphnia magna* | **Hui Lin**, *School of Environment, Beijing Normal University, China*	066 | Passive dosing for constant concentration and defined composition of hydrophobic organic mixtures | **Rikke Hammershøj**, *Technical University of Denmark, Denmark*	067 | Biodegradation of volatile substances in soil – Challenges and optimization of test setups (OECD 307) | **Prasit Shrestha**, *Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Germany*
Session Room C	**LCIA Method Developments in a Global Perspective: Status and Outlook (I) | Alexis Laurent, Rosalie Van Zelm,...**		
	071 | Implications of spatial differentiation on LCA-based decision-making: A case study of biochar systems in Indonesia | **Mikolaj Owsianiak**, *Technical University of Denmark, Denmark*	072 | Considering space debris related impacts within the LCIA framework | **Thibaut Maury**, *University of Bordeaux, France*	073 | Implementing ozone formation effects due to poplar plantations for biomass production in Europe in life cycle impact assessment | **Rosalie Van Zelm**, *Radboud University, Netherlands*
Session Room D	**Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions (II) | ...**		
	077 | Review on removal and reactions of micropollutants in biofilms under growth and non-growth conditions | **Kai Bester**, *Aarhus University, Denmark*	078 | Biodegradation of emerging organic contaminants using an enzyme-mediator system and study of the resulting transformation products | **Ionut Daniel Caraene**, *Cutin University, Australia*	079 | Evaluation of macrolide antibiotic transformation in model biodegradation and ozonation experiments using target and non-target analyses and ecotoxicological bioassays | **Senka Terzic**, *Rudjer Boskovic Institute, Croatia*
Session Room E	**Wildlife Ecotoxicology: Laboratory Dosing Studies to Field Population Assessments (II) | John Elliott, Veerle Jaspers,...**		
	083 | Effects of PAH exposure on fuelling ability in a long distance migratory shorebird | **Christy Morrissey**, *University of Saskatchewan, Canada*	084 | PFAAs levels, oxidative status and reproductive success in great tits (Parus major) inhabiting a contamination hot-spot | **Ana López Antia**, *University Antwerp, Belgium*	085 | Active and passive monitoring of lead poisoning in birds of prey in Spain | **Rafael Mateo**, *IREC-CSIC – UCLM, Spain*
Session Room M	**Environmental Risk Assessment in Time and Space – New Approaches to Deal with Ecological Complexity | Alessio Ippolito,...**		
	089 | The threshold option, the recovery option and landscape modelling | **Pernille Thorbek**, *Syngenta, UK*	090 | Understanding risk – a better approach to reduce uncertainty | **Magnus Wang**, *WSC Scientific GmbH, Germany*	091 | Developing spatio-temporally realistic representations of agricultural landscapes for assessing the impacts of pesticides on non-target organisms | **Elżbieta Ziółkowska**, *Jagiellonian University, Poland*
Session Room N	**The Environment as a Reactor Determining Fate and Toxicity of Nanomaterials (II) | Susana Loureiro, Cornelis A M van Gestel,...**		
	095 | Mobilisation of silver sulphide nanoparticles in soil column by earthworms´ bioturbation | **Marta Baccaro**, *Wageningen University, Netherlands*	096 | Short – and long-term approaches to determine the fate of silver nanoparticles in soil | **Martin Hoppe**, *BGR, Germany*	097 | Determination of attachment efficiency (α) for ENPs in different types of soils by saturated column experiments | **Karin Norrfors**, *SLU Uppsala, Sweden*
Session Room O	**Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations (II) | Vince Palace, Gregg Tomy,...**		
	101 | MC-252 biomarkers as indicators of oil exposure and pollutant concentration in sediments of the northern Gulf of Mexico | **Laura Basirico**, *Louisiana State University, USA*	102 | Downregulation of hsp90 and increased intermoult duration in the blue crab, Callinectes sapidus, in response to oil exposure | **Susan Chiasson**, *Loyola University, USA*	103 | Physiological and molecular impacts of crude oil and/or dispersant-contaminated seawater and sediments on the sponge *Halichondria panicea* (phylum Porifera) | **Johanne Vad**, *Heriot-Watt University, UK*
Session Room P	**Fish Model Species in Human and Environmental Toxicology (II) | Jessica Legradi, Jorke Kamstra, Riccardo Massei**		
	107 | Life-stage, and species-specific effects of dietary methylmercury exposure | **Kristin Bridges**, *University of North Texas, USA*	108 | Characterization of molecular toxicity pathways of Fluoxetine in rainbow trout and white sturgeon using RNA-Seq whole transcriptome analyses | **Alper James Alcaraz**, *University of Saskatchewan – Toxicology Centre, Canada*	109 | Transgenerational effects of early life stage exposure to endocrine disruptors across biological scales in a euryhaline model fish | **Susanne Brander**, *Oregon State University, USA*
★ Session Room Q	**Sustainable Development Goals: The Global Context Defining the Agenda for Government, Business and Academia |...**		
	113 | Can the Agenda 2030 and the Sustainable Development Goals be the drivers to change the world? | **Enrico Giovannini**, *ASviS, Italy*	114 | How the SDGs are being addressed in Horizon 2020 | **Marialuisa Tamborra**, *European Commission – DG Research and Innovation, Belgium*	115 | Examples of EU projects related to SDGs | **Marco Recchioni**, *European Commission – EASME, Belgium*

	11:40 a.m.	11:55 a.m.	12:10 p.m.	
Session Room A	...Giovannna Azimonti			LUNCH BREAK
	062 | Application of a dynamic aquatic food web model for FOCUS exposure assessment | **Lauren Padilla**, *Stone Environmental, Inc., USA*	063 | Improved assessment of pesticide peak exposure in cultivated mountain watersheds | **Melissa Morselli**, *University of Insubria, Italy*	064 | Implementation of mitigation measures and assessment of its impact under field-specific environmental conditions in the risk indicator SYNOPS-WEB for Norway | **Anto Raja Dominic**, *Julius Kuehn Institute, Germany*	
Session Room B	...Felix Stibany, Josh Butler			
	068 | Untangling the biodegradation of hydrophobic chemicals in OECD and novel tests using a unified modelling approach | **Fabio Polesel**, *Technical University of Denmark (DTU), Denmark*	069 | History of polychlorinated biphenyl deposition to snow and ice from the Lomonosovfonna glacier, Svalbard | **Mark Hermanson**, *Hermanson & Associates LLC, USA*	070 | Environmental occurrence and distribution of organic UV stabilizers in the sediment of the Bohai and Yellow Seas | **Christina Apel**, *Helmholtz-Zentrum Geesthacht, Germany*	
Session Room C	...Ralph Rosenbaum, Heinz Stichnothe			
	074 | Relative potency approach for using in vitro information for calculating human effect factors in LCIA | **Beatrice Salieri**, *EMPA, Switzerland*	075 | Integrating endocrine disruption into life cycle impact assessment | **Yasmine Emara**, *Technische Universitaet Berlin, Germany*	076 | Poster spotlight: MO090, MO091, MO100	
Session Room D	...Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg			
	080 | DI-SPME – On-fiber Derivatization – GC-MS. An innovative green and cost-effective approach to determine CECs and TPs from a novel anoxic-aerobic photobioreactor | **Rebeca López-Serna**, *University of Valladolid, Spain*	081 | Abatement of amoxicillin, ampicillin and chloramphenicol from aqueous solutions using activated carbons prepared from grape slurry | **Beatrice Opeolu**, *Cape Peninsula University of Technology, South Africa*	082 | Biodegradation of organic micropollutants in constructed wetlands: Comparison of design and operational parameters | **Pedro Carvalho**, *Aarhus University, Department of Environmental Science, Denmark*	LUNCH BREAK
Session Room E	...Emmanuelle Bonneris, Scott Glaberman			
	086 | Persistence of elevated p,p'-DDE levels and HCB-related protoporphyrin IX decrease in eggs of common kestrels from Tenerife (Canary Islands, Spain) | **Annika Buck**, *Instituto de Investigación en Recursos Cinegéticos IREC, Spain*	087 | Long-term increase in secondary exposure to anticoagulant rodenticides in European polecats in Britain | **Richard Shore**, *Centre for Ecology & Hydrology (NERC), UK*	088 | Poster spotlight: MO035, MO036, MO083	
Session Room M	...Thomas Preuss, Domenica Auteri, Ivo Roessink			
	092 | Where are the Springtails? A vertical distribution model for Collembolans | **Vanessa Roeben**, *RWTH Aachen University, Institute for Environmental Research, Germany*	093 | A practical application of an individual-based stickleback model in the ERA of PPPs | **Kate Mintram**, *University of Exeter, UK*	094 | Using the Bayesian network relative risk model to integrate molecular effects, ecological context and ecosytem services to estimate risk over space and time | **Wayne Landis**, *Western Washington University, USA*	
Session Room N	...Iseult Lynch, Claus Svendsen			
	098 | The transformation of copper and zinc (-nanoparticles) during sewage sludge combustion | **Jonas Wielinski**, *ETH Zürich/ Eawag, Switzerland*	099 | Soil ecotoxicity and dissolution of a marketed nanosilver product – a direct comparison with ionic silver | **Jelle Mertens**, *Precious Metals and Rhenium Consortium c/o EPMF, Belgium*	100 | Tackling nanoparticle fate assessment in surface waters – heteroaggregation as a key process | **Helene Walch**, *University of Vienna, Dep. of Environmental Geosciences, Austria*	LUNCH BREAK
Session Room O	...Graham Whale			
	104 | Advances in the effects of UV on oil toxicity in aquatic organisms | **Kristin Bridges**, *University of North Texas, USA*	105 | Photoenhanced Toxicity of Petroleum to Aquatic Invertebrates and Fish: Review of the Science | **Mace Barron**, *U.S. EPA, USA*	106 | Pilot microcosm study to assess the fate and toxicity of diluted bitumen in an outdoor aquatic environment | **Jules Blais**, *University of Ottawa, Canada*	
Session Room P	Fish Model Species in Human and Environmental Toxicology (II) | Jessica Legradi, Jorke Kamstra, Riccardo Massei			
	110 | Integrated OMICS and imaging for a better understanding of ecotoxicological mechanisms – PAH developmental toxicity as an example | **Eeva-Riikka Vehniäinen**, *University of Jyvaskyla, Finland*	111 | Physiological / Reproductive Status of Native Fish Exposed to a Complex Chemical Mixture in the BíoBio River, Central Chile | **Mauricio Quiroz-Jara**, *Universidad de concepcion, Chile*	112 | Poster spotlight: MO248, MO249, MO256	
★ Session Room Q	...Patricia Navarra, Paolo Masoni			
	116 | Why SDGs are relevant for a large enterprise | **Andrea Valcalda**, *ENEL, Italy*	117 | Conclusions | **Elisa Tonda**, *UN Environment, France*	118 | Questions and Answers	

	2:00 p.m.	2:15 p.m.	2:30 p.m.
Session Room A	**Mercury Biogeosciences – Fate, Effects and Policy| Michael Bank, Séverine Le Faucheur, Nelson ODriscoll, Joao Canario**		
	119 | Rethinking Atmospheric Mercury Chemistry | **Mae Gustin**, *University of Nevada, Reno, USA*	120 | Evaluating spatial dynamics and species variation on mercury and selenium molar ratios in Northeast Atlantic marine fish communities | **Atabak Azad**, *NIFES, Norway*	121 | The interaction of mercury and selenium across environmental media | **Jacqueline Gerson**, *Duke University, USA*
Session Room B	**Bioavailability and Realistic Risk Assessment of Organic Chemicals| John Parsons, José Julio Ortega-Calvo,...**		
	125 | Anisotropic exchange kinetics of organic contaminants with passive samplers in stagnant sediment: Is multiple-thickness passive sampling the better alternative? | **Amy Oen**, *Norwegian Geotechnical Inst., Norway*	126 | Sediment toxicity of chlorpyrifos: Whole sediment bioassay vs. silicon disc passive dosing | **Kelsey-Jean Walker**, *University of Amsterdam, Netherlands*	127 | Implementing desorption extraction methods into bioavailability-oriented bioremediation | **Rosa Posada**, *IRNAS CSIC, Spain*
Session Room C	**LCIA Method Developments in a Global Perspective: Status and Outlook (II)| Alexis Laurent, Rosalie Van Zelm,...**		
	131 | A novel framework for a new generation of water consumption indicators in LCA and footprint studies | **Montse Núñez**, *TU Berlin, Germany*	132 | A midpoint indicator for freshwater resources | **Charlotte Pradinaud**, *IRSTEA Montpellier, France*	133 | Towards global regionalized characterisation factors for water consumption impacts on instream freshwater ecosystems | **Mattia Damiani**, *IRSTEA Montpellier, France*
Session Room D	**Environmental Fate of Emerging Contaminants in the Water Cycle: Analytical Challenges and Engineered Solutions (Iii) | ...**		
	137 | Full scale WWTP balancing with passive samplers offers new insights in xenobiotic elimination processes | **Tom Galle**, *Luxembourg Institute of Science and Technology, Luxembourg*	138 | Screening of wastewater-borne pharmaceuticals and their phototransformation products in rivers | **Sandra Perez**, *IDAEA CSIC, Spain*	139 | Degradation of a polymer probe exposed to different wastewater environments: Linking chemical transformations and potential microbial consumers | **Antoni Ginebreda**, *CSIC – Spanish National Research Council, Spain*
Session Room E	**Building of Large-Scale Inventories of Emissions and Resources and Applications for Environmental Footprints of...**		
	143 | Framework for building national inventories of toxic emissions to air, water and soil, in Europe | **Alexandra Leclerc**, *DTU, Denmark*	144 | Combining economic modelling and LCA to assess regional policies: Key learning points from a case study on the French forestry sector | **Thomas Beaussier**, *INRA, France*	145 | A regional life cycle approach for assessing the climate change mitigation potential of biobased systems | **Sinead OKeeffe**, *Helmholtz centre for environmental research – UFZ, Germany*
Session Room M	**Mechanistic Effect Modelling for Risk Assessment: Applications, Use in a Regulatory Context and Future Directions | ...**		
	149 | Modelling ecological scenarios for the assessment of chemical effects on stream communities | **Andre Gergs**, *gaiac – Research Institute for Ecosystem Analysis and Assessment, Germany*	150 | Robust implementation of TKTD models with Bayesian inference | **Virgile Baudrot**, *Université Lyon 1, France*	151 | Can TKTD-models describe and predict synergistic interactions in *Chironomus riparius*? | **Nina Cedergreen**, *University of Copenhagen, Denmark*
Session Room N	**New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation...**		
	155 | Atmospheric Microplastic's: A novel method for the identification of microplastic's in the inhalable size range | **Joseph Levermore**, *MRC-PHE Centre for Environment and Health, UK*	156 | Analysis of polystyrene based microplastics in the environment | **Gabriella Schirinzi**, *IDAEA-CSIC, Spain*	157 | Uptake, egestion and accumulation of microplastic in mussel after an experimental exposure | **Beatriz Fernández**, *Instituto Español de Oceanografia, Spain*
Session Room O	**Advances in Environmental Risk Assessment of Oil Spills and Offshore Oil & Gas Operations (III) | Vince Palace,...**		
	161 | Behavioral and physiological responses of bicolor damselfish and mahi-mahi to olfactory cues following crude oil exposure | **Lela Schlenker**, *RSMAS, University of Miami, USA*	162 | A wide range of endpoints are impacted by oil exposure in early and later life stages of marine fish | **Martin Grosell**, *RSMAS University of Miami, USA*	163 | Investigating the endocrine disruptive and genotoxic potential of crude oil samples using adapted in vitro toxicity tests | **Sarah Johann**, *Institute for Environmental Research RWTH Aachen University, Germany*
Session Room P	**Alternative Approaches to Animal Testing for Ecotoxicity Assessments | Adam Lillicrap, Teresa Norberg-King, Mark Lampi**		
	167 | Early life stages of a vertebrate species as an alternative model for the study of stressors in marine environment | **Mario Araujo**, *CESAM & DeBio, Portugal*	168 | Predicting in vivo toxicity from in vitro transcriptional responses following chemical exposure | **Danilo Basili**, *University of Liverpool, UK*	169 | Combining computational modelling with in-vitro cellular responses in order to predict chemical impact on fish growth | **Kristin Schirmer**, *Eawag, Switzerland*

Session Room Q ★	2:00 p.m.	2:15 p.m.	2:20 p.m.	2:25 p.m.
	Migratory Bird Species at Risk – The Role of Pesticides and Other Chemicals | Nico van den Brink, Borja Heredia,...			
	173 | CMS talk setting the scene for the CMS working group on poisoning and outlining CMS needs in terms of scientific input from SETAC | **Borja Heredia**, *UNEP/CMS, Germany*	174 | Main scientific gaps in knowledge of risk from pesticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO456 | **Christine Bishop**, *Environment and Climate Change Canada, Canada*	175 | Main scientific gaps in knowledge of risk from rodenticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO457 | **Philippe Berny**, *VETAGRO-SUP, France*	176 | Main scientific gaps in knowledge of risk from Pb ammunition and shot to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO458 | **Ruth Cromie**, *Wildfowl & Wetlands Trust, UK*

	2:45 p.m.	3:00 p.m.	3:15 p.m.
Session Room A	**Mercury Biogeosciences – Fate, Effects and Policy| Michael Bank, Séverine Le Faucheur, Nelson O'Driscoll, Joao Canario**		
	122 | Constraining Uncertainties in the Global Mass Balance of Mercury Using Observations and a Bayesian approach | **Asif Qureshi**, *IIT Hyderabad, India*	123 | Effects of probable nutrient limitation on the relationship between mercury and marine microorganisms in seawater | **Igor Zivkovic**, *Jozef Stefan Institute, Slovenia*	124 | Poster spotlight: MO333, MO334, MO335
Session Room B	**...Joop Harmsen, Steven Droge**		
	128 | Prediction of very slow biodegradation of PAHs in soil and validation in a pilot of 25 years | **Rene Rietra**, *Alterra and Wageningen University, Netherlands*	129 | Linking bioavailability of complex mixture to toxicity changes to assess recovery of contaminated soils | **Sabrina Cipullo**, *School of Water, Energy and Environment, Cranfield Water Science Institute, UK*	130 | Impact of Biochar Additions to Soil on Contaminant Sorption and Plant Bioavailability | **William Doucette**, *Utah State University, USA*
Session Room C	**...Ralph Rosenbaum, Heinz Stichnothe**		
	134 | The use of dynamic stock model to the definition of characterisation factors for biotic resources depletion | **Arnaud Hélias**, *Montpellier SupAgro, France*	135 | Accounting for soil quality effects of agricultural land management in LCA | **Lieselot Boone**, *Ghent University, Belgium*	136 | Poster spotligh: MO093, MO094, MO106
Session Room D	**...Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg**		
	140 | Optimization of Laccase Catalyzed Iodine Synthesis as Enzyme Based Disinfectant | **Gülten Yüksek**, *Universite de Sherbrooke, Turkey*	141 | Halogenated methanesulfonic acids in drinking water – Identification, standard synthesis, and analysis | **Daniel Zahn**, *Hochschule Fresenius, Germany*	142 | Poster spotlight: MO272, MO273, MO274
Session Room E	**...Territories, Nations and Sectors| Alexis Laurent, Mélanie Douziech, Serenella Sala**		
	146 | LCA_WIND_DK: Temporally, geographically and technologically-sensitive life cycle inventories for the Danish wind turbine fleet | **Romain Besseau**, *Mines ParisTech, France*	147 | Assessing environmental impacts of individual households: A large-scale bottom-up LCA-model for Switzerland | **Andreas Froemelt**, *ETH Zurich, Switzerland*	148 | Poster spotlight: MO109, MO110, MO113
Session Room M	**...Andreas Focks, Thomas Preuss, Alpar Barsi**		
	152 | Integration of temperature-dependent TKTD kinetics in individual-based population modelling – A case study with *Chaoborus crystallinus* | **Tido Strauss**, *Research Institute gaiac, Germany*	153 | Assessing lethal and sublethal effects from time variable exposure for different life-stages with the DEB model: An example for a Pyrethroid in rainbow trout | **Elke Zimmer**, *IBACON GmbH, Germany*	154 | Prediction of effects on chemicals on three-spined stickleback populations in mesocosms | **Viviane David**, *INERIS, France*
Session Room N	**...and Impacts in the Environment| Ana I Catarino, Maya Al Sid Cheikh, Farhan Khan**		
	158 | Analysis of tire wear particles in environmental samples using TED-GC-MS | **Paul Eisentraut**, *Bundesanstalt für Materialforschung und – prüfung, Germany*	159 | Determination of tire wear particles based on elemental composition | **Philipp Kloeckner**, *Helmholtz Centre for Environmental Research GmbH – UFZ, Germany*	160 | Are we speaking the same language? Towards a definition and categorization framework for environmental plastic debris | **Martin Wagner**, *Norwegian University of Science and Technology, Norway*
Session Room O	**...Gregg Tomy, Graham Whale**		
	164 | Impacts of Oil Exposure on Mahi Embryos | **Christina Pasparakis**, *Rosenstiel School of Marine Sciences, USA*	165 | Crude oil impairs heart cell function in the pelagic mahi-mahi (Coryphaena hippurus) | **Rachael Heuer**, *University of Miami, USA*	166 | microRNA and messenger RNA networks in early life stages of pelagic and nearshore fish species exposed to Deepwater Horizon oil | **Daniel Schlenk**, *University of California-Riverside, USA*
Session Room P	**Alternative Approaches to Animal Testing for Ecotoxicity Assessments | Adam Lillicrap, Teresa Norberg-King, Mark Lampi**		
	170 | Ecological Threshold for Toxicological Concern (eco-TTC) – Applications for Environmental Risk Assessment in Various Contexts | **Michelle Embry**, *ILSI Health and Environmental Sciences Institute (HESI), USA*	171 | Mode of action diagnosis by normalized multiple endpoint assessment in zebrafish embryos | **Elisabet Teixido**, *Helmholtz Center for Environmental Research – UFZ GmbH, Germany*	172 | Poster spotlight: MO158, MO159, MO190

COFFEE BREAK

COFFEE BREAK

COFFEE BREAK

★ Session Room Q — **...Rafael Mateo, Richard Shore**

2:30 p.m.	2:35 p.m.	2:40 p.m.	2:50 p.m.	3:10 p.m.
177 | Main scientific gaps on knowledge of NSAIDs [migratory] wildlife globally, and potential contribution of WTIG to CMS questions – Poster Spotlight MO459 | **Mark Taggart**, *University of the Highlands and Islands, UK*	178 | Main scientific gaps on knowledge of deliberate poisoning to [migratory] wildlife globally – Poster Spotlight MO460 | **Martin Odino**, *Independent Environmental Services Professional, Kenya*	179 | Questions and discussion	180 | Regulatory view describing the extent to which [if any] regulation takes into account neighbouring country/regional use of compounds, accounts for how local use might affect migratory species, how field data on migratory species might feed into regulatory | **Rachel Sharp**, *EFSA – European Food Safety Authority, Italy*	181 | Panel discussion with audience and presenters focusing on how SETAC can interact with CMS usefully to provide scientific evidence and expertise

MO | Monday Poster Presentations

Schedule

Setup	7:30 a.m.–08:30 a.m.
Poster Viewing	10:05 a.m.–10:50 a.m.
Poster Viewing	12:25 p.m.–1:55 p.m.
Poster Viewing	3:30 p.m.–4:15 p.m.
Poster Social	5:15 p.m.–6:15 p.m.
Take Down	6:15 p.m.–6:45 p.m.

Poster Corners

Fish model species in human and environmental toxicology (PC) | Jessica Legradi, Jorke Kamstra, Riccardo Massei

Discussion at 5:15 p.m.–5:45 p.m.

MOPC01 | Fish caging experiment as a tool for in situ assessment of neurotoxic effects of untreated wastewaters | **Bojana Mićić**, *Petnica Science Center/Faculty of Sciences, University of Novi Sad, Serbia*

MOPC02 | Toxicity analysis of treated sugar cane vinasse by integrated systems using gills of Oreochromis niloticus as model | **Ana Claudia de Castro Marcato**, *Sao Paulo State University – UNESP, Brazil*

MOPC03 | Assessing toxic effects in the fish Violet Goby (Gobioides broussonnetii – Gobiidae) from one of the most productive estuaries in Brazil | **Lilian Salgado**, *Universidade Federal do Paraná , Brazil*

MOPC04 | Does ozonation of the Aachen-Soers WWTP improve the water quality in the field? Caging experiments with juvenile rainbow trout and various biomarkers | **Yvonne Mueller**, *RWTH Aachen University, Germany*

MOPC5 | Environmental applications for medium-throughput, in vivo androgen disruptor identification with the RADAR assay | **Andrew Tindall**, *Watchfrog S.A., France*

MOPC6 | Evaluation of the toxicity of environmental samples collected near vineyard parcels on rainbow trout larvae (Oncorhynchus mykiss) and liver cell line RTL-W1 | **Shannon Weeks Santos**, *EPOC University of Bordeaux, France*

New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation and Impacts in the Environment (PC) | Ana I Catarino, Maya Al Sid Cheikh, Farhan Khan

Discussion at 5:45 p.m.–6:15 p.m.

MOPC07 | Optimization and Automation of Raman Microspectroscopy for Microplastic Analysis | **Philipp Anger**, *Technical University of Munich, Germany*

MOPC08 | Preparation of model small microplastics and nanoplastics | **Gireeshkumar Balakrishnan Nair**, *IMMM LE MANS, France*

MOPC09 | Effects on humic substances and sediments on the sorption of anthropogenic chemicals to different MP particles | **Sven Huppertsberg**, *Hochschule Fresenius University of Applied Sciences, Germany*

MOPC10 | Micronized tire rubber: Abundance and distribution within microplastic litter of the Charleston Harbor Estuary, South Carolina, USA | **Rachel Leads**, *College of Charleston, USA*

MOPC11 | Crumb rubber in sports fields – Advances in environmental chemistry | **Dorte Herzke**, *NILU – Norwegian Institute for Air Research, Norway*

MOPC12 | Nanoplastics analysis with Nano-FTIR | **Michaela Meyns**, *Alfred Wegener Institute, Germany*

Environmental fate of emerging contaminants in the water cycle: Analytical challenges and engineered solutions (PC) | Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg

Discussion at 5:15 p.m.–5:45 p.m.

MOPC17 | Neonicotinoid insecticides in surface waters discharging into the Great Lakes of Southern Ontario, Canada | **Tamanna Sultana**, *Trent University, Canada*

MOPC18 | Occurrence and removal of antibiotics in municipal wastewater by conventional activated sludge (CAS) and membrane bioreactor (MBR) systems | **Karina Yew-Hoong Gin**, *National University of Singapore, Singapore*

MOPC19 | The effect of activated sludge conditions on micropollutants biodegradation and transformation products formation | **Lucia Gusmaroli**, *Catalan Institute for Water Research ICRA, Spain*

MOPC20 | Ciprofloxacin By-Products in Seawater Environment in the Presence and Absence of Gilt Head Bream | **Haizea Ziarrusta**, *University of the Basque Country UPV/EHU, Spain*

MOPC21 | Assessment of the occurrence and impact of polar pesticides in irrigation and drainage ditches at the Ebro River Delta cultivated area (NE Spain) | **Maria Vittoria Barbieri**, *Ins of Environ Assessment&Water Resch (IDAEA-CSIC), Spain*

MOPC22 | Degradation kinetics and degradation products of diclofenac with persulfate | **Kai Bester**, *Aarhus University, Denmark*

Mercury Biogeosciences – Fate, Effects and Policy (PC) | Michael Bank, Séverine Le Faucheur, Nelson O'Driscoll, Joao Canario

Discussion at 5:45 p.m.–6:15 p.m.

MOPC23 | Identifying, Characterising and Quantifying Atmospheric Mercury Sources Using Passive Air Sampling Networks | **Frank Wania**, *University of Toronto at Scarborough, Canada*

MOPC24 | Mercury trend as a possible result of changes in cod age distribution | **Anders Ruus**, *NIVA, Norway*

MOPC25 | Contributions from biomass burning to mercury emissions at Cape Point, South Africa | **Vernon Somerset**, *CPUT, South Africa*

MOPC26 | Building a predictive model for methylmercury photodemethylation in freshwater ecosystems | **Sara Klapstein**, *Acadia University, Canada*

MOPC27 | Polymer inclusion membranes followed by X-ray fluorescence analysis as a new methodology for mercury monitoring in natural waters at low concentration level | **Gemma Elias**, *University of Girona, Spain*

MOPC28 | Dissolved organic matter as a modifier of Hg bioavailability to phytoplankton | **Vera Slaveykova**, *University of Geneva, Switzerland*

Poster Sessions

Advances in environmental risk assessment of oil spills and offshore oil & gas operations (P) | Vince Palace, Gregg Tomy, Graham Whale

MO001 | An in-situ amphibian metamorphosis assay to evaluate oil spill-related toxicity in receiving freshwater systems | **Regina Krohn**, *University of Calgary, Canada*

MO002 | Applicability of risk based, tiered assessment of produced water discharge in Nigerian shallow offshore environment | **Mathijs Smit**, *Shell International, Netherlands*

MO003 | Assessment of the biological impact of using chemical dispersants to remediate oil spills in different environmental conditions using zebrafish embryos | **Amaia Orbea**, *University of the Basque Country, Spain*

MO004 | Behaviour and effects of a marine diesel oil in a semi-static exposure experiment using mussels (Mytilus spp.) from the Baltic Sea | **Raisa Turja**, *Finnish Environment Institute, SYKE, Finland*

MO005 | Biliary PAHs and enzymatic biomarkers in the teleost Eugerres brasilianus along four tropical estuaries in the Brazilian Northeast | **Paulo Carvalho**, *UFPE – Universidade Federal de Pernambuco, Brazil*

MO006 | Bioaccumulation of Sulfur and Nitrogen Containing Hydrocarbons in Petroleum Substances | **Thomas Parkerton**, *ExxonMobil Biomedical Sciences Inc., USA*

MO007 | Biochemical biomarkers and histopathology in juvenile Solea senegalensis for early warning assessment of marine ecosystem health | **Manuel Soto**, *University of the Basque Country, Spain*

MO008 | Biomarker and gene transcription variability in perch in reference sites used for biomonitoring studies | **Lars Förlin**, *University of Gothenburg, Sweden*

MO009 | Cellular and tissue-level biomarkers in mussels (Mytilus edulis) sampled in two different study areas in the Northern Atlantic | **Denis Fernández**, *ESTACIÓN MARINA DE PLENTZIA. UPV/EHU, Spain*

MO010 | Cytotoxicity of the WAF of naphthenic North Sea crude oil with and without dispersant in hemocytes of the marine mussel Mytilus galloprovincialis (L.) | **Miren Cajaraville**, *University of the Basque Country, Spain*

MO011 | Determination of inorganic cations and amines in wastewater, surface water, and neutralizing amine solutions by IC coupled with a single quadrupole MS | **Timothy Cross**, *Thermo Fisher Scientific, UK*

MO012 | Distribution and ecological risk assessment of palm stearin in coastal marine environments of Hong Kong after an accidental pollution in Pearl River Estuary, South China | **Kenneth Leung**, *The University of Hong Kong, Hong Kong*

MO013 | Ecological impacts of larvicidal oil on the marine ecosystem: Implications on its management | **Kenneth Leung**, *The University of Hong Kong, Hong Kong*

MO014 | Effects of a coastal oil spill on marine invertebrates and their potential to recover | **Sofia Silva**, *Instituto Politécnico de Leiria, Portugal*

MO015 | Effects of oil exposure on visual function in early life stage fishes | **Jason Magnuson**, *University of North Texas, USA*

MO016 | Effects of oil spill on coastal seaweed in the Arctic | **Susse Wegeberg**, *Aarhus University, Denmark*

MO017 | Effects of water accommodated fractions of crude oil on the Baltic Sea blue mussel Mytilus trossulus at different salinities | **Aino Ahvo**, *Finnisk Environment Institute, Finland*

MO | Monday Poster Presentations

MO018 | Multiple biomarkers on the estuarine guppy Poecilia vivipara to monitor two brazilian tropical estuaries | **Paulo Carvalho**, *UFPE – Universidade Federal de Pernambuco, Brazil*

MO019 | New methodology to determine BTEX in soil samples by HPLC-DAD | **Clóvis Lucio da Silva**, *UFABC, Brazil*

MO020 | Petroleum pollution of alluvial sediments near Sava river, Serbia | **Mila Ilic**, *IChTM, Serbia*

MO021 | Prey capture to male aggression: the role of ecologically relevant behaviours in the assessment of complex petroleum based contaminants | **Danielle Philibert**, *University of Alberta, Canada*

MO022 | Risk-Based Approach: Assessment of Offshore Discharge Waters | **Kirit Wadhia**, *National Oilwell Varco (NOV), UK*

MO023 | Risk-based assessment of produced water discharges – need for alignment | **Mathijs Smit**, *Shell International, Netherlands*

MO024 | Spatial and temporal analysis of the risks posed by total petroleum hydrocarbon and trace element contaminants in coastal waters of Kuwait | **Ernst Nicolaus**, *Cefas Lowestoft Laboratory, UK*

MO025 | Temperature-dependant toxicity of Napthenic North Sea crude oil WAF, dispersant and their mixture: Sea urchin bioassays | **Laura de Miguel**, *University of the Basque country UPVEHU, Spain*

MO026 | Temporal variability of acute toxicity of Produced Formation Water discharged from offshore platforms: The responses of sea bass (Dicentrarchus labrax L., 1758) larvae | **Livia Mariani**, *CNR-IRSA, Italy*

MO027 | Tentative identification of halogenated polycyclic aromatic hydrocarbons in biota | **Gregg Tomy**, *Department of Fisheries & Oceans, Canada*

MO028 | The experience with the use of biomarkers as Risk Indicators in Environmental Risk Assessment of oil based discharges offshore | **Steinar Sanni**, *International Research Institute of Stavanger, Norway*

MO029 | Tissue-level biomarkers and histopathological alterations in mussels (Mytilus trossulus) from the Baltic Sea exposed to water accommodated fractions of crude oil | **Manuel Soto**, *University of the Basque Country, Spain*

MO030 | Toxicity of diluted bitumen to freshwater fish and invertebrates | **Pierre Robidoux**, *AGAT Laboratories, Ltd, Canada*

MO031 | Toxicity of produced water from offshore oil production in Norway and corresponding polar and apolar fractions | **Andy Booth**, *SINTEF Ocean, Norway*

MO032 | Toxicokinetics of oil components in Arctic copepods | **Ida Beathe Øverjordet**, *SINTEF Materials and Chemistry, Norway*

MO033 | Two Dimensional Gas Chromatography for the analysis of polycyclic aromatic compounds and their alkylated homologues in environmental samples | **Gregg Tomy**, *Department of Fisheries & Oceans, Canada*

MO034 | Using the hagfish (Myxine glutinosa) to study biological effects of a wreck filled with chemical munitions | **Aino Ahvo**, *Finnisk Environment Institute, Finland*

Wildlife ecotoxicology: Laboratory dosing studies to field population assessments (P) | John Elliott, Veerle Jaspers, Emmanuelle Bonneris, Scott Glaberman

MO035 | Seabird-derived contaminants and genotoxicity in Collembola from the Arctic | **Silje Marie Kristiansen**, *University of Oslo, Norway*

MO036 | Higher contaminants and poorer condition in an Antarctic avian top predator from 2001 to 2013 | **Katrine Borga**, *Department of Bioscences, University of Oslo, Norway*

MO037 | Evaluation of malformations induced by a hospital effluent of Toluca (Estado de México) in Lithobates catesbeianus | **Hariz Islas-Flores**, *Universidad Autonoma del Estado de Mexico, Mexico*

MO038 | Monitoring fish health in a densely populated catchment in Central Germany | **Mona Schweizer**, *University of Tuebingen, Germany*

MO039 | Multigenrational toxicity of Fipronil to Folsomia candida | **Vanessa Menezes-Oliveira**, *University of São Paulo USP, Brazil*

MO040 | Fipronil effects on freshwater benthic algal communities | **María Rosa Pino**, *San Jorge University, Spain*

MO041 | Use of organophosphorus insecticides in agriculture lands, in a simple test birds says please no! | **Martin Emilo Pereda Solis**, *Universidad Juarez del Estado de Durango, Mexico*

MO042 | Implementation of a worst-case landscape scenario for population modelling of a fungicide applied in cereals | **Magnus Wang**, *WSC Scientific GmbH, Germany*

MO043 | Biomonitoring and validation of non-invasive samples for the analysis of metals in freshwater turtles from mining areas | **Jennifer Pareja Carrera**, *IREC-UCLM, Spain*

MO044 | An analysis of important life stages, exposure routes and test endpoints in amphibians and coverage by existing risk assessment regulatory requirements for plant protection products, part 1 | **Cecilia Berg**, *Uppsala University, Dept. of Environmental Toxicology, Sweden*

MO045 | European common frog (Rana temporaria) larvae show subcellular responses under field-relevant Bacillus thuringiensis var. israelensis (Bti) exposure levels used in mosquito control | **Stefanie Allgeier**, *University Koblenz-Landau, Germany*

MO046 | Influence of salinity and temperature on tadpoles of Xenopus laevis | **Isabel Lopes**, *University of Aveiro, Portugal*

MO047 | Effects of the exposure of larvas of Dendropsophus columbianus (Anura: Hylidae) to waters contaminated by anthropogenic activities in a river basin of the colombian andes | **Viviana Andrea Ramírez Castaño**, *Universidad de Caldas, Colombia*

MO048 | Risks for amphibians and reptiles by dermal exposure to pesticides | **Rachel Sharp**, *EFSA – European Food Safety Authority, Italy*

MO049 | Evaluating the Role of Fish as Surrogates for Amphibians in Ecological Risk Assessment | **Scott Glaberman**, *University of South Alabama, USA*

MO050 | Long-term survival of mancozeb exposed common vole populations from one to the following reproductive season | **Jan-Dieter Ludwigs**, *Rifcon GmbH, Germany*

MO051 | An analysis of important life stages, exposure routes and test endpoints in reptiles with regard to coverage by existing risk assessment regulatory requirements for pesticides | **Scott Weir**, *Queens University of Charlotte, USA*

MO052 | AmphiMove: Moving patterns and microhabitat selection of European anurans in agricultural landscapes | **Jan Sadowski**, *Julius Kuehn Institute, Germany*

MO053 | A quantitative AOP for activation of the aryl hydrocarbon receptor leading to early life stage mortality in amphibians and reptiles | **Anthony Schroeder**, *University of Minnesota-Crookston, USA*

MO054 | Do historically metal-exposed amphibian populations acquire resistance to lethal levels? | **Isabel Lopes**, *University of Aveiro, Portugal*

MO055 | Assessment of metal contamination levels and stress responses of endangered sea turtles of São Tomé and Principe | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*

MO056 | Ecotoxicology of Africa's three largest reptiles: POPs, metals, eggs, and eggshells | **Hindrik Bouwman**, *North-West University, South Africa*

MO057 | Improving knowledge flow: From consumer to environmental risk assessment | **Laura Villamar Bouza**, *EFSA – European Food Safety Authority, Italy*

MO058 | Increasing salinisation effects on Pelophylax perezi populations – Could historical exposure drive effects? | **Sara Costa**, *Universidade de Aveiro, Portugal*

MO059 | Wildfires effects on aquatic invertebrates organisms with in situ bioassays | **Nelson Abrantes**, *University of Aveiro, Portugal*

MO060 | Estrogenic effects of an Organophosphorous Flame Retardant (TCPP) on Edible Sea Urchin "Paracentrotus lividus" | **Pedro López**, *University of Vigo, Spain*

MO061 | Short-term effects of fluoxetine exposure on biomarker and behavioural responses of an estuarine fish | **Irina Duarte**, *MARE – Marine and Environmental Sciences Centre, Portugal*

MO062 | Assessment of PCDD/Fs, dioxin-like PCBs and PBDEs in Mediterranean striped dolphins | **Francesca Capanni**, *University of Trieste, Italy*

MO063 | Assessment of POPs in stranded sperm whales (Physeter macrocephalus) from the Mediterranean Sea | **Alice Bartalini**, *University of Siena, Italy*

MO064 | Biochemical and molecular responses to organic contaminants in bottlenose dolphins (Tursiops truncatus gephyreus) from southern Brazil | **Bárbara Righetti**, *Universidade Federal de Santa Catarina, Brazil*

MO065 | Monitoring Eleonora's falcon conservation status both at its breeding and non-breeding grounds, using biological (stress indices) and environmental data | **Vasiliki Tsarpali**, *University of Patras, Greece*

MO066 | Optimising design and analysis of acute effect field studies | **Ralf Dittrich**, *Tier3 Solutions GmbH, Germany*

MO067 | Assessing impacts of legacy pollutants on wildlife of the Trinity River (Texas, USA) using Neotropic Cormorants as indicator species | **Miguel Mora**, *Texas A&M University, USA*

MO068 | Tracking the effects of a neonicotinoid insecticide on songbird migration | **Christy Morrissey**, *University of Saskatchewan, Canada*

MO069 | A synthesis of the interactions between anticoagulant rodenticides and wildlife | **Richard Shore**, *Centre for Ecology & Hydrology (NERC), UK*

MO070 | Anticoagulant rodenticides in red kites (Milvus milvus) in Britain | **Richard Shore**, *Centre for Ecology & Hydrology (NERC), UK*

MO071 | Environmental determinants of the exposure to anticoagulant rodenticides in non-target species | **Jhon López-Perea**, *Instituto de Investigacion en Recursos Cinegeticos, Spain*

MO072 | Four years of NewRaptor: Results from in ovo exposure in model species and field sampling in raptors | **Veerle Jaspers**, *Norwegian University of Science & Technology, Norway*

MO073 | The potential of feathers as a biomonitoring tool for fluoxetine in wild birds | **Sophia Whitlock**, *Environment Department, University of York, UK*

MO074 | Field-effect studies as a suitable method to assess effects of plant protection products on free-living common voles (Microtus arvalis): A case study with the fungicide iprodione | **Silke Steiger**, *BASF SE, Agrarzentrum Limburgerhof, Germany*

MO075 | Monitoring NSAIDs in carrion and avian scavengers form Spain: Preliminary results after diclofenac registration for veterinary use | **Rafael Mateo**, *IREC-CSIC – UCLM, Spain*

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MO076 | Different approches comparison for evaluation of hypopharyngeal glands (HPG) in Honeybees (Apis mellifera L.) | **Natalia Lemańska**, *Institute of Industrial Organic Chemistry, Branch Pszczyna, Poland*

MO077 | Bird and mammal focal species for pesticide risk assessment in rice | **Martin Vallon**, *Rifcon GmbH, Germany*

MO078 | Non-invasive assessment by feathers of lead exposure and its relationship with stress hormones in bearded vultures from the Alps | **Rafael Mateo**, *IREC-CSIC – UCLM, Spain*

MO079 | Post mortem stability of phase I and II biotransformation enzymes in the liver of kelp gull Larus dominicanus | **Karim Hahn Luchmann**, *Santa Catarina State University, Brazil*

MO080 | Investigating thyroid disrupting effects of organohalogenated contaminants in White-tailed eagle nestlings | **Mari Løseth**, *The Norwegian University of Science and Technology, Norway*

MO081 | Assessment of exposure and effects of Hg levels in feathers of White-tailed eagles (Haliaeetus albicilla) and Northern goshawks (Accipiter gentilis) nestlings from Norway | **Pilar Gómez-Ramírez**, *University of Murcia, Spain*

MO082 | Thyroid-related gene expression, hormones, and thyroid gland histology in American kestrels exposed in ovo to two persistent organic pollutants, SCCPs and TBBPA-BDBPE | **Alexander MacLeod**, *University of Maryland, College Park, USA*

MO083 | Bioaccumulation of metals in bats: Non-lethal vs lethal sampling to assess risk | **Tiago Natal da Luz**, *University of Coimbra, Portugal*

MO084 | Metallic element composition of egg contents and eggshells of the Kelp Gull Larus dominicanus | **Jan van Aswegen**, *North West University (Potchefstroom Campus), South Africa*

MO085 | Heavy metals concentrations in Mediterranean Osprey eggs: Variations by location, habitat and egg constituent part | **Stefania Ancora**, *University of Siena, Italy*

MO086 | Interactive effects of vitamin E and BDE-47 yolk supplementation on morphology and oxidative status of yellow-legged gull embryos | **Beatrice De Felice**, *Università degli Studi di Milano, Italy*

MO087 | Sensitivity of freshwater pearl mussel juveniles (Margaritifera margaritifera) to different environmental and contamination factors | **Tiare Belamy**, *University of Bordeaux, France*

MO088 | Using population modelling to reduce uncertainty – an example of a herbicide | **Magnus Wang**, *WSC Scientific GmbH, Germany*

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MO089 | SETAC Wildlife Toxicology Interest Group | **John Elliott**, *Environment Canada, Canada*

LCIA method developments in a global perspective: Status and outlook (P) | Alexis Laurent, Rosalie Van Zelm, Ralph Rosenbaum, Heinz Stichnothe

MO090 | A tool to integrate consumer and environmental exposure in life cycle impact assessment | **Olivier Jolliet**, *University of Michigan, USA*

MO091 | Towards the integration of an Agent-based Model into LCA framework to assess dynamic indoor air quality | **Alice Micolier**, *University of Bordeaux, France*

MO093 | Adding the resource dimension to the WULCA framework on assessing freshwater use in LCA | **Ralph Rosenbaum**, *National Research Institute of Science and Technology for Environment and Agriculture – Irstea, France*

MO094 | Considering water and soil conservation works in Life Cycle Assessment: Focus on contour ridges and erosion impacts | **Meriem Jouini**, *Montpellier SupAgro, France*

MO095 | Impact of heavy metals on human toxicity using LCA: A case study for Walloon corn | **Sylvie Groslambert**, *University of Liège – Chemical Engineering, Belgium*

MO097 | Comparing ProScale Hazard Factors with USEtox Effect Factors for human toxicity | **Tomas Rydberg**, *IVL Swedish Environmental Research Institute, Sweden*

MO098 | Integrating the Use Phase Impacts of Building Materials into Near-Field LCA Characterization | **Olivier Jolliet**, *University of Michigan, USA*

MO099 | Combined use of Mixed-Integer Optimisation and Thermodynamic, Molecular and Charge Density attributes for predicting Life Cycle Production Impacts of Chemicals | **Raul Calvo-Serrano**, *Imperial College London, UK*

MO100 | Development of USEtox characterisation factors for micropollutants in effluents | **Emmanuel Maillard**, *ELSA-PACT Industrial Chair, France*

MO101 | Assessment of freshwater ecotoxicity with USEtox | **Marie-Claire Lot**, *CEHTRA, France*

MO102 | Advancing nutrient modelling in eutrophication methods for life cycle impact assessment | **Ashley Edelen**, *ORISE, USA*

MO103 | Land Use Change comprehensive framework in LCA for microalgae cultivation systems as emerging production option in the bio-economy | **Diego Marazza**, *University of Bologna, Italy*

MO104 | Application of LCIA water use methods to renewable energy systems in Spain | **Daniel Garrain**, *CIEMAT, Spain*

MO105 | Identification of methodological challenges remaining in the assessment of a water scarcity footprint | **Paula Quinteiro**, *University of Aveiro, Portugal*

MO106 | Filling the Gap of Overfishing in LCIA: Eco-factors for Global Fish Resources | **Regula Keller**, *Zurich University of Applied Sciences, Switzerland*

MO107 | Constructing life cycle inventories for the hydroelectric sector in Peru: Methodological considerations and environmental impacts | **Ian Vázquez-Rowe**, *Pontifical Catholic University of Peru, Peru*

MO108 | Global scale characterization factors for freshwater eutrophication from nitrogen and phosphorus emissions to water and soil | **Rosalie Van Zelm**, *Radboud University, Netherlands*

Building of large-scale inventories of emissions and resources and applications for environmental footprints of territories, nations and sectors (P) | Alexis Laurent, Mélanie Douziech, Serenella Sala

MO109 | Carbon and material footprint of consumption in Flanders – an input-output based assessment | **An Vercalsteren**, *VITO NV, Belgium*

MO110 | A cross-country analysis of relationship between economic structural change and CO2 emissions | **Kayoko Shironitta**, *Kyushu University, Japan*

MO111 | Influence of substance coverage on impacts from the electricity sector | **Alexandra Leclerc**, *DTU, Denmark*

MO113 | Mapping the carbon, air pollution, and biodiversity footprints of nations: A GIS + global supply chains | **Keiichiro Kanemoto**, *Shinshu University, Japan*

MO114 | LCA data machine applied | **Andreas Ciroth**, *GreenDelta, Germany*

MO115 | Static and dynamic modeling of high performance buildings: Comparison of average and marginal electricity mixes, a consequential effect on LCA results | **Harold Rickenbacker**, *University of Pittsburgh, USA*

MO116 | Life cycle framework for environmental assessment of public transport systems | **Amar Shinde**, *Indian Institute of Technology Bombay, India*

MO117 | Environmental impact assessment of rail freight intermodality in Belgium using the Life Cycle Assessment methodology | **Sylvie Groslambert**, *University of Liege, Belgium*

Modelling and monitoring of pesticides fate and exposure in a regulatory context (P) | Bernhard Gottesbueren, Laura Padovani, Giovannna Azimonti

MO119 | Quantifying visual assessment of kinetics – Development of an objective criterion to support visual assessment of SFO fits of parent soil degradation | **Johannes Witt**, *Bayer AG, Germany*

MO120 | "Southside" – Bridging the hemispheres – Global use of field trials based on ecoregion similarities between New Zealand, Chile and Europe | **Bernhard Gottesbueren**, *BASF SE, Germany*

MO121 | Residues of currently used pesticides in Central Europe arable soils: Status quo, reasons and consequences | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

MO122 | Does the TOXSWA model simulate reliable concentrations in FOCUS surface water scenarios for a single segment water layer ? | **Wim Beltman**, *Alterra Wageningen UR, Netherlands*

MO123 | Recent development of approaches for quantitative use of surface water monitoring data in aquatic exposure assessments | **Wenlin Chen**, *Syngenta Crop Protection, LLC, USA*

MO124 | Multi-year evaluations in the FOCUS Surface Water assessment – results of beta testing | **Denis Weber**, *Eurofins Regulatory AG, Switzerland*

MO125 | Spatial and temporal explicit catchment modelling in aquatic risk assessment using the modular framework CMF | **Sebastian Multsch**, *DR. KNOELL CONSULT GmbH, Germany*

MO126 | Determination of runoff and drainage triggers for PEC surface water using automated simulation with FOCUS models | **Barbara Kind**, *WSC Scientific GmbH, Germany*

MO127 | Quantitative exploitation of passive sampler data for pesticide mass flow calculation in catchments and exposure risk evaluation | **Tom Galle**, *Luxembourg Institute of Science and Technology, Luxembourg*

MO128 | Spatially distributed environmental fate modelling of terbuthylazine in a mesoscale agricultural catchment using passive sampler data | **Tom Galle**, *Luxembourg Institute of Science and Technology, Luxembourg*

MO129 | Recalibration and cross-validation of pesticide trapping efficiency equations for vegetative filter strips (VFS) using additional experimental data | **Stefan Reichenberger**, *DR. KNOELL CONSULT GmbH, Germany*

MO130 | VandA – Visualize and Assess: A tool for the pesticide risk mitigation in surface water | **Francesco Galimberti**, *ICPS International Centre for Pesticides and Health Risk Prevention, Italy*

MO131 | Selecting application dates for UK higher tier drainflow modelling: Comparing the FOCUS PAT and CRD PAT rules, and assessing the role of soil trafficability | **Jacqui Carnall**, *Cambridge Environmental Assessments, UK*

MO132 | Considering diffuse urban and agricultural sources of pesticides at the landscape and catchment scale | **Jacqui Carnall**, *Cambridge Environmental Assessments, UK*

MO133 | Calibration of passive samplers for the monitoring of chlordecone in French Caribbean rivers | **Hélène Budzinski**, *University of Bordeaux, France*

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MO134 | Temporal patterns of pesticide residues in four major river basins in Korea | **Chansub Kim**, *National Institute of Agricultural Sciences, South Korea*

MO135 | Occurrence of 14 representative pesticides in surface and ground waters of the State of São Paulo, the biggest sugarcane producer in Brazil | **Cassiana Raimundo**, *UNICAMP, Brazil*

MO136 | Exposure scenarios for aquatic risk assessment of pesticides in Brazil | **Bernhard Jene**, *BASF SE, Germany*

MO137 | Identification of Herbicide Source Areas and Spatial Variability of Dominating Transport Processes in a High Agricultural Intensity Catchment | **Hendrik Rathjens**, *Stone Environmental, Inc., USA*

MO138 | Pesticides in water and surface sediments from Douro River estuary (Portugal) – assessment of environmentally relevant mixtures using acute toxicity bioassays | **Maria João Rocha**, *ICBAS U.Porto, CIIMAR CIMAR LA, Portugal*

MO139 | Monitoring programme to investigate the presence of myclobutanil and its soil metabolite in Italian groundwater following use in pome fruit, stone fruit and vineyards | **Claudia Vaj**, *Dow AgroSciences Italia s.r.l., Italy*

MO140 | Identification of areas at risk of groundwater leaching in Italy for the fumigant 1.3-dichloropropene | **Claudia Vaj**, *Dow AgroSciences Italia s.r.l., Italy*

MO141 | Development of an European Tier 3+ Spatially Distributed Modelling Framework | **Gerco Hoogeweg**, *Waterborne Environmental, Inc., USA*

MO142 | Influence of aquifer parameters on groundwater residue concentrations | **Florian Hegler**, *DR. KNOELL CONSULT GmbH, Germany*

MO143 | Implications of Dataset Selection and GIS Processing on Modelling | **Gerco Hoogeweg**, *Waterborne Environmental, Inc., USA*

MO144 | Combining specific and public groundwater monitoring data as higher tier for pesticide regulatory risk assessment | **Arnaud Boivin**, *ANSES, France*

MO145 | Minimal variation in input parameters highly influences PEARL and PELMO results: How can these results be trustable? | **Sonia Ullucci**, *ICPS, Italy*

MO146 | European regulatory network on pesticide groundwater monitoring | **Anne Louise Gimsing**, *The Danish Environmental Protection Agency, Denmark*

MO147 | Overview of measured wash-off factors from experiments suitable to derive a refined input for FOCUS modelling | **Gerald Reinken**, *Bayer AG, Research & Development, Crop Science, Germany*

MO148 | Leaching and plant uptake of trifluoroacetic acid (TFA) under cropped outdoor conditions | **Gerald Reinken**, *Bayer AG, Research & Development, Crop Science, Germany*

MO149 | Investigating the variance of edge-of-field deposits of spray drift | **Henk Jan Holterman**, *Wageningen University & Research, Netherlands*

MO150 | Exposure assessment for edge-of-field watercourses next to tree nurseries regarding spray drift deposits | **Henk Jan Holterman**, *Wageningen University & Research, Netherlands*

MO151 | Investigating the exposure of residents to pesticides due to airborne spray drift | **Henk Jan Holterman**, *Wageningen University & Research, Netherlands*

MO152 | Risk assessment for consumers of co formulants used in Plant Protection Products. Case study of polymers | **Philippe Adrian**, *CEHTRA SAS, France*

MO153 | Dietary exposure to pesticide residues: The big picture | **Laura Villamar Bouza**, *EFSA – European Food Safety Authority, Italy*

MO154 | Exposure and Risk Assessment for Agricultural Applicator to Insecticide Flubendiamide during Cabbage Cultivation using Whole Body Dosimetry | **Jeong-Han Kim**, *Seoul National University, South Korea*

MO155 | Multi-year FOCUS Surface Water calculations: What do they mean for real regulatory cases? | **Dieter Schaefer**, *Bayer Crop Science, Germany*

MO156 | Effectiveness of grass buffer strips in reducing Spinosad runoff | **Stefan Otto**, *Italian National Research Council, Italy*

MO157 | EFSA's innovative guidance on the establishment of the residue definition for dietary risk assessment | **Renata Leuschner**, *EFSA – European Food Safety Authority, Italy*

Alternative Approaches to Animal Testing for Ecotoxicity Assessments (P) | Adam Lillicrap, Teresa Norberg-King, Mark Lampi

MO158 | Investigations on the bioconcentration of xenobiotics in the freshwater amphipod Hyalella azteca | **Christian Schlechtriem**, *Fraunhofer IME, Germany*

MO159 | Assessing Differences in Sensitivity to Aromatase Inhibitors Among Freshwater Fish Species | **Jonathon Doering**, *US EPA, USA*

MO160 | Fish scales as a tool for temporal biomonitoring of trace element concentrations | **Davide Vignati**, *CNRS, France*

MO161 | Assessing differences in sea turtle organ sensitivity using cell-based toxicity assays | **Kimberly Finlayson**, *Griffith University – Smart Water Research Centre, Australia*

MO162 | Comparison of rat liver S9 to an animal-free alternative ewoS9R in the Ames fluctuation assay | **Julia Brendt**, *RWTH Aachen University, Germany*

MO163 | QSAR: A predictive approach for electronic cigarettes toxicological assessment | **Daniele Zarini**, *University of Insubria, Italy*

MO164 | Evaluation of QSAR models for daphnia and fish chronic toxicities of human pharmaceuticals | **Takashi Yamada**, *National Institute of Health Sciences, Japan*

MO165 | Optimization and Accessibility of the Eco – Database and the Ecotoxicological Threshold of Concern (ecoTTC) tool | **Ryan Otter**, *Middle Tennessee State University, USA*

MO166 | Using toxicokinetic and toxicodynamic modelling to predict effects of chronic toxicity on rodent growth based on in vitro assays | **Thomas Martin**, *Environment Department, University of York, UK*

MO167 | Screening of metabolic – and neurotoxicity of environmental chemicals using C. elegans and transgenic zebrafish models | **Nivedita Chatterjee**, *University of Seoul, South Korea*

MO168 | In vitro effects of two pesticides on the motility and viability of bovine spermatozoa | **Isabel Lopes**, *University of Aveiro, Portugal*

MO169 | Assessing the bioaccumulation potential of several pharmaceuticals using fish S9 and hepatocyte assays | **Lisa Constantine**, *Pfizer, Inc., USA*

MO170 | Chemoavailability of Organic Electrophiles – A Nonanimal Approach to Identify Candidates for Reactive Toxicity | **Alexander Böhme**, *UFZ – Helmholtz Centre for Environmental Research, Germany*

MO171 | Local Electrophilicity Describes Experimental Glutathione Reactivity and Aquatic Toxicity toward Tetrahymena pyriformis | **Gerrit Schuurmann**, *Helmholtz centre for environmental research – UFZ, Germany*

MO172 | Using mechanisms of toxic action to classify and predict ester ecotoxicity | **Pascal Bicherel**, *KREATiS, France*

MO173 | Nanosecond pulsed electric field incorporation technique to predict molecular mechanisms of teratogenicity and developmental toxicity on fish embryos | **Koji Arizono**, *Prefectural University of Kumamoto, Japan*

MO174 | Moving 3D in vitro intestinal models forward: Transcriptomic characterization of the RTgutGC cell line | **Laura Langan**, *School of Biological Sciences Plymouth University, UK*

MO175 | Impact of test concentration on the in vitro intrinsic clearance using trout liver S9 fractions to predict the bioaccumulation potential of fragrance chemicals | **Heike Laue**, *Givaudan Schweiz AG, Switzerland*

MO176 | Biological effects of 3 metals on "D" larvae of japonese oyster Crassostrea gigas | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO177 | Toxicity effects caused by exposure to Dichlorvos in organisms of different trophic levels | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO178 | Characterising estrogenic activity of arctic char tissue extracts in two fish in vitro bioassays | **Karina Petersen**, *NIVA – Norwegian Institute for Water Research, Norway*

MO179 | Ultrasound: A novel approach to non-lethally measure hepatosomatic index in sentinel fish for environmental monitoring programs | **Vince Palace**, *IISD-Experimental Lakes Area, Canada*

MO180 | Weight of evidence for fish acute toxicity: A Bayesian network modelling approach | **Jannicke Moe**, *Norwegian Institute for Water Research (NIVA), Norway*

MO181 | Divergent immunomodulatory effects of cadmium between two murine innate immune cell models in vitro, macrophages and mast cells | **Diego Garcia**, *Wageningen University & Research, Netherlands*

MO182 | Changes in protein expression of primary sea turtle cells exposed to contaminants indicate the potential for in vitro proteomics as a high throughput tool to support biomarker discovery | **Stephanie Chaousis**, *Griffith University – Smart Water Research Centre, Australia*

MO183 | Baseline vs. Reactive Toxicity toward the Nematode C. elegans as Alternative Bioassay | **Sumaira Saleem**, *UFZ Helmholtz Centre for Environmental Research, Germany*

MO184 | Oxidative Activation of Pro-Electrophiles Mediated by an Fe-loaded Zeolite – A Nonanimal Tool for Mimicking Phase I Metabolism | **Johannes Moldrickx**, *Helmholtz centre for environmental research – UFZ, Germany*

MO185 | Integrated assessment of aquatic ecotoxicity for regulatory purposes | **Annegret Biegel-Engler**, *German Environment Agency – UBA, Germany*

MO186 | An integrated testing strategy to fill data gaps for environmental risk assessment of iso-alcohols | **Gail Bragin**, *ExxonMobil Biomedical Sciences, Inc., USA*

MO187 | Looking for an alternative to glyphosate-based herbicides | **Dominik Rünzler**, *University of Applied Sciences Technikum Wien, Austria*

MO188 | Chemoassay Profiling of Salicylates to Assess Their Reactive Toxicity | **Alexander Böhme**, *UFZ – Helmholtz Centre for Environmental Research, Germany*

MO189 | Membrane-water partition coefficients to aid ionogenic surfactant risk assessment | **Steven Droge**, *University of Amsterdam/IBED Institute, Netherlands*

MO190 | The Xenopus Embryonic Thyroid Signalling Assay (XETA) for assessment of effluents contamination in thyroid active molecules | **Andrew Tindall**, *Watchfrog S.A., France*

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MO191 | Advances on locomotion detection of Daphnia magna, Artemia franciscana and Paramecia caudatum | **Elias Salzer**, *University of Applied Sciences Technikum Wien, Austria*

MO192 | Validation of the in silico prediction tool for toxicity of Algae by pharmaceuticals in environment | **Akihiko Hirose**, *National Institute of Health Sciences, Japan*

MO193 | SeqAPASS to Evaluate Conservation of High-Throughput Screening Targets Across Non-Mammalian Species | **Carlie LaLone**, *U.S. EPA, USA*

MO194 | In silico site-directed mutagenesis informs species-specific predictions of chemical susceptibility derived from the Sequence Alignment to Predict Across Species Susceptibility (SeqAPASS) tool | **Jonathon Doering**, *US EPA, USA*

MO195 | Survival and Teratogenic Evaluation of 91 compounds with environmental impact | **Simone Calzolari**, *ZeClinics, Spain*

MO196 | MPA – an alternative for the standard procedure of Ames Test | **José Ricardo Rossetto Martins Zwarg**, *School of Technology, UNICAMP, Brazil*

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MO197 | SETAC Animal Alternatives Interest Group | **Adam Lillicrap**, *NIVA Norwegian Institute for Water Research, Norway*

Bioavailability and realistic risk assessment of organic chemicals (P) | John Parsons, José Julio Ortega-Calvo, Joop Harmsen, Steven Droge

MO198 | The necessity of OASIS bead and polyethersulfone membrane extraction for the Polar Organic Chemical Integrative Samplers (POCIS) calibration: A case study for alkylphenol monitoring in produced water | **Ludovica Silvani**, *Norwegian Geotechnical Institute, Norway*

MO199 | In situ passive sampling methods to measure freely dissolved concentration of PAHs in contaminated soil: Comparison with ex situ measurements and evaluation over one year | **Thomas Bucheli**, *Agroscope ART, Switzerland*

MO200 | Bioaccumulation of native and spiked p,p´ – DDE by Eisenia andrei in y-sterilized and non-sterilized soils | **Lucia Skulcova**, *Masaryk University, Czech Republic*

MO201 | Dissipation in soil and bioavailability to earthworm of two fungicides: Comparison of laboratory and field experiments | **Sylvain Bart**, *INRAAgroParisTech, France*

MO202 | Experimental assessment of specific plant uptake factor of 1,2,4-triazole with different concentrations in wheat | **Raquel Faraldo-Alonso**, *Innovative Environmental Services (IES) Ltd, Switzerland*

MO203 | LFER Models for Partition Coefficients of Environmental Concern | **Ralph Kühne**, *Helmholtz centre for environmental research – UFZ, Germany*

MO204 | Influence of grain size on the bioavailability and bioaccumulation of sediment-associated cypermethrin to benthic invertebrates | **Jing You**, *Jinan University, China*

MO205 | Effect of suspended particle on polycyclic aromatic hydrocarbon (PAH) bioaccumulation by zebrafish (Danio rerio) | **Yawei Zhai**, *School of Environment, Beijing Normal University, China*

MO206 | Methods for Deriving Site-Specific Relative Bioavailability Factors from Animal Bioavailability Data | **Brian Magee**, *ARCADIS, USA*

MO207 | Accurate determination of adsorption coefficients for low adsorbing compounds – from experiment to result evaluation | **Thomas Richter**, *BASF SE, Agrarzentrum Limburgerhof, Germany*

MO208 | Evaluation of the swimming behavior and tactic response to atrazine of the Pseudomonas sp. strain ADP | **Ludovica Rolando**, *Instituto de Recursos Naturales y Agrobiología de Sevilla, Italy*

MO209 | The influence of biochar on the toxic effects of imidacloprid to the lifecycle parameters of Eisenia fetida | **Ngitheni Nyoka**, *University of the Free State, South Africa*

MO210 | Chlordecone elimination kinetics in ewes | **Agnès Fournier**, *Université de Lorraine UL, France*

MO211 | Development and validation of QuEChERS extraction methods with or without enzymatic pretreatment to analyze chlordecone and its metabolites by HPLC-MS/MS in urine and feces of ewes | **Agnès Fournier**, *Université de Lorraine UL, France*

MO212 | Organic Contaminants in High Mountain Areas: Where and When to find them?? | **Oliver Machate**, *Helmholtz centre for environmental research – UFZ, Germany*

MO213 | Pesticide occurrence in different apicultural matrices (honey bees, wax and pollen) | **Maria Jesús Andrés Costa**, *Universitat de Valencia, Spain*

MO214 | Adaptation requirements for the use of measured BCF for a realistic risk assessment of organic chemicals | **Sandrine Andres**, *INERIS, France*

MO215 | Assessing risks from PBT substances in surface waters: Possible alternatives to biota monitoring? | **Pippa Curtis-Jackson**, *Environment Agency (England and Wales), UK*

MO216 | Risk Associated with Alternative Cleaning Method for Carrot | **Priscilla Abara**, *Federal University of Technology Owerri, Nigeria*

Environmental risk assessment in time and space – new approaches to deal with ecological complexity (P) | Alessio Ippolito, Thomas Preuss, Domenica Auteri, Ivo Roessink

MO218 | Uncertainty concepts and misconceptions for landscape scale risk assessment | **Pernille Thorbek**, *Syngenta, UK*

MO219 | Concept for a regional geospatial landscape analyses to predict site specific vegetation covers | **Andreas Toschki**, *Research Institute gaiac, Germany*

MO220 | B-Rice: Bird focal species identification in rice paddy | **Flavio Marchetto**, *ICPS, Italy*

MO221 | A process-based population model for algae | **Maike Habekost**, *BASF Corporation, Germany*

MO222 | Population dynamics of a soil arthropod simulated using an individual based population model and established fate model data | **Dirk Nickisch**, *Rifcon GmbH, Germany*

MO223 | Dynamic modelling of fluxes of weathered polychlorinated biphenyls (PCBs) in soil: Column experiments vs. modelling approaches in realistic environmental conditions | **Chiara Maria Vitale**, *University of Insubria, Italy*

MO224 | Assessing the trait-based ecological vulnerability of aquatic invertebrates for phenol | **Jinhee Park**, *Gwangju Institute of Science and Technology, South Korea*

MO225 | Assessing and managing food-web effects of Plant Protection Products | **Klaus Swarowsky**, *German Environment Agency (UBA), Germany*

MO226 | Compensating for ecological risks of pesticides | **Klaus Swarowsky**, *German Environment Agency UBA, Germany*

Fish model species in human and environmental toxicology (P) | Jessica Legradi, Jorke Kamstra, Riccardo Massei

MO228 | Historical control data of the optimized Zebrafish Embryo Developmental Toxicity Assay (ZEDTA) | **Marysia Tobor-Kaplon**, *Charles River Laboratories Den Bosch, Netherlands*

MO229 | Optimization of the Zebrafish Embryo Developmental Toxicity Assay (ZEDTA) | **Marysia Tobor-Kaplon**, *Charles River Laboratories Den Bosch, Netherlands*

MO230 | Reliability of ecotoxicological studies in fish | **Hannah Wünnemann**, *Bavarian Environment Agency, Germany*

MO231 | Assessment of the relationship between heavy metal bioaccumulation and biomarker responses in Japanese dace inhabit in heavy metal contaminated river | **Hisato Takeuchi**, *Toyo University, Japan*

MO232 | Micronucleus test to evaluate effects of 4 metals on DNA damage of zebrafish Danio rerio | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO233 | Endocrine disruption effects of bisphenol S and bisphenol SIP in adult zebrafish (Danio rerio) | **Kyunghee Ji**, *Yongin University, South Korea*

MO234 | Oxidative Stress Induced by PAH Metabolism: Comparing Three Exposure Routes in Red Drum, Florida Pompano, and Southern Flounder to DWH surrogate oil | **Dana Wetzel**, *Mote Marine Laboratory, USA*

MO235 | Impact of PAH/oxy-PAH mixtures on heart development in zebrafish | **Virginia Cunha**, *Karolinska Institutet, Sweden*

MO236 | Induction of developmental cardiotoxicity in rainbow trout (Oncorhynchus mykiss) following PAH mixture exposure – new insights using an integrated OMICS approach | **Andreas Eriksson**, *University of Jyvaskyla, Finland*

MO237 | Assessment of the developmental cardiotoxicity of individual PAHs using integrated OMICS | **Cyril Rigaud**, *University of Jyvaskyla, Finland*

MO238 | Developmental Toxicity of a Non-steroidal Anti-inflammatory Drug (Acetaminophen), in African Catfish (Clarias gariepinus) embryos | **Lawrence Ezemonye**, *University Benin, Nigeria*

MO239 | In vitro approach for the identification of early warning biomarkers, related to exposure to PBDEs, in human and marine systems: Oxidative stress, toxicity and cell cycle modulation | **Concetta Messina**, *UniPa, Italy*

MO240 | In silico estimate of affinity constants for perfluorinated compounds in rainbow trout (Oncorhynchu mykiss) proteins | **Davide Degli Esposti**, *Irstea, France*

MO241 | Impact of metformin on zebrafish (Danio rerio) embryos | **Susanna Mieck**, *University of Heidelberg, Germany*

MO242 | Pyrogallol and its structurally related compounds on animal cytochrome c oxidase activity | **Yong-Chan Kim**, *Kyungpook National University, South Korea*

MO243 | Exposure to environmental concentrations of Triclosan induces oxidative stress and genotoxicity on zebrafish (Danio rerio) embryos | **Camilla Carla Parenti**, *University of Milan, Italy*

MO244 | Comparative study of acute toxicity of a Microcystis aeruginosa bloom containing microcystin-LR on common carp Cyprinus carpio and Wistar rat | **Zaidi Hadjer**, *Laboratory of Biodiversity and Ecosystem Pollution, University of El Tarf, Algeria*

MO245 | Subchronic toxicity of a Microcystis aeruginosa bloom extract containing mainly the microcystin-LR congener on the common carp Cyprinus carpio | **Riad Bordj**, *Laboratory of Biodiversity and Ecosystem Pollution, University of El Tarf, Algeria*

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MO246 | Diluted bitumen vs. conventional crude oil: Effects of developmental exposure on first – and second-generation zebrafish | **Danielle Lyons**, *University of Alberta, Canada*

MO247 | Effect of skatole and its metabolites on piscine Phase I metabolism | **Vladimir Zlabek**, *University of South Bohemia in Ceske Budejovice, Czech Republic*

MO248 | Linkage of gene expression patterns with in vivo endpoints: Gaining deeper insights | **Armin Zenker**, *University of Appl. Sc. Northwestern Switzerland, Switzerland*

MO249 | New insights on cross-species differences in the modulation of human and zebrafish nuclear receptors by single chemicals and environmental mixtures | **Nicolas Creusot**, *Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland*

MO250 | Combining acute toxicity, toxicokinetics and metabolomics approaches to assess the effects of triclosan in zebrafish embryos | **Dimitrios Damalas**, *National and Kapodistrian University of Athens, Greece*

MO251 | Isoprostanes in fish mucus – a non-lethal biomarker for oxidative stress | **Gregg Tomy**, *Department of Fisheries & Oceans, Canada*

MO252 | Validation of in ovo embryo microinjections to simulate maternal transfer of selenomethionine in the fathead minnow (Pimephales promelas) | **Taylor Lane**, *University of Saskatchewan, Canada*

MO253 | Preliminary characterization of the rainbow trout intestine using omics based approaches | **Laura Langan**, *School of Biological Sciences Plymouth University, UK*

MO254 | Persistent organic pollutants alter the expression patterns of epigenetic factors in the Zebrafish Liver (ZF-L) Cell line | **Melanie Blanc**, *Örebro Universitet, Sweden*

MO256 | Cross-species applicability of the adverse outcome pathway "deiodinase inhibition leading to impaired swim bladder inflation in zebrafish" | **Evelyn Stinckens**, *University of Antwerp, Belgium*

MO257 | Zebrafish responses to the fourth-generation progestin drospirenone exposures | **Carla Quintaneiro**, *Department of Biology & CESAM – University of Aveiro, Portugal*

MO258 | Fish caging experiment as a tool for detection of in situ effects of untreated wastewaters: General stress and endocrine disruption | **Dina Tenji**, *University of Novi Sad Faculty of Sciences, Serbia*

MO259 | Gene transcription ontogeny of hypothalamic-pituitary-thyroid axis development in early-life stage fathead minnow and zebrafish | **Lucia Vergauwen**, *University of Antwerp, Belgium*

MO260 | Skin vitellogenin and estrogen receptor as sensitive biomarkers of estrogenicity in a sub-Antarctic fish | **Maria Florencia Ferreira**, *Universidad de Buenos Aires, Argentina*

MO261 | Thyroid disruption and its effects on neuronal development of zebrafish | **Ann-Cathrin Haigis**, *RWTH Aachen University, Germany*

MO263 | Identification of toxicity pathways predicting adverse outcomes of chlorpyrifos in fathead minnows | **Kerstin Bluhm**, *University of Saskatchewan, Canada*

MO264 | Evaluation of the deleterious effect of 2 pesticides on juveniles of the zebrafish Danio rerio | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO265 | Effects of Omeprazole on zebrafish embryos (Danio rerio) | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

MO266 | The neurotoxic effects of Venlafaxine on zebrafish larvae – Omics technologies in the focus of global environmental challenges | **Michael Gundlach**, *RWTH Aachen University, Germany*

MO267 | Acute effects of the ayahuasca infusion (Banisteriopsis caapi and Psychotria viridis) on zebrafish and rodent models | **Thayres Andrade**, *Universidade de Brasilia, Brazil*

MO268 | Chronic exposure to fluoxetine affects growth, feeding, swimming behavior and tissue organization of zebrafish | **Natalia de Farias**, *University of Brasilia, Brazil*

MO269 | Mitochondrial Disorders of Zebrafish Embryos Exposed to Individual Organochlorine Pesticides and Their Mixtures | **Hyojin Lee**, *Seoul National University of Science and Technology, South Korea*

MO270 | The NeuroBox Project | **Jessica Legradi**, *Vrije Universiteit Amsterdam, Netherlands*

MO271 | Understanding the correlation between behavioural inter-individual variability and physiology/morphology in zebrafish larvae | **Colette vom Berg**, *Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland*

Environmental fate of emerging contaminants in the water cycle: Analytical challenges and engineered solutions (P) | Bozo Zonja, Cristina Postigo, Kai Bester, Karin Wiberg

MO272 | Effect of iodinated X-ray contrast media in the formation of disinfection byproduts during chlorination and chloramination of water | **Cristina Postigo**, *IDAEA, CID-CSIC, Spain*

MO273 | The use of a polymer inclusion membrane for the determination of arsenate by gas-diffusion flow analysis with spectrophotometric detection | **Ruben Vera**, *University of Girona, Spain*

MO274 | Balancing environmental quality standards and infrastructure upgrading costs for the reduction of microcontaminants loads in rivers | **V Gimeno Melia**, *Catalan Institute for Water Research (ICRA), Spain*

MO275 | Calibration of passive samplers for the monitoring of drugs in French Caribbean | **Hélène Budzinski**, *University of Bordeaux, France*

MO276 | Passive sampling in surface water as an immission-based approach to extrapolate waste-water-related pressures and potential EQS exceedence in Luxembourg | **Tom Galle**, *Luxembourg Institute of Science and Technology, Luxembourg*

MO277 | Determination of Perchlorate by U.S. EPA Method 332.0 Using a Compact Ion Chromatography System Coupled with Mass Spectrometry (IC-MS) | **Timothy Cross**, *Thermo Fisher Scientific, UK*

MO279 | New opportunities for the non targeted analysis of environmental contaminants using gas chromatography – Orbitrap mass spectrometry | **Dwain Cardona**, *Thermo Fisher Scientific, USA*

MO280 | HILIC workflow strategy for the hidden target screening of very polar compounds in surface waters | **Stefan Bieber**, *Technical University of Munich, Germany*

MO281 | Analysis of Per/Polyfluoroalkyl Substances (PFAS) in Drinking Water using LC/MS/MS to meet USEPA 537 requirements | **Laszlo Toelgyesi**, *Agilent, USA*

MO282 | Optimisation of solid phase extraction parameters for the isolation and characterisation of benzodiazepines in wastewater | **Vernon Somerset**, *CPUT, South Africa*

MO283 | Monitoring source and drinking waters for Microcystins using online LC/MS/MS method | **Dwain Cardona**, *Thermo Fisher Scientific, USA*

MO284 | Development of a LC-MS/MS-based method for screening of non-targeted chemicals of potential concern in northern pike | **Stéphane Bayen**, *McGill University, Canada*

MO285 | Prioritising site-specific emerging contaminants in surface water based on LC-HRMS nontarget screening data | **Martin Krauss**, *Helmholtz centre for environmental research – UFZ, Germany*

MO286 | Analysis of Phenanthrene Transformation Products Using High-Resolution Mass Spectrometry Coupled to High-Performance Liquid Chromatography | **Mary Leonard**, *Oregon State University, USA*

MO287 | Strategies to monitor transformation products in the water cycle | **Stefan Kools**, *KWR Watercycle Research Institute, Netherlands*

MO288 | Application of high-resolution mass spectrometry to identifying chlorinated transformation products of aromatic emerging contaminants in wastewater | **Wen-Ling Chen**, *TUNGHAI University, Taiwan*

MO289 | Unravelling the potential of a partial nitritation/anammox biomass towards micropollutants biodegradation | **Lucia Gusmaroli**, *Catalan Institute for Water Research ICRA, Spain*

MO290 | Removal of pharmaceuticals in a biofilm reactor: Effects of manipulating co-degradation by carbon feeding on system performance | **Pedro Carvalho**, *Aarhus University, Denmark*

MO291 | Investigating inhibitory effect of anti-inflammatory pharmaceuticals on activated sludge | **Didem Okutman-Tas**, *Istanbul Technical University, Turkey*

MO292 | Elimination of tramadol and methadone in model ozonation experiments: Removal kinetics and identification of transformation products | **Petra Kostanjevečki**, *Rudjer Boskovic Institute, Croatia*

MO293 | Fate and transformation of persistent priority contaminants during potable water reuse: The challenge of producing safe water | **Cassiana Raimundo**, *UNICAMP, Brazil*

MO295 | Evaluation of a nano-adsorbent for the removal of metallic carcinogens from wastewater | **Vernon Somerset**, *CPUT, South Africa*

MO296 | WATER JPI Project FRAME: A novel framework to assess and manage contaminants of emerging concern in indirect potable reuse | **Sara Valsecchi**, *Water Research Institute – Italian National Research Council IRSA-CNR, Italy*

MO297 | Evaluation of Rainwater collected from Concrete underground tank and other stroage tanks in Owerri Imo State, Nigeria | **Adaobi Okeke**, *University, Nigeria*

MO298 | Sewage Epidemiology: Investigating the Impact of Phthalates on Human Health | **Catherine Allen**, *Dublin City University, Ireland*

MO299 | Phthalates and their metabolites in the environment | **Catherine Allen**, *Dublin City University, Ireland*

MO300 | Poly – and perfluoroalkyl substances (PFASs) in the sewage system of the Bordeaux city: High contribution of unidentified precursors of perfluoroalkyl acids | **Hélène Budzinski**, *University of Bordeaux, France*

MO301 | Antibiotics and endocrine disrupting compounds in wastewater treatment plants and in receiving water bodies around the city of Rome (Italy) | **Luisa Patrolecco**, *Water Research Institute-National Research Council, Italy*

MO302 | Mass flows of antimicrobial compounds in Swedish sewage treatment plants | **Marcus Östman**, *Umea University, Sweden*

MO303 | Herbicides and fungicides in watersheds of agricultural regions of Ontario | **Tamanna Sultana**, *Trent University, Canada*

MO305 | A Study on the Distribution and Behavior of Nonylphenol in the Suyeong River, Korea | **Dong-Myung Kim**, *Pukyong National University, South Korea*

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MO306 | Drugs of abuse distribuiton in Turia River based on geographic information and ecotoxicological assessment | **Maria Jesús Andrés Costa**, *Universitat de Valencia, Spain*

MO308 | Occurrence, fate and environmental risk assessment of benzophenone-type UV filters in a tropical urban watershed | **Karina Yew-Hoong Gin**, *National University of Singapore, Singapore*

MO309 | Formation of disinfection byproducts throughout various drinking water treatment processes | **Cristina Postigo**, *IDAEA, CID-CSIC, Spain*

MO310 | Formation of N-nitrosodimethylamine during water treatment for potable use: An update | **Bogdan Slencu**, *University of Medicine and Pharmacy Grigore T. Popa Iasi, Romania*

MO311 | Presence and environmental hazard of psychoactive pharmaceutical compounds in coastal waters and biota from North-Western Spain | **Cristina Postigo**, *IDAEA, CID-CSIC, Spain*

MO312 | Determination of glyphosate and AMPA in fish bile from the Marne River, France | **Helene Blanchoud**, *EPHE UMR 7619, France*

MO313 | From source to food: Following emerging pollutants | **Thomas Dodsworth**, *The University of Nottingham, UK*

MO314 | Psycoactive compounds in mussels: Analytical method development and occurrence assessment | **Ester Garcia**, *IDAEA-CSIC, Spain*

New Horizons in Particulate Polymer Analysis: Micro – and Nanoplastics and Tire Rubber Detection, Characterisation and Impacts in the Environment (P) | Ana I Catarino, Maya Al Sid Cheikh, Farhan Khan

MO315 | MPHunter: A dedicated software for µFTIR-Imaging Microplastic data analysis. First development steps and future perspectives | **Alvise Vianello**, *Aalborg University, Denmark*

MO316 | From alpine regions to dense populated areas: A comparison of microplastic contamination between 15 rivers across Germany | **Christian Laforsch**, *University of Bayreuth, Germany*

MO317 | Analytical approach for the identification and quantification of microplastic particles in environment samples by particle analysis in combination with FTIR and Raman microscopy | **Dieter Fischer**, *Leibniz-Institut f. Polymerforschung Dresden, Germany*

MO318 | Using pyrolysis GC-MS in combination with multivariate tools to identify and differentiate polymer type and weathering of microplastics | **Andy Booth**, *SINTEF Ocean, Norway*

MO319 | Marine Microplastic: Production and characterisation of realistic test materials for studying ecosystem impacts | **Andy Booth**, *SINTEF Ocean, Norway*

MO320 | Optimization of the preparation of standards of high density polyethylene microplastics and quantification techniques by stereoscopic and confocal microscopy | **Elisa Rojo-Nieto**, *Cactymar-University of Cadiz, Germany*

MO321 | First Report of Microplastics in Pacific-side Arctic Ocean | **Seung-Kyu Kim**, *Incheon National University, South Korea*

MO322 | Analysing microplastics in samples of terrestrial systems | **Axel Mueller**, *Bundesanstalt für Materialforschung und –prüfung, Germany*

MO323 | Microplastics in Expanded Global Table Salt Product Samples and its implication | **Seung-Kyu Kim**, *Incheon National University, South Korea*

MO324 | Biodegradability of pristine and weathered car tire rubber using different inocula | **Fabio Polesel**, *Technical University of Denmark (DTU), Denmark*

MO325 | Evaluating sorption properties of tire materials using poly-parameter linear free-energy relationships (ppLFER) | **Thorsten Hüffer**, *University of Vienna, Austria*

MO326 | Particle toxicity in the daggerblade grass shrimp (Palaemonetes pugio): Micronized tire wear particles and microplastics | **John Weinstein**, *The Citadel, USA*

MO327 | Acute and chronic toxicity of micronized tyre rubber to Hyalella azteca | **Farhan Khan**, *Roskilde University, Denmark*

MO328 | Acute and chronic effects on Hyalella azteca and chemical analysis of rubber particles and leachate – comparison of pristine micronized car tire to previous data on worn car tire particles | **Louise Halle**, *Roskilde University, Denmark*

MO329 | Applying nuclear techniques to study the biokinetics and toxicodynamics of microplastics and co-contaminants in marine biota | **Marc Metian**, *IAEA-EL, Monaco*

MO330 | Aggregation kinetics of plastic nanoparticles in fresh and marine phytoplankton culture media | **Zelie Venel**, *EPOC, University of Bordeaux, France*

MO332 | Mytilus spp. as sentinel species for water borne microplastic ingestion; a case study from the Norwegian coast | **Inger Lise Amy L. Lusher**, *Norwegian Institute for Water Research NIVA, Norway*

Mercury Biogeosciences – Fate, Effects and Policy (P) | Michael Bank, Séverine Le Faucheur, Nelson O'Driscoll, Joao Canario

MO333 | Influence of biofilm composition on mercury bioaccumulation | **Perrine Dranguet**, *University of Montreal, Canada*

MO334 | Gaseous elemental mercury concentration and diurnal evasional fluxes from the water-air interface in coastal environments of the northern Adriatic Sea | **Stefano Covelli**, *Dipartimento di Matematica e Geoscienze, Italy*

MO335 | Atmospheric mercury assessment: A contribution to global monitoring and effectiveness evaluation within the Minamata Convention | **Alessandra Fino**, *Italian National Research Council – Institute of Atmospheric Pollution Research (CNR-IIA), Italy*

MO336 | Assessment of Hg impacts on mountain river ecosystems | **Séverine Le Faucheur**, *Institute F.-A. Forel, University of Geneva, Switzerland*

MO337 | Mercury Photo-reduction and Total Photoreducible Mercury Dynamics in the Lakes of Kejimkujik National Park, Nova Scotia | **Nelson O'Driscoll**, *Acadia University, Canada*

MO338 | Influence of Avian Biovectors on Mercury Speciation in a Wetland | **Nelson O'Driscoll**, *Acadia University, Canada*

MO339 | Organohalogen and mercury residues in fish from the Western Mediterranean Sea: Concentrations, bioaccumulation and dietary exposure | **Eva Junqué**, *Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain*

MO340 | Mercury, Comercial Fish & Risk assessment: A Review study (1994-2015) | **Hugo Coelho Vieira**, *University of Aveiro, Portugal*

MO341 | Mercury concentrations in black bream from the Gippsland Lakes, Victoria, Australia | **Leon Metzeling**, *EPA Victoria, Australia*

MO342 | Mercury health risks due to the substitution of fish meat with shark meat | **Patricia Ramirez Romero**, *U.A.M. Iztapalapa, Mexico*

MO343 | Mercury in trophic webs of estuaries in South-Southeastern Brazil | **Tailisi Trevizani**, *Universidade de Sao Paulo, Brazil*

MO344 | Biological and Geochemical Drivers of Mercury Toxicity in Yellowknife, NWT, Canada | **Mija Azdajic**, *University of Ottawa, Canada*

MO345 | Use of green tea to reduce mercury and methylmercury bioaccessibility in raw and cooked fish | **António Marques**, *Portuguese Institute of Sea and Atmosphere IPMA, Portugal*

MO346 | Importance of a tidal flat-saltmarsh system as a source-sink of mercury in a contaminated coastal lagoon environment (northern Adriatic Sea) | **Elisa Petranich**, *University of Trieste, Italy*

MO347 | Main sources of mercury releases in Armenia | **Anahit Aleksandryan**, *Hazardous Substances & Waste Policy Division, Armenia*

MO348 | Spatial and temporal variation of mercury accumulation in Thelypteris hispidula in the upper Felidia river basin, Colombia | **William Alberto Correa Barragán**, *Universidad Nacional de Colombia, Colombia*

MO349 | Temporal integration of diurnal variations of metals and mercury concentrations by passive sampling method in a highly polluted site on the Deûle River, northern France | **Marie Bretier**, *Irstea Centre de Lyon – Villeurbanne, France*

MO350 | The effect of activated carbon amendment on mercury methylation in contaminated sediment | **Erlend Sormo**, *Norwegian Geotechnical Institute, Norway*

MO351 | Bayesian Human Health Risk Assessment of Almadén Mining Area | **David Bolonio**, *Universidad Politecnica de Madrid, Spain*

MO352 | Concentrations of mercury in two offshore skates: Sandy ray and shagreen ray | **Ernst Nicolaus**, *Cefas Lowestoft Laboratory, UK*

MO353 | EMPIR project "MercOx – Metrology for oxidised mercury" | **Ina Fettig**, *Federal Environment Agency (Umweltbundesamt), Germany*

MO354 | PBTK/TD assessment of mercury (Hg(II)) accumulation in freshwater tilapia species | **Chung-Min Liao**, *National Taiwan University, Taiwan*

MO355 | Mercury in fish, fish intake and fish consumption recommendation | **Hugo Coelho Vieira**, *University of Aveiro, Portugal*

Mechanistic effect modelling for risk assessment: Applications, use in a regulatory context and future directions (P) | Andreas Focks, Thomas Preuss, Alpar Barsi

MO356 | Ring-test of different implementations of the General Unified Threshold model of Survival (GUTS) | **Roman Ashauer**, *University of York, UK*

MO357 | Feeding impairment in fish explained by a TK-TD model | **Kim Ladermann**, *Research Institute gaiac, Germany*

MO358 | TK-TD modelling as additional line of evidence in the risk assessment for aquatic macrophytes: Chlorotoluron as a case study | **Judith Klein**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO359 | TK/TD modelling as a tiered approach to reveal interspecies variability of toxicity in fish | **Thomas Preuss**, *Bayer Ag, Germany*

MO360 | RIFCON EasyGUTS: Ready-to-use and freely available software for TK/TD modelling of survival | **Dirk Nickisch**, *Rifcon GmbH, Germany*

MO361 | A new test design to inform TKTD models on species sensitivity | **Eric Bruns**, *Bayer AG, Division Bayer CropScience, Germany*

MO362 | Impact of temperature on species sensitivity distribution in aquatic invertebrates | **Kim Ladermann**, *Research Institute gaiac, Germany*

MO363 | Lemna toxicokinetic and toxicodynamic (TK/TD) modelling – Impact of the ecological scenario on the risk assessment | **Simon Heine**, *Bayer Ag, Germany*

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MO364 | Defining ecological lake scenarios for population modelling as part of the Ecological Risk Assessment of chemicals | **Tido Strauss**, *Research Institute gaiac, Germany*

MO365 | The use of population models in copper risk assessment: A case study with Acipenser transmontanus | **Karel Vlaeminck**, *Arche consulting, Belgium*

MO366 | Comparison of toxic effects on Daphnia magna between a metal, a pesticide, and a PAH, in a toxicokinetic-toxicodynamic framework | **Karel Vlaeminck**, *Arche consulting, Belgium*

MO367 | Deriving predicted no-effect concentrations for perfluoroalkyl acids in the Po river ecosystem through a novel methodology based on the AQUATOX ecosystem model | **Andrea Gredelj**, *University of Padua, Italy*

MO368 | Incorporating spatially explicit metapopulation models as the endpoint of an Adverse Outcome Pathway-based Bayesian Network-Relative Risk Model | **Chelsea Mitchell**, *Washington State University, USA*

MO369 | Modeling and monitoring the effects on the central nervous system of a chronic exposure to low dose of pollutants: An innovative strategy with first results | **Thomas Claudepierre**, *URAFPA-INRA, France*

MO370 | A new classification method for mechanisms of toxic action | **Franklin Bauer**, *KREATiS, France*

Biocides and Veterinary Medicines: Latest developments in regulatory risk assessment, research and monitoring (P) | Fabienne Ericher, Jaana Laitinen, Jason Weeks, Anja Kehrer

MO371 | Biocide leaching from building facades: Pseudo-persistence in soil due to reoccurring emissions | **Ulla Bollmann**, *Aarhus University, Denmark*

MO372 | Biocides in facade coatings: Influence of pigments on the phototransformation of biocides | **Ulla Bollmann**, *Aarhus University, Denmark*

MO373 | New Developments in Environmental Emission Scenarios of Biocides – Rodenticides | **Eleonora Petersohn**, *German Environment Agency (UBA), Germany*

MO374 | New Developments in Environmental Emission Scenarios of Biocides – Preservatives for products during storage | **Katja Michaelis**, *German Environment Agency (UBA), Germany*

MO375 | Monitoring of Biocides in German Sewage Treatment Plant Effluents – First Results | **Christiane Meier**, *German Environment Agency (UBA), Germany*

MO376 | The 'risk envelope approach' applied to environmental risk assessments for disinfectants – a strategy to reduce workload for biocidal product families | **Sabine Navis**, *Arche consulting, Belgium*

MO377 | Are biocide emissions into the environment already at alarming levels? Recommendations of the German Environment Agency (UBA) for an approach to study the impact of biocides on the environment | **Korinna Pohl**, *German Environment Agency (UBA), Germany*

MO378 | A case study on exposure assessment of biocides in PPCP using exposure assessment models | **Minjeong Kim**, *KIST Europe, Germany*

MO379 | Hazard evaluation of biocides and its metabolites for the aquatic compartment | **David Hernandez-Moreno**, *INIA, Spain*

MO380 | Synchronous decreasing levels of imposex and tributyltin (TBT) in dogwhelk (Nucella lapillus) from Norway, 1991-2015 | **Merete Schøyen**, *Norwegian Institute for Water Research (NIVA), Norway*

MO381 | Risk assessment issues for algaecides under BPR | **Cyril Durou**, *CEHTRA SAS, France*

MO382 | Could a spatially distributed modelling approach enhance post approval considerations for veterinary medicines? | **Claire McMillan**, *Cambridge Environmental Assessments, UK*

MO383 | Are currently-adopted European guidelines on veterinary medicine product and feed additive risk assessment sufficiently cautionary? | **Andrea Di Guardo**, *Universita degli Studi di Milano-Bicocca, Italy*

MO384 | Quick scan to monitoring data of veterinary pharmaceuticals in the Netherlands | **Stefan Kools**, *KWR Watercycle Research Institute, Netherlands*

MO385 | Comparing methods for estimating environmental emissions | **Agnieszka Kowalczyk**, *SC Johnson EurAFNE Limited, UK*

IG **MO386** | SETAC Dung Organism Toxicity Testing Interest Group | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

Interpretation and uncertainty – overcoming challenges of translating LCA results into reliable information (P) | Gudrun Obersteiner, Michele De Rosa, Nicole Unger

MO387 | Recommendation on Steam Cracker allocation for the sake of comparability of petrochemicals products datasets used in LCA studies | **Guy Castelan**, *PlasticsEurope, France*

MO388 | Actual versus default inventory uncertainty in ecoinvent database | **Fernanda Belizario**, *Institute for Technological Research IPT, Brazil*

MO389 | Life cycle assessment of battery systems with harmonized life cycle inventories considering different storage applications | **Xiaojin Zhang**, *Paul Scherrer Institute, Switzerland*

MO390 | LCA of nano-adsorbents – Interpretation of laboratory results | **Stig Olsen**, *Technical University of Denmark, Denmark*

MO391 | Quantifying the influence of consumer behaviour on water, energy and greenhouse gas footprints of showering | **Sadegh Shahmohammadi**, *Radboud University, Netherlands*

MO392 | Recommendations on the Creation, Management and Use of Data Quality Information for Life Cycle Assessment | **Ashley Edelen**, *ORISE, USA*

MO393 | Site-specific N-emissions of rapeseed cultivation in Germany | **Heinz Stichnothe**, *Thünen Institute, Germany*

The environment as a reactor determining fate and toxicity of nanomaterials (P) | Susana Loureiro, Cornelis A M van Gestel, Iseult Lynch, Claus Svendsen

MO394 | Ecotoxicity and fate of Ag and CeO_2 nanomaterials in outdoor lysimeter experiments | **Karsten Schlich**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO395 | Long term effects of three different silver sulfide nanomaterials, silver nitrate and bulk silver sulfide on soil microorganisms and plants | **Karsten Schlich**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO396 | Influence of soil type on the toxicokinetics of Ag and Ag_2S nanoparticles and ionic Ag in soil invertebrates | **Cornelis A M van Gestel**, *Vrije Universiteit Amsterdam, Netherlands*

MO397 | Terrestrial isopods as models to assess the biotransformation of nanoparticles inside the organisms: An example with silver and gold nanoparticles | **Anita Jemec Kokalj**, *University of Ljubljana, Biotechnical Fac., Slovenia*

MO398 | Energy reserves and respiration rate in the earthworm Eisenia andrei after exposure to zinc in nanoparticle or ionic forms | **Zuzanna Swiatek**, *Institute of Environmental Sciences, Jagiellonian University, Poland*

MO399 | Evaluating the Cellular & Humoral Immune Responses of the Terrestrial Isopod, Porcellio scaber, to Gold Nanoparticles | **Craig Mayall**, *University of Ljubljana, Biotechnical Fac., Slovenia*

MO400 | Determining the comparative ecotoxicity of Cd/Te quantum dots with three different functional groups in three species of soil dwelling organisms | **Tarryn Botha**, *North-West University, South Africa*

MO401 | Assessment of the differential effects of transformation on the toxicity of nanomaterials with different size and coating propertiesto to soil bacteria and the nematode Caenorhabditis elegans | **Carolin Schultz**, *Centre for Ecology and Hydrology, UK*

MO402 | Toxic Effects of Silver Nanoparticles and Its Transformation Product in Soil Applied with Biosolid | **Emel Topuz**, *Istanbul Technical University, Turkey*

MO403 | Short-term induced molecular stress responses in coelomocytes of Eisenia fetida earthworms in vivo exposed to silver nanoparticles | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

MO404 | Effects of Cerium Nanoparticles with deferent surface-charge in coelomocytes of Eisenia fetida | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

MO405 | The uptake of pristine and aged silver nanoparticles by wheat, Triticum aestivum, in a soil exposure | **Amaia Green Etxabe**, *CEH Wallingford, UK*

MO406 | In vitro effects on Dendrobaena veneta coelomocytes of Ag and TiO_2 nanoparticles before and after wastewater treatment processes | **Anastasia Georgantzopoulou**, *Norwegian Institute for Water Research NIVA, Norway*

MO407 | Differential biomarker responses of Daphnia magna to pristine and wastewater borne silver nanoparticles | **Victor Galhano**, *Department of Biology & CESAM – University of Aveiro, Portugal*

MO408 | Outlining the behaviour and ecotoxicology of biomedical nanoparticles in natural waters | **Giacomo Grassi**, *University of Siena, Italy*

MO409 | Development of a method for the analysis of nanoparticles in the freshwater clam Corbicula fluminea | **Boris Meisterjahn**, *Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Germany*

MO410 | The aquatic ecotoxicity of a marketed nanosilver product – a direct comparison with ionic silver | **Katrien Arijs**, *ARCHE, Belgium*

MO411 | Investigations on the uptake pathway and accumulation of silver from manufactured silver nanoparticles in the freshwater amphipod Hyalella azteca | **Sebastian Kühr**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

MO412 | Ecotoxicity of silica and silver nanoparticles (ENPs) on hyporheic copepods as a function of their bioavailability by dissolved organic matter (DOM) and water hardness of environmental samples | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

MO413 | Long-term exposure of ZnO nanoparticles to freshwater microalgae cultivated in batch and semi-continuous mode | **Andriana Aravantinou**, *University of Patras, Greece*

MO414 | Effects of sunscreen-derived TiO_2 nanoparticles on freshwater and marine organisms | **Simona Schiavo**, *ENEA CR, Italy*

MO415 | Silver nanoparticles affect the early development of Tisbe battagliai: Pristine vs aged particles | **Anastasia Georgantzopoulou**, *Norwegian Institute for Water Research NIVA, Norway*

MO | Monday Poster Presentations

MO416 | Silver concentration in the haemolymph of a tropical marine amphipod fed with silver nanoparticles and silver chloride | **Monizze Vannuci-Silva**, *UNICAMP, Brazil*

MO417 | Toxic effects of multi-walled carbon nanotubes on bivalves: Comparison between functionalized and nonfunctionalized nanoparticles | **Lucia De Marchi**, *University of Aveiro, Department of Biology & CESAM, Portugal*

MO418 | Assessment of genotoxic and proiflammatory effects of different Silica and Titania Nanoparticles on human bronchial cells | **Anna Fresegna**, *Italian Workers Compensation Authority-INAIL, Italy*

MO419 | Transformations of engineered nanomaterials during wastewater treatment: The role of engineered surface coatings and the impact on environmental fate | **Mark Surette**, *Oregon State University, USA*

MO420 | Freshwater sediments as an environmental reactor: Defining biologically relevant fate parameters to provide context for nanomaterial bioaccumulation | **Richard Cross**, *University of Exeter, UK*

MO421 | Examining the role of TiO_2 nanoparticle surface transformations on transport and toxicity | **Alyssa Deline**, *Oregon State University, USA*

MO422 | Influence of organic compounds on the sulfidation kinetics of copper oxide nanoparticles | **Alexander Gogos**, *Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland*

MO423 | Evaluating spICP-TOF-MS for Exploring Environmental Nano-scale Processes | **Manuel Montaño**, *University of Vienna, Austria*

MO424 | Assessing potential risks of Nanodrugs and their delivery systems in fish using Light Sheet Microscopy | **Dylan Windell**, *University of Exeter, UK*

IG

MO425 | SETAC Nanotechnology Interest Group | **Claus Svendsen**, *CEH, Wallingford, UK*

Hydrophobic Chemicals and Mixtures: Reliable Investigations on their Environmental Fate and Effects (P) | Philipp Mayer, Felix Stibany, Josh Butler

MO426 | Effect of ageing on polycyclic aromatic hydrocarbon composition of biochar | **Gabriel Sigmund**, *Technische Universität München, Germany*

MO427 | Field testing of a new calibration approach for silicone passive samplers: Comparison of the concentration ratio method using samplers of different thicknesses with the PRC approach | **Hanna Fuchte**, *Institut fur Umweltforschung, Germany*

MO428 | Use of biochar for hexaclorocyclohexane sorption: A mechanistic approach | **Ludovica Silvani**, *Norwegian Geotechnical Institute, Norway*

MO429 | Development of a Method for Measurement Freely Dissolved Concentrations of Alkylated PAHs Using Solid Phase Microextraction with PDMS Fibers | **Mathias Reininghaus**, *RWTH Aachen, Germany*

MO430 | Spatial Distribution of HOCs on the Palos Verdes Shelf Superfund Site | **Allison Taylor**, *University of California Riverside, USA*

MO431 | PAHs in water and surface sediments from Douro River estuary and Porto Atlantic coast (Iberian Peninsula, North Portugal) — Risks for biota and human health? | **Maria João Rocha**, *ICBAS U.Porto, CIIMAR CIMAR LA, Portugal*

MO433 | Occurrence and availability of PACs and total AhR agonists in contaminated soils – Combining in vitro reporter gene assay and chemical analysis with passive sampling and column leaching | **Maria Larsson**, *Orebro University, Sweden*

MO434 | Verification of read-across for aquatic hazard properties of Petroleum Substances in REACH registrations | **Yves Verhaegen**, *CONCAWE, Belgium*

MO435 | Automated Solid Phase Microextraction (SPME) for measuring freely dissolved concentrations of hydrophobic chemicals in soils, sediments and other solid matrices | **Chiara Maria Vitale**, *University of Insubria, Italy*

MO436 | New approaches for determining solubility of volatile liquid chemicals | **Heidi Birch**, *DTU Environment, Denmark*

MO437 | Headspace passive dosing for dose-response testing of volatile hydrophobic organic chemicals | **Lam Trac**, *Technical University of Denmark, Denmark*

MO438 | Application of biomimetic solid phase microextraction to characterize aquatic hazard of petroleum substances | **Louise Camenzuli**, *ExxonMobil Petroleum and Chemical, Belgium*

MO439 | Bioaccumulation factors of synthetic musks and other hydrophobic contaminants in mangrove molluscs | **Stéphane Bayen**, *McGill University, Canada*

MO440 | Effect-based characterization of mixtures of environmental pollutants in sediments collected between the Arctic and Australia | **Annika Jahnke**, *Helmholtz Centre for Environmental Research – UFZ GmbH, Germany*

MO441 | Bioaccumulation of hydrophobic organic compounds in aquatic biota: Addressing current challenges for in tissue passive equilibrium sampling | **Elisa Rojo-Nieto**, *Helmholtz centre for environmental research – UFZ, Germany*

MO442 | Widespread occurrence of 4-Nonylphenol, BHT, and 2,4-DTBP in blue crab, Callinectes sapidus, megalopae in the northern Gulf of Mexico | **Susan Chiasson**, *Loyola University, USA*

MO443 | Real-time visualization and quantification of perylene bioaccumulation at single cell level | **Xuejun Guo**, *School of Environment, Beijing Normal University, China*

MO444 | Impregnation factors of freshwater fish by organic micropollutants in the Marne Hydrographic network | **Noëlie Molbert**, *UPMC UMR METIS 7619, France*

MO445 | Environmental occurrence and distribution of organic UV stabilizers in the sediment of the North and Baltic Seas | **Christina Apel**, *Helmholtz-Zentrum Geesthacht, Germany*

MO446 | Is Lake Como a "uniform lake"? Information from its inhabitants (zooplankton and fish) | **Sara Valsecchi**, *Water Research Institute – Italian National Research Council IRSA-CNR, Italy*

MO448 | Kinetic Sorption and Bioaccumulation of Hydrophobic Organic Chemicals in Marine Plankton Food Chain | **Fung-Chi Ko**, *National Museum of Marine Biology and Aquarium/ National Dong Hwa University, Taiwan*

MO449 | Do weathered multiwalled carbon nanotubes influence the distribution of the biocide triclocarban in a sediment-water system? | **Lena Benner**, *RWTH Aachen University, Germany*

MO450 | When technical limits triggers risk assessment for non-biodegradable insoluble pharmaceutical molecule | **Philippe Adrian**, *CEHTRA, Belgium*

MO451 | Effect of environmental characteristics on the bioavailability of hydrophobic organic compounds to fresh water organisms from natural aquatic systems | **Lies Teunen**, *University of Antwerp, Belgium*

MO452 | Personal care products (PCPs) in the southeastern coast of Brazil: Implementation of the analytical method and environmental occurrence | **Tatiane Combi**, *Instituto Oceanográfico da Universidade de São Paulo, Brazil*

MO453 | IFRA Environmental Standards and RIFM Safety Assessment Program Advances Update for 2018 | **Aurelia Lapczynski**, *RIFM, USA*

MO454 | Comparison of different sampling techniques for the identification fire effluents from low-density polyethylene burning | **Abdulrhman Dhabbah**, *King Fahad Security College, Saudi Arabia*

MO455 | PbTk modelling of super-hydrophobic chemicals | **Wolfgang Larisch**, *Helmholtz Centre for Environmental Research UFZ, Germany*

Migratory bird species at risk – the role of pesticides and other chemicals (P) | Nico van den Brink, Borja Heredia, Rafael Mateo, Richard Shore

MO456 | Main scientific gaps in knowledge of risk from pesticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Christine Bishop**, *Environment and Climate Change Canada, Canada*

MO457 | Main scientific gaps in knowledge of risk from rodenticides to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Philippe Berny**, *VETAGRO-SUP, France*

MO458 | Main scientific gaps in knowledge of risk from Pb ammunition and shot to [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Ruth Cromie**, *Wildfowl & Wetlands Trust, UK*

MO459 | Main scientific gaps on knowledge of NSAIDs [migratory] wildlife globally, and potential contribution of WTIG to CMS questions | **Mark Taggart**, *University of the Highlands and Islands, UK*

MO460 | Main scientific gaps on knowledge of deliberate poisoning to [migratory] wildlife globally | **Martin Odino**, *Independent Environmental Services Professional, Kenya*

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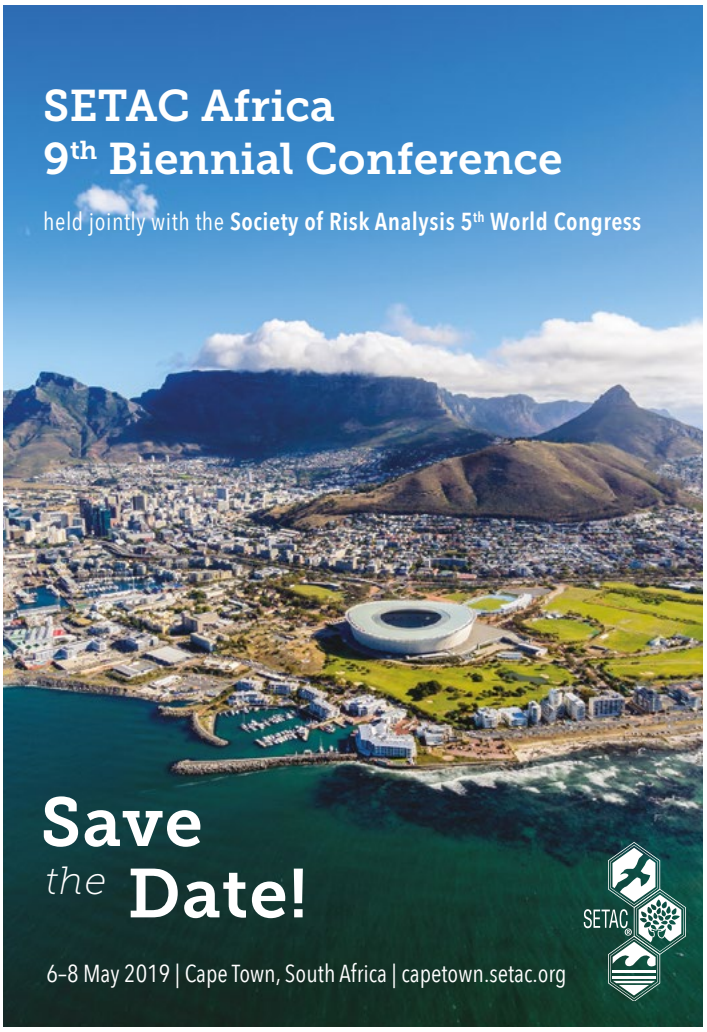

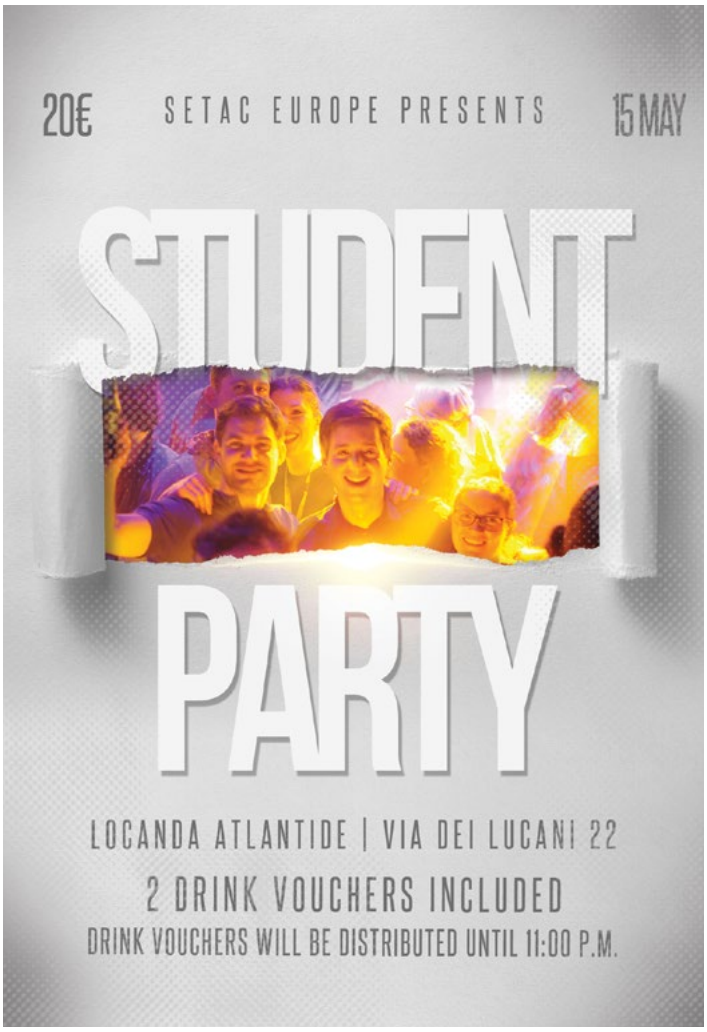

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TUESDAY 15 MAY

Daily Schedule		Location
7:30 a.m.–6:30 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
8:30 a.m.–10:05 p.m.	Platform Session *Morning 1*	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session *Morning 2*	
12:00 p.m.–2:30 p.m.	Fun Run	Registration Desk
12:25 p.m.–1:55 p.m.	Lunch Break and Poster Viewing	Exhibition Hall
12:25 p.m.–1:55 p.m.	Student Lunch Seminar	Workshop Room
1:55 p.m.–3:30 p.m.	Platform Session *Afternoon*	
3:30 p.m.–4:15 p.m.	Coffee Break & Poster Viewing	Exhibition Hall
4:15 p.m.–5:00 p.m.	Keynote Speaker Eugenia Dogliotti	Session Room A+B
5:15 p.m.–6:15 p.m.	Poster Social	Exhibition Hall
9:00 p.m.–3:00 a.m.	Student Party (ticket required)	Locanda Atlantide, Via dei Lucani 22

KEYNOTE SPEAKER

Tuesday, 15 May | 4:15 p.m.–5:00 p.m. | Session Room A+B

Innovative Research Issues in Environmental Mutagenesis

Eugenia Dogliotti

Istituto Superiore di Sanità, Italy

Dr. Eugenia Dogliotti is the Director of the Department of Environment and Health at Istituto Superiore di Sanità (National Institute of Health, ISS), the leading technical-scientific body of the Italian National Health Service. She graduated in Biology from the University of Rome. She was then trained in the field of molecular mutagenesis and DNA repair first at the Medical Biological Laboratory, TNO, Rijswijk (The Netherlands) and then at the Department of Applied and Biological Sciences, Massachusetts Institute of Technology (USA) where she was involved in pioneering work on the characterization of DNA damage and single-lesion mutagenesis in mammalian cells. As group leader at ISS she introduced the use of lesion-containing vectors to analyse DNA repair mechanisms achieving with her group the discovery of a new DNA repair pathway, the long-patch base excision repair. Because of these achievements, in 2015 she received the Frits Sobels Award that recognizes outstanding contributions to the field of environmental mutagenesis.

She has been President of the Italian Society of Environmental Mutagenesis (2004-2007) and of the European Environmental Mutagen Society (2007-2009). She is currently member of the Scientific Council of the International Agency for Research on Cancer (2016-2019).

Her major fields of research are the mechanisms of chemical mutagenesis and gene-environment interaction studies in human populations. She is the author of more than 140 papers in peer-reviewed international journals and books in the field of mammalian cell mutagenesis, DNA repair and genetic toxicology. She has extensive experience in risk assessment serving in national and international advisory boards.

TUESDAY 15 MAY

Satellite Meetings		Location
08:00 a.m.–09:00 a.m.	Sediment Interest Group	Meeting Room 7
08:00 a.m.–09:00 a.m.	Ad-hoc Group Science-Based Risk Communication	Meeting Room 10
08:30 a.m.–5:00 p.m.	Smithers Viscient Meeting Room	Meeting Room 2
09:00 a.m.–11:00 p.m.	Publications Advisory Committee	Meeting Room 6
10:30 a.m.–12:00 p.m.	Awards Committee	Meeting Room 1
12.00 p.m.–1:30 p.m.	Sustainability & Ecosystem Services Interest Groups Joint Meeting	Meeting Room 1
12:25 p.m.–1:55 p.m.	Thermo Scientific lunch seminar – From sample to knowledge: More than meeting regulations	Meeting Room 3
12:25 p.m.–1:55 p.m.	Freshwater Salinisation Interest Group	Meeting Room 7
12:25 p.m.–1:55 p.m.	Student Lunch Seminar	Workshop Room
1:30 p.m.–3:00 p.m.	Global Partner Council	Meeting Room 9
2:00 p.m.–4:00 p.m.	Prioritising Research Questions for the Mediterranean Region – Stakeholder meeting	Meeting Room 8
3:00 p.m.–4:00 p.m.	SETAC International Programmes Committee	Meeting Room 9
3:00 p.m.–4:30 p.m.	Certification Programme Committee	Meeting Room 1
4:00 p.m.–5:00 p.m.	Effect Modelling Interest Group	Session Room M
4:00 p.m.–5:30 p.m.	ECETOC/CEFIC LRI ECO 37 – Progress review Meeting	Meeting Room 6
4:00 p.m.–6:00 p.m.	Animal Alternatives Interest Group	Meeting Room 7
4:00 p.m.–6:00 p.m.	Cefic-LRI ECO20.2	Meeting Room 9
4:30 p.m.–6:00 p.m.	Endocrine Disrupter Testing & Risk Assessment Interest Group	Meeting Room 8
4:30 p.m.–6:00 p.m.	IT/UK Student networking event	Meeting Room 10
4:30 p.m.–6:30 p.m.	AMR Industry Alliance Science Team	Meeting Room 1
5:00 p.m.–6:30 p.m.	Pharmaceuticals Interest Group Steering Committee	Session Room O
5:15 p.m.–5:45 p.m.	CRA Information Session	Meeting Room 3
5:30 p.m.–6:30 p.m.	Life-Cycle Assessment Interest Group - Europe Steering Committee	Meeting Room 6
5:30 p.m.–7:00 p.m.	Soils Interest Group	Session Room N
5:45 p.m.–7:30 p.m.	SETAC Fellows' reception	Workshop Room

STUDENT LUNCH SEMINAR

Tuesday, 15 May | 12:25 p.m.–1:55 p.m. | Workshop Room

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Agniezka Hunka

Halmstad University, Sweden

Agnieszka works at Halmstad University, Sweden and has background experimental psychology and environmental science. For the last 8 years she has been working in interdisciplinary teams on (bio)technology acceptance, risk communication and risk/uncertainty perception in the risk assessment of chemicals. Currently her main research is in uncertainty-averse decisions and methods to reduce uncertainty in risk assessments. She is one of the founders of SCIRIC, the SETAC Europe Science and Risk Communication IG.

Tickets are distributed Tuesday morning at the registration desk.
First come, first served!

PROGRAMME HIGHLIGHTS

Special Session

Solutions for Emerging Pollutants: Towards a Holistic Chemical Quality Status Assessment in European Freshwater Resources

Tuesday, 15 May | 8:30 a.m.–3:30 p.m. | Session Room Q

Werner Brack
Helmholtz Centre for Environmental Research (UFZ), Germany

Rolf Altenburger
Helmholtz Centre for Environmental Research (UFZ), Germany

Jos van Gils
Deltares, Netherlands

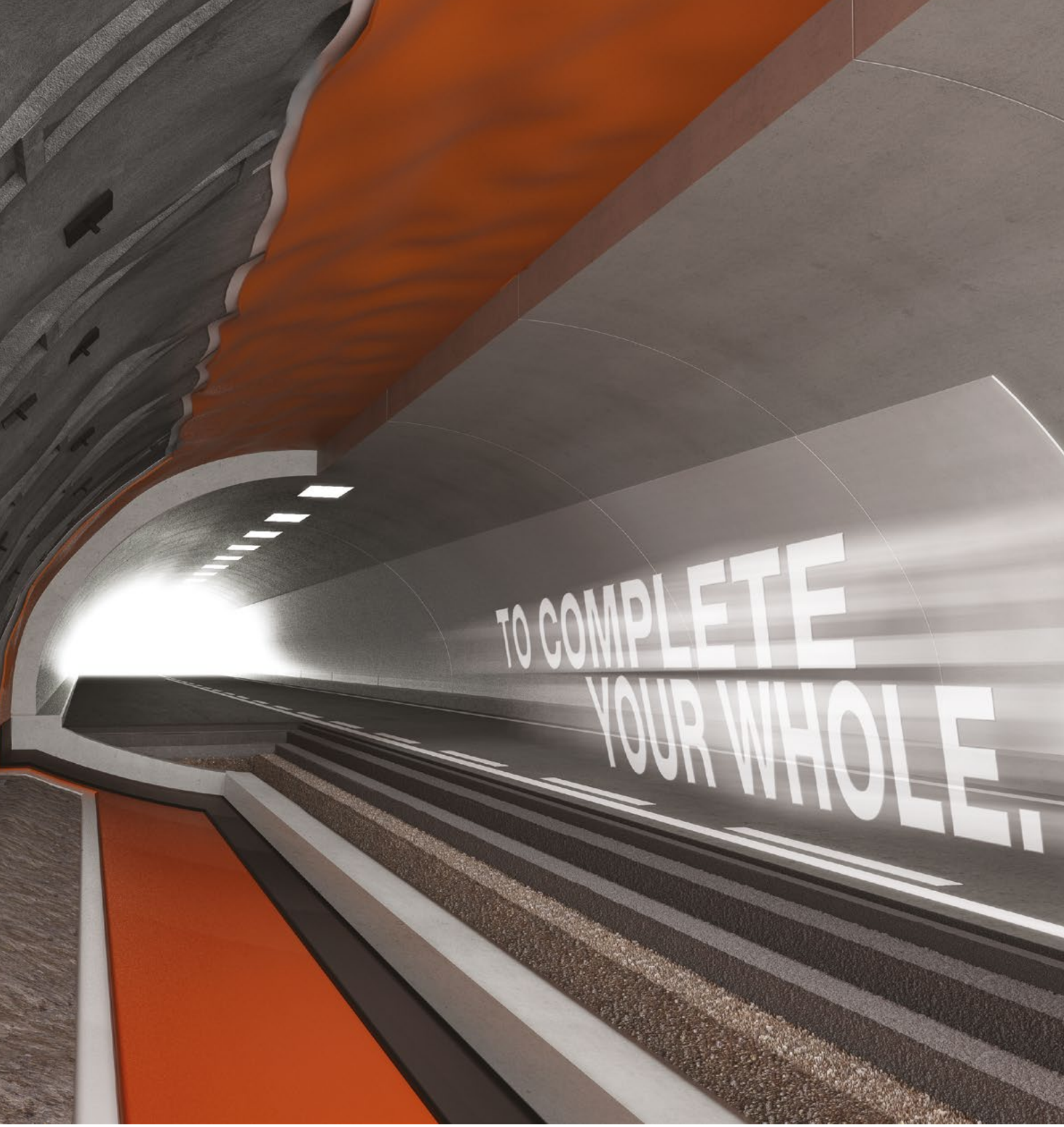
John Munthe
IVL Swedish Environmental Research Institute, Sweden

High quality freshwater resources are a key requirement for sustainable development in Europe, safe drinking water production and for the protection of aquatic ecosystems and their biodiversity, including downstream transitional and marine waters. While the Water Framework Directive defines a holistic ecological status to monitor and assess the quality of aquatic ecosystems, chemical status is defined in a very traditional way focusing on 45 so-called Priority Pollutants. Such regulatory approach based on maximum concentrations of individual substances in receiving water, sediments or biota may have advantages for commonly occurring pollutants with well-known toxicological properties but may have disadvantages concerning all the non-regulated (emerging) pollutants, the unknown substances, the unknown toxicological effects as well as any combination effect of mixtures. At the same time, compliance monitoring for all the priority pollutants may not represent the most efficient environmental management strategy considering occurrence of many substances frequently below the detection limits. A recent study in the process towards a non-toxic environment led by the European Commission highlights several environmental management issues and recommendations, i.e.,

- Improved identification and tracking of all substances meeting the criteria for SVHCs and including very persistent substances as well as substances of concern meeting other endpoints not yet adequately addressed, e.g., endocrine disrupters, neurotoxins, immunotoxins, and developmental toxins.
- Additional hazard identification and risk assessment processes that allow for more rapid screening and identification of potential chemicals of concern and that can cope more efficiently with the huge numbers of existing chemicals as well as the ever increasing numbers of new chemicals being invented and placed on the market;

Enormous scientific and technological progress has been achieved that leaves the restriction of chemical status assessment to consideration of only a few chemicals unnecessary. Effect-based and multi – and non-target chemical screening and European databases open new horizons for holistic monitoring. Pattern analysis offers scope to identify mixtures of concern related to specific sources and effects. New experimental and multivariate approaches could help to link (emerging) chemicals and mixtures to adverse effects and provide new tools for prioritization. Moreover, high-throughput integrated modelling is becoming capable to predict emissions, fate and transport, and exposure of and risks to aquatic ecosystems and human health for thousands of chemicals and all of Europe's rivers. Increasing knowledge on the efficiency of abatement options and packages thereof, exploited by integrated modelling, helps to find tailor-made solutions to minimize chemical footprints and toxic risks.

The proposed interdisciplinary session is fully in line with the goal of the conference "Responsible and innovative research for environmental quality" by presenting major innovation in holistic chemical quality status assessment. The session will demonstrate how the integration and mutual validation of such approaches could open new opportunities to achieve a non-toxic environment, and thus to address the Global Goals for Sustainable Development (SDGs) defined by the UN. The session invites and will bring together experts in effect-based monitoring, analytical chemistry, mixture assessment, exposure and effect modelling, abatement measures and science-policy interfacing, following the goal to address chemical contamination and toxic risks in European water resources as a whole. The session chairs will put specific efforts into the integration of European and national regulators and experts from industry and NGOs to maximize the impact of the new ideas. The contributions to this session are expected to range from technical innovation and cutting edge research via demonstration up to new ideas on implementation, decision making and regulation. The session will also provide space for the discussion of knowledge gaps and research needs, and will attempt to suggest elements for a forward-looking European research agenda.



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PROGRAMME HIGHLIGHTS

★ Special Session

Solutions for Emerging Pollutants: Towards a Holistic Chemical Quality Status Assessment in European Freshwater Resources

Programme

08:30 a.m.	Introduction
08:35 a.m.	Multiple exposure to pesticides and other emerging pollutants – problems and solutions for healthy ecosystems and humans | **Manfred Santen**, *Greenpeace e.V., Germany*
08:50 a.m.	Benefits of international Science & Policy cooperation to promote a paradigm shift in water quality and safety assessment framework | **Milou Dingemans**, *KWR Watercycle Research Institute, Netherlands*
09:05 a.m.	Chemicals of emerging concern (CEC) in the water cycle – a regulatory perspective | **Manuela Helmecke**, *UBA, Germany*
09:20 a.m.	Non-target Screening for Holistic Chemical Monitoring and Compound Discovery: Open Science, Real-time and Retrospective Approaches | **Emma Schymanski**, *University of Luxembourg, Luxembourg*
09:35 a.m.	Toxicological profiling of water samples with in vitro bioassays and assessment using effect-based trigger values | **Beate Escher**, *Helmholtz Centre for Environmental Research (UFZ), Germany*
09:50 a.m.	Chemical gene interactions for associating contaminants with biological effects | **Anthony Schroeder**, *University of Minnesota-Crookston, USA*
10:05 a.m.	Break and poster viewing
10:50 a.m.	Introduction
10:55 a.m.	Linking chemical pollution and effects – How to identify drivers of toxicity? | **Werner Brack**, *Helmholtz Centre for Environmental Research (UFZ), Germany*
11:10 a.m.	Toxic mixtures in time-the sequence makes the poison | **Roman Ashauer**, *University of York, UK*
11:25 a.m.	How to deal with mixtures of pollutants in water resource management? | **Rolf Altenburger**, *Helmholtz Centre for Environmental Research (UFZ), Germany*
11:40 a.m.	A mixture risk assessment for pollutants that reach humans via the water – fish exposure route | **Andreas Kortenkamp**, *Brunel University London, UK*
11:55 a.m.	An Advanced Methodological Framework for the Identification of Priority Pollutants and Priority Mixtures of Pollutants in European Freshwaters | **Michael Faust**, *Faust & Backhaus Environmental Consulting, Germany*
12:10 p.m.	A diagnostic toolbox for ecological effects of pollutant mixtures: a case study application using in situ experiments with microbial communities | **Thomas Backhaus**, *University of Gothenburg, Sweden*
12:25 p.m.	Lunch and poster viewing
1:55 p.m.	Introduction
2:00 p.m.	High-throughput exposure and risk modelling of chemicals in European river basins | **Jos van Gils**, *Deltares, Netherlands*
2:15 p.m.	Forward-looking on possible impacts of chemical pollution: Modelling lethal and sublethal effects of chemical exposure on population viability for aquatic macroinvertebrates | **Andreas Focks**, *Alterra Wageningen University and Research Centre, Netherlands*
2:30 p.m.	Eco-epidemiology of aquatic ecosystems: aligning chemical and ecological status | **Leo Posthuma**, *RIVM, Netherlands*
2:45 p.m.	Unravelling the cocktail of stress: toxics and other stressors impacting on the ecological status of Europe's rivers | **Sebastian Birk**, *University of Duisburg-Essen, Germany*
3:00 p.m.	Mitigation options for chemicals of emerging concern in surface waters – operationalising solutions-focused risk assessment | **Annemarie van Wezel**, *KWR Watercycle Research Institute, Netherlands*
3:15 p.m.	Future perspectives of chemical pollution and regulatory development | **John Munthe**, *IVL Swedish Environmental Research Institute, Sweden*
3:30 p.m.	End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	**Challenges in Setting, Meeting and Measuring Specific Protection Goals for Plant Protection Products | ...**		
	182 | Towards a more holistic environmental risk assessment approach of crop protection products as tools in agriculture | **Peter Dohmen**, *BASF SE, Germany*	183 | Identifying ecosystem services-based protection goals | **Lorraine Maltby**, *The University of Sheffield, UK*	184 | ECPA over-arching Specific Protection Goals proposal for EFSA Non-Target Terrestrial Plants, Non-Target Arthropods and Soil Organisms Guidance Documents based on EFSA Ecosystem Services approach | **Kees Romijn**, *Bayer CropScience AG, Germany*
Session Room B	**Innovative Techniques for Enhancing and Monitoring Microbial Activities for In Situ Remediation of Contaminated Sites | ...**		
	188 | Evaluation of plant-driven biostimulation of soil microbiota for the setup of a site-tailored rhizoremediation process in a historical PCB-polluted soil | **Sara Borin**, *University of Milan, Italy*	189 | Enhancement of Biological Reductive Dechlorination by in situ Adsorption onto Colloidal Activated Carbon: From the Lab to the Full Scale Application | **Marco Papini**, *Università La Sapienza, Italy*	190 | An innovative bioelectrochemical reactor for in-situ treatment of groundwater contaminated by monoaromatic petroleum hydrocarbons | **Federico Aulenta**, *National Research Council, Italy*
Session Room C	**New Frontiers in Life Cycle Inventory Data Collection and Modelling | Michele De Rosa, Roland Hischier, Heinz Stichnothe**		
	194 | The end of an era: is data and model exchange across LCA software tools finally possible? | **Marisa Vieira**, *PRe Sustainability, Netherlands*	195 | LCA using real time information: the case of DEA-enabled monitoring of WWTP lifecycle environmental performances | **Antonino Marvuglia**, *Luxembourg Institute of Science and Technology (LIST), Luxembourg*	196 | Enhancing Land Use Change modelling with IO data | **Jannick Schmidt**, *Aalborg University, Denmark*
Session Room D	**Behavioural Ecotoxicology: Unravelling Behavioural Responses to Chemical Contaminants in the Environment | ...**		
	200 | Do laboratory assays predict behaviour in the wild? A study with pharmaceutical pollutants | **Erin McCallum**, *Umea University, Sweden*	201 | Exposure to the widespread androgenic steroid 17β-trenbolone alters behaviour in fish | **Michael Bertram**, *Monash University, Australia*	202 | Selective grazing behaviour of chironomids between three microalgal species under pesticide pressure | **Julie Neury-Ormanni**, *Irstea, France*
Session Room E	**Can Trends in Wildlife Populations Revolutionise Our Understanding of the Impacts of Chemicals on the Environment? | ...**		
	206 | Does single compound risk assessment protect from mixture effects and multiple stress? | **Peter Von der Ohe**, *UBA – Federal Environment Agency, Germany*	207 | Threshold trends in wildlife taxa: challenging and evaluating our chemical – and environmental risk assessments of chemicals and their mixtures | **Leo Posthuma**, *RIVM, Netherlands*	208 | How much do improvements in wastewater treatment benefit downstream macroinvertebrate populations? | **Andrew Johnson**, *CEH Wallingford, UK*
Session Room M	**Environmental Effects of Metals: Improvements to Risk Assessment by Considering Speciation and Bioavailability (I) | ...**		
	212 | Findings of a SETAC Technical Workshop on Bioavailability-based Water Quality Criteria | **Christian Schlekat**, *NiPERA, USA*	213 | Modifying factors for nickel speciation and toxicity in seawater | **Jim McGeer**, *Wilfrid Laurier University, Canada*	214 | Acute bioavailability models for nickel: Development and regulatory application | **Karel A.C. De Schamphelaere**, *Ghent University (UGent), Belgium*
Session Room N	**Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions (I) | Ana Marta Gonçalves,...**		
	218 | Closing the gap between small and smaller: Towards a framework to analyse nano – and microplastics in aqueous environmental samples | **Patrick Bauerlein**, *KWR, Netherlands*	219 | Trace particulate plastic analysis in environmental systems: synthesis and utility of metal doped nano – and microplastic particles and fibers | **Michael Schmiedgruber**, *Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland*	220 | Detection of polymers in treated waste water using TED-GC-MS | **Caroline Goedecke**, *Bundesanstalt für Materialforschung und -prüfung, Germany*
Session Room O	**Air Pollution, Biomonitoring and Human Health (I) | Luisella Ciancarella, Carmela Tortorella, Dominique Courcot**		
	224 | Particulate matter in indoor academic environments: chemical composition, sources, infiltration from outdoor | **Cinzia Perrino**, *CNR Institute of Atmospheric Pollution Research, Italy*	225 | Source apportionment of major species and metals in PM2.5 in urban sites under industrial influences in northern France | **Frédéric Ledoux**, *University of Littoral Côte dOpale, France*	226 | Estimating the contribution of deposition in the total exposure to PAH's in order to derive save deposition reference values | **Johan Bierkens**, *VITO, Belgium*
Session Room P	**The Added Value of Using Invertebrate Species in Ecotoxicology: New Insights for Environmental Risk Assessment (I) |...**		
	230 | Transgenerational effects of a parental exposure in the sentinel species *Gammarus fossarum* | **Pauline Cribiu**, *ENTPE, IRSTEA LYON, France*	231 | Species differences of bioaccumulation, biotransformation and synergistic effects of two fungicides in two aquatic invertebrates | **Qiuguo Fu**, *Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland*	232 | Use of Gammarus sp. for toxicity testing. A case study with the growth regulator insecticide fenoxycarb | **Hélène Arambourou**, *Irstea Lyon, France*
★ Session Room Q	**Solutions for Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater...**		
	236 | Multiple exposure to pesticides and other emerging pollutants – problems and solutions for healthy ecosystems and humans | **Manfred Santen**, *Greenpeace, Germany*	237 | Benefits of international Science & Policy cooperation to promote a paradigm shift in water quality and safety assessment framework | **Milou Dingemans**, *KWR Watercycle Research Institute, Netherlands*	238 | Chemicals of emerging concern (CEC) in the water cycle – a regulatory perspective | **Manuela Helmecke**, *Umweltbundesamt (UBA), Germany*

	9:20 a.m.	9:35 a.m.	9:50 a.m.	
Session Room A	**...Lorraine Maltby, Peter Campbell**			COFFEE BREAK
	185 | Protection goals for non-target terrestrial plants: Is in-field protection of beneficial weeds achievable? | **Joanna Davies**, *Syngenta, UK*	186 | Specific Protection Goals and the Assessment of Key Drivers in the Aquatic Environment: Are we doing the right thing? | **Rachel Benstead**, *Fera Science Ltd., UK*	187 | Is "biodiversity" a measurable study endpoint? | **Frank Bakker**, *Eurofins-Mitox, Netherlands*	
Session Room B	**...Andrea Franzetti, Luca Alberti, Anna Barra Caracciolo, Paola Grenni**			
	191 | Identification of major HMW-PAH degrading communities during active bioremediation of a PAH-contaminated soil | **Joaquim Vila**, *Instituto de Recursos Naturales y Agrobiologia, Spain*	192 | Stable Isotope Raman Microspectroscopy and Surface-Enhanced Raman Scattering: Analysis of Microorganisms at Single Cell Level | **Natalia Ivleva**, *Technical University of Munich, Germany*	193 | Flux chambers data for the estimation of the biodegradation rate in the subsurface at hydrocarbon contaminated sites | **Renato Baciocchi**, *University of Rome Tor Vergata, Italy*	
Session Room C	**New Frontiers in Life Cycle Inventory Data Collection and Modelling | Michele De Rosa, Roland Hischier, Heinz Stichnothe**			
	197 | WSmix: a globally regionalised Water Supply mix framework with current and prospective databases for use in LCA | **Susana Leão**, *IRSTEA Montpellier, France*	198 | The evolution of database – and tool development for Agri-footprint | **Bart Durlinger**, *Blonk Consultants, Netherlands*	199 | Poster spotlight: TU097, TU098	
Session Room D	**...Minna Saaristo, Kathryn Arnold, Bryan Brooks, Gregory Pyle**			COFFEE BREAK
	203 | Environmental levels of anxiolytic pharmaceuticals alter migration of Atlantic salmon in both lab and field | **Tomas Brodin**, *Umea University, Sweden*	204 | Can personality influence the response of fish to environmental contaminants? | **Miguel Oliveira**, *University of Aveiro, Portugal*	205 | Effects of fluoxetine on anxiety-related behaviours and physiology in a songbird | **Sophia Whitlock**, *Environment Department, University of York, UK*	
Session Room E	**...Andrew Johnson, John Sumpter**			
	209 | Biometric parameters of the bream (Abramis brama) as indicators for long-term changes in environmental quality – results from the German ESB | **Diana Teubner**, *Trier University, Germany*	210 | The burden of being a slow-life cycle species: freshwater fish population dynamics in France, correlations to species life traits and implications in ecotoxicology | **Raphael Santos**, *Hepia, University of Applied Sciences Western Switzerland, Switzerland*	211 | The use of natural historical collections to reconstruct temporal trends of the exposure to major contaminants in different white-tailed eagle (Haliaeetus albicilla) populations | **Jiachen Sun**, *Antwerp University, Belgium*	
Session Room M	**...Christian Schlekat, Graham Merrington, Jean Mathieu Renaud, Steven Siciliano**			
	215 | Bioavailability and bioaccumulation of uranium: From lab experiment to modelling | **Angélique Husson**, *Mines ParisTech, France*	216 | Empirical Investigations into the Toxicity and Bioavailability of Aluminium to Aquatic Species | **Bill Stubblefield**, *Oregon State University, USA*	217 | Main factors responsible for the environmental degradation of rivers in a basin dedicated to gold mining using ecological predictive models. Case study Ponce Enríquez | **Luis Dominguez**, *Escuela Superior Politécnica del Litoral ESPOL, Ecuador*	
Session Room N	**...Nelson Abrantes, Alice Horton, Claus Svendsen**			COFFEE BREAK
	221 | Soil and sludge: A time and cost-effective method for extracting microplastics from complex, organic-rich environmental matrices | **Rachel Hurley**, *NIVA – Norwegian Institute for Water Research, Norway*	222 | Mapping microplastics in sludge during a country-wide investigation of wastewater treatment plants | **Amy Lusher**, *NIVA Norwegian Institute of Water Research, Norway*	223 | The Influence of Weathering on the Sinking Behavior of Microplastic in Freshwater and all Surface Waters | **Hans Peter Arp**, *NGI, Norway*	
Session Room O	**Air Pollution, Biomonitoring and Human Health (I) | Luisella Ciancarella, Carmela Tortorella, Dominique Courcot**			
	227 | A bioassay-directed analysis as a biomonitoring tool to assess the endocrine-disrupting potency of indoor air multi-contamination | **Lucie Oziol**, *University of Paris-Sud, France*	228 | The Modifying Effects of Ambient Air Pollution on Indoor Air Quality, Impacts on Human Health | **Harold Rickenbacker**, *University of Pittsburgh, USA*	229 | Innovative and Low-Cost Monitoring Techniques for Evaluating the Spatial Components: Validation and Field Application | **Lorenzo Massimi**, *Sapienza University of Rome, Italy*	
Session Room P	**...Carlos Barata, João Pestana, Bruno Campos**			
	233 | Adaptation of *Gammarus pulex* to agricultural insecticide contamination in streams | **Naeem Shahid**, *Helmholtz Centre for Environmental Research UFZ, Germany*	234 | The use of antifouling biocides in a changing world: combined impact of nanoengineering biocides and thermal stress in a coral species | **Violeta Ferreira**, *University of Aveiro, Portugal*	235 | Assessing interspecific variation in Imidacloprid toxicity in earthworms | **Alex Robinson**, *Centre for Ecology & Hydrology, UK*	
★ Session Room Q	**...Resources (I) | Werner Brack, Rolf Altenburger, Jos van Gils, John Munthe**			
	239 | Non-target Screening for Holistic Chemical Monitoring and Compound Discovery: Open Science, Real-time and Retrospective Approaches | **Emma Schymanski**, *University of Luxembourg, Luxembourg*	240 | Toxicological profiling of water samples with in vitro bioassays and assessment using effect-based trigger values | **Beate Escher**, *Helmholtz Centre for Environmental Research GmbH – UFZ, Germany*	241 | Chemical gene interactions for associating contaminants with biological effects | **Anthony Schroeder**, *University of Minnesota-Crookston, USA*	

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	**Anthropogenic and Natural Sources of Environmental Contaminants Highlight the Impacts of Opposing and Conflicting...**		
	242 | The triazole story: Clarification of sources, fate and footprint in the environment of the molecule 1,2,4-triazole | **Martin Blank**, *Bayer AG Crop Science Division, Germany*	243 | The triazole story: Assessment of the background abundance of 1H-1,2,4-triazole in selected German forest soils | **Markus Telscher**, *Bayer AG Division CropScience/ Environmental Fate, Germany*	244 | Challenges of a groundwater monitoring study design for a substance with multiple sources: determining risk for groundwater from 1,2,4-Triazole formed from fungicides used in arable crops in Germany | **Dirk Liss**, *SGS Institut Fresenius GmbH, Germany*
Session Room B	**Persistence & Biodegradation Assessment | Graham Whale, Thouand Gerald, Jacques Lharidon, Arnaud Boivin**		
	248 | Why biodegradable chemicals persist in the environment? A look at bioavailability | **José Julio Ortega-Calvo**, *Instituto de Recursos Naturales y Agrobiologia, Spain*	249 | Strategy for ready biodegradability evaluation of poorly water-soluble organic compounds in aqueous media | **Cyril Sweetlove**, *l´OREAL SA, France*	250 | Impact of temperature on micropollutants removal in an activated sludge system | **Paola Meynet**, *Newcastle University, UK*
Session Room C	**Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (I) | Monia Niero, Eric Van Genderen, Chris Bayliss**		
	254 | How can we measure a sustainable circular economy? Unveiling current indicators for the life cycle of products | **Hanna Helander**, *University of Freiburg, Germany*	255 | Making sense of circularity indicators with Multi Criteria Decision Analysis | **Monia Niero**, *Aalborg University, Denmark*	256 | Consistent allocation using archetypes of LCA Goal and Scope definitions | **Dieuwertje Schrijvers**, *ISM, France*
Session Room D	**Informed Substitution of Hazardous Chemicals for Circular Economy: Science and Practice | Peter Simpson, Ian Cousins,...**		
	260 | Substitution of PFOS under the Stockholm Convention | **Martien Janssen**, *Nat. Inst. Publ. Health Environ., Netherlands*	261 | Experiences of "Substitution in Practice" | **Christina Jönsson**, *Swerea IVF AB, Sweden*	262 | Implementing a life cycle perspective in chemical alternatives assessment – the case of per – an polyfluoroalkyl substances in textile applications | **Hanna Holmquist**, *Chalmers University of Technology, Sweden*
Session Room E	**Big Data Analysis in Ecotoxicology: How to Get New Information Out of Existing Data? | Gert Everaert, Jörg Römbke, Martina Vijver**		
	266 | EDAPHOBASE – soil biodiversity data warehouse and its applications in ecotoxicology | **Martina Ross-Nickoll**, *RWTH Aachen University, Institute for Environmental Research, Germany*	267 | Diving into REACH database with Rstudio to produce input data for the USEtox model for thousands of chemicals | **Erwan Saouter**, *EU Commission JRC, Italy*	268 | The effect of modelling decisions on macroinvertebrate sensitivity modelling | **Sanne Berg**, *Wageningen University & Research, Netherlands*
Session Room M	**Environmental Effects of Metals: Improvements to Risk Assessment by Considering Speciation and Bioavailability (II) |...**		
	272 | Assessment and management of stormwater on sediment recontamination due to metal contaminants | **Ilektra Drygiannaki**, *Texas Tech University, USA*	273 | The effect of percolation and form on lead bioavailability and toxicity to Enchytraeus crypticus | **Lulu Zhang**, *VU University Amsterdam, Netherlands*	274 | To leach or not to leach: Soil enzymatic responses to metal mixture species | **Fred Kobby Awuah**, *University of Saskatchewan, Canada*
Session Room N	**Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions (II) | Ana Marta Gonçalves,...**		
	278 | Profile of microplastics in water and sediments of Antuà river in Portugal | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*	279 | Microplastics in German rivers – first monitoring results | **Maren Hess**, *LANUV NRW, Germany*	280 | Exploring the relation between plastic concentration and river discharge in an urban river | **Stephan Wagner**, *Helmholtz Centre for Environmental Research GmbH – UFZ, Germany*
Session Room O	**Air Pollution, Biomonitoring and Human Health (II) | Luisella Ciancarella, Carmela Tortorella, Dominique Courcot**		
	284 | Analysis of the contribution of a coal-fired power plant to PM10 concentrations in four sites in Southern Italy | **Daniele Contini**, *Istituto di Scienze dellAtmosfera e del Clima, CNR, Italy*	285 | Air pollution toxicology: is it the right time to leave the bench for the field? A case study integrated approach | **Maurizio Gualtieri**, *ENEA, Italy*	286 | Indoor and Outdoor air contamination by endocrine disruptor pollutants in the North part of France | **Elodie Moreau-Guigon**, *EPHE, PSL, France*
Session Room P	**The Added Value of Using Invertebrate Species in Ecotoxicology: New Insights for Environmental Risk Assessment (II) |...**		
	290 | The role of the p38-activated protein kinase signaling pathway-mediated autophagy in cadmium-exposed monogonont rotifer Brachious koreanus | **Hye-Min Kang**, *Sungkyunkwan University, South Korea*	291 | Effects of triclosan (TCS) on antioxidant system and oxidative stress-mediated gene expression in the copepod Tigriopus japonicus | **Jun Chul Park**, *Sungkyunkwan University, South Korea*	292 | The protective role of multixenobiotic resistance (MXR)-mediated ATP-binding cassette (ABC) transporters in biocides-exposed rotifer Brachionus Koreanus | **YoungHwan Lee**, *Sungkyunkwan University, South Korea*
★ Session Room Q	**Solutions for Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater...**		
	296 | Linking chemical pollution and effects – How to identify drivers of toxicity? | **Werner Brack**, *Helmholtz Centre for Environmental Research UFZ, Germany*	297 | Toxic mixtures in time-the sequence makes the poison | **Roman Ashauer**, *University of York, UK*	298 | How to deal with mixtures of pollutants in water resource management? | **Rolf Altenburger**, *UFC Centre for Environmental Research, Germany*

	11:40 a.m.	11:55 a.m.	12:10 p.m.	
Session Room A	**...Regulations |Martin Blank, Dirk Liss, Nicole Baran**			LUNCH BREAK
	245 | Leaching of 1,2,4-triazole through agricultural fields in Denmark | **Annette Rosenbom**, *Geological Survey of Denmark and Greenland, Denmark*	246 | The triazole story: Differentiation between different 1,2,4-Triazole sources using a 13C stable isotope labelled azole-fungicide | **Andrew Chapple**, *Bayer Crop Science AG, Germany*	247 | Overlooked sources of trifluoroacetate in the water cycle – consequences for drinking water supply and regulatory measures | **Karsten Nödler**, *TZW DVGW-Technologiezentrum Wasser, Germany*	
Session Room B	**Persistence & Biodegradation Assessment | Graham Whale, Thouand Gerald, Jacques Lharidon, Arnaud Boivin**			
	251 | Findings from an international ring test for an improved marine biodegradation screening test | **Amelie Ott**, *Newcastle University, UK*	252 | Relevance of photolysis for the fate of pendimethalin in deeper water layers – results of a scale-up approach according to OECD TG 309 | **Dieter Hennecke**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*	253 | Poster spotlight: TU267, TU268, TU269	
Session Room C	**Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (I) | Monia Niero, Eric Van Genderen, Chris Bayliss**			
	257 | Sustainability assessment of product lifetime extension through increased repair and reuse | **Ellen Bracquene**, *KU Leuven, Belgium*	258 | Building – Rooftop Symbiosis at the next level. Improving urban agriculture through circular economy strategies | **Martí Salís**, *ICTA-UAB, Spain*	259 | Chemical recycling of plastic packaging waste – A life cycle perspective on PET recycling | **Raoul Meys**, *RWTH Aachen University, Germany*	
Session Room D	**...Hugo Waeterschoot, Patrik Andersson**			LUNCH BREAK
	263 | How much function do we need in textiles? Strategies for replacing PFASs based on end-user requirements | **Steffen Schellenberger**, *Stockholm University, Sweden*	264 | Analysis of the technical and economic feasibility of alternatives to lead gunshot | **Anna Mazzolini**, *ECHA, Finland*	265 | The road to successful substitution – case studies | **Nathalie Vallotton**, *Dow Europe GmbH, Switzerland*	
Session Room E	**Big Data Analysis in Ecotoxicology: How to Get New Information Out of Existing Data? | Gert Everaert, Jörg Rombke, Martina Vijver**			
	269 | New approach facing new challenges in Ecotoxicology: D counter | **Sizenando Abreu**, *University of Aveiro, Portugal*	270 | Ceriodaphnia is equisensitive to Daphnia and should fulfil invertebrate regulatory toxicity requirements | **Kristin Connors**, *The Procter & Gamble Company, USA*	271 | Poster spotlight: TU001, TU002, TU003	
Session Room M	**...Christian Schlekat, Graham Merrington, Jean Mathieu Renaud, Steven Siciliano**			
	275 | Soil moisture influences the avoidance behaviour of Folsomia candida and Enchytraeus crypticus in metal(loid)-contaminated soils | **M. Nazaret González-Alcaraz**, *Department of Biology & CESAM – University of Aveiro, Portugal*	276 | Manganese bioavailability in legacy contaminated soils by medieval metallurgical wastes | **Frédéric Gimbert**, *University of Bourgogne Franche-Comté, France*	277 | Chemical and ecotoxicological effects of the use of residues from the pulp and paper industry for the remediation of soils degraded by mining activities | **Paula Alvarenga**, *University of Lisboa – Instituto Superior de Agronomia, Portugal*	
Session Room N	**...Nelson Abrantes, Alice Horton, Claus Svendsen**			LUNCH BREAK
	281 | Microplastic pollution in upstream river catchments | **Thomas Stanton**, *The University of Nottingham, UK*	282 | Microplastics in stormwater ponds | **Fan Liu**, *Aalborg University, Denmark*	283 | Towards a more realistic assessment of microplastics as pollutant transporter: a combined experimental and modelling study | **Sven Seidensticker**, *Eberhard Karls Universität Tübingen, Germany*	
Session Room O	**Air Pollution, Biomonitoring and Human Health (II) | Luisella Ciancarella, Carmela Tortorella, Dominique Courcot**			
	287 | Air pollution and health: early biological effects in children exposed to air pollutants and genotoxic effect of PM0.5 in different Italian towns | **Sara Bonetta**, *University of Torino, Italy*	288 | Source apportionment of PM near steel plant by electron microscopy | **Alessandra Genga**, *University of Salento, Italy*	289 | Oxidized transformation products of polycyclic aromatic hydrocarbons in secondary organic aerosol particles | **Amber Kramer**, *Oregon State University, USA*	
Session Room P	**...Carlos Barata, João Pestana, Bruno Campos**			
	293 | CRISPR/Cas9 genome editing generates *Daphnia magna* (loss of function) mutants for TRH and ABCB1 genes. Implications for (eco)toxicological testing | **Bruno Campos**, *Unilever R&D, UK*	294 | Assessment of Effects and Recovery of Chaoborus Populations in a Novel-Concept Microcosm Experiment | **Clare Gamblin**, *AgroChemex Environmental Ltd, UK*	295 | Poster spotlight: TU108, TU109, TU110	
★ Session Room Q	**...Resources (II) | Werner Brack, Rolf Altenburger, Jos van Gils, John Munthe**			
	299 | A mixture risk assessment for pollutants that reach humans via the water – fish exposure route | **Andreas Kortenkamp**, *Brunel University London, UK*	300 | An Advanced Methodological Framework for the Identification of Priority Pollutants and Priority Mixtures of Pollutants in European Freshwaters | **Michael Faust**, *Faust & Backhaus Environmental Consulting, Germany*	301 | A diagnostic toolbox for ecological effects of pollutant mixtures: a case study application using in situ experiments with microbial communities | **Thomas Backhaus**, *University of Gothenburg, Sweden*	

	2:00 p.m.	2:15 p.m.	2:30 p.m.
Session Room A	**Derivation, Validation and Implementation of Environmental Quality Benchmarks | Bryan Brooks, Kenneth Leung,...**		
	302 | Questioning annual average concentrations for plant protection products – TKTD modelling of real exposure profiles | **Marion Junghans**, *Swiss Centre for Applied Ecotoxicology EAWAG – EPF, Switzerland*	303 | Revision of 62 Environmental Quality Standards – lessons learned | **Muris Korkaric**, *Swiss Centre for Applied Ecotoxicology, Switzerland*	304 | Endocrine disrupting properties: How far and consistent they are considered deriving Water Framework Directive Environmental Quality Standards ? A case study tackling French and EU EQS values | **Alice James-Casas**, *INERIS, France*
Session Room B	**Microbial Community Ecotoxicology in Environmental Risk Assessment and Ecosystem Monitoring | Ahmed Tlili,...**		
	308 | The impact of anthropogenic activities on bacterial and viral diversity in the Eastern Mediterranean Sea | **Anastasia Tsiola**, *hcmr, Greece*	309 | Impacts of stormwater on microbial community structure and function in estuarine sediments | **Katherine Dafforn**, *Macquarie University, Australia*	310 | Drought as environmental driver on ciliates and micrometazoa communities in a multistressors scenario. An experimental approach | **Julio C López-Doval**, *ICRA Catalan Institute for Water Research, Spain*
Session Room C	**Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (II) | Monia Niero, Eric Van Genderen, Chris Bayliss**		
	314 | Region-specific life cycle inventories for tailings disposal in ecoinvent v3 | **David Turner**, *EMPA, Switzerland*	315 | Closing the copper cycle in the EU-28: Scenario analysis and potentials for GHG emissions reduction | **Luca Ciacci**, *Alma Mater Studiorum – University of Bologna, Italy*	316 | Multi-Objective Reverse Supply Chain Network Design of Fluorescent Lamps with Piecewise Linear Functions | **Changgun Lee**, *University College London, UK*
Session Room D	**Safe by Design: Responsible and Innovative Research for Safe and Sustainable Chemistry | Ester Papa, Elena Semenzin**		
	320 | Silica coating for the control of nano-reactivity | **Simona Ortelli**, *CNR ISTEC, Italy*	321 | Framework for the optimal design of sustainable chemical processes | **Raul Calvo-Serrano**, *Imperial College London, UK*	322 | A decision framework for substances of very high concern at the interface of chemicals, products and waste | **Pim Wassenaar**, *National Institute for Public Health and the Environment (RIVM), Netherlands*
Session Room E	**Recent Developments in Environmental Risk Assessment for Pollinators | Ivo Roessink, Nicole Hanewald, Jacoba Wassenberg**		
	326 | Managing on the Margins: The confluence of Modern Agriculture and Apiculture | **Zac Browning**, *Brownings Honey Co., Inc., USA*	327 | A new multi-dimensional method for evidence synthesis and weighting in bee risk assessment | **Alessio Ippolito**, *EFSA – European Food Safety Authority, Italy*	328 | Pesticide Exposure Assessment Paradigm for Bumble Bees | **Jozef van der Steen**, *Alveus AB Consultancy, Netherlands*
Session Room M	**Understanding Human and Environmental Exposure to Chemicals in Urban Systems | Todd Gouin, Miriam Diamond,...**		
	332 | Consumption of products – a proxy for changes in chemical flows in urban areas and to the environment? | **Emma Undeman**, *Stockholm University, Sweden*	333 | High-throughput assessment of use-phase exposures to chemicals in building materials | **Olivier Jolliet**, *University of Michigan, USA*	334 | OPEs – Where do they come from, where do they go? A case study from Toronto, Canada | **Miriam Diamond**, *University of Toronto, Canada*
Session Room N	**Microplastics in Freshwater and Terrestrial Systems – Fate, Monitoring and Biological Interactions (III) | Ana Marta Gonçalves,...**		
	338 | Modelling of the environmental release of macro – and microplastics for seven different polymers | **Delphine Wenger**, *Empa Swiss Federal Laboratories for Materials Science and Technology, Switzerland*	339 | Modelling Microplastics in Rivers in the US | **Christopher Holmes**, *Waterborne Environmental, Inc., USA*	340 | The routes to uptake and bioaccumulation of nanoplastics in freshwater sediments | **Richard Cross**, *University of Exeter, UK*
Session Room O	**When Ecotoxicology Meets Trophic Ecology | Clémentine Fritsch, Michael Danger, M. Pereira**		
	344 | Does stress propagate along aquatic food chains? An experimental approach with a tri-trophic brown food chain | **Eva Fernandes**, *University of Koblenz Landau, Germany*	345 | Accounting for trophic relationships in fish bioconcentration models applied as emergent-pollutants risk-assessment tools | **Hans Baveco**, *Wageningen Environmental Research, Netherlands*	346 | Model-based explorations of the variability in lake trout BAFs caused by physiology and trophic relationships | **Sivani Baskaran**, *University of Toronto – Scarborough, Canada*
Session Room P	**Integrated Approaches in Ecotoxicology: Bridging the Gap Between Experimental Toxicology and Mechanistic Modelling | ...**		
	350 | Toxicokinetic-toxicodynamic models as new tools for environmental risk assessment | **Sandrine Charles**, *University Lyon 1, France*	351 | Lethal and sublethal impacts of neonicotinoids and copper nano-pesticides on the energy budgets of an estuarine amphipod | **Erik Muller**, *University of California, USA*	352 | A biology-based model to analyze growth data of earthworms exposed to copper at different development stages | **Sylvain Bart**, *INRAAgroParisTech, France*
Session Room Q	**Solutions For Emerging Pollutants – Towards a Holistic Chemical Quality Status Assessment in European Freshwater...**		
	356 | High-throughput exposure and risk modelling of chemicals in European river basins | **Jos van Gils**, *DELTARES, Netherlands*	357 | Forward-looking on possible impacts of chemical pollution: Modelling lethal and sublethal effects of chemical exposure on population viability for aquatic macroinvertebrates | **Andreas Focks**, *Alterra Wageningen University and Research Centre, Netherlands*	358 | Eco-epidemiology of aquatic ecosystems: Aligning chemical and ecological status | **Leo Posthuma**, *RIVM, Netherlands*

	2:45 p.m.	3:00 p.m.	3:15 p.m.	
Session Room A	...Michael Warne			
	305 | Bringing water quality benchmark derivation approaches into the 21st century | **Rick van Dam**, *Environmental Research Institute of the Supervising Scientist, Australia*	306 | The quest for consistent environmental protection: The challenge of variable water quality guidelines between regulatory jurisdictions | **Graham Merrington**, *WCA Environment Limited, UK*	307 | A Call for Greater International Collaboration in Developing Environmental Quality Benchmarks: Many Hands Make Lighter Work! | **Michael Warne**, *Coventry University, UK*	COFFEE BREAK
Session Room B	...Mechthild Schmitt-Jansen, Kristian Brandt			
	311 | Linking pesticide pollution with periphyton quality in agricultural streams: A fatty-acids approach | **Natàlia Corcoll**, *University of Gothenburg, Sweden*	312 | Estrone and triclosan mixture alters soil metagenomics during degradaton | **Deborah Carr**, *Texas Tech University, USA*	313 | Poster spotlight: TU014, TU015, TU016	
Session Room C	Integrating Life Cycle Approaches Towards a Sustainable Circular Economy (II) | Monia Niero, Eric Van Genderen, Chris Bayliss			
	317 | The use of Life Cycle Assessment to adjust consumption taxes: The concept of a Damage and Value Added Tax | **Benoit Timmermans**, *Université Libre de Bruxelles, Belgium*	318 | Towards global guidance on LCIA of mineral resource use – outcomes from the UN Environment Life Cycle Initiative task force | **Markus Berger**, *Technische Universität Berlin, Germany*	319 | Poster spotlight: TU214, TU215, TU237	
Session Room D	Safe by Design: Responsible and Innovative Research for Safe and Sustainable Chemistry | Ester Papa, Elena Semenzin			
	323 | Emissions of PFASs and alternatives from the durable water repellence layer (DWR) of textiles during use | **Ike Veen**, *Institute for Environmental Studies (IVM) VU University Amsterdam, Netherlands*	324 | Chemicals in plastic packaging: Prioritization of hazardous substances | **Jane Muncke**, *Food Packaging Forum Foundation, Switzerland*	325 | A Safe by Design framework to support the development of sustainable nano-enabled products for the restoration of works of art | **Elisa Giubilato**, *University Ca Foscari of Venice, Italy*	COFFEE BREAK
Session Room E	Recent Developments in Environmental Risk Assessment for Pollinators | Ivo Roessink, Nicole Hanewald, Jacoba Wassenberg			
	329 | Industry research and approaches to improve the bee risk assessment scheme in Europe | **Ed Pilling**, *Dow Agrosciences, UK*	330 | Standardization of an in vitro larval rearing method for stingless bee species Melipona scutellaris for use in toxicological bioassay studies | **Annelise Rosa-Fontana**, *Unesp – Institute of Biology, Brazil*	331 | Poster spotlight: TU038, TU048, TU052	
Session Room M	...Antonia Praetorius, Alistair Boxall			
	335 | Drivers of pharmaceutical exposure in urban river systems | **Emily Burns**, *University of York, UK*	336 | Past vs. recent emissions of PCBs from the city of Brescia (Italy): Coupling monitoring data with a multimedia fate model to investigate PCB regional fate | **Elisa Terzaghi**, *University of Insubria (Como), Italy*	337 | Using a Dynamic, Aggregate Exposure Model to Identify Far – and Near-Field Contributions to Human PCB Exposure through Time | **Li Li**, *University of Toronto at Scarborough, Canada*	
Session Room N	...Nelson Abrantes, Alice Horton, Claus Svendsen			
	341 | Life-history and biochemical responses of *Chironomus riparius* exposed to different sized microplastics | **Carlos Silva**, *CESAM & University of Aveiro, Portugal*	342 | The effects of rigid and flexible Polyvinyl chloride (PVC) microplastic particles on the transcriptome of *Daphnia magna* | **Benjamin Trotter**, *University of Bayreuth, Germany*	343 | Poster spotlight: TU149, TU150, TU151	
Session Room O	When Ecotoxicology Meets Trophic Ecology | Clémentine Fritsch, Michael Danger, M. Pereira			
	347 | Influence of an agriculture-associated toxicity gradient on a riparian predator-prey relationship in Romania | **Nadin Graf**, *University of Koblenz-Landau, Germany*	348 | Migration effects on pollutants in eggs of Arctic-breeding geese | **Daniel Hitchcock**, *University of Oslo, Norway*	349 | Trophic Magnification of Persistent Organic Pollutants Within A Terrestrial Food-Web of An Avian Top Predator, the Cooper's Hawk (Accipiter Cooperii) | **John Elliott**, *Environment Canada, Canada*	COFFEE BREAK
Session Room P	...Andre Gergs, Jean-Pierre Desforges, Elke Zimmer			
	353 | Connecting suborganismal and organismal responses using Dynamic Energy Budget Modeling and the ecological model species Fundulus heteroclitus exposed to dioxin-like chemicals | **Louise Stevenson**, *UCSB, USA*	354 | Quantitative Adverse Outcome Pathway Modelling of Endocrine Active Toxicants in Rainbow Trout | **Irvin Schultz**, *NOAA NWFSC, USA*	355 | Development of a PBPK model for metal accumulation in fish infected with acanthocephalan parasites | **Yen Le**, *University of Duisburg-Essen, Germany*	
★ Session Room Q	...Resources (III) | Werner Brack, Rolf Altenburger, Jos van Gils, John Munthe			
	359 | Unravelling the cocktail of stress: Toxics and other stressors impacting on the ecological status of Europe's rivers | **Sebastian Birk**, *University of Duisburg-Essen, Germany*	360 | Mitigation options for chemicals of emerging concern in surface waters – operationalizing solutions-focused risk assessment | **Annemarie van Wezel**, *KWR Watercycle Research Institute, Netherlands*	361 | Future perspectives of chemical pollution and regulatory development | **John Munthe**, *IVL Swedish Environmental Research Institute Ltd, Sweden*	

TU | Tuesday Poster Presentations

Schedule

Setup	7:30 a.m.–08:30 a.m.
Poster Viewing	10:05 a.m.–10:50 a.m.
Poster Viewing	12:25 p.m.–1:55 p.m.
Poster Viewing	3:30 p.m.–4:15 p.m.
Poster Social	5:15 p.m.–6:15 p.m.
Take Down	6:15 p.m.–6:45 p.m.

Poster Corners

Fungicides – An overlooked compound group? Fate, effects, risk assessment and mitigation (PC) | Ralf Bernhard Schäfer, Jochen Zubrod, Jes Rasmussen, Gertie Arts

Discussion at 5:15 p.m.–5:45 p.m.

TUPC01 | Overview on the risks from fungicides for aquatic organisms | **Jochen Zubrod**, *University of Koblenz-Landau, Germany*

TUPC02 | Relative tolerance of aquatic organisms to fungicides | **Andreu Rico**, *IMDEA Water Institute, Spain*

TUPC03 | Fungicide effects propagate through the detrital food chain in streams | **Jes Rasmussen**, *Aarhus University, Denmark*

TUPC04 | Mitigation of fungicide exposure of stream ecosystems within agricultural catchments | **Mirco Bundschuh**, *University of Koblenz-Landau, Germany*

TUPC05 | Towards a better exposure assessment of antifungal azoles | **Nicolas Creusot**, *Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland*

TUPC06 | Is the EFSA effect assessment approach for fungicides sufficiently protective for aquatic ecosystems? | **Theo C.M. Brock**, *Alterra, Wageningen University and Research Centre, Netherlands*

Developments in the ecological and human health risk assessment of biopesticides: Microorganisms, semiochemicals and botanicals (PC) | Elizabeth Collison, Jacobijn van Etten, Alison Hamer

Discussion at 5:45 p.m.–6:15 p.m.

TUPC07 | Ecotoxicological studies performed to assess the potential of a yeastlike fungus, Aureobasidium pullulans, and the response of evaluating authorities | **Christina Donat**, *bio-ferm GmbH, Austria*

TUPC08 | Ecological testing and risk assessment considerations for microbial active substances | **Jacoba Wassenberg**, *Ctgb, Netherlands*

TUPC09 | Human and environmental Risk assessment for microorganisms – to what extent? | **Adi Cornelese**, *GAB Consulting GmbH, Germany*

TUPC10 | Ecotoxicological testing to support the assessment of Microbials | **Jutta Müther**, *GAB Consulting GmbH, Germany*

TUPC11 | Microbiological Quantification Methods for MPCAs – Applicability to a Range of Microorganisms and Different Substrates | **Andre Dabrunz**, *Eurofins Agroscience Services Ecotox GmbH, Germany*

When ecotoxicology meets trophic ecology (PC) | Clémentine Fritsch, Michael Danger, M. Pereira

Discussion at 5:15 p.m.–5:45 p.m.

TUPC17 | Modelling bioaccumulation of persistent organic pollutants in Arctic food chains | **Renske Hoondert**, *Radboud University Nijmegen, Netherlands*

TUPC18 | Distribution and Trophic Magnification of Dechloranes, HBCDs, PCNs, and Other Legacy POPs in the Maritime Antarctic Ecosystem | **Jun-Tae Kim**, *Korea Polar Research Institute, South Korea*

TUPC19 | Bioconcentration as the predominant mechanism for fish PCB contamination in alpine lakes | **Thibault Masset**, *Universite Savoie Mont Blanc, France*

TUPC20 | The role of diet and age: Organohalogen accumulation in an avian top predator | **Mari Løseth**, *The Norwegian University of Science and Technology, Norway*

TUPC21 | Fate of PAH, phthalates and their metabolites in an urban river food web | **Aurelie Goutte**, *UPMC UMR METIS 7619, France*

Poster Sessions

Big data analysis in ecotoxicology: How to get new information out of existing data? (P) | Gert Everaert, Jörg Römbke, Martina Vijver

TU001 | Holistic evaluation of long-term field effect earthworm studies with the fungicide Boscalid | **Frank Staab**, *BASF SE, Germany*

TU002 | Contextualising statistically significant differences observed in mesocosm studies using historical control data | **Hanna Schuster**, *Cambridge Environmental Assessments, UK*

TU003 | Enhancing the utility of the ECOTOX knowledgebase via ontology-based semantics mapping | **Kellie Fay**, *CSRA, Inc., USA*

TU004 | ECOTOX Knowledgebase: New tools for data visualization and database interoperability | **Kellie Fay**, *CSRA, Inc., USA*

TU005 | Edaphostat – A web application for automated and interactive meta-analysis of environmental data from the Edaphobase data warehouse | **Jonas Hausen**, *RWTH Aachen University, Germany*

TU006 | Deriving USEtox aquatic freshwater toxicity Effect factors from the REACH database for thousands of chemicals using R-Studio program | **Erwan Saouter**, *EU Commission JRC, Italy*

TU007 | Deriving physico-chemical input data for the USEtox model from the REACH database for thousands of chemicals using R-Studio program | **Erwan Saouter**, *EU Commission JRC, Italy*

TU008 | Toward a possible Toxicity Test Battery integrated Index for Nanomaterials | **Maria Oliviero**, *University Parthenope, Italy*

TU009 | Historical analysis of the use of plant protection products in apple orchards (1970-2014): Combining handwritten farmers records with electronic data | **Laura de Baan**, *Agroscope, Switzerland*

TU010 | Using long-term datasets to assess the impacts of neonicotinoids on farmland bird populations in the UK over the last 21 years | **Rosie Lennon**, *The University of York, UK*

TU011 | Regression-based models reveal sources of pollutants in Norwegian marine sediments | **Gert Everaert**, *Flanders Marine Institute, Belgium*

TU012 | Application of a ‚weight-of-evidence' model for assessing sediment quality and associated hazard with offshore gas platforms discharging produced water | **Andrea Tornambè**, *ISPRA, Italy*

TU013 | Utilising biomarkers in a multispecies approach to relate organochlorine exposure and biological effects | **Victor Wepener**, *North-West University – School of Biological Sciences, South Africa*

Microbial community ecotoxicology in environmental risk assessment and ecosystem monitoring (P) | Ahmed Tlili, Mechthild Schmitt-Jansen, Kristian Brandt

TU014 | Identifying bacterial indicator taxa along an urbanization gradient in stream ecosystems | **Marie Simonin**, *Duke University, USA*

TU015 | Diuron sorption in freshwater biofilms: Determination of isotherms | **Betty Chaumet**, *Irstea, France*

TU016 | New insights into the biotransformation of sulfluramid: Role of ammonia oxidizing bacteria and community shifts | **Karina Yew-Hoong Gin**, *National University of Singapore, Singapore*

TU017 | How can three herbicides impact the fatty acids of the freshwater diatom Gomphonema gracile ? | **Floriane Demailly**, *IRSTEA Bordeaux / Ifremer Nantes / EPOC (LPTC), France*

TU018 | Effects of Nickel on cell cycle progression, growth and antioxidant enzymes of green algae C. reinhardtii | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

TU019 | Use of BiologEcoPlateTM to evaluate the effects of ZnO nanoparticles on soil microbial communities | **Simona Schiavo**, *ENEA CR, Italy*

TU020 | Environmental factors-regulated disease dynamics of tilapia lake virus (TiLV) transmission in farmed tilapia ponds | **Tien Hsuan Lu**, *Nation Taiwan University, Taiwan*

TU021 | Natural organic matter alleviates TiO_2 and CuO nanoparticle toxicity in four algal species | **Elise Joonas**, *National Institute of Chemical Physics and Biophysics, Estonia*

TU022 | Chlorinated solvent contaminated groundwater: A glimpse inside the environmental microbial communities and their potential for bioremediation | **Teresa Lettieri**, *European. Commission – Joint Research Centre, Italy*

TU023 | Impact of the antihistamine fexofenadine on structure and functioning of leaf-associated microbial communities | **Patrick Baudy**, *University of Koblenz-Landau, Germany*

TU024 | Innovative tools and metagenomics for the monitoring of rivers and lakes : The European project INTCATCH | **Mario Carere**, *Italian Institute of Health ISS, Italy*

TU025 | Tolerance of sediment-microbial communities to copper indicates lake contamination | **Ahmed Tlili**, *Eawag, Switzerland*

TU026 | Current challenges and perspectives in aquatic and soil microbial community ecotoxicology | **Kristian Brandt**, *University of Copenhagen, Denmark*

TU027 | Hydrodynamic conditions alter the tolerance of biofilm communities towards chemical stress | **Mechthild Schmitt-Jansen**, *UFZ – Helmholz Ctre Environm. Research, Germany*

TU028 | Does fungicide exposure alter interspecific relationships of aquatic fungi during leaf-decomposition? – A case study using species-specific qPCR assays | **Nina Roeder**, *University of Koblenz-Landau, Germany*

TU029 | Cyanobacterial Bloom in the Lake Varese: Characterisation of Microbial Communities by Metagenomics analysis | **Teresa Lettieri**, *European. Commission – Joint Research Centre, Italy*

TU030 | Following copper bioaccumulation and internalization during freshwater biofilm development using stable Cu isotope | **Aymeric Dabrin**, *Irstea, France*

TU031 | Zirconium impact on freshwater periphytic communities | **Caroline Doose**, *INRS – Centre Eau Terre Environnement, Canada*

TU | Tuesday Poster Presentations

TU032 | DNA metabarcoding demonstrates effects from copper at environmental concentrations on microbial diversity in marine periphyton biofilms | **Natàlia Corcoll**, *University of Gothenburg, Sweden*

TU033 | A Time-series Study of Soil Microbial Community Compositional and Functional Shift in Biodiesel vs. Petrodiesel Contaminated Soils | **Deborah Carr**, *Texas Tech University, USA*

TU034 | Evaluation of riparian groundwaters quality using microalgal response to pollutants | **Ousama Chamsi**, *ECOLAB UMR5245 CNRS UPS INPT, France*

Can trends in wildlife populations revolutionise our understanding of the impacts of chemicals on the environment? (P) | Andrew Johnson, John Sumpter

TU035 | Can post mortem data be used to monitor population health in response in the barn owl? | **Lee Walker**, *Centre for Ecology & Hydrology, UK*

TU036 | Identifying suitable marine biomonitors in South Africa: Mussels vs Whelks | **Conrad Sparks**, *Cape Peninsula University of Technology, South Africa*

Recent developments in environmental risk assessment for pollinators (P) | Ivo Roessink, Nicole Hanewald, Jacoba Wassenberg

TU038 | Behavioural effects of imidacloprid, a neonicotinoid insecticide, on bumblebees (bombus terrestris) | **Julie Paus-Knudsen**, *University of Oslo, Norway*

TU039 | Sensitivity of honeybee larvae to PPPs and impact analysis based on EFSA Bee GD | **Johannes Lueckmann**, *Rifcon GmbH, Germany*

TU040 | Honeybee brood studies according to Oomen and OECD GD 75: Is there a difference of the brood termination rate under semi-field and field conditions | **Johannes Lueckmann**, *Rifcon GmbH, Germany*

TU041 | Does assessing of all brood cells of a hive reduce uncertainty and increase reliability of Semi-field honeybee brood studies (OECD GD 75)? | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*

TU042 | Ecotoxicological studies with bumble bees – latest developments and method improvement | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*

TU043 | Higher-tier risk refinement of solitary bees in the field – is the well-known ‚focal species' concept a suitable approach? | **Johannes Lueckmann**, *Rifcon GmbH, Germany*

TU044 | Non-Apis (Bombus terrestris) versus honeybee (Apis mellifera) acute oral and contact sensitivity – Preliminary results of ECPA company data evaluation | **Axel Dinter**, *Cheminova Deutschland GmbH & Co. KG, Germany*

TU045 | Bumblebee (Bombus ssp.) 10 day feeding laboratory test design: First results from an ICP-PR ring test | **Nina Exeler**, *Bayer AG, Crop Science Division, Germany*

TU046 | Standardization of method to test toxicity on stingless bees | **Thaisa Roat**, *UNESP Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil*

TU047 | A method for a solitary bee (Osmia spp.) first tier acute oral laboratory test: An update | **Ivo Roessink**, *Alterra, Netherlands*

TU048 | 2 Years of Solitary Bee Semi-field Ring Testing and Final Conclusions (ICPPR Non-Apis Working Group) | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*

TU049 | Predicting wild bee sensitivity to Acetylcholine Esterase (AChE) inhibitors utilizing a trait based phylogenetically controlled approach | **Tobias Pamminger**, *BASF SE, Agrarzentrum Limburgerhof, Germany*

TU050 | New approaches in testing of pollinator exposure under realistic conditions – Methods and recent experiences | **Markus Persigehl**, *Tier3 Solutions GmbH, Germany*

TU052 | Normative Instruction 02/2017 – Brazilian risk assessment of pesticides to bees | **Flavia Viana-Silva**, *IBAMA, Brazil*

TU053 | How the new Brazilian risk assessment framework for bees works | **Katiuscia Coelho**, *ADAMA BRASIL, Brazil*

TU054 | An epidemiological study about an effect of neonicotinoids residues on honey bee colony survival in Japan | **Yutaka Kameda**, *Chiba Institute of Technology, Japan*

TU055 | Thiamethoxam Honey Bee Large Scale Colony Feeding Study – Design and Interpretation | **Pernille Thorbek**, *Syngenta, UK*

TU056 | Alteration of the alternative splicing pattern in honeybees' nervous system genes as a tool to test pesticides toxicity | **Thaisa Roat**, *UNESP Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil*

TU057 | Non-uniform distribution of treated sucrose solution via trophallaxis by honeybees affects variability of homing success rate, gene expression and mortality among replicates | **Lukas Jeker**, *Swiss Bee Research Center, Switzerland*

TU058 | Modelling and validation of honeybee foraging behaviour for the pesticide risk assessment | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU059 | Automated waggle dance decoding | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU060 | How to increase test power and understand risk in refined honeybee trials | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU061 | The potential for immune activation and possible consequences for bees upon exposure to microbial pest control agents | **Ben Jones**, *Applied Insect Science Ltd, UK*

Environmental effects of metals: Improvements to risk assessment by considering speciation and bioavailability (P) | Christian Schlekat, Graham Merrington, Jean Mathieu Renaud, Steven Siciliano

TU062 | Assessment of Levels of Some Heavy Metals in the Organs of West African Dwarf Goat and Beef Cattle in Ogbomoso, Nigeria | **Abdur-Rahim Giwa**, *Cape Peninsula University of Technology, Nigeria*

TU063 | Assessment of metal bioaccessibility, bioavailability and toxicity in soil using the earthworm | **Pierre Robidoux**, *AGAT Laboratories, Ltd, Canada*

TU064 | Assessment of subcellular metal-binding ligands in white suckers (Catostomus commersonii): Are all the metals accumulated in the heat-stable fraction (HSP) detoxified by binding to metallothioneins? | **Nastassia Urien**, *INRS-ETE, Canada*

TU065 | Assessment of Toxicological Impact of Anthropogenic activities on Onitsha Stretch of River Niger in Southeastern Nigeria | **Angela Udebuani**, *Federal University of Technology, Nigeria*

TU066 | Bioaccumulation, DNA damage and metallothionein expression in plants grown on heavy metal contaminated soil supplemented with sewage sludge | **Marta Jaskulak**, *Czestochowa University of Technology, Poland*

TU067 | Chronic toxicity assessment of Ni contaminated rivers in Japan using Ceriodaphnia dubia for development of biotic ligand model for Japanese surface waters | **Haruna Watanabe**, *National Institute for Environmental Studies, Japan*

TU068 | Comparing metallic elements in corals from South Africa and the Mascarene Basin | **Veronica van der Schyff**, *North-West University, South Africa*

TU069 | Cytochrome P450, fat and ageing: New insights into metal toxicology | **Jana Jass**, *Orebro University, Sweden*

TU070 | Determination of the effects of platinum in the oyster (Crassostrea gigas) using cell and tissue level biomarkers | **Manuel Soto**, *University of the Basque Country, Spain*

TU071 | Ecological Risk Assessment of Trace Metal Contaminated Tropical Estuarine Sediment, Southwest Nigeria | **Amii Usese**, *University of Lagos, Nigeria*

TU072 | Effects of culture medium on metal toxicity and new approach for ecotoxicology assessment | **Gissela Pascual**, *Tohoku University, Japan*

TU073 | Environmental diagnosis of water and tilapia Oreochromis niloticus of the Tenango dam, Puebla, Mexico | **Guadalupe Barrera Escorcia**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

TU074 | Estimation of Target Hazard Quotients and Potential Health Risks of Some Heavy Metals from Lipsticks in Nigeria | **Olawale Otitoju**, *Federal University Wukari, Nigeria*

TU075 | Fatty acid profile of Cerastoderma edule and Scrobicularia plana affected by copper sulphate exposure | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/ Biologia Department & CESAM, Aveiro University, Portugal*

TU076 | Heavy metals in soil and vegetables of allotment gardens in the Cape Town, South Africa | **Francois Wewers**, *Cape Peninsula University of Technology, South Africa*

TU077 | High-selenium lentils offer a nutritional solution to combat arsenic poisoning in Bangladesh | **Judit E.G Smits**, *University of Calgary, Canada*

TU078 | Metals removal from water for hazard classification | **G. Allen Burton**, *University of Michigan, USA*

TU079 | Modelling the chronic toxicity of copper to fish at low pH | **Stijn Baken**, *European Copper Institute, Belgium*

TU080 | Novel In-situ Toxicity Assessment of Sediment Capping Effectiveness in Deep Water | **G. Allen Burton**, *University of Michigan, USA*

TU081 | REEchangE – Rare Earth Elements Ecotoxicology in a Changing Environment | **Susanne Heise**, *Hamburg University of Applied Sciences, Germany*

TU082 | Sediment characteristics of natural and anthropogenic origin and their possible association with benthic macroinvertebrates in a minimally affected river in South Africa | **Corrie Wolmarans**, *North-West University – School of Biological Sciences, South Africa*

TU083 | The effect of copper sulphate on the antioxidants enzymes activity of two size classes of Cerastoderma edule | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*

TU084 | The impact of single metals and mixtures in nature: A microcosm experiment | **Marjolein Van Ginneken**, *University of Antwerp, Dept. Biology, Belgium*

TU085 | The influence of soil properties on lead bioavailability and toxicity to Enchytraeus crypticus | **Lulu Zhang**, *VU University Amsterdam, Netherlands*

TU086 | Toxicity evaluation of soils sampled in the vicinity of an Aluminum smelter in Montenegro using the Ames, Bioluminescence and DR-LUC bioassays | **Andrej Perovic**, *University of Montenegro, Faculty of Natural-sciences and Mathematics, Montenegro*

Safe by Design: Responsible and innovative research for safe and sustainable chemistry (P) | Ester Papa, Elena Semenzin

TU087 | In silico approaches to screen and design safer chemicals | **Ester Papa**, *University of Insubria, Italy*

TU |Tuesday Poster Presentations

TU088 | Application of chemometric methods and QSAR models to support pesticide risk assessment starting form ecotoxicological datasets | **Francesco Galimberti**, *ICPS International Centre for Pesticides and Health Risk Prevention, Italy*

TU089 | Influence of coatings in the bioaccumulation of TiO_2 and CeO_2 nanoparticles in rainbow trout | **Maria Luisa Fernandez-Cruz**, *INIA – National Institute for Agricultural and Food Research and Technology, Spain*

TU090 | Colloidal characterization of nano-enabled products for the restoration of works of art: Environmental fate of nano-ingredients | **Elena Badetti**, *University Ca Foscari of Venice, Italy*

TU091 | Considerations for Safe Innovation: The Case of Graphene | **Joris Quik**, *RIVM, Netherlands*

TU092 | Safer-by-Design framework for supporting Small and Medium Enterprises early in sustainable innovation for nanomedicine | **Mélanie Schmutz**, *EMPA Technology & Society Lab, Switzerland*

TU093 | Review of the applicability of early-stage sustainability methods integrating toxicity and environmental assessments | **Michiel Zijp**, *RIVM, Netherlands*

TU094 | Liquid organic hydrogen carriers (LOHC) – comparative hazard assessment | **Marta Markiewicz**, *Technical University of Dresden, Germany*

TU095 | 1-Octanol and 2-Butanone as biofuel candidates – Using "Green Toxicolgoy" for abiofuel development | **Henner Hollert**, *RWTH Aachen University, Germany*

TU096 | Investigation of the toxic effects of new mixtures of deep eutectic solvents (DES) on the environment and human health | **Giulia Mengotti**, *Heriot Watt University, UK*

New frontiers in Life Cycle Inventory data collection and modelling (P) | Michele De Rosa, Roland Hischier, Heinz Stichnothe

TU097 | Predicting environmentally beneficial production pathways for chemicals with neural networks | **Johanna Kleinekorte**, *RWTH Aachen University, Institute of Technical Thermodynamics, Germany*

TU098 | A Study on the development of Food LCI DB and PCR for estimating environmental footprint in South Korea | **Suhyun Cho**, *SMaRT-ECO, South Korea*

TU099 | Transition from ILCD To Environmental Footprint: Changes in the database structure, format, nomenclature, methods and other adaptations | **Simone Fazio**, *EC-JRC, Italy*

TU100 | New tools for Environmental Footprint data checking and sharing: Soda4LCA, ILCD validator and Registry for the node management | **Simone Fazio**, *EC-JRC, Italy*

TU101 | Improving the consistency and the accuracy of water inventories of chemical sites in PlasticsEurope LCIs in the perspective of the applicability of the impact assessment method AWARE | **Martin Baitz**, *thinkstep, Germany*

TU102 | Methodological improvements by dynamic approaches for the life cycle assessments of buildings | **Koji Negishi**, *CSTB, France*

TU103 | Carbon footprint from Brazilian soybeans based on spatially-explicit life cycle inventories, including land use change | **Neus Escobar**, *University of Bonn, Germany*

TU104 | Carbon Footprint Projections for Japan Using Computable General Equilibrium | **Yuki Ichisugi**, *Tokyo City University, Japan*

TU105 | Network LCA as a tool to enhance data collection and usage in a value chain | **Catharina Hohenthal**, *VTT Technical Research Centre of Finland, Finland*

TU106 | Developing guidelines for elementary flow nomenclature | **Ashley Edelen**, *ORISE, USA*

TU107 | Building a Life Cycle Inventory of stormwater pollutant fluxes: Model evaluation for a separate residential urban catchment | **Ralph Rosenbaum**, *National Research Institute of Science and Technology for Environment and Agriculture – Irstea, France*

The added value of using invertebrate species in ecotoxicology: New insights for environmental risk assessment (P) | Carlos Barata, João Pestana, Bruno Campos

TU108 | Tissue specific 32P accumulation and consequent biological effects in bivalve molluscs | **Emily Vernon**, *The University of Plymouth, UK*

TU109 | Endocrine disruption in Mytilus galloprovincialis: Is ethinylestradiol a vitellogenin inducer? | **Laura Emilia Fernández González**, *University of Vigo, Spain*

TU110 | Integrating natural processes in environmental hazard assessments of the oil sands | **Diogo Filipe Nunes Cardoso**, *CESAM, University of Aveiro, Portugal*

TU111 | Genomic DNA methylation level: A stress molecular marker in the species Gammarus fossarum? | **Pauline Cribiu**, *ENTPE, IRSTEA LYON, France*

TU112 | iNVERTOX: Characterising individual metabolomic variability of the freshwater invertebrate, Gammarus pulex | **Thomas Miller**, *Kings College London, UK*

TU113 | Ecotoxicological effects of the insecticide Imidacloprid on amphipods along pollution gradient in a river | **Vid Svara**, *Helmholtz Centre for Environmental Research UFZ, Germany*

TU114 | Antennae Regeneration of the Marine Amphipod Parhyale Hawaiensis as a Possible Endpoint in Ecotoxicology – Preliminary Data | **Otavio Diehl**, *School of Technology, UNICAMP, Brazil*

TU115 | Added value of community approaches in environmental risk assessment | **Monika Hammers-Wirtz**, *Research Institute gaiac, Germany*

TU116 | Metal pollution and macro-invertebrate communities in the Olifants River, Western Cape, South Africa | **Reinette Snyman**, *Cape Peninsula University of Technology, South Africa*

TU117 | QWATER – Bioassay integration under the European Water Framework Directive?: A step towards an ecological approach | **Monica Martinez-Haro**, *IREC-Instituto de Investigación en Recursos Cinegéticos, Spain*

TU118 | Chronic testing of mayfly and stonefly species – Development of a new approach | **Maria Brüggemann**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

TU119 | Toxic effects of a carbamate insecticide on a non-target freshwater gastropod: Active ingredient versus commercial formulation | **María Ríos de Molina**, *IQUIBICEN CONICET Universidad de Buenos Aires, Argentina*

TU120 | Toxicity of lanthanides to freshwater microcrustaceans | **Marge Muna**, *National Institute of Chemical Physics and Biophysics, Estonia*

TU121 | Relevance and suitability of invertebrates swimming behavior as sub-lethal endpoint to be considered for ecotoxicological investigation | **Silvia Morgana**, *CNR-ISMAR, Italy*

TU122 | Benefits of Using Ecologically and Economically Valued Invertebrate Species for Ecotoxicological Analyses: Potential Phototoxic Effects Comparing a Freshwater Vertebrate and Invertebrate | **Emily Vebrosky**, *Louisiana State University, USA*

TU123 | Impacts of anti-cancer drugs on freshwater rotifers at environmentally realistic concentrations | **Fernanda Cassio**, *University of Minho, Portugal*

TU124 | Development in vitro and in vivo methods of measuring acetylcholinesterase and general esterases in aquatic invertebrates | **Yi Cao**, *University of Copenhagen, Denmark*

TU125 | Factors influencing bioaccumulation of metals and pollutants in corals | **Veronica van der Schyff**, *North-West University, South Africa*

TU126 | Survival, metabolic rates and locomotory activities of a groundwater-obligate copepod species under long-term exposures to tetrachloroethylene | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

TU127 | Molecular and biochemical biotransformation responses in oysters Crassostrea brasiliana (Lamarck, 1819) exposed to Pyrene and Fluorene | **Flávia Zacchi**, *Universidade Federal de Santa Catarina, Brazil*

TU128 | Biochemical and cellular responses of the crab Pachygrapsus Marmoratus to evaluate the environmental contamination of the Livorno harbour (Italy) and of an adjacent MPA | **Silvia Casini**, *University of Siena, Italy*

TU129 | Toxicity of titanium on the mussel Mytillus galloprovincialis | **Silvana Costa**, *Aveiro University & CESAM, Portugal*

TU130 | Comparing interspecific Artemia responses to chronic zinc exposure | **Monica Martinez-Haro**, *IREC-Instituto de Investigación en Recursos Cinegéticos, Spain*

TU131 | Promising invertebrate species as model organism in ecotoxicology: Ephyrae stage of the jellyfish Aurelia sp. and Sanderia malayensis | **Elisa Costa**, *CNR-ISMAR, Italy*

TU132 | Paracentrotus lividus and Artemia sp.: Never too old model organisms to give new end-points | **Silvia Morgana**, *CNR-ISMAR, Italy*

TU133 | Application of sea-urchin embryo test in the effect directed analysis approach for the evaluation of WWTP effluent in an estuarine media | **Leire Mijangos**, *University of the Basque Country UPV/EHU, Spain*

TU134 | Plausibility of Daphnia magna model to evaluate eicosanoid pathway related toxicity | **Sangwoo Lee**, *Seoul National University, South Korea*

TU135 | Responses to single chemical and pulse exposures of two monophyletic Daphnia species under a multi-generation approach | **Giuliana Araujo**, *Universidade de Aveiro, Portugal*

TU136 | Chronic effects of BPA, BPS, and BPSIP in Daphnia magna | **Yeong-Wan Hong**,*Yongin University, South Korea*

TU137 | Oxidative effects of mono-(2-ethylhexyl)-phthalate on Daphnia magna in both molecular and population level | **Yohan Seol**, *KIST-Europe, Germany*

TU138 | Are Daphnia magna and Chironomus riparius acute responses comparable? | **Maria Chiara Neri**, *ChemService srl – Controlli e Ricerche, Italy*

TU139 | Analysis of mixtures of bisphenol A and UV filters Octocrylene and OD-PABA on Chironomus riparius using a specific RT-PCR array | **Ana Belén González**, *UNED, Spain*

TU140 | Genetic variability in tolerance to microbial insecticides in Chironomus riparius | **Maria Bordalo**, *University of Aveiro, Portugal*

TU141 | Effects of Amitraz on Chironomus riparius: Life history and biochemical responses | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*

TU142 | Multigenerational exposure of Folsomia candida to copper agrochemicals: Conventional and nano-pesticides | **Catarina Malheiro**, *Department of Biology, University of Aveiro, Portugal*

TU143 | Effects of multiple environmental Stressors on Eisenia fetida coelomocytes: Cell viability and different behaviour of amoebocytes and eleocytes | **Manuel Soto**, *University of the Basque Country, Spain*

TU | Tuesday Poster Presentations

TU144 | Toxicity of abamectin and difenoconazole, pure and formulated, to Folsomia candida | **Livia Figueiredo**, *University of São Paulo USP, Brazil*

TU145 | Terrestrial arthropods as indicators of environmental pollution | **Velesia Lesch**, *North-West University, South Africa*

TU146 | The impact of chlorpyrifos and its formulations on the acetylcholinesterase activity in non-target soil organisms | **Jana Vašíčková**, *Masaryk University, Czech Republic*

TU147 | Ariadna spider as a good candidate bioindicator of heavy metal contamination in the Namib Desert | **Giulia Liberatori**, *University of Siena, Italy*

TU148 | Effect of spray drift reduction techniques on pests and predatory mites in orchards and vineyards | **Stefan Otto**, *Italian National Research Council, Italy*

Microplastics in freshwater and terrestrial systems – fate, monitoring and biological interactions (P) | Ana Marta Gonçalves, Nelson Abrantes, Alice Horton, Claus Svendsen

TU149 | Freshwater organism can recognize microplastics as microplastics | **Shin Woong Kim**, *Konkuk University, South Korea*

TU150 | Microplastic shedding from functional textiles | **Christina Jönsson**, *Swerea IVF AB, Sweden*

TU151 | Fate of 14C-labelled Calcium Poly(styrene sulphonate) (CaPSS) Microplastic in waste water treatment at environmentally relevant concentrations | **Michael Hüben**, *Fraunhofer IME, Germany*

TU152 | Microplastics in the environment: Evaluating the risks and identifying knowledge gaps | **Emily Burns**, *University of York, UK*

TU153 | A cost-effective methodology for separation of microplastics from freshwater systems | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*

TU154 | Applicability of remote sensing methods for indirect mapping of microplastic distribution within aquatic ecosystems | **Sarah Piehl**, *University of Bayreuth, Germany*

TU155 | Coastal accumulation mapping of microplastic particles emitted from the Po River, Italy: Integrating remote sensing, in situ sample collections and ocean current modelling | **Michael Matthies**, *University of Osnabrueck, Germany*

TU156 | Cause and effect of the plastic industry in South Africa as a developing country | **Carina Verster**, *North-West University – School of Biological Sciences, South Africa*

TU157 | Understanding the distribution and fate of microplastics in a tertiary sewage treatment plant in the UK | **Reina Blair**, *University of Glasgow, UK*

TU158 | Weathering-induced changes in the effects of microplastic particles and their leachates | **Annika Jahnke**, *Helmholtz Centre for Environmental Research – UFZ GmbH, Germany*

TU159 | Occurrence and characteristics of fine microplastics in sewage water, domestic water, sewage treatment water and river water by coagulation and FT-IR microscopy method | **Naofumi Yamada**, *Chiba Institute of Technology, Japan*

TU160 | Detection of micro-paint particles and microplastic in harbour soil samples using FPA-µFTIR-Imaging-FTIR | **Alvise Vianello**, *Aalborg University, Denmark*

TU161 | Runoff of microplastics from agricultural soil: A study in a semi-arid area | **Rachel Hurley**, *NIVA – Norwegian Institute for Water Research, Norway*

TU162 | Microplastics in wastewater and freshwaters: A case-study in the Henares river watershed (Central Spain) | **Theresa Schell**, *IMDEA Water Institute, Spain*

TU163 | Microplastics occurrence and composition in drinking water from a Norwegian urban area | **Alessio Gomiero**, *International Research Institute of Stavanger, Norway*

TU164 | Macro and Micro(plastics) in the Environment of Some French rivers | **Vincent Verney**, *CNRS – ICCF, France*

TU165 | Spatial and temporal trends of microplastics in an urbanized Canadian river | **Matthew Ross**, *MacEwan University, Canada*

TU166 | A Historical Sediment Record of Microplastics in an Urban Lake, London, UK | **Alice Horton**, *Centre for Ecology and Hydrology, UK*

TU167 | Microplastics from sewage treatment works and storm water outfalls discharging into the Victoria Harbour, Hong Kong SAR | **Chu Wa Mak**, *The Chinese University of Hong Kong, Hong Kong*

TU168 | Models for Data Synthesis, Sampling Design and Scenario Analysis: Some examples using the INCA-MP model of microplastic fate and transport in soils and surface waters | **Martyn Futter**, *Swedish University of Agricultural Science, Sweden*

TU169 | Occurrence and concentration of microplastics in an urban river | **Claudia Campanale**, *Italian National Research Council, Italy*

TU170 | Removal of 10-500 µm microplastics from wastewater effluent by disc filter | **Marta Simon**, *Aalborg University, Denmark*

TU171 | PlasticBudget – Project on the environmental assessment of microplastic emissions | **Nils Thonemann**, *Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Germany*

TU172 | How do we know that microplastics are different from natural particles in their effects on biota? | **Zandra Gerdes**, *Stockholm University, Sweden*

TU173 | Influence of environmental conditions on the sorption of organic pollutants to microplastic particles | **Sven Seidensticker**, *Eberhard Karls Universität Tübingen, Germany*

TU174 | Influence of microplastics on transport of organic contaminants in soil | **Thorsten Hüffer**, *University of Vienna, Austria*

TU175 | Influence of polystyrene microplastics in combination with organic pesticides on the giant rams-horn snail Marisa cornuarietis: Behavioral and biochemical responses | **Stefanie Krais**, *University of Tubingen, Germany*

TU176 | Effects of artificial weathering on polypropylene microplastics | **Soledad Muniategui**, *Universidade da Coruña, Spain*

TU177 | Freshwater microplastics and effect of conditioning on pollutant and chemical transfer potential | **Katie Reilly**, *The University of Birmingham, UK*

TU178 | Exposure to conventional but not biodegradable microplastics impacts fitness in Daphnia magna | **Zandra Gerdes**, *Stockholm University, Sweden*

TU179 | Effects of polystyrene microplastics in different life stages of brown trout (Salmo trutta f. fario) | **Hannah Schmieg**, *Tübingen University, Germany*

TU180 | Daphnids in distress? Acute and chronic effects of primary and secondary microplastics on three species of Cladocerans | **Gayathri Jaikumar**, *CML Leiden University, Netherlands*

TU181 | Evaluation of chronic toxicity of polystyrene microplastics on freshwater mussels | **Stefano Magni**, *University of Milan, Italy*

TU182 | Polystyrene microplastic effects on the lipid peroxidation and antioxidant capacity in non – and temperature-stressed individuals of Dreissena polymorpha | **Annkatrin Weber**, *Goethe University Frankfurt am Main, Germany*

TU183 | Tissue Translocation of Polystyrene Micro – and Nanoparticles in Daphnia magna? | **Christoph Schuer**, *Goethe University Frankfurt, Germany*

TU184 | Do terrestrial organisms, isopods Porcellio scaber and earthworms Eisenia Andrei, avoid microplastic contaminated soil? | **Anita Jemec Kokalj**, *University of Ljubljana, Biotechnical Fac., Slovenia*

TU185 | Analysis of the Trojan horse effect of a mixture of microplastics and chlorpyrifos in an aquatic microcosm study | **Lida Deermann**, *Research Institute gaiac, Germany*

TU186 | Microplastics exposures of fish: Internalization and effects on behavior and growth | **Caroline Vignet**, *Eawag, Switzerland*

TU187 | Microplastic ingestion by fish: A comparison of Thames Estuary and Firth of Clyde populations | **Alexandra McGoran**, *Royal Holloway, UK*

TU188 | Polystyrene microplastic uptake and effects on feeding behaviour and reproduction in the cladoceran Daphnia magna | **Beatrice De Felice**, *Università degli Studi di Milano, Italy*

TU189 | Uptake of differently sized microplastics in gut passage by different species of Daphnia | **Suffeiya Supian**, *University of Birmingham, UK*

TU190 | Determination of microplastics in mackerel stomachs by enzymatic digestion and µFTIR | **Soledad Muniategui**, *Universidade da Coruña, Spain*

TU191 | Microplastic contamination of the model system Weser-National Park Wadden Sea: An across-ecosystem approach | **Isabella Schrank**, *University of Bayreuth, Germany*

TU192 | Photochemical fragmentation of freshwater (micro)plastics under UV irradiations | **Vincent Verney**, *CNRS – ICCF, France*

TU193 | Characterization and Environmental Risk Assessment of Polymeric Cosmetic and Personal Care Ingredients | **Iain Davies**, *Personal Care Products Council, USA*

TU194 | Toxicological effects of irregularly-shaped and spherical microplastics in a marine teleost, the sheepshead minnow (Cyprinodon variegatus) | **June-Woo Park**, *Korea Institute of Toxicology, South Korea*

TU195 | Assessment of the microplastic contamination in sediments from the French Atlantic coast | **Maureen Déniel**, *Institut des molécules et matériaux du Mans, France*

Derivation, Validation and Implementation of Environmental Quality Benchmarks (P) | Bryan Brooks, Kenneth Leung, Michael Warne

TU196 | Challenges in implementing legal frameworks for assessing water quality : The cases of the EU and Swiss approaches | **Nathalie Chèvre**, *University of Lausanne, Switzerland*

TU197 | Updating the Environmental Quality Standards for the EU priority substance chlorpyrifos | **Michel Wildi**, *Ecotox Centre CH, Switzerland*

TU198 | Lead exposures in European Freshwaters; are they a risk? A regulatory assessment accounting for bioavailability | **Iain Wilson**, *WCA Environment Ltd, UK*

TU199 | Assessing compliance of European freshwaters for copper: Accounting for bioavailability | **Iain Wilson**, *WCA Environment Ltd, UK*

TU | Tuesday Poster Presentations

TU200 | Are lead exposures a risk in European freshwaters? A map of EQS compliance assessment accounting for bioavailability | **Jasim Chowdhury**, *International Lead Association, USA*

Integrated approaches in ecotoxicology: Bridging the gap between experimental toxicology and mechanistic modelling (P) | Andre Gergs, Jean-Pierre Desforges, Elke Zimmer

TU201 | Modelling survival under chemical stress. A comprehensive guide to the GUTS framework | **Roman Ashauer**, *University of York, UK*

TU202 | Dose response modelling in aquatic and terrestrial effect models | **Magnus Wang**, *WSC Scientific GmbH, Germany*

TU203 | Investigating toxico-kinetics of emergent pollutants (PFASs) in the common sole (Solea solea) from in situ measurements and experimental data on PCBs within a DEB-based modelling approach | **Florence Mounier**, *National Research Institute of Science and Technology for Environment and Agriculture – Irstea, France*

TU204 | Investigating metabolic acceleration in dynamic energy budget models of copepods using the ecotoxicological model organism Nitocra spinipes | **Josef Koch**, *GhEnToxLab (Ghent University), Belgium*

TU205 | Grey seal ecophysiology and environmental change | **Jean-Pierre Desforges**, *Aarhus University (AU), Denmark*

TU206 | Evaluation of thermal stress on Daphnia magna using oxidative stress and life-history trait parameters | **Hyungjoon IM**, *Korea University, South Korea*

TU207 | Transport-protein metal binding links uptake biodynamics for predicting copper in tilapia | **Yi-Fang Chen**, *Kaohsiung Medical University, Taiwan*

TU208 | Relationships between subcellular metal partitioning and biomarkers of effects in white suckers (Catostomus commersonii) exposed to an environmental metal gradient | **Nastassia Urien**, *INRS-ETE, Canada*

TU209 | Development of an adverse outcome pathway for acetylcholiesterase inhibition in zebrafish (Danio rerio) | **Karen Watanabe**, *Arizona State University, USA*

TU210 | Development of a Novel Quantitative Adverse Outcome Pathway Predictive Model for Lung Cancer | **Thomas Hill**, *US EPA NHEERL/ISTD/CB, USA*

TU211 | A combined PBTK and qAOP-modeling approach to assess the impact of dioxin-like compound (DLC)-induced embryotoxicity on recruitment failure in European eels | **Jonathon Doering**, *National Research Council at U.S. Environmental Protection Agency, Duluth, USA*

TU212 | Salmonid pituitary cells as a test system for identifying endocrine disrupting compounds | **Irvin Schultz**, *NOAA NWFSC, USA*

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TU213 | SETAC Effect Modelling Interest Group | **Elke Zimmer**, *IBACON GmbH, Germany*

Integrating life cycle approaches towards a sustainable circular economy (P) | Monia Niero, Eric Van Genderen, Chris Bayliss

TU214 | Metal and mineral resources in LCIA – What's the problem? | **Rodrigo Alvarenga**, *Ghent University, Belgium*

TU215 | The relevance of the end-of-life stage for the environmental impact of batteries | **Jens Peters**, *Karlsruhe Institute of Technology KIT, Germany*

TU216 | Battery recycling efficiencies and their influence on the life cycle impacts of batteries | **Katrien Boonen**, *VITO, Belgium*

TU218 | New and Reconditioned Electrical and Electronic Equipment. How does change the environmental performance? | **Martina Pini**, *University of Modena and Reggio Emilia, Italy*

TU219 | The impact of European consumption of household appliances: Insights from the LCA of efficiency measures and expected trends | **Roland Hischier**, *EMPA, Switzerland*

TU220 | Assessing economic and environmental effects of product replacement program using dynamic discrete choice model: As a case study of "home appliance eco-point system" in Japan | **Daisuke Nishijima**, *National Institute for Environmental Studies, Japan*

TU221 | Economic lifetime, hazard functions, and car inspection system | **Yuya Nakamoto**, *Kyushu University, Japan*

TU222 | Li-S batteries for electric vehicles, challenges for circular economy objectives | **Gabriela Benveniste**, *IREC, Spain*

TU223 | ATISOL C2C – Life cycle assessment as a tool for the ecodesing of a "vapour and air barrier membrane – insulator" system, in a cradle to cradle approach | **Sylvie Groslambert**, *University of Liège – Chemical Engineering, Belgium*

TU224 | Life Cycle Assessment of Recycled Asphalt and Biomaterials for Road Pavements | **Ana Jimenez del Barco Carrion**, *The University of Nottingham, UK*

TU225 | Dynamic vs static LCA to explore the sustainability of industrial waste recycling | **Andrea Di Maria**, *KU Leuven, Belgium*

TU226 | Pursuing the sustainable circular city – is environmental accounting supporting the transition? | **Anna Petit-Boix**, *University of Freiburg, Germany*

TU227 | Taking stock of a circular economy within planetary boundaries: A multi-scale analysis through consequential LCA | **Hanna Helander**, *University of Freiburg, Germany*

TU228 | Opportunities and threats in water treatment options as investigated by LCA | **Stefan Kools**, *KWR Watercycle Research Institute, Netherlands*

TU229 | Closing the loop in a territory: LCA approaches to boost resource recovery | **Marina Isasa**, *CETaqua Water Technology Centre, Spain*

TU230 | Innovative method to optimize territorial organic waste resources | **Giovanna Catalina Vega**, *The Technical University of Denmark (DTU), Denmark*

TU231 | Environmental Benefits of a Circular Economy: Connecting Waste Type and Geographic Proximity | **Regula Keller**, *Zurich University of Applied Sciences, Switzerland*

TU232 | Evaluation of nutrients and energy recovery technologies through Life Cycle approaches | **Marina Isasa**, *CETaqua Water Technology Centre, Spain*

TU233 | Life Cycle Assessment of a novel process of polyhydroxyalkanoates production with waste and by-products from wine industry value chain | **Serena Righi**, *University of Bologna, Italy*

TU234 | Environmental, social and economic challenges towards a bio-based economy: The STAR-ProBio project, Sustainability Transition Assessment and Research of Bio-based Products | **Serena Righi**, *University of Bologna, Italy*

TU235 | Integration of a Colombian bio-refinery from industrial palm oil waste into the circular economy | **Daniel Garrain**, *CIEMAT, Spain*

TU236 | Cradle-to-gate life cycle assessment of biogas production from palm oil mill effluent | **Marlia Mohd Hanafiah**, *Universiti Kebangsaan Malaysia, Malaysia*

TU237 | Challenges and open issues in assessing new technologies for circular economy solutions | **Paolo Masoni**, *Ecoinnovazione srl, Italy*

TU238 | Circular economy: What does restaurant food waste generation data and consumers say? | **Renata Dagiliute**, *Vytautas Magnus University, Lithuania*

TU239 | Assessment of Carbon Footprint of a typical Spanish dietary pattern: The Atlantic diet | **Sara González-García**, *University of Santiago de Compostela, Spain*

TU240 | Assessing life-cycle impacts of the sharing economy: How to account for behavioural changes? | **Donald Chapman**, *KU Leuven, Belgium*

Innovative techniques for enhancing and monitoring microbial activities for in situ remediation of contaminated sites (P) | Andrea Franzetti, Luca Alberti, Anna Barra Caracciolo, Paola Grenni

TU241 | Effects of plant growth and organic carbon addition on DDE degradation in soil | **Martina Cardoni**, *National Research Council of Italy, Italy*

TU242 | Soil microbial community associated to a poplar-assisted bioremediation study | **Valeria Ancona**, *Water Research Institute – Italian National Research Council, Italy*

TU243 | Plant-assisted bioremediation to recover multi-contaminated areas and provide biomass for renewable energy production | **Valeria Ancona**, *Water Research Institute – Italian National Research Council, Italy*

TU244 | Microcosm experiment to assess the effectiveness of a Populus clone to enhance PCB biodegradation in a historically contaminated soil | **Anna Barra Caracciolo**, *National Research Council, Italy*

TU245 | Are PCB half-lives obtained in rhizoremedition experiments reliable? Pitfalls in experimental design and suggested guidelines for conducting the experiments | **Elisa Terzaghi**, *University of Insubria (Como), Italy*

TU246 | Effect of Organic and Inorganic Fertilizers on the Bioremediation of Used Motor Oil Polluted Soil | **Paschaline Ferdinand**, *Federal University of Technology Owerri, Nigeria*

TU247 | Soil pollution and physico-chemical properties steer the bacterial community structure in the uneven highly polluted SIN Brescia-Caffaro site | **Francesca Mapelli**, *University of Milan – DeFENS, Italy*

TU248 | Laboratory-scale assessment of bioremediation of hydrocarbon-contaminated soil | **Federico Diana**, *University of Milano Bicocca, Italy*

TU249 | Influence of Surfactants and Mycobacterium vanbaalenii PYR-1 Bioaugmentation on 14C-Pyrene Mineralization and Microbial Community Structure in PAH-Contaminated Soils | **Douglas Wolf**, *University of California-Riverside, USA*

TU250 | Italian field results of Emulsified Lecithin-based Substrate used as ERD treatment of Chlorinated Solvents in groundwater | **Alberto Leombruni**, *PeroxyChem LCC, USA*

TU251 | Cheese whey effects on microbial communities in contaminated groundwater of an urban area | **Denisa Vlkova**, *Technical University of Liberec, Czech Republic*

TU252 | The Influence of Nanoscale Zero-valent Iron (nZVI) in Combination with Various Organic Compounds (Modifiers) on Dehalorespiring Microflora | **Kristyna Markova**, *Technical University of Liberec, Czech Republic*

TU253 | Mechanistic insight into microbial reductive dehalogenation | **Gerrit Schuurmann**, *Helmholtz centre for environmental research – UFZ, Germany*

TU254 | Bacterial biosorption of PFOS from contaminated waters | **Marios Stylianou**, *Orebro University, Sweden*

TU255 | Hexavalent chromium reduction in a biocathodic microbial electrolysis cell | **Gabriele Beretta**, *Politecnico di Milano, Italy*

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TU256 | Enhancing Reductive Dechlorination Combined with In-Situ Chemical Reduction for the Remediation of a Heavy Contaminated Chlorinated Solvents Source Zone in South of Italy | **Firoozeh Arjmand**, *CH2M Hill, Italy*

TU257 | Bioelectrochemical sulfide scavenging from hydrocarbon contaminated marine sediments | **Matteo Daghio**, *University of Milano – Bicocca, Italy*

TU258 | Freshwater sediment enrichments to improve MFCs performance for in situ remediation application: A phylogenetic microbial characterization | **Caterina Armato**, *University of Torino, Italy*

TU259 | Integration of molecular and isotopic analyses to investigate the potential of aerobic biodegradation at a site contaminated by Monochlorobenzene | **Tatiana Stella**, *University of Milano-Bicocca, Italy*

TU260 | Isotopic and Molecular Biology fingerprinting of a complex contaminated industrial area | **Tatiana Stella**, *University of Milano-Bicocca, Italy*

TU261 | Microbial ecology and ecosystem services: A key role for biotechnological applications | **Giuseppe Lembo**, *ENEA CR, Italy*

TU262 | Evaluation of bioremediation potential in groundwater using newly-developed software | **Magda Nechanická**, *Technical University of Liberec, Czech Republic*

Anthropogenic and natural sources of environmental contaminants highlight the impacts of opposing and conflicting regulations (P) | Martin Blank, Dirk Liss, Nicole Baran

TU263 | Remediation of aquatic ecosystems: Adsorption of phosphorus by sawdust | **Glaucia Pantano**, *Federal University of Sao Carlos, Brazil*

TU264 | Formation potential of trifluoroacetate and its estimation by means of the TOP assay | **Karsten Nödler**, *TZW DVGW-Technologiezentrum Wasser, Germany*

TU265 | A Challenge for pesticide regulators: The example of 1,2,4-triazol in groundwater – Overview of regulatory strategies in Germany, Denmark and France | **Balthasar Smith**, *BVL, Germany*

TU266 | PPPs on the basis of natural compounds: Nature challenges analytics | **Franziska Stahl**, *SGS Institut Fresenius GmbH, Germany*

Persistence & Biodegradation Assessment (P) | Graham Whale, Thouand Gerald, Jacques Lharidon, Arnaud Boivin

TU267 | Implication of microbial adaptation for the persistency of emerging pollutants | **Baptiste Poursat**, *University of Amsterdam/IBED Institute, Netherlands*

TU268 | Prioritization of organic compounds based on their persistence in dissolved phase | **Laura Fuster**, *EPOC, University of Bordeaux, France*

TU269 | OECD 308 tests to explore differences in persistence of pharmaceuticals and microbial diversity between two rivers | **Claudia Coll Mora**, *Stockholm University, Sweden*

TU270 | Compartment-Specific Screening Tools – Development and Application to Assess Potential Persistence of Organic Compounds in Water, Sediment and Soil | **Thomas Junker**, *ECT Oekotoxikologie GmbH, Germany*

TU271 | Persistency assessment of pesticides in Denmark | **Anne Louise Gimsing**, *The Danish Environmental Protection Agency, Denmark*

TU272 | Influence of Winter Conditions on Fungicide Persistence in North American Golf Course Turfgrass | **Paul Koch**, *University of Wisconsin – Madison, USA*

TU273 | Biodegradability of novel graft copolymer with levan and polystyrene | **Branka Lončarević**, *Institute of Chemistry, Technology and Metallyrgy, University of Belgrade, Serbia*

TU274 | Aerobic degradation of styrenated phenol in soil: Influence of the temperature and of the characteristics of the soils | **Marie-Hélène Enrici**, *SOLVAY, France*

TU275 | Comparison of kinetics and products of degradation determined for the toluenediamine substances in the OECD-standardized ready biodegradability and sediment simulation tests | **Christian Boegi**, *BASF SE, Germany*

TU276 | Evidence for Anaerobic Microbiodegradation of PCBs and PBDEs in Sediment cores from an e-Waste Site, South China | **Bixian Mai**, *Guangzhou Institute of Geochemistry, China*

TU277 | Transformation and degradation mechanisms of flame retardant triphenyl phosphate in aquatic environment | **Yeowool Choi**, *Gwangju Institute of Science and Technology, South Korea*

TU278 | Photolytic and biological degradation of silicon organic compounds | **Elisa Grabitz**, *Leuphana University Lueneburg, Germany*

TU279 | Biodegradation of adsorbed oil pollutants: Research on a model system | **Jelena Milic**, *Institute of Chemistry, Technology & Metallurgy, Serbia*

TU280 | Applying high-resolution mass spectrometry to evaluate chemical persistence in un-spiked natural waters | **Zhe Li**, *Stockholm University, Sweden*

TU281 | A Ultimately Transformed Organic Carbon (UTOC) approach to assess biodegradability of complex chemicals | **Mickael Cregut**, *University of Nantes, France*

TU282 | Development of a multi-sensors device to assess the biodegradation of chemicals | **Mickael Cregut**, *University of Nantes, France*

TU283 | Investigations on key parameters of an innovative biodegradation test based on cell proliferation | **Markus Seyfried**, *Firmenich, Switzerland*

TU284 | Challenges and Solutions of Ready Biodegradation Study with Difficult Substances | **Takahiro Suzuki**, *Kao Corporation, S.A., Spain*

TU285 | Influence of inoculum origin and adaptation on biodegradation of emerging contaminants | **Baptiste Poursat**, *University of Amsterdam/IBED Institute, Netherlands*

TU286 | Investigations on the role of adaptation in OECD biodegradation screening tests | **Markus Seyfried**, *Firmenich, Switzerland*

TU287 | Use of Chemical Analysis to Enhance Interpretation of Biodegradability Tests: A Case Study with Two Gas-to-Liquid (GtL) Products | **Graham Whale**, *Shell Health, UK*

TU288 | Organising an international ring test to improve the marine biodegradation screening test | **Amelie Ott**, *Newcastle University, UK*

TU289 | Tissue-specific accumulation of triphenyltin compounds in marine fishes in sub-tropical Hong Kong | **Ronia Sham**, *The University of Hong Kong, Hong Kong*

TU290 | POPs in the terrestrial environment of Schirmacher Hills, Antarctica: A preliminary study and implications for PCB degradation kinetics | **Asif Qureshi**, *IIT Hyderabad, India*

TU291 | Degradation of crop protection products in Brazilian soils | **Nastasia Baudin**, *Syngenta Product Safety, UK*

TU292 | Study of the Degradation of Bisphenol A by the basidiomycete fungus Trametes versicolor, via HPLC-DAD | **Elizabete Lima**, *UFABC, Brazil*

TU293 | Soil dissipation of paraffin oils: Improvement of the microbial degradation and impact on soil dissipation | **Philippe Adrian**, *CEHTRA SAS, France*

TU294 | Leaching of PAHs from Coal Mining Heap Samples from the Saarland | **Thomas Schiedek**, *Applied Geosciences, Germany*

When ecotoxicology meets trophic ecology (P) | Clémentine Fritsch, Michael Danger, M. Pereira

TU295 | Will detoxification processes developed by marine mammals still be efficient in the future? | **Paula Mendez**, *Observatoire Pelagis, France*

TU296 | Impact of biofilm growth on mercury accumulation in Daphnia magna | **Semona Issa**, *Norwegian University of Science and Technology, Norway*

TU298 | Multiple stressor effects on resource quality for consumers: A case study with phototrophic biofilm exposed to phosphorus and ionic silver | **Michael Danger**, *LIEC, France*

TU299 | Soil pollution induced changes in leaf litter chemical composition and in detritivore physiology and activity | **Florence Maunoury-Danger**, *LIEC – Université de Lorraine – CNRS, France*

TU300 | Decomposition rates and feeding activity of soil fauna in relation with stages of plant colonization in mine soils of a Mediterranean area | **Antonio Peñalver Alcalá**, *Escuela Técnica Superior de Ingeniería Agronómica. Universidad Politécnica de Cartagena, Spain*

TU301 | Effects of mineral supplements on lead exposure in free-ranging herbivores | **Jennifer Pareja Carrera**, *IREC-UCLM, Spain*

TU302 | Analysis of anticoagulant rodenticides, neonicotinoids and fipronil in liver of predatory birds | **Detlef Schenke**, *Julius Kühn-Institut – Federal Research Centre for Cultivated Plants, Germany*

TU303 | Trophic Magnification of POPs including PFCs Within A Terrestrial Food-Web of An Avian Top Predator, the Cooper's Hawk (Accipiter Cooperii) | **John Elliott**, *Environment Canada, Canada*

TU304 | Seasonal dynamics of zooplankton community, trophodynamics and Hg across a gradient from a DOM rich river to a marine system | **Sabrina Schultze**, *University of Oslo, Norway*

TU305 | Spatial comparison of contamination and biomagnification profiles of triphenyltin compounds in sub-tropical marine environments of Hong Kong | **Ronia Sham**, *The University of Hong Kong, Hong Kong*

TU306 | Comparative trophodynamics of polychlorinated biphenyls and chlorinated paraffins in an urban river | **Hélène Budzinski**, *University of Bordeaux, France*

TU307 | Copper and mercury effective body residues in freshwater macroinvertebrates as related to benthic community metrics from a mining river basin | **Leire Méndez-Fernández**, *University of the Basque country UPVEHU, Spain*

TU308 | Trophic transfer of Cadmium nitrate in a simplified marine food chain: Experimental feeding rate of gelatinous zooplankton Aurelia sp. and Sanderia malayensis on crustacean Artemia sp. | **Elisa Costa**, *CNR-ISMAR, Italy*

TU309 | Tissular injuries in Crassostrea virginica as evidence of the trophic transference of copper and cadmium via Chlorella sp. | **Guadalupe Barrera Escorcia**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

TU310 | Can microplastics save us? Effects of microplastic particles and particle-bound trace contaminants in an artificial aquatic food web | **Lisa Hanslik**, *COS University of Heidelberg, Germany*

TU311 | Toxicokinetics links predator-prey dynamics to assess zero-valent iron nanoparticles bioaccumulation in a Caenorhabditis elegans-Escherchia coli ecosystem | **YingFei Yang**, *National Taiwan University, Taiwan*

TU | Tuesday Poster Presentations

Use of Effect Based Methods in the context of the national and european legislative framework for the protection of aquatic ecosystems (P) | Mario Carere, Henner Hollert, Armelle Hebert

TU312 | Interest of in vitro bioassays (YES/YAS) for the screening of endocrine disruption in surface waters of Wallonia (Belgium) | **Carole Chalon**, *ISSeP, Belgium*

TU313 | Ecotoxicological tools to assess the impact pollution of tributaries to the Alqueva Reservoir (Southern Portugal) | **Patricia Palma**, *Instituto Politécnico de Beja, Portugal*

TU314 | Effects based tools for use in conjunction with passive samplers | **Rebecca Brown**, *wca consulting, UK*

TU315 | Innovative ecotoxicological monitoring strategies for the protection of aquatic ecosystems and the implementation of the Water Framework Directive (WFD) | **Walter Cristiano**, *Institute for Environmental Research, RWTH Aachen, Germany*

TU316 | Chemical and Ecotoxicological Monitoring of a marine coastal area in the Central Italy | **Mario Carere**, *Italian Institute of Health ISS, Italy*

TU317 | Use of diagnostic strains of the Salmonella/Microsome assay for the identification of mutagenic profiles on water samples and suspended particulate matter | **José Ricardo Rossetto Martins Zwarg**, *School of Technology, UNICAMP, Brazil*

TU318 | NTA meets EDA: A practical example | **Anne Simon**, *IWW Rheinisch-Westfälisches Institut für Wasserforschung gGmbH, Germany*

TU319 | Imposex levels in gastropods from the Northern Adriatic Sea (Italy): A proposal of classification according to the Water Framework Directive | **Federica Cacciatore**, *ISPRA-Institute for Environmental Protection and Research, Italy*

TU320 | Lessons Learned from Sibro Dam and River Restoration in Sweden | **Emma Hällqvist**, *Ramboll, Sweden*

Behavioural Ecotoxicology: Unravelling behavioural responses to chemical contaminants in the environment (P) | Minna Saaristo, Kathryn Arnold, Bryan Brooks, Gregory Pyle

TU321 | Impacts of methylmercury on growth, respiration and swimming in larvae of a marine forage fish | **Xiayan Ye**, *Stony Brook University, USA*

TU322 | Comparability of Zebrafish Embryo Behavioral Assays: A Need for Standardization of Experimental Factors | **Afolarin Ogungbemi**, *Helmholtz centre for environmental research – UFZ, Germany*

TU323 | Effects of 17α-ethynylestradiol (EE2) on social behaviors of the false clown anemonefish (Amphiprion ocellaris) | **Te-Hao Chen**, *National Museum of Marine Biology and Aquarium, Taiwan*

TU324 | Impacts of environmentally realistic antidepressant exposure on reproductive behaviour and sperm traits in fish | **Jake Martin**, *Monash University, Australia*

TU325 | Determining the effects of antidepressants on multiple behaviours in a marine and freshwater amphipod | **Shanelle Kohler**, *University of Portsmouth, UK*

TU326 | Inter-species variability in the behaviour of a marine and freshwater amphipod | **Shanelle Kohler**, *University of Portsmouth, UK*

TU327 | Physiological basis of individual tolerance to the benzodiazepine oxazepam in zebrafish (Danio rerio) | **Laura Vossen**, *Uppsala University, Sweden*

TU328 | Reversible behavioural alterations in burbot, Lota lota, from exposure to environmentally relevant levels of oxazepam | **Josefin Sundin**, *Norwegian University of Science and Technology, Norway*

TU329 | Behavioural endpoints and biochemical biomarkers as tools to investigate effects of citalopram in brown trout (Salmo trutta f. fario) | **Michael Ziegler**, *University of Tubingen, Germany*

TU330 | Assessing the direct and indirect effects of chemical contaminants on the behaviour, ecology and evolution of wildlife: A conceptual framework | **Kathryn Arnold**, *University of York, UK*

TU331 | Scent and sensibility: EE2 disrupts male mate choice in fish | **Minna Saaristo**, *Monash University, Australia*

TU332 | Effects of tributyltin on the eyes, swimming, feeding and growth of newborn guppies Poecilia vivipara | **Paulo Carvalho**, *UFPE – Universidade Federal de Pernambuco, Brazil*

TU333 | Chemosensory behavioral reactions of zebrafish larvae to environmental contaminants | **Sarah Könemann**, *Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland*

TU334 | Urban sewage effluents into an alpine stream: Are information on behavioural effects on Daphnia magna suitable to protect alpine cold adapted species? | **Valeria Di Nica**, *University of Milan – Bicocca, Italy*

TU335 | Do silver and titanium dioxide nanoparticles influence the fish kairomone induced anti-predator defence in Daphnia magna? | **Anna Beasley**, *University of Siegen, Germany*

TU336 | Behavioral and Physiological Responses of Daphnia magna to Fluoxetine and Propranolol Exposure | **Peter Roslev**, *Aalborg University, Denmark*

TU337 | How toxic is a non-toxic nanomaterial: Behaviour as an indicator of effect in Danio rerio (zebrafish) exposed to nanogold | **Tarryn Botha**, *North-West University, South Africa*

TU338 | The effects of silver and silver nanoparticles via different routes of exposure on behaviour in marine amphipods | **Monizze Vannuci-Silva**, *UNICAMP, Brazil*

TU339 | Developing methods to determine aquatic invertebrate behavioural endpoints for regulatory ecotoxicology studies | **Amy Brooks**, *Cambridge Environmental Assessments, UK*

TU340 | The effects of sublethal doses of pollutants on crop pest, Spodoptera littoralis | **David Siaussat**, *Institute of Ecology and Environmental Sciences, France*

TU341 | The effect of copper nanoparticles on olfaction in rainbow trout (Oncorhynchus mykiss) | **Parastoo Razmara**, *University of Lethbridge, Canada*

Informed substitution of hazardous chemicals for circular economy: Science and practice (P) | Peter Simpson, Hugo Waeterschoot, Ian Cousins, Patrik Andersson

TU342 | Perfluoroalkyl acids concentrations in liquid wastes: A survey campaign and implications for waste disposal | **Sara Valsecchi**, *Water Research Institute – Italian National Research Council IRSA-CNR, Italy*

TU343 | Regenerated Textile raw materials: Chemical contamination for LCA | **Andrea Franchi**, *Buzzi Laboratorio Analisi, Italy*

TU344 | Challenges for a comparative risk assessment among conventional hazardous substances and alternatives for textile finishing. Two case studies: Flame retardants and durable water and oil repellents | **Maria Diez-Ortiz**, *Leitat Technological Center, Spain*

TU345 | Substitution of firefighting foams containing per – and polyfluorinated alkyl substances (PFASs) | **Annegret Biegel-Engler**, *German Environment Agency – UBA, Germany*

TU346 | The Paradigm of Substitution – expand your view | **Malte Zimmer**, *ZVO e.V., Germany*

TU347 | A pilot case on how Socio-Economic Evidence can inform Risk Management decision making to assess Substitution versus Recycling for non-ferrous metals slags in safe use applications | **Hugo Waeterschoot**, *Eurometaux, Belgium*

Developments in the ecological and human health risk assessment of biopesticides: Microorganisms, semiochemicals and botanicals (P) | Elizabeth Collison, Jacobijn van Etten, Alison Hamer

TU348 | Ecotoxicity of the hydrolate byproduct of three biopesticides on the unicellular green algae Chlamydomonas reinhardtii | **María Rosa Pino**, *San Jorge University, Spain*

TU349 | Ecotoxicological evaluation of the hydrolate byproduct of Satureja montana on Daphnia magna and Vibrio fischeri | **María Rosa Pino**, *San Jorge University, Spain*

TU350 | The impact of the hydrolate byproduct of three biopesticides on the soil environment | **María Rosa Pino**, *San Jorge University, Spain*

TU351 | Acute toxicity of emulsifiable concentrate of Alpinia galangal essential oil against Cyprinus carpio | **Hyeong-Mi Kim**, *Kyungpook National University, South Korea*

TU352 | Chronic toxicity of emulsifiable concentrate of cinnamon essential oils against Cyprinus carpio | **Hwangju Jeon**, *Kyungpook National University, South Korea*

TU353 | Thiosemicarbazone scaffold for the design of antifungal and antiaflatoxigenic agents: Evaluation of ligands and related metal complexes | **Serena Montalbano**, *University of Parma, Italy*

Understanding human and environmental exposure to chemicals in urban systems (P) | Todd Gouin, Miriam Diamond, Antonia Praetorius, Alistair Boxall

TU354 | Electronic products are related with household exposures in Canadian residents | **Miriam Diamond**, *University of Toronto, Canada*

TU355 | Modelling diffuse emissions and fate of engineered nanoparticles used in outdoor paints to urban surface waters at high spatial and temporal resolution | **Maria del Prado Nuñez**, *University of York, UK*

TU356 | Occurrence and human exposure of parabens, triclosan and triclocarban in personal care products from Korea | **Sori Mok**, *Hanyang University, South Korea*

TU357 | Characteristics of exposure factors for consumer products in Korean infant and caregivers pair | **Kiyoung Lee**, *Seoul National University, Graduate School of Public Health, South Korea*

TU358 | Analysis of metabolites of organophosphate and pyrethroid pesticides in urine from Italian children | **Natalia Bravo**, *CSIC-IDAEA, Spain*

TU359 | PAH levels in parturient and newborns from Aveiro region, Portugal | **Marta Monteiro**, *Aveiro University, Portugal*

TU360 | A modelling framework to link aggregate exposure pathways with internal exposures and potential bioactivity | **Jon Arnot**, *ARC Arnot Research & Consulting, Canada*

TU361 | Environmental impact of lead mining on the bio-ecosystem in Ishiagu town of Ebonyi state in South-Eastern Nigeria | **Silvanus Anika**, *University of Nigeria, NSUKKA, Nigeria*

TU | Tuesday Poster Presentations

TU362 | Evaluation of potential risk of rare earth element contamination from leachate originating from electronic waste disposal | **Vernon Somerset**, *CPUT, South Africa*

TU363 | A stonework snail as a new biomonitor of metal contamination in the urban environment | **Stefania Ancora**, *University of Siena, Italy*

TU364 | Metals Distribution in Urban Garden Soils in Greater Victoria, BC, Canada | **Matt Dodd**, *Royal Roads University, Canada*

TU365 | Soil quality analysis, a lever for identifying sources of trace elements and managing urban allotments for urban agriculture production | **Marc Legras**, *UniLaSalle – Campus Rouen, France*

TU366 | Vertical movement of PCBs in agricultural soils impacted by an historical contaminated site: Using SoilPlus model to predict discharge, dynamics of movement in soil, and rhizoremediation potential | **Antonio Di Guardo**, *University of Insubria, Italy*

TU367 | Metals and metalloids in inhalable fractions of urban road dust | **Clare Wiseman**, *University of Toronto, Canada*

TU368 | Sequential extraction and particle size distribution of Cd, Cu, Pb and Zn in street dust of Belgrade (Serbia) | **Tatjana Solevic Knudsen**, *IChTM, Serbia*

TU369 | "New" OPEs: Isopropylated, tert-butylated and di-tert-butylated Triarylphosphate Isomers in E-waste, House, Car and NIST SRM Dust | **Tim Rodgers**, *University of Toronto, Canada*

TU370 | Oxidative potential of particulate matter collected at industrial and urban sites | **Lorenzo Massimi**, *Sapienza University of Rome, Italy*

TU371 | Chromatographic determination of the pathway of nevirapine in wastewater at a wastewater treatment plant | **Vernon Somerset**, *CPUT, South Africa*

TU372 | Leucomethylene blue: a selective photometric reagent for chlorine dioxide analysis in water | **Ricard Devesa**, *Aigues de Barcelona, Spain*

TU373 | Fate and effects of triclosan in subtropical freshwater benthic microcosms | **Fengjiao Peng**, *Wageningen UR, Netherlands*

TU374 | Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology (ISES-ISEE 2018) | **Miriam Diamond**, *University of Toronto, Canada*

Challenges in setting, meeting and measuring specific protection goals for plant protection products (P) | Lorraine Maltby, Peter Campbell

TU375 | French Phytopharmacovigilance: A national scheme for monitoring the adverse effects of plant protection products | **Fabrizio Botta**, *ANSES, France*

TU376 | Measuring and Modeling Aluminium Bioavailability and Toxicity to Aquatic Organisms | **Bill Stubblefield**, *Oregon State University, USA*

TU377 | Modelling impacts of chemicals on ecosystem services | **Pernille Thorbek**, *Syngenta, UK*

TU378 | Sulphur: Conflicting protection goals | **Frank Bakker**, *Eurofins-Mitox, Netherlands*

The Need for Resilience in Environmental Impact Assessment (P) | Richard Wenning, Sabine Apitz, Lawrence Kapustka, Thomas Seager

TU379 | Recovery in environmental risk assessments at the European Food Safety Authority (EFSA) | **Theo C.M. Brock**, *Alterra, Wageningen University and Research Centre, Netherlands*

TU380 | Habitat Equivalency Analysis for a Restoration Resilience Model of the Rio Doce Basin | **Pieter Booth**, *Ramboll Environ, USA*

TU381 | Using risk and recovery information in environmental cost-benefit analysis for determining appropriate risk management actions at major industrial facilities | **Samantha Deacon**, *Ramboll Environment & Health Limited, UK*

TU382 | Addressing Resilience in Ecosystem Services Assessment | **Elisa Bizzotto**, *Ramboll, Italy*

TU383 | Use of cost modelling techniques to manage environmental subsurface risks, liabilities and uncertainties in Spain | **Peter Wouters**, *Ramboll Environ, Spain*

TU384 | Quality stakeholder involvement for resilience in environmental risk assessment | **Yevgeniya Tomkiv**, *Norwegian University of Life Sciences (NMBU), Norway*

TU385 | Assessment and Management of Radiation Risks following a Nuclear Accident: The Shamisen Project Recommendations | **Yevgeniya Tomkiv**, *Norwegian University of Life Sciences, Norway*

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TU386 | SETAC Ecosystem Services Interest Goup | **Sabine Apitz**, *SEA Environmental Decisions Ltd, UK*

Air Pollution, Biomonitoring and Human Health (P) | Luisella Ciancarella, Carmela Tortorella, Dominique Courcot

TU387 | Assessment of Indoor Radon Concentration and Trace Metals Composition in University Building Microenvironments | **Marlia Mohd Hanafiah**, *Universiti Kebangsaan, Malaysia*

TU388 | Paradigm for PM2.5 Chemical and Biological Characterization: Paired Home and Personal PM2.5 Samples in Kheri, India | **Courtney Roper**, *Oregon State University, USA*

TU389 | Toxicity of airborne particulate matter as a factor to choose the most convenient school | **Marta Schuhmacher**, *Rovira i Virgili University, Spain*

TU390 | Acute Impacts of Extreme Hot Temperature Exposure on Emergency Room | **Chi-Jung Chung**, *China Medical University, Taiwan*

TU391 | Characteristics of Polybrominated Diphenyl Ethers Released from Primitive E-Waste Treatment | **TingYu Li**, *Jinan University, China*

TU392 | How risky is the schoolyard? An approach from chemical composition of particulate matter | **Joaquim Rovira**, *Universitat Rovira i Virgili, Spain*

TU393 | Good news to lazybones kids: Increasing sleeping time decreases exposure to airborne particulate matter | **Marta Schuhmacher**, *Rovira i Virgili University, Spain*

TU394 | Occupational Cement Dust Exposure: Effect on blood level of some antioxidant enzymes and vitamins in Owerri, Nigeria | **Chioma Unadike**, *Imo State University Owerri, Imo State, Nigeria*

TU395 | Implementing NH3 mitigation strategies in a pig farm: Different approaches to evaluate the environmental impact | **Cecilia Baldini**, *Università degli Studi di Milano, Italy*

TU396 | Development of an In Vitro Method to Evaluate the Inhalation Bioaccessibility of Particle-Bound Hydrophobic Organic Chemicals and its Effects of Particle Size | **Shanyi Xie**, *Jinan University, China*

TU397 | Toxicity does not vanish into thin air – molecular mechanisms of air pollutant mixtures | **Zuzana Novakova**, *Masaryk University, Czech Republic*

TU398 | Human health assessment of air pollution exposure to tuberculosis risk in regions of Taiwan | **Hsing-Chieh Lin**, *National Taiwan University, Taiwan*

TU399 | Towards green braking: Comparative evaluation of toxicological profile of particles generated by traditional and innovative braking systems | **Simone Maiorana**, *Istituto di Ricerche Farmacologiche Mario Negri, Italy*

TU400 | Toxic oxidation transformation products of phenanthrene measured in laboratory generated secondary organic aerosol particles | **Amber Kramer**, *Oregon State University, USA*

TU401 | Chemical analysis and risk assessment for toxic compounds in PM2.5 in Gwangju, Korea | **Injeong Kim**, *Gwangju Institute of Science and Technology, South Korea*

TU402 | Source apportionment study of PM10 and PM2.5 using selective wind direction sampling technique in the area of Civitavecchia (Italy) | **Roberta Valentina Gagliardi**, *Istituto Superiore di Sanità, Italy*

TU403 | Forecasting global atmospheric visibility based on air quality and meteorological data | **Hang Xiao**, *NUEORS, Chinese Academy of Sciences, China*

TU404 | Analyzing the Asian supply chain structure of health impacts with PM2.5 including secondary particle | **Fumiya Nagashima**, *Kyushu University, Japan*

TU405 | Source contributions to PM10 levels in a coastal area in northern France: A one year study | **Frédéric Ledoux**, *University of Littoral Côte dOpale, France*

TU406 | Source-to-exposure assessment of industrial organic pollutants in Australia, using the Pangea multi-scale framework | **Olivier Jolliet**, *University of Michigan, USA*

TU407 | Non-targeted screening of DNA adducts as biomarkers for human exposure to PAHs in the environment with liquid chromatography tandem mass spectrometry | **Yong-Lai Feng**, *Health Canada, Canada*

TU408 | Global inter-comparison of polyurethane foam passive air samplers evaluating variability due to sampler design and analysis | **Pernilla Bohlin Nizzetto**, *NILU – Norwegian Institute for Air Research, Norway*

TU409 | Microplastic Indoor Air Pollution Using a Simulated Breathing Mannequin – µFT-IR Imaging Quantification | **Alvise Vianello**, *Aalborg University, Denmark*

TU410 | Composite electrospun fibers based on sustainable and biodegradable polymers for monitoring air pollution | **Antonella Macagnano**, *CNR-Institute of Atmospheric Pollution Research, Italy*

TU411 | Determination of Cross Compartment Concentration Gradients of Polycylic Aromatic Hydrocarbons using PE Passive Samplers | **Jana Meierdierks**, *University of Tubingen, Germany*

TU412 | Evaluating Computational and Structural Approaches to Predict Transformation Products of Atmospheric Polycyclic Aromatic Hydrocarbons | **Ivan Titaley**, *MTM Research Centre, Orebro University, Sweden*

TU413 | Spatial distribution of gas-phase Polycyclic Aromatic Hydrocarbons along South America and Antarctica | **Gilberto Fillmann**, *Universidade Federal do Rio Grande FURG, Brazil*

TU414 | Importance of Dermal Exposure to Polycyclic Aromatic Hydrocarbons Derived from Barbecue Fume | **Jia-yong Lao**, *Jinan University, China*

TU415 | EDS Mapping of Particles As A Component of Lichen Biomonitoring in Seattle, Washington | **Gunnar Guddal**, *Western Washington University, USA*

TU416 | TBARS in horse hair as an indicator of oil industry pollution | **Marija Kovačević**, *Department of Biology, University of Osijek, Croatia*

TU417 | Morbidity for environment-related diseases in La Spezia, northwest Italy: An epidemiological analysis on hospital discharge rates | **Francesca Lucaroni**, *University Rome Tor Vergata, Italy*

TU | Tuesday Poster Presentations

TU418 | Risk Assessment of Polyethylene Residues and Organoleptic Attributes of Bambara nut pudding (Okpa) Samples prepared using Alternative Cooking Materials | **Taiwo Otitoju**, *University of Nigeria Nsukka, Nigeria*

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TU419 | SETAC Human Health Risk Assessment Interest Group | **Brian Mulhearn**, *Ensafe Inc., USA*

Fungicides – An overlooked compound group? Fate, effects, risk assessment and mitigation (P) | Ralf Bernhard Schäfer, Jochen Zubrod, Jes Rasmussen, Gertie Arts

TU420 | Ecological risk assessment of conazole fungicides in arable soils of the Czech Republic | **Jana Vasickova**, *Masaryk University, Czech Republic*

TU421 | Concentration – and time-dependent dissipation, partitioning and plant accumulation of selected fungicides, insecticide, herbicide and transformation product in sand and soil | **Lucie Bielska**, *Masaryk University, Czech Republic*

TU422 | Evaluation of pesticides and fungicides transport using passive sampling devices in a vineyard catchment in South West France | **Juliette Gaillard**, *Université de Bordeaux, France*

TU423 | Assessment of secondary exposure to fungicide residues in fruit-growing workers: Analysis, levels and sources | **Geoffroy Duporte**, *Université de Bordeaux, France*

TU424 | Intra-tracheal administration of the disinfectant, chloromethylisothiazolinone/ methylisothiazolinone (CMIT/MIT), in a mouse model to evaluate a causal association with death | **Yeongchul Park**, *GLP Center, Catholic University of Daegu, South Korea*

TU425 | Genotoxic response and alteration of intracellular redox balance in Hep-2 cell line by exposure to Iprodione | **María Rios de Molina**, *Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Argentina*

TU426 | Toxicological effects of commercial fungicides on the earthworm Eisenia fetida (Savigny, 1826): Laboratory and field investigations | **Silvia Casini**, *University of Siena, Italy*

TU427 | Potential Salinity Enhanced Impacts of the Phototoxicity of the Fungicides to Inland Silversides, Menidia beryllina | **Emily Vebrosky**, *Louisiana State University, USA*

TU428 | From mother to offspring: Multigenerational effects of carbendazim at individual and subcellular levels in Daphnia magna | **Ana Silva**, *University of Aveiro, Portugal*

Submit your abstract by 6 June!

SACRAMENTO.SETAC.ORG

SETAC North America 39th Annual Meeting

4–8 NOVEMBER 2018 | SACRAMENTO, CA, USA

"Bridging Divides Between Environmental Stewardship and Economic Development"

Sacramento

SOCIAL DINNER WITH ANCIENT ROME GUIDED TOUR

Wednesday, 16 May |
6:00 p.m.–10:30 p.m. |
Meeting Point: Registration Area |
SOLD OUT

Enjoy a guided walking tour from Colosseo through Foro Romano, Piazza Venezia and Teatro Marcello, followed by a typical Roman dinner with appetiser, pasta and pizza.

A private transfer is organised.

SETAC Europe
13th Special Science Symposium

Extrapolation Across Biological Levels:
From Measurement to Assessment Endpoint

23–24 October 2018 I Brussels, Belgium

Registration opens 8 June.

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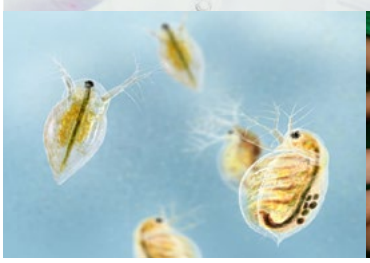

WEDNESDAY 16 MAY

Daily Schedule		Location
7:30 a.m.–6:30 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
08:00 a.m.–11:15 a.m.	SETAC Job Event	Meeting Room 11
8:30 a.m.–10:05 p.m.	Platform Session *Morning 1*	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session *Morning 2*	
12:25 p.m.–1:55 p.m.	Lunch Break and Poster Viewing	Exhibition Hall
1:55 p.m.–3:30 p.m.	Platform Session *Afternoon*	
12:25 p.m.–1:55 p.m.	SETAC Europe Annual General Assembly	Workshop Room
3:30 p.m.–4:15 p.m.	Coffee Break & Poster Viewing	Exhibition Hall
4:15 p.m.–5:00 p.m.	Keynote Speaker Jason Snape	Session Room A+B
5:15 p.m.–6:15 p.m.	Poster Social	Exhibition Hall
6:00 p.m.–10:30 p.m.	Social Dinner with Ancient Rome Guided Tour	Registration Desk

KEYNOTE SPEAKER

Wednesday, 16 May | 4:15 p.m.–5:00 p.m. | Session Room A+B

The Environmental Dimension of Antimicrobial Resistance: Assessing and Managing the Risks of Anti-Infectives

Jason Snape

AstraZeneca Global Safety, UK

Jason Snape is the Senior Principal Environmental Scientist within AstraZeneca and is the Director of their Safety, Health and Environment (SHE) Research and Foresight programmes. Jason is an environmental microbiologist, biochemist and environmental risk assessor who provides scientific leadership on the pharmaceuticals in the environment (PIE) issue for AstraZeneca and helps support the wider Pharmaceutical Industry. Jason's specific expertise and research is focused on (i) the environmental risk assessment of human medicinal products, (ii) the biodegradation and persistence of chemicals in the environment, (iii) determining the significance of antimicrobial resistance (AMeeting Room) in the environment as a source of resistance for clinical infection and the development of appropriate regulatory frameworks and guidance to improve environmental risk assessment for anti-infectives, and (iv) assessing the risks posed by medicinal products in emerging markets where use and exposure patterns differ due to the absence of adequate waste and drinking water treatment infrastructure. Most of Jason's research is focused on supporting science – and evidence-based policy and regulation. Jason is a member of the European Federation of Pharmaceutical Industry Associations (Efpia) PIE Task Force, its Governance Team, and chairs its Environmental Risk Assessment Group. Jason also sits on the International Federation of Pharmaceutical Manufacturers and Associations (IFPMA) AMeeting Room Alliance Working Group for Manufacturing and managing its environmental impacts. Jason holds a Honorary Professorship at the Universities of Warwick and Newcastle. Jason is a member of the SETAC Pharmaceutical Interest Group and sits on the UK Natural Environment Research Council (NERC) Innovation Advisory Board.

WEDNESDAY 16 MAY

Satellite Meetings		Location
08:00 a.m.–11:15 a.m.	SETAC Job Event	Meeting Room 11
08:30 a.m.–5:00 p.m.	Smithers Viscient Meeting Room	Meeting Room 2
11:00 a.m.–12:00 p.m.	Education Committee	Meeting Room 6
11:00 a.m.–12:00 p.m.	Global SETAC Plant Interest Group Steering Committee Meeting	Meeting Room 7
12:00 p.m.–2:00 p.m.	SETAC LRP strategic goal 1(b)	Meeting Room 8
12:25 p.m.–1:55 p.m.	Agilent Lunch Seminar – Your partner for pollutant testing: Emerging to persistent	Meeting Room 3
12:25 p.m.–1:55 p.m.	SETAC Europe Annual General Assembly	Workshop Room
2:00 p.m.–7:00 p.m.	SUPFES Internal Meeting	Meeting Room 1
2:00 p.m.–4:15 p.m.	SETAC Europe Council	Meeting Room 7
2:30 p.m.–3:30 p.m.	Students Assembly	Workshop Room
4:00 p.m.–5:00 p.m.	Exposure Modelling Interest Group	Meeting Room 10
4:00 p.m.–5:30 p.m.	Global SETAC Plant Interest Group - Open meeting	Meeting Room 9
4:00 p.m.–6:00 p.m.	OMICs Interest Group	Meeting Room 6
4:30 p.m.–5:30 p.m.	Early Career Development Group	Workshop Room
4:30 p.m.–5:30 p.m.	Working group: Implementing Research for Environmental Quality	Meeting Room 8
5:00 p.m.–7:00 p.m.	LCIA Stakeholder Workgroup	Session Room N
5:15 p.m.–5:45 p.m.	CRA Information Session	Meeting Room 3
6:00 p.m.–7:00 p.m.	Wildlife Toxicology Interest Group	Session Room O
6:00 p.m.–10:30 p.m.	Social Dinner with Ancient Rome Guided Tour	Registration Desk

SETAC Europe Job Event

Students and companies meet each other to discuss job opportunities during the speed dating event. Before and after the speed dates, there will be time to network during the breakfast.

Wednesday, 16 May | 8:00 a.m.–11:15 a.m. | Meeting Room 11

SETAC Europe Annual General Assembly

Hear about the activities of SETAC Europe in 2017 and bring your vote to approve the financial report 2017, elect new members for the council and give directions for 2018.

Not sure if you are a voting SETAC Europe member? Come and meet us at the registration desk.

Wednesday, 16 May | 12:25 p.m.–1:55 p.m. | Workshop Room

PROGRAMME HIGHLIGHTS

★ Special Session

Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea

Wednesday, 16 May | 8:30 a.m.–10:05 a.m. | Session Room Q

Maria Cristina Fossi
University of Siena, Italy

Gaetano Leone
UNEP/Mediterranean Action Plan, Greece

Francesco Degli Innocenti
Novamont S.p.A., Italy

This special session fits in the general scope of the SETAC Rome meeting ("Responsible and Innovative Research for Environmental Quality") and deals with the general problem of plastic litter, but with particular regard the Mediterranean area where the meeting will be held, with a special focus on a multi-stakeholders approach. The Mediterranean Sea is one of the most affected areas by marine litter in the world. Plastics and other polymer materials are the most common types of marine litter, representing some 80% of litter found. As larger pieces of plastic debris fragment into smaller pieces, the abundance of microplastics (plastic fragments smaller than 5 mm) in marine habitats increases; 115.000-1.050.000 particles/km2 are estimated to float in the Mediterranean Sea (Fossi et al 2012; UNEP/MAP, 2015; Suaria et al., 2017). The marine litter problem in the Mediterranean is exacerbated by the basin's limited exchanges with other oceans, highly developed coastal tourism, densely populated coasts, busy offshore waters (with 30% of the world's maritime traffic), waste disposal sites often located close to the coast; high temperatures accelerating litter degradation into secondary products that are difficult to collect or treat; and inputs of litter from very urbanized areas and large rivers. Marine litter and in particular floating plastic have been found in the Mediterranean Sea in comparable quantities to those found in the five oceanic garbage patches. In this respect, recent studies based on global models have proposed the Mediterranean Sea as the sixth greatest accumulation zone for marine litter. Marine litter and in particular plastic fragments and microplastics' impact on marine biota is mainly attributed to plastic ingestion: a number of plastic additives have been found in considerable concentrations in endangered marine mammals. Bigger marine litter items, like plastic bags, are a proven threat for sea turtles and especially for the endangered species *Caretta caretta*.

Despite the recent advances made within the framework of the Barcelona Convention Regional Plan for Marine Litter Management in the Mediterranean and the EU Marine Strategy Framework Directive (Descriptor 10), there is still a long way ahead to tackle marine litter in the Mediterranean and reduce the risks posed to Mediterranean marine wildlife. In line with the urgent need to act at a regional level, the Contracting Parties to the Barcelona Convention (all Mediterranean riparian countries and the EU) agreed on a Regional Plan on Marine Litter Management in the Mediterranean. The regional plan, which is the first legally binding regional instrument, aims to minimize marine litter presence and its impacts in the Mediterranean. It also specifies in its Article 18 that its implementation necessitates cooperation among regional partners and actors.

This special session envisages to showcase the Mediterranean answer to the global problem of marine litter and as such share experience on how Academy, Industry, Governance actors and different key regional stakeholders in their various capacities can work together in a coordinated manner to address Mediterranean marine litter management.

Programme

08:30 a.m.	Introduction
08:35 a.m.	Harmful effects of plastic litter on Mediterranean Biodiversity: What and what's new? | **Maria Cristina Fossi**, *University of Siena, Italy*
08:47 a.m.	Impact of marine litter in the Mediterranean Sea: Monitoring and specific reduction measures within MSFD | **Francois Galgani**, *Ifremer, France*
08:59 a.m.	Addressing the growing threat of marine litter: NGOs essential role in strengthening the science-policy-society interface | **Thomie Vlachogianni**, *Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE), Greece*
09:11 a.m.	Biodegradable plastics: Potential application in aquaculture and other applications at high risk of dispersion | **Francesco Degli Innocenti**, *Novamont S.p.A., Italy*
09:23 a.m.	Marine Litter Governance in the Mediterranean through the implementation of the Regional Action Plan on Marine Litter Management in the Mediterranean | **Gaetano Leone**, *UNEP/Mediterranean Action Plan, Greece*
09:35 a.m.	Science and awareness: A Mediterranean Connection Against Marine Litter. First Results of the Commitment Presented at UN Ocean Conference | **Giorgio Zampetti**, *Legambiente, Italy*
09:47 a.m.	Discussion
09:57 a.m.	Final Remarks | **Gaetano Leone**, *UNEP/Mediterranean Action Plan, Greece*
10:05 a.m.	End

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PROGRAMME HIGHLIGHTS

Special Session

Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals and the Hazard They May Represent

Wednesday, 16 May | 10:50 a.m.–3:30 p.m. | Session Room Q

Annegaaike Leopold
Calidris environment bv, Netherlands

Thomas-Benjamin Seiler
RWTH Aachen University, Germany

Charmaine Ajao
ECHA, Finland

Creating awareness through improvement of science and risk communication to and among stakeholders was the topic that was given highest priority by a group of environmental science stakeholders who attended the Horizon Scanning Project Stakeholder Event at the SETAC Europe Conference in Brussels on the 11th of May 2017. Hence this session is an immediate response to this recognised need.

Society cannot function in the absence of chemicals, at least not for the foreseeable future and not without radically changing our way of life. Therefore, it is essential that we find the right balance between the need for chemicals and the hazard that they might cause to human health and the environment. Essential to achieving this balance is the need for accurate communication about the real risk posed by chemicals in the environment, to be distinguished from emotions, beliefs, concerns or even fears. Attaining a shared understanding of findings from environmental research among scientists, policy makers and the public is a challenge, and is of critical importance if we want to clearly communicate risks and make informed decisions that will protect human health and the planet building on scientific facts rather than on opinions.

This special session will address some examples of topics that are of societal concern, about which there are differences in opinion between groups. The objective of this session is to demonstrate how through good science, constructive discussion and open communication, scientific and regulatory progress, respected by all stakeholders, can be made to promote environmental sustainability.

Programme

10:50 a.m.	Introduction
10:55 a.m.	How researchers can work in alliance with citizens to fight misinformation and improve public debates | **Sofie Vanthournout**, *Sense About Science EU, Belgium*
11:10 a.m.	Discussion: the need to promote good science and evidence in public debates
11:15 a.m.	How to communicate the risks posed by endocrine disrupting chemicals? (I) | **Juliette Legler**, *Utrecht University, Netherlands*
11:23 a.m.	How to communicate the risks posed by endocrine disrupting chemicals? (II) | **Markus Hecker**, *University of Saskatchewan, Canada*
11:30 a.m.	Discussion Endocrine Disrupting Chemicals
11:35 a.m.	A regulator's perspective in involving stakeholders and the public in the regulation of a substance | **Charmaine Ajao**, *ECHA, Finland*
11:50 a.m.	Questions and Discussion
11:55 a.m.	General Discussion with panel of Sofie Vanthournout, Juliette Legler and Markus Hecker
12:20 p.m.	Concluding remarks part I and a teaser for part II! | **Annegaaike Leopold**
12:25 p.m.	Lunch and poster viewing
1:55 p.m.	Introduction
2:00 p.m.	Nanotechnology: When shading effects through agglomeration of carbon nanotubes (CNT's) are confused with toxicity by media and the public – a case example revisited | **Fabienne Schwab**, *Adolphe Merkle Institute, Switzerland*
2:08 p.m.	Nanotechnology: Communicating scientific findings through media – what could possibly go wrong? Lessons learned from Schwab's nanotubes | **Gunilla Öberg**, *The University of British Columbia, Canada*
2:15 p.m.	Discussion Nanotechnology
2:20 p.m.	Microplastics: The risks of plastics – perceived or real? | **Michiel Kotterman**, *IMARES – Wageningen University & Research, Netherlands*
2:30 p.m.	Lost in translation: Do we communicate the risks of (micro)plastics in the right way? | **Martin Wagner**, *Norwegian University of Science and Technology, Norway*
2:40 p.m.	Ocean Literacy – changing attitudes and behaviour of society in the face of the problems of the oceans | **Angel Borja**, *AZTI-Tecnalia, Spain*
2:50 p.m.	Discussion Microplastics
3:00 p.m.	General discussion with panel of all speakers about topics emerging from the session
3:25 p.m.	Wrap-up and closing | **Annegaaike Leopold**
3:30 p.m.	End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	**Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects With Environmental...**		
	362 | Towards a systematic approach for the assessment of multiple stressors: Making Aquatic Ecosystems Great Again (MAEGA) | **Donald Baird**, *Environment Canada, Canada*	363 | Predicting the response of ditch ecosystems to multiple stressors | **Sally Bracewell**, *Wageningen University & Research, Netherlands*	364 | The combined effects of nutrients and thiacloprid on macrofauna invertebrate population and community responses | **Henrik Barmentlo**, *Leiden University, Netherlands*
Session Room B	**PBT/vPvB & PMT/vPvM Substances and Non-Extractable Residues (NER): Scientific Strategies, Analytical Challenges and...**		
	368 | RPLC-HILIC and SFC coupled with Mass Spectrometry: Polarity Extended Screening of organic molecules in the aqueous environment | **Stefan Bieber**, *Technical University of Munich, Germany*	369 | Removal options and transformations of persistent mobile organic chemicals during production of drinking water | **Arnaud Touffet**, *IC2MP CNRS, France*	370 | Removal of polar micropollutants from drinking water by reverse osmosis: A pilot scale study | **Vittorio Albergamo**, *University of Amsterdam/IBED Institute, Netherlands*
Session Room C	**Product Benefits and Positive Outcomes: Valuation and Beyond | Enrico Benetto, Till Bachmann, Katerina Stylianou**		
	374 | A need for a better characterisation of product benefit in life cycle sustainability assessment | **Thomas Schaubroeck**, *Luxembourg Institute of Science and Technology (LIST), Luxembourg*	375 | Assessing nutritional impacts and benefits on human health in LCA: A new midpoint impact category | **Katerina Stylianou**, *University of Michigan – School of Public Health, USA*	376 | Combining Operational Research and Life Cycle Assessment to optimize the environmental performance of Peruvian diets | **Ian Vázquez-Rowe**, *Pontifical Catholic University of Peru, Peru*
Session Room D	**Advances in Monitoring and Evaluating Remedy Effectiveness for In Situ Amendments in Soils and Sediments |...**		
	380 | Assessment of Human Health Benefits and Risks of Contaminated Sediment Remediation | **Jacob Kvasnicka**, *University of Michigan, USA*	381 | Six inches under: Remediation efficiency of activated carbon caps buried by dynamic sediment movement | **Sebastian Abel**, *University of Eastern Finland, Finland*	382 | Ecosafe nanotechnologies for environmental remediation: The NANOBOND project | **Ilaria Corsi**, *University of Siena, Italy*
Session Room E	**Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (I) | Damia Barcelo, Yolanda Pico**		
	386 | Determination of dioxin-like polychlorinated biphenyls in land near the dumps of some settlements of the Republic of Armenia | **Anahit Aleksandryan**, *Hazardous Substances & Waste Policy Division, Armenia*	387 | Associated Health Effects of Veterinary Pharmaceutical Residues in Wastewaters around Selected Livestock Agriculture Farms in Western Cape Province | **OS Fatoki**, *Cape Peninsula University of Technology, South Africa*	388 | Characterization of respective contribution of agriculture and urban sources to pesticide contamination of a peri-urban river | **Vincent Dufour**, *EPOC – UMR 5805 CNRS, France*
Session Room M	**Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment (I) | Beate Escher, Ines Rönnefahrt, Anja Coors,...**		
	392 | Environmental Risk Assessment of Active Pharmaceutical Ingredients used in Human Medicinal Products: Europe-wide Variation in Risk Quotient | **Jason Snape**, *AstraZeneca UK Ltd., UK*	393 | Estimation and prioritization of hospital API emissions | **Ad Ragas**, *Radbound University, Netherlands*	394 | Development and validation of a model to predict concentrations of human APIs in European surface waters | **Rik Oldenkamp**, *Radboud University Nijmegen, Netherlands*
Session Room N	**Plants: Predicting and Assessing Direct, Indirect Effects and Recovery of Plants from Chemical Stress | Stefania Loutseti,...**		
	398 | Waterplants in Risk Assessment – Selection of Potential Plant Species – Impact of Different Test Guidelines | **Guido Gonsior**, *Eurofins Agroscience Services Ecotox GmbH, Germany*	399 | Applying the EFSA Scientific Opinion on NTTP: Testing non-crop species and the reproductive capability of selected species under greenhouse conditions | **Andreas Duffner**, *Eurofins Agroscience Services Ecotox GmbH, Germany*	400 | Predicting plant community level effects of herbicides based on monoculture dose-responses: Testing the plant community model IBC-grass with experimental data | **Jette Reeg**, *University of Potsdam, Germany*
Session Room O	**Environmental Monitoring of Contaminants Using Terrestrial Ecological Biomonitors | Sofia Augusto, Nuno Ratola,...**		
	404 | Persistent Organic Pollutants in Germany: Results from the 2015/2016 moss and tree sampling | **Annekatrin Dreyer**, *Eurofins GfA GmbH, Germany*	405 | Mapping percentile statistics of element concentrations in moss collected from 1990 to 2015 in forests throughout Germany | **Stefan Nickel**, *University of Vechta, Germany*	406 | Heavy metal and nutrient concentrations in different age classes of holm oak leaves and pine needles – a reference for biomonitoring and geochemistry | **Fabrizio Monaci**, *University of Siena, Italy*
Session Room P	**Systems Ecotoxicology: Application of OMICs Data Across Multiple Level of Biological Organisation in Research and Risk...**		
	410 | Transcriptomic responses of the endangered freshwater mussel Margaritifera margaritifera to trace metal contamination | **Anthony Bertucci**, *Université de Bordeaux, France*	411 | LC-HRMS based-metabolomics to highlight biotransformation products and effects of diclofenac in Mytilus galloprovincialis | **Frederique Courant**, *Université de Montpellier – UMR 5569 Hydrosciences, France*	412 | Metabolomics used to link affected molecular pathways with behaviour outcomes after a single dose of pesticide exposure in mice | **Pim Leonards**, *VU University, Netherlands*

	8:35 a.m.	8:47 a.m.	8:59 a.m.	9:11 a.m.
★ Session Room Q	**Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea | Maria Cristina Fossi, Gaetano Leone,...**			
	416 | Harmful effects of plastic litter on Mediterranean Biodiversity: What and what's new? | **Maria Cristina Fossi**, *University of Siena, Italy*	417 | Impact of marine litter in the Mediterranean Sea: Monitoring and specific reduction measures within MSFD | **Francois Galgani**, *IFREMER, France*	418 | Addressing the growing threat of marine litter: NGOs essential role in strengthening the science-policy-society interface | **Thomie Vlachogianni**, *Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE), Greece*	419 | Biodegradable plastics: Potential application in aquaculture and other applications at high risk of dispersion | **Francesco Degli Innocenti**, *Novamont SpA, Italy*

	9:20 a.m.	9:35 a.m.	9:50 a.m.	
Session Room A	**...Drivers (I) | Paul van den Brink, Katherine Dafforn, Mirco Bundschuh**			
	365 | Macroinvertebrate communities across a gradient of multiple stressors from agricultural land use in Romanian streams | **Verena Schreiner**, *University of Koblenz Landau, Germany*	366 | Daily temperature variation determines the toxicity of a pesticide mixture | **Vienna Delnat**, *KU Leuven, Belgium*	367 | Warming and daily temperature fluctuations make the pesticide chlorpyrifos more toxic in Ischnura elegans damselflies | **Julie Verheyen**, *KU Leuven, Belgium*	COFFEE BREAK
Session Room B	**...Regulatory Issues (I) | Stefan Hahn, Andreas Schaeffer, Michael Neumann**			
	371 | Identification of transformation-derived very polar organic water contaminants and their relevance in the water cycle | **Daniel Zahn**, *Hochschule Fresenius, Germany*	372 | The limited chemical application domain of regulations: An illustration using the POP screening assessment in the Stockholm Convention | **Michael McLachlan**, *Stockholm University, Sweden*	373 | 'One for all and all for one' – Can we REACH a harmonised PBT-assessment across EU-regulatory frameworks? | **Caren Rauert**, *Umweltbundesamt, Germany*	
Session Room C	**Product Benefits and Positive Outcomes: Valuation and Beyond | Enrico Benetto, Till Bachmann, Katerina Stylianou**			
	377 | Using the first Swiss dietary survey to determine the environmental and health benefits and impacts of various dietary patterns | **Alexi Ernstoff**, *Quantis, Switzerland*	378 | The cost of CO2 in Life Cycle Assessment | **Yan Dong**, *Technical University of Denmark, Denmark*	379 | Poster spotlight: WE257, WE258, WE259	
Session Room D	**...Gijs D. Breedveld, Amy Oen**			
	383 | Possibility of using a genotoxic tests in planning precise phytoremediation of depleted soils enriched in organic amendments | **Aneta Murtaś**, *Czestochowa University of Technology, Poland*	384 | Sorption of pharmaceuticals in soil systems | **Jun Li**, *Environmental Department University of York, UK*	385 | In vitro and in vivo assays to evaluate chlordecone transfer to animals: Interest of soil amendment | **Matthieu Delannoy**, *URAFPA-INRA, France*	COFFEE BREAK
Session Room E	**Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (I) | Damia Barcelo, Yolanda Pico**			
	389 | Study of bioconcentration of benzophenone-3 in Gilt-head Bream and characterization of its by-products | **Haizea Ziarrusta**, *University of the Basque Country UPV/EHU, Spain*	390 | Phragmites australis enantioselectively uptake, translocate and degrade the chiral pesticides tebuconazole and imazalil | **Pedro Carvalho**, *Aarhus University, Department of Environmental Science, Denmark*	391 | Effects of the non-steroidal antiinflamatory ibuprofen on growth and metabolic profiles of Vigna Unguiculata | **Yolanda Pico**, *University of Valencia, Spain*	
Session Room M	**...Rik Oldenkamp**			
	395 | Occurrence and fate of the antidiabetic metformin and its transformation products | **Selina Tisler**, *Center for Applied Geoscience, University of Tuebingen, Germany*	396 | Development of biotransformation half-life QSARs and PBT assessment refinement of Pharmaceuticals and Personal Care Products | **Ester Papa**, *University of Insubria, Italy*	397 | Predicting spatial and temporal variability in internal concentrations of amitriptyline in invertebrates within an urban catchment | **Alessia Giorgis**, *University of York, UK*	
Session Room N	**...Udo Hommen, Henry Krueger, Gertie Arts**			
	401 | Use in risk assessment of recovery in plants from exposure to chemicals | **Henry Krueger**, *EAG Laboratories, USA*	402 | Aquatic primary producers and plant protection products: Endpoints and level of protection achieved in the first tier of the risk assessment scheme | **Sabine Duquesne**, *UBA, Federal Environment Agency, Germany*	403 | Poster spotlight: WE152, WE153, WE154	COFFEE BREAK
Session Room O	**...Mira Aničić Urošević**			
	407 | Examining historical trends in diet and contaminant exposure in bats using bat guano deposits from Jamaica | **Lauren Gallant**, *University of Ottawa, Canada*	408 | Perfluoroalkyl substances and metallic elements in South African dragonflies | **Velesia Lesch**, *North-West University, South Africa*	409 | Bioavailability of Arsenic and Antimony co-contamination to vegetable crops in agricultural soils | **Lakmini Egodawatta**, *University of Wollongong, Australia*	
Session Room P	**...Assessment (I) | Anze Zupanic, Bruno Campos, Philipp Antczak, Jana Asselman**			
	413 | Relationships Between Persistent Pollutant and Metabolomics Profiles in Tissues of Polar Bears From Hudson Bay, Canada | **Robert Letcher**, *Environment and Climate Change Canada, Canada*	414 | Integrative Omics linkage to reproduction effects of a fungicide in the soil invertebrate Folsomia candida | **Tiago Simoes**, *Polytechnic Institute of Leiria, Portugal*	415 | Using functional genomics to find mechanisms of herbicide toxicity in Chlamydomonas reinhardtii | **Anze Zupanic**, *Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland*	
Session Room Q	**...Francesco Degli Innocenti**			
	9:23 a.m.	**9:35 a.m.**	**9:47 a.m**	**9:57 a.m.**
	420 | Marine Litter Governance in the Mediterranean through the implementation of the Regional Action Plan on Marine Litter Management in the Mediterranean | **Gaetano Leone**, *UNEP/Mediterranean Action Plan, Greece*	421 | Science and awareness: A Mediterranean Connection Against Marine Litter. First Results of the Commitment Presented at UN Ocean Conference | **Giorgio Zampetti**, *Legambiente, Italy*	422 | Discussion	423 | Final Remarks | **Gaetano Leone**, *UNEP/Mediterranean Action Plan, Greece*

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	**Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects With Environmental...**		
	424 | Biodiversity patterns in the GLOBAQUA basins and their relationships with multiple stressors | **Nuria De Castro-Català** , *Universitat de Barcelona, Spain*	425 | Changes in pCO2 alter the reproductive toxicity of common active pharmaceutical ingredients | **Cameron Hird**, *University of Exeter, UK*	426 | From individual traits to ecosystem functioning: Natural phytoplankton community responses under combined environmental stress and chemical pollution | **Didier L Baho**, *Nowegian Institute for water research, Norway*
Session Room B	**PBT/vPvB & PMT/vPvM Substances and Non-Extractable Residues (NER): Scientific Strategies, Analytical Challenges and...**		
	430 | Evaluation of PBT and vPvB substances based on exposure dynamics, use-specific impacts and costs for emission reduction or abatement in the context of REACH | **Silke Gerda Margaret Gabbert**, *Wageningen University, Netherlands*	431 | Grouping and relative ranking of the impact potential of PBT/vPvB substances for comparative assessments in the context of socio-economic analysis under REACH | **Monika Nendza**, *Analytisches Laboratorium, Germany*	432 | Interpretation of non-extractable residues (NERs) in the persistence assessment | **Ulrich Jöhncke**, *Federal Environment Agency (UBA), Germany*
Session Room C	**LCA and Beyond – Integrating Sustainability and/or Other Dimensions to Improve Decision Support (I) | Serenella Sala,...**		
	436 | How to make LCA fit for purpose as decision making tool | **Eric Mieras**, *PRe Sustainability, Netherlands*	437 | Using Life Cycle Assessment (LCA) to Evaluate Global 6-Aminopenicillanic Acid (6-APA) Manufacture and Make Recommendations for Future Developments in the Biopharmaceutical | **Charnett Chau**, *University College London, UK*	438 | A sustainability performance-based methodology and tool for ecodesign: The case of transport infrastructures | **Davide Lo Presti**, *The University of Nottingham, UK*
Session Room D	**Environmental Risk Assessment and Management of the Spoil Material Produced in Tunnelling Excavation |...**		
	442 | Characterization and management of excavated soil and rock | **Giuseppe Mininni**, *CNRIRSA, Italy*	443 | Realization of road gallery: Advantages, criticality and future perspecitves | **Sara Frisiani**, *Spea Engineering S.p.A., Italy*	444 | Management of the spoil material produced by EPB-TBM: From experimental design to the excavation phase | **Sara Padulosi**, *Italferr SpA, Italy*
Session Room E	**Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (II) | Damia Barcelo, Yolanda Pico**		
	448 | Quantification of Carbon Nanotubes in Complex Matrices: Possibilities of Electron Microscopy | **Ralf Kaegi**, *Eawag - Swiss federal Institute of Aquatic Science and Technology, Switzerland*	449 | Monitoring for perfluorinated compounds, insecticides, and brominated flame retardants in the water of Daechung lake and Geum river basin | **Hyeri Lee**, *National Institute of Environmental Research (NIER), South Korea*	450 | Impacts of Contaminants of Emerging Concern on Terrestrial Organisms | **Stacia Dudley**, *UC Riverside, USA*
Session Room M	**Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment (II) | Beate Escher, Ines Rönnefahrt,...**		
	454 | Inter-individual variation in the bioavailability and effects of NSAIDS in fish | **Andrew Ross Brown**, *Exeter University, UK*	455 | Environmental effect assessment of human pharmaceuticals – the regulatory way forward | **Jean Bachmann**, *German Environment Agency (UBA), Germany*	456 | Prioritising human health risk of environmental residues of pharmaceuticals and personal care products in use in southern Nigeria | **Udochi Agusiegbe**, *University of York, UK*
Session Room N	**Emergence and Multidimensional Interactions of Engineered Nanoparticles in Toxicology | Sankar Ganesh Palani,...**		
	460 | Effects of fullerene C60 increasing concentrations in *Mytilus galloprovincialis*: Role of mTOR in cellular/tissue alterations | **Aldo Viarengo**, *IRCCS Istituto di Ricerche Farmacologiche Mario Negri, Italy*	461 | Proteomic responses to nanoparticulate and ionic silver in freshwater microbes with different background | **Diana Barros**, *Universidade do Minho, Portugal*	462 | Hazard assessment of seven different commercial silica nanoparticles on a battery of test species: Bacteria, algae and fish cell lines | **Frida Book**, *University of Gothenburg, Sweden*
Session Room O	**Improving the Environmental Risk Assessment of the Aquaculture 'Blue Revolution' | Andreu Rico, Paul van den Brink,...**		
	466 | Tools for Assessment and Planning of Aquaculture Sustainability (TAPAS) | **Paul van den Brink**, *Alterra and Wageningen University, Netherlands*	467 | Preliminary investigation on the occurrence of multifunctional organic micropollutants in offshore seawater and fish farm | **Karina Yew-Hoong Gin**, *National University of Singapore, Singapore*	468 | Perspectives on Urbanization, Water Reuse, and Aquaculture Product Quality | **Bryan Brooks**, *Baylor University, USA*
Session Room P	**Systems Ecotoxicology: Application of OMICs Data Across Multiple Level of Biological Organisation in Research and Risk...**		
	472 | Systems toxicology approach for the assessment of zebrafish cardiac and neurotoxicity | **Roman Li**, *Philip Morris International, Switzerland*	473 | Time response relationship between gene expression and life history in a Daphnia population exposed to heavy metals | **Jana Asselman**, *Ghent University, Belgium*	474 | How to implement functional responses of microalgae in risk assessment processing? | **Floriane Larras**, *Helmholtz Center for Environmental Research – UFZ GmbH, Germany*

	10:55 a.m.	11:10 a.m.	11:15 a.m.	11:23 a.m.
Session Room Q	**Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals...**			
	478 | How researchers can work in alliance with citizens to fight misinformation and improve public debates | **Sofie Vanthournout**, *Sense About Science EU, Belgium*	479 | Discussion: The need to promote good science and evidence in public debates	480 | How to communicate the risks posed by endocrine disrupting chemicals? (I) | **Juliette Legler**, *Utrecht University, Netherlands*	481 | How to communicate the risks posed by endocrine disrupting chemicals? (II) | **Markus Hecker**, *University of Saskatchewan, Canada*

	11:40 a.m.	11:55 a.m.	12:10 p.m.	
Session Room A	**...Drivers (II) |Paul van den Brink, Katherine Dafforn, Mirco Bundschuh**			
	427 | The role of multiple stressors in an Alpine river and the response of the macroinvertebrate community | **Monica Giulivo**, *Universita Cattolica del Sacro Cuore, Italy*	428 | Coping with antidepressants in a changing ocean: Tissue bioaccumulation and behavioural implications in juvenile Argyrosomus regius exposed to venlafaxine | **Ana Luísa Maulvault**, *Instituto Português do Mar e da Atmosfera, Portugal*	429 | A modelling approach to assess present and future land use pressures on a salmonid river: A case study in the River Tamar catchment (UK) | **Marta Assuncao**, *Cefas Lowestoft Laboratory, UK*	
Session Room B	**...Regulatory Issues (II) | Stefan Hahn, Andreas Schaeffer, Michael Neumann**			
	433 | Quantification of different NER fractions in soil – Extraction matters | **Jens Hogeback**, *Federal Institute of Hydrology, Germany*	434 | Elucidation of the nature of soil bound non extractable residues | **Markus Telscher**, *Bayer AG Division CropScience/Environmental Fate, Germany*	435 | A tool to establish the role of Non-Extractable Residues (NER) in soil on toxicity | **Joop Harmsen**, *Wageningen Environmental Research, Netherlands*	LUNCH BREAK
Session Room C	**...Roland Hischier, Yan Dong**			
	439 | Influence diagrams and scoping for Life Cycle and Sustainability Assessment, an example from sustainable mining | **Andreas Ciroth**, *GreenDelta, Germany*	440 | Life Cycle Sustainability Assessment for Improved Space Mission Design | **Andrew Wilson**, *University of Strathclyde, UK*	441 | How can Agent-based Modeling improve decision making in Life Cycle Assessment? | **Alice Micolier**, *University of Bordeaux, France*	
Session Room D	**... Anna Barra Caracciolo, Paola Grenni, Luisa Patrolecco, Antonello Martino**			
	445 | Environmental effect of chemicals injected into the soil in mechanized tunnelling applications | **Irene Bavasso**, *Università La Sapienza, Italy*	446 | Site-specific protocol to assess the environmental compatibility of spoil materials produced by EPB-TBM | **Anna Barra Caracciolo**, *National Research Council, Italy*	447 | Mineral-based soil conditioner for EPB TBMs: An environmentally friendly alternative | **Mike Greenhill-Hooper**, *Imerys, France*	
Session Room E	**Analysis and Fate of Emerging Contaminants in Soils, Water and Plants Under Water Scarcity (II) | Damia Barcelo, Yolanda Pico**			LUNCH BREAK
	451 | Occurrence of pharmaceuticals and their metabolites in Euthynnus alletteratus bile | **Juan Peña Herrera**, *Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain*	452 | Accumulation and fate of 12 human drugs through the soil-root-leaf system | **Nicola Montemurro**, *IDAEA CSIC Barcelona, Spain*	453 | Root-uptake and dissipation of atenolol, sulfamethoxazole and carbamazepine applied as a single compound solution or in mixture of all compounds in three soils and five plants | **Radka Kodesova**, *Czech University of Life Sciences Prague, Czech Republic*	
Session Room M	**...Anja Coors, Rik Oldenkamp**			
	457 | Aquatic toxicity related to pharmacological or secondary targets of human pharmaceuticals | **Anja Coors**, *ECT Oekotoxicologie GmbH, Germany*	458 | Neurotoxicity testing approach to investigate venlafaxine and oxazepam modulation of transcriptomics and behavioral profiles in zebrafish embryos and larvae | **Carolina Di Paolo**, *RWTH Aachen University, Germany*	459 | Virtual fish tales: Liver, Intestinal and Gill Organoids as an in vitro alternative to live fish for prioritising pharmaceuticals and other compounds of highest concern in the environment | **Stewart Owen**, *AstraZeneca, UK*	
Session Room N	**...Siva Prasad Bitragunta, Samuel Thompson, Richard Cross**			
	463 | Toxicity Assessment of Engineered Titanium Dioxide Nanoparticles | **Sankar Ganesh Palani**, *Birla Institute of Technology & Science, Hyderabad Campus, India*	464 | Combination effects of chlorpyriphos and ZnO on oxidative stress and reproduction of the earthworm Dendrobaena veneta | **Željka Lončarić**, *University of Osijek, Croatia*	465 | Poster spotlight: WE305, WE323, WE324	
Session Room O	**...Ailbhe Macken, Trevor Telfer**			LUNCH BREAK
	469 | Bioaccumulation of selected veterinary medicines in the blue mussel (*Mytilus edulis*) | **Steven Brooks**, *NIVA, Norway*	470 | Contribution of nuclear applications to better understand bioaccumulation of contaminants in aquaculture species | **Marc Metian**, *IAEA-EL, Monaco*	471 | Effects of antibiotic´s medicated fish feed in the marine environment | **Belen Gonzalez-Gaya**, *IMDEA Water, Spain*	
Session Room P	**...Assessment (II) | Anze Zupanic, Bruno Campos, Philipp Antczak, Jana Asselman**			
	475 | Sex, drugs and *Daphnia magna*. A multi-omics approach suggests conserved mechanisms of interaction between metallohormones and endocrine disruptors | **Eva Caamano-Gutierrez**, *University of Liverpool, UK*	476 | Data-driven systems biology approach gives insight into a complex process of water remediation | **Jaanika Kronberg-Guzman**, *The University of Birmingham, UK*	477 | Co-expression network analysis of massive proteogenomic data: applications in ecotoxicology | **Davide Degli Esposti**, *Irstea, France*	
★ Session Room Q	**...and the Hazard They May Represent (I) | Annegaaike Leopold, Thomas-Benjamin Seiler, Charmaine Ajao**			
	11:30 a.m.	11:35 a.m.	11:50 a.m.	11:55 a.m. / 12:20 p.m.
	482 | Discussion Endocrine Disrupting Chemicals	483 | A regulator's perspective in involving stakeholders and the public in the regulation of a substance | **Charmaine Ajao**, *ECHA-European Chemicals Agency, Finland*	484 | Questions and Discussion	485 | General Discussion with panel of Sofie Vanthournout, Juliette Legler and Markus Hecker / 486 | Concluding remarks part I and a teaser for part II! | **Annegaaike Leopold**

	2:00 p.m.	2:15 p.m.	2:30 p.m.
Session Room A	**Ecological Risks Under Complex, Multiple-Stressor Threat Scenarios: Integrating Chemical Effects with Environmental...**		
	487 | The impact of chemical pollution on the resilience of soils under multiple stress | **Andreas Schaeffer**, *RWTH Aachen University, Germany*	488 | Combined effects of temperature and metal exposure on cell membrane fatty acid composition, lipid peroxidation, antioxidant capacities and desaturase and elongase transcription in freshwater fish | **Patrice Couture**, *INRS, Canada*	489 | The effect of water chemistry on cadmium induced olfactory impairment in juvenile rainbow trout (*Oncorhynchus mykiss*) | **Sina Volz**, *RWTH Aachen University, Germany*
Session Room B	**Improving the Quality of Ecotoxicological Testing and Assessment | Simon Gutierrez, Lennart Weltje, James R. Wheeler**		
	493 | Updating the OECD Guidance Document 23 on aquatic toxicity testing of difficult substances and mixtures to include state-of-the-science approaches | **Wesley Hunter**, *U.S. Food & Drug Administration, USA*	494 | Calibrating Non-Target Arthropod (NTA) Lower Tier Assessment Factors | **Paul Neumann**, *Bayer Ag, Germany*	495 | The unforeseen consequences for animal welfare of the OECD TG 240 (MEOGRT) biological validity criteria | **Edward Salinas**, *BASF SE, Germany*
Session Room C	**LCA and Beyond – Integrating Sustainability and/or Other Dimensions to Improve Decision Support (II) |...**		
	499 | Integration of Risk Assessment and Life Cycle Assessment in the context of recycling wood waste into particleboard | **Sophie Huysveld**, *Ghent University, Belgium*	500 | Development of non-conventional LCA indicators for circular characteristics of bio-based products | **Kadambari Lokesh**, *University of York, UK*	501 | Toward a more sustainable biochemical industry – Early stage assessments and methodological overlaps between life cycle – and techno-economic assessments of biochemicals | **Ólafur Ögmundarson**, *DTU (Technical University of Denmark), Denmark*
Session Room D	**Environmental Risk Assessment in Sediments | Sebastian Höss, Ute Feiler, Daniel Faber, Paul Sibley**		
	505 | Assessment of risk from historic contaminants in sediments of the Elbe flood plain, using a multiple line of evidence approach | **Susanne Heise**, *Hamburg University of Applied Sciences, Germany*	506 | Multiple lines of evidence for risk assessment of old sea deposits for ilmenite mine tailings in SW Norway | **Morten Thorne Schaanning**, *NIVA – Norwegian Institute for Water Research, Norway*	507 | In situ metal fluxes for the assessment of metal bioavailability in sediments | **Elvio Amato**, *University of Antwerp, Belgium*
Session Room E	**Wastewater Effluents: How Research Can Improve Risk Assessment and Regulation | Dean Leverett, Mirco Bundschuh**		
	511 | Effects of untreated wastewater dilution in surface waters on pharmaceuticals natural attenuation and on the community genomics: Implications for ERA | **Simone Bagnis**, *Plymouth University, UK*	512 | Active Pharmaceutical Ingredients Entering the Aquatic Environment From Wastewater Treatment Works: Measurement, Prediction, Risk – A Cause for Concern? | **Sean Comber**, *Plymouth University, UK*	513 | Impact of a wastewater treatment plant upgrade on amphipods and other macroinvertebrates: Individual and community responses | **Katharina Peschke**, *Tübingen University, Germany*
Session Room M	**Antibiotics and Antibiotic Resistance in the Environment: Fate and Ecological Effects, Resistance Development and...**		
	517 | Identifying hotspots of Antimicrobial Resistance Selection in the Natural Environment | **Jonathan Sallach**, *University of York, UK*	518 | Urban and rural antibiotic resistance | **Clare McCann**, *Newcastle University, UK*	519 | Dissemination of extending-spectra β-lactamase E. coli carrying multidrug resistance and virulence factors in tropical rivers receiving hospital effluents | **Amandine Laffite**, *University of Geneva, Switzerland*
Session Room N	**Distribution, Transformations and Biological Effects of Incidental Nanoparticles and Nanoplastics in the Environment...**		
	523 | Inter-annual monitoring of microplastics in marine intertidal sediments of the Firth of Forth | **Mark Hartl**, *Heriot-Watt University, UK*	524 | Do nanoparticles cause stress effects on microalgae ? An infrared spectroscopy study | **Maureen Dényiel**, *Institute of molecules and materials of Le Mans, France*	525 | Ecotoxicological evaluation of high-generation cationic PAMAM dendrimers towards a representative organism of aquatic ecosystems | **Gerardo Pulido-Reyes**, *Universidad Autónoma de Madrid, Spain*
Session Room O	**Luminescent Biomonitoring via Bioassays of Different Complexity – From Cells Trough Enzyme Reactions to Proteins |...**		
	529 | Applications of Luminous Bacteria Enzymes in Toxicology and Ecology | **Valentina Kratasyuk**, *Siberian Federal University, Russia*	530 | Toxic and adaptive effects via luminescent assay systems of different complexity: Bacterial cells, enzyme reactions, and fluorescent proteins | **Nadezhda Kudryasheva**, *Institute of Biophysics SB RAS, Russia*	531 | Assaying the prooxidant and antioxidant potentials of nicotine products: Tobacco versus electronic cigarettes | **Aleksei Trofimov**, *Emanuel Institute of Biochemical Physics, Russian Academy of Sciences, Russia*
Session Room P	**Obesogens and Lipid Disruptors | Cinta Porte, Filipe Castro, Miguel Santos, Carlos Barata**		
	535 | The evolution of obesogen-induced phenotypes in vertebrates | **Filipe Castro**, *CIIMAR – University of Porto, Portugal*	536 | Aging Extension and Modifications of Lipid Metabolism in the Monogonont Rotifer Brachionus koreanus under Chronic Caloric Restriction | **Min-Chul Lee**, *Sungkyunkwan University, South Korea*	537 | Lipidomic and transcriptomic changes induced by compounds enhancing accumulation of storage lipids in *Daphnia magna* | **Inmaculada Fuertes**, *Institute of Environmental Assessment and Water Research IDAEA CSIC, Spain*

	2:00 p.m.	2:08 p.m.	2:15 p.m.	2:20 p.m.
★ Session Room Q	**Towards a Shared Understanding of Science and Risk Communication in the Context of the Inevitability of Chemicals...**			
	541 | Nanotechnology: When shading effects through agglomeration of carbon nanotubes (CNT's) are confused with toxicity by media and the public – a case example revisited | **Fabienne Schwab**, *Adolphe Merkle Institute, Switzerland*	542 | Nanotechnology: Communicating scientific findings through media – what could possibly go wrong? Lessons learned from Schwab's nanotubes | **Gunilla Oberg**, *UBC, Canada*	543 | Discussion Nanotechnology	544 | Microplastics: The risks of plastics – perceived or real? | **Michiel Kotterman**, *IMARES, Netherlands*

	2:45 p.m.	3:00 p.m.	3:15 p.m.	
Session Room A	**...Drivers (III) | Paul van den Brink, Katherine Dafforn, Mirco Bundschuh**			
	490 | Physiological and biochemical responses of polychaetes: Interplay of elements contaminated sediments and salinity changes | **Adília Pires**, *Universidade de Aveiro, Portugal*	491 | Do trace metal contamination and parasitism infestation influence the activity of the bioturbator Upogebia pusilla? | **Annabelle Dairain**, *EPOC, University of Bordeaux, France*	492 | Integrating ecotoxicology and ecology to advance understanding and prediction in multiple stressor research | **Ralf Bernhard Schäfer**, *University Koblenz Landau, Germany*	COFFEE BREAK
Session Room B	**Improving the Quality of Ecotoxicological Testing and Assessment | Simon Gutierrez, Lennart Weltje, James R. Wheeler**			
	496 | Variability in Non-Target Terrestrial Plant Studies Should Inform Endpoint Selection | **Jane Staveley**, *Exponent, USA*	497 | An avian reproduction study historical control database: A tool for data interpretation | **James R. Wheeler**, *Dow Agrosciences, UK*	498 | Experimental Design and Model Selection for Ecotox Risk Assessment | **John Green**, *DuPont, USA*	
Session Room C	**...Serenella Sala, Roland Hischier, Yan Dong**			
	502 | A risk evaluation approach for indirect land use change associated to biobased products | **Diego Marazza**, *University of Bologna, Italy*	503 | How to find sustainable applications for new materials and how to overcome the relativity of LCA | **Claudia Som**, *EMPA Technology & Society Lab, Switzerland*	504 | Consumption and consumer footprint: LCA as pivotal methodology for assessing consumption patterns and ecoinnovations | **Serenella Sala**, *European Commission – Joint Research Centre, Italy*	
Session Room D	**Environmental Risk Assessment in Sediments | Sebastian Höss, Ute Feiler, Daniel Faber, Paul Sibley**			
	508 | An Overview of the Refinements and Improvements to the USEPA's Sediment Toxicity Methods for Freshwater Sediment | **Teresa Norberg-King**, *U.S. EPA, USA*	509 | Sediment-spiked toxicity tests with benthic macro-invertebrates and the fungicide fludioxonil | **Ivo Roessink**, *Alterra, Netherlands*	510 | Spatio-temporal exposure of Plant Protection Products in OECD 219 sediment test systems – Comparison of model results with measurements | **Klaus Hammel**, *Bayer AG, Crop Science Division, Germany*	COFFEE BREAK
Session Room E	**Wastewater Effluents: How Research Can Improve Risk Assessment and Regulation | Dean Leverett, Mirco Bundschuh**			
	514 | Effects of full-scale ozonation of treated effluent – Environmental impact in a receiving river | **Jerker Fick**, *Umea University, Sweden*	515 | Dreissena polymorpha as purifier tool of protozoa in wastewater treatment plant effluent | **Elodie Géba**, *University of Reims ChampagneArdenne, France*	516 | Aquatic macrophytes potential for the removal of water contaminants – The Green Liver Application | **Sabrina Loise Calado**, *Universidade Federal do Paraná , Brazil*	
Session Room M	**...Implications for Human Health | Edward Topp, Jason Snape, Kristian Brandt**			
	520 | Methods for determining selective endpoints of antimicrobials | **Aimee Murray**, *University of York, UK*	521 | Determining the minimal selective concentrations of macrolides in a complex microbial community | **Isobel Stanton**, *University of Exeter, UK*	522 | Impact of multi-year exposure of agricultural soils to antibiotics on the soil resistome and mobilome | **Edward Topp**, *Agriculture and Agri-Food Canada (AAFC), Canada*	
Session Room N	**...From a More Realistic Point of View | Gerardo Pulido-Reyes, Roberto Rosal**			
	526 | Interactive effects of carbon nanoparticles and benzo(α)pyrene on marine mussels, Mytilus galloproviancialis | **Awadhesh Jha**, *Plymouth University, UK*	527 | Trophic transfer of CuO NPs and Aqueous Cu: From worms to fish – a proof of concept study | **Tobias Lammel**, *University of Gothenburg, Sweden*	528 | Corbicula fluminea exposure to copper oxide nanoparticles: An integrated mesocosm study | **Laure Giamberini**, *Université de Lorraine, France*	
Session Room O	**...Nadezhda Kudryasheva, Valentina Kratasyuk, Elizaveta Kolosova, Anna Sachkova**			
	532 | The possibilities of using fungal fluorophores to assess responses of filamentous fungi to external stimuli | **Elena Fedoseeva**, *Pirogov Russian National Research Medical University, Russia*	533 | Effect of surface functionality on Fe_3O_4 nanoparticles toxicity | **Lyubov Kulyabko**, *Moscow Aviation Institute, Russia*	534 | Poster spotlight: WE209, WE210, WE211	
Session Room P	**Obesogens and Lipid Disruptors | Cinta Porte, Filipe Castro, Miguel Santos, Carlos Barata**			
	538 | Lipidomics profiling of wild fish to identify patterns associated with pollution exposure | **Cinta Porte**, *IDAEA-CSIC, Spain*	539 | Lipidomics profiles distinguish fish from organochlorine pesticide contaminated lakes compared to control lakes | **Nancy Denslow**, *University of Florida, USA*	540 | Poster spotlight: WE027, WE028, WE029	

★ Session Room Q — **...and the Hazard They May Represent (II) \| Annegaaike Leopold, Thomas-Benjamin Seiler, Charmaine Ajao**

2:30 p.m.	2:40 p.m.	2:50 p.m.	3:00 p.m.	3:25p.m.
545 | Lost in translation: Do we communicate the risks of (micro) plastics in the right way? | **Martin Wagner**, *Norwegian University of Science and Technology, Norway*	546 | Ocean Literacy – changing attitudes and behaviour of society in the face of the problems of the oceans | **Angel Borja**, *Azti-Tecnalia, Spain*	547 | Discussion Microplastics	548 | General discussion with panel of all speakers about topics emerging from the session	549 | Wrap-up and closing | **Annegaaike Leopold**

WE | Wednesday Poster Presentations

Schedule

Setup	7:30 a.m.–08:30 a.m.
Poster Viewing	10:05 a.m.–10:50 a.m.
Poster Viewing	12:25 p.m.–1:55 p.m.
Poster Viewing	3:30 p.m.–4:15 p.m.
Poster Social	5:15 p.m.–6:15 p.m.
Take Down	6:15 p.m.–6:45 p.m.

Poster Corners

Epigenetic and evolutionary toxicology: From mechanisms to risk assessment (PC) | Benjamin Pina, Jana Asselman, Marie-Agnes Coutellec

Discussion at 5:15 p.m.–5:45 p.m.

WEPC01 | Does pre-exposure to bisphenol A affect the susceptibility of breeding zebrafish upon re-exposure? | **Hannah Littler**, *University of Exeter, UK*

WEPC02 | Zebrafish as a model to assess transgenerational effects of environmental stress via epigenetic inheritance | **Jorke Kamstra**, *NMBU, Norway*

WEPC03 | Can changes in DNA methylation be linked to exposure of plants to radiation over multiple generations? | **Nele Horemans**, *Belgean Nuclear Research Centre (SCK-CEN), Belgium*

WEPC04 | Evolutionary toxicology: Tools to understand impacts of past, present and future environmental contamination | **Sarah Crawford**, *RWTH Aachen University, Germany*

WEPC05 | Chemical and physical stressors shape the population genetic structure of aquatic invertebrate populations | **Pedro Inostroza**, *University of Gothenburg, Sweden*

WEPC06 | Histone methylation as exposure biomarker of environmental chemicals | **Nivedita Chatterjee**, *University of Seoul, South Korea*

What's your take on communication? Don't Panic! Reports on how to accurately communicating science and risk (PC) | Thomas-Benjamin Seiler, Samuel Thompson, Leonie Nuesser, Silke Bollmohr

Discussion at 5:45 p.m.–6:15 p.m.

WEPC07 | Dangerous misconceptions – Consumers need help! | **Ursula Klaschka**, *University of Applied Sciences, Germany*

WEPC08 | The European Union Observatory for Nanomaterials (EUON): A new platform for communicating information on the safety of nanomaterials | **Abdelqader Sumrein**, *European Chemicals Agency (ECHA), Finland*

WEPC09 | Roadmap for the unknown | **Marlea Wagelmans**, *Bioclear earth, Netherlands*

WEPC10 | EVOKED: Enhancing the value of climate data – translating risk and uncertainty utilizing a Living Labs approach | **Amy Oen**, *Norwegian Geotechnical Inst., Norway*

WEPC11 | Communicating monetary values of environmental impacts – case studies related to ISO DIS 14008 | **Tomas Rydberg**, *IVL Swedish Environmental Research Institute, Sweden*

WEPC12 | Full STEAM Ahead: Merging Science and Communications to Investigate Environmental Questions | **Gretchen Bielmyer-Fraser**, *Jacksonville University, USA*

WEPC13 | Let's go visual, a picture is worth a thousand words: How to explain Emerging Contaminants using animations | **Natalia Ospina-Alvarez**, *University of Potsdam, Germany*

WEPC14 | Improving transparency, consistency and efficiency of ecotoxicological teaching: development of an open online textbook Environmental Toxicology | **Cornelis A M van Gestel**, *Vrije Universiteit Amsterdam, Netherlands*

WEPC15 | Policy learning through professional forums in the field of environmental toxicology: What role for the Society of Environmental Toxicology and Chemicals (SETAC)? | **Matthieu Mondou**, *McGill University – Macdonald Campus, Canada*

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WEPC16 | **SETAC Science and Risk Communication Interest Group** | **Thomas-Benjamin Seiler**, *RWTH Aachen University, Germany*

Thinking green and circularly about microparticles, nanomaterials and composite materials: Approaches for recovery, recycling and reuse (PC) | Iseult Lynch, Alistair Boxall

Discussion at 5:15 p.m.–5:45 p.m.

WEPC17 | Biochar-mortar composites for construction materials | **Tae-Cheol Seo**, *University of Ulsan, South Korea*

WEPC18 | Complex Formation Trends of Ligand Binding toward In(III) and Ge(IV) | **Gerrit Schuurmann**, *Helmholtz centre for environmental research – UFZ, Germany*

WEPC19 | Cellulose Nanofibers as building blocks for innovative materials for remediation | **Andrea Fiorati**, *INSTM local unit @ Politecnico di Milano, Italy*

WEPC20 | Zn-Al layered double hydroxides: A promising eco-friendly engineered nanomaterial | **Roberto Martins**, *Department of Biology, University of Aveiro, Portugal*

WEPC21 | Studying microfibre release from textiles towards improved clothing design | **Andy Booth**, *SINTEF Ocean, Norway*

WEPC22 | Exploring a Potential Nanofertilizer: Effects of Silica Nanoparticles on Alfalfa (Medicago sativa) | **Fabienne Schwab**, *Adolphe Merkle Institute, Switzerland*

LCA and beyond – Integrating sustainability and/or other dimensions to improve decision support (PC) | Serenella Sala, Roland Hischier, Yan Dong

Discussion at 5:45 p.m.–6:15 p.m.

WEPC23 | Environmental Footprint for pasta production – the PEF pasta pilot | **Luca Ruini**, *Barilla G.e.R. Fratelli Societa per Azioni, Italy*

WEPC25 | Life Cycle Assessment of applying Algal Oil in salmon aquaculture, challenges for methodology and tool development | **Henk Bosch**, *DSM Nutritional Products, Switzerland*

WEPC26 | Balancing Environmental and Health Impacts of Food Production and Consumption | **Christie Walker**, *Institute of Environmental Engineering, ETH Zurich, Switzerland*

WEPC27 | What not to waste? Improving decision support for Food Loss and Waste (FLW) mitigation by considering food security and environmental sustainability | **Filippo Sessa**, *Quantis, Switzerland*

WEPC28 | ARIADNA Project. Analysing the sustainability of implementing a mandatory Deposit-Refund System in Spain | **Alba Bala**, *UNESCO Chair in Life Cycle and Climate Change (ESCI-UPF), Spain*

Poster Sessions

Prioritisation and Intelligent Testing of Pharmaceuticals in the Environment (P) | Beate Escher, Ines Rönnefahrt, Anja Coors, Rik Oldenkamp

WE001 | Development of a modelling framework for estimating the sorption of pharmaceuticals in soils | **Alistair Boxall**, *University of York, UK*

WE002 | Photochemical transformation and intermediate formation processes in surface waters, in the context of climate change | **Davide Vione**, *University of Torino, Italy*

WE003 | How Pharmaceutical Industrial waste can make your medicines ineffective | **Nitin Verma**, *Baddi University of Emerging Sciences & Technology, India*

WE004 | The environmental concentration and evaluation of active ingredients in pharmaceuticals in rivers flowing through urban area in Japan | **Tetsuji Nishimura**, *Teikyo Heisei University, Japan*

WE005 | Evaluation of simple exposure models used for environmental prioritisation of active pharmaceutical ingredients | **John Wilkinson**, *The University of York, UK*

WE006 | The role of the water-sediment simulation test and its outcome in the environmental risk assessment (ERA) of pharmaceuticals | **Daniela Gildemeister**, *Umweltbundesamt / German Environment Agency, Germany*

WE007 | Expert System to Inform BCF Testing Strategies for Pharmaceuticals | **Annika Agatz**, *IBACON GmbH, Germany*

WE008 | Development of a quantitative Adverse Outcome Pathway-informed model to predict the risk posed by mixtures of non-steroidal anti-inflammatory drugs to fish | **Philip Marmon**, *Brunel University London, UK*

WE009 | Evolution in the lab – How can we study the chronic exposure to pharmaceuticals over multiple generations? | **Katharina Heye**, *Goethe University Frankfurt/ Main, Germany*

WE010 | Effects of duloxetine and econazole on freshwater species towards individual and combined conditions | **Georgiana Amariei**, *Universidad de Alcala, Spain*

WE011 | Application of newly developed in vitro assay to detect physiological activities of antidepressants in wastewater | **Masaru Ihara**, *Kyoto University, Japan*

WE012 | Toxicology of pharmaceuticals to aquatic organisms: A meta-analysis of effects on development and reproduction | **Vanessa Fonseca**, *MARE Marine and Environmental Sciences Centre, Portugal*

WE013 | Leveraging Pharmacological Data for Prioritization of the Ecological Risks of Chiral Pharmaceuticals | **Edmond Sanganyado**, *Shantou University, China*

WE014 | Effects of benzoylecgonine exposure at different levels of the biological hierarchy on Daphnia magna | **Beatrice De Felice**, *Università degli Studi di Milano, Italy*

WE015 | Impact of the antidiabetic drug metformin and its transformation product guanylurea on brown trout (Salmo trutta f. fario) | **Stefanie Jacob**, *Universität Tübingen, Germany*

WE016 | Effect of life-cycle exposure to environmentally relevant concentrations of metformin and its metabolite guanylurea on F1 progeny 28 days post hatch | **Zacharias Pandelides**, *University of Ontario Institute of Technology, Canada*

WE017 | Life-cycle effects in Oryzias latipes exposed to environmentally relevant concentrations of metformin and its metabolite, guanylurea | **Erin Ussery**, *University of Ontario Institute of Technology, Canada*

WE | Wednesday Poster Presentations

WE018 | Environmental Fate and Effects of the Antidiabetic Drug Metformin and Its Transformation Product Guanylurea | **Joan Tell**, *Merck & Company, Inc., USA*

WE019 | Fluoxetine exposure modulated antioxidant and anxiety-related gene expression altering swimming activity in zebrafish embryos | **Beatrice De Felice**, *Università degli Studi di Milano, Italy*

WE020 | Bio-Optical probing of Bezafibrate toxicity in model marine diatom Phaeodactylum tricornutum | **Vanessa Fonseca**, *MARE Marine and Environmental Sciences Centre, Portugal*

WE021 | Environmental Risk Assessment for the Active Pharmaceutical Ingredient Mycophenolic Acid in European Surface Waters | **Jürg Oliver Straub**, *F.Hoffmann-La Roche Ltd, Switzerland*

WE022 | Cytostatics in Dutch surface water – overview of use and potential risks to the aquatic environment | **Marino Marinkovic**, *National Institute for Public Health and the Environment (RIVM), Netherlands*

WE023 | Environmental risk assessment of human pharmaceuticals – What can we learn from regulatory effect data so far? | **Jean Bachmann**, *German Environment Agency (UBA), Germany*

WE024 | Prioritisation of human pharmaceutical substances – A regulatory perspective | **Ines Rönnefahrt**, *German Environment Agency – UBA, Germany*

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WE025 | SETAC Pharmaceuticals Interest Group | **Gerd Maack**, *German Environment Agency, Germany*

WE026 | What makes a chemical substance a 'natural substance'? A case study in the context of the EU veterinary medicines marketing authorisation procedure | **Susanne Schwonbeck**, *Fraunhofer Institute Toxicology and Experimental Medicine, Germany*

Obesogens and lipid disruptors (P) | Cinta Porte, Filipe Castro, Miguel Santos, Carlos Barata

WE027 | Unraveling distinct pathways of PFOS toxicity by combining morphological, metabolomic and transcriptomic analyses | **Rubén Francisco López**, *Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain*

WE028 | Impacts of fatty acids and methylmercury on preadipocyte differentiation in rainbow trout (Oncorhynchus mykiss) | **Gilles Tinant**, *Université Catholique de Louvain, Belgium*

WE029 | Obesogens in the aquatic environment | **Filipe Castro**, *CIIMAR – University of Porto, Portugal*

WE030 | The Environmental Causes of Obesity: Novel human in vitro models of adipocyte differentiation for studying the effects of chemical exposure | **Juliette Legler**, *Utrecht University, Netherlands*

WE031 | Comparing metabolomic responses in Oryzias latipes to environmentally relevant concentrations of metformin and its metabolite, guanylurea | **Erin Ussery**, *University of Ontario Institute of Technology, Canada*

WE032 | Levels of proteins, carbohydrates, lipids and cholesterol in the digestive gland of juvenile catarina clam Argopecten ventricosus (Sowerby, 1842), exposed to toxic metals | **Alma Sobrino-Figueroa**, *Universidad Autonoma Metropolitana Iztapalapa, Mexico*

Environmental risk assessment and management of the spoil material produced in tunnelling excavation (P) | Anna Barra Caracciolo, Paola Grenni, Luisa Patrolecco, Antonello Martino

WE033 | Environmental assessment of foaming agent persistence in conditioned soil for EPB-TBM tunnelling | **Paola Grenni**, *National Research Council of Italy (CNR), Italy*

WE034 | Application of the Vibrio fischeri acute toxicity test to assess the environmental impact of spoil materials containing foaming agents | **Livia Mariani**, *CNR-IRSA, Italy*

WE035 | Biodegradability of the anionic surfactant sodium lauryl ether sulphate used as the main component in two foaming agents for tunnelling process | **Martina Cardoni**, *National Research Council of Italy, Italy*

WE036 | Development of new foaming agents with better environmental impact for EPB soil conditioning – The Polyfoamer ECO line | **Alessandro Boscaro**, *Mapei S.p.A., Italy*

WE037 | Determination of anionic surfactants by Pressurized Liquid Extraction (PLE) followed by the modified Methylene Blue Active Substances (MBAS) method in spoil material from excavation processes | **Luisa Patrolecco**, *Water Research Institute-National Research Council, Italy*

WE038 | Distribution and persistence of anionic surfactants in leachate and conditioned soil: Mesocosm study for EPB-TMB applications | **Luisa Patrolecco**, *Water Research Institute-National Research Council, Italy*

WE039 | Preliminary environmental risk assessment of sodium lauryl ether sulphate contained in foaming agents used in mechanized tunnelling | **Antonio Finizio**, *University Milano – Bicocca, Italy*

WE040 | Ecotoxicological assessment of spoil material produced in mechanized excavation | **Ines Lacchetti**, *Istituto Superiore di Sanità , Italy*

WE041 | Expeditious test for on-site monitoring activity in mechanized tunnelling applications | **Diego Sebastiani**, *Università La Sapienza, Italy*

WE042 | Toxicity of several additives used in mechanized tunneling: Effects on daphnids, algae and cress | **Diego Baderna**, *Istituto di Ricerche Farmacologiche Mario Negri, Italy*

PBT/vPvB & PMT/vPvM substances and Non-extractable residues (NER): Scientific strategies, Analytical challenges and Regulatory Issues (P) | Stefan Hahn, Andreas Schaeffer, Michael Neumann

WE043 | Bioaccumulation, tissue distribution, and trophic magnification of organic ultraviolet absorbents in freshwater ecosystem in the Pearl River catchment, China | **Xianzhi Peng**, *Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, China*

WE044 | Hyalella azteca as non-vertebrate alternative species for bioaccumulation studies | **Maike Habekost**, *BASF Corporation, Germany*

WE045 | Bioaccumulation of ionizable organic chemicals in fish – The quest for reliable predictors | **Fabio Polesel**, *Technical University of Denmark (DTU), Denmark*

WE046 | Evaluation of a tiered approach for the bioaccumulation assessment of fragrance substances: In silico, in vitro assays, invertebrate vs. in vivo fish bioconcentration test | **Sylvia Gimeno**, *Firmenich, Belgium*

WE047 | Proposal for a freshwater trophic magnification study based on a comprehensive literature evaluation | **Verena Kosfeld**, *Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Germany*

WE048 | Obstacles in identifying PBT/vPvB-substances under REACH for high tonnage chemicals | **Angelika Oertel**, *German Federal Institute for Risk Assessment, Germany*

WE049 | PBT/vPvBs: All equally bad or some worse than others? – How to inform risk management | **Karen Thiele**, *WUR, Netherlands*

WE050 | Modelling Persistent & Mobile Organic Compounds using an updated Multimedia Urban Model: A Toronto Case Study with Organophosphate Esters (OPEs) | **Miriam Diamond**, *University of Toronto, Canada*

WE051 | An approach for the evaluation of PBT and vPvB substances subject to authorisation and restriction procedures in the context of socio-economic analysis | **Silke Gerda Margaret Gabbert**, *Wageningen University, Netherlands*

WE052 | Polymers: The Next Frontier in Environmental Hazard Assessment | **Andrea Carrao**, *Kao, USA*

WE053 | A consistent Approach for PBT/vPvB Assessment for Pharmaceutical Products | **Erick Nfon**, *Smithers Viscient, UK*

WE054 | Evaluation of new assessment methods and enhancement of PBT/vPvB criteria for ionisable substances | **Hannah Holzmann**, *RWTH Aachen University, Germany*

WE055 | Assessment of the persistence of ionic or ionisable organic chemicals under REACH | **Daniela Classen**, *RWTH Aachen University, Germany*

WE056 | Interaction of sulfonamide with soil humic acid: ESR investigations with nitroxide spin label | **Michael Matthies**, *University of Osnabrueck, Germany*

WE057 | The role of non-extractable residues in the environmental risk assessment from regulatory perspective – requirements and challenges | **Astrid Wiemann**, *UBA Umweltbundesamt, Germany*

WE058 | Sorption properties of Ionic organic chemicals: Correlations between ion exchange chromatography retention factors and environmental sorption coefficients | **Satoshi Endo**, *Osaka City University, Japan*

WE059 | Simulation of the fate of co-labeled 13C3-15N-glyphosate in a water-sediment system and formation of biogenic non-extractable residues | **Andreas Libonati Brock**, *DTU Environment, Denmark*

WE060 | Determination of persistent organic pollutants (POPs) in soil from sites adjacent to landfills: different provinces of the Republic of Armenia | **Anahit Aleksandryan**, *Hazardous Substances & Waste Policy Division, Armenia*

WE061 | Improving the interpretation of Non-Extractable Residues (NER) in degradation assessment | **Andreas Schaeffer**, *RWTH Aachen University, Germany*

WE062 | Photodegradation of Atrazine in the Presence of Indole-3-acetic Acid and Natural Montmorillonite Clay Minerals | **Cheng Gu**, *Nanjing University, China*

WE063 | Photodegradation Half-lives of a Fragrance Ingredient in Natural Waters at Depth Calculated from Laboratory Study Results | **Jianming Lin**, *Firmenich Inc, USA*

WE064 | The Photolytic Fate of Fungicides | **Jennifer Apell**, *MIT, USA*

WE065 | Study Design Considerations for E-Fate Testing of UVCB Substances | **Chris Lowrie**, *Charles River, UK*

WE066 | In silico investigation of the triplet-sensitised phototransformation of phenols induced by chromophoric dissolved organic matter | **Lucrezia Motta**, *University of Insubria, Italy*

WE067 | In silico Tools to Assess the Confidence of QSAR Model Predictions | **Ralph Kühne**, *Helmholtz centre for environmental research – UFZ, Germany*

WE068 | Data Gap filling with ECOSAR in K-REACH compliance, a limitation and weakness | **Jin-Sung Ra**, *Korea Institute of Industrial Technology, South Korea*

WE | Wednesday Poster Presentations

WE069 | Innovative analytical method to enhance POPs and emerging pollutants extraction in water samples by micelles using GC-MS/MS | **Stefania Giannarelli**, *University of Pisa, Italy*

WE070 | Water Treatment – A Regulatory Challenge under Regulation (EC) No 1107/2009 | **Frauke Schnitzler**, *DR. KNOELL CONSULT GmbH, Germany*

WE071 | The identification of persistent, mobile, toxic (PMT) chemicals as SVHC based on their equivalent level of concern to persistent, bioaccumulative, toxic chemicals defined in Article 57(f) of REACH | **Hans Peter Arp**, *NGI, Norway*

WE072 | How many vPvM/PMT substances have been registered under REACH? – vPvM/PMT screening by using the Danish QSAR database | **Rikke Holmberg**, *Danish EPA, Denmark*

WE073 | Identifying PMT substances amongst REACH registered substances | **Hans Peter Arp**, *NGI, Norway*

WE074 | Recent Advances in Toxicology, Safer-Alternatives Assessment, Value-in-Use and Best Practice Guidance of Short-Chain Fluorotelomer-based Products for AFFF, Textiles and Other End-Uses | **Stephen Korzeniowski**, *BeachEdge Consulting, USA*

WE075 | LIFE project PHOENIX: A new project for the management of water pollution from short chain perfluoroalkyl acids in Veneto region (Italy) | **Stefano Polesello**, *Water Research Institute – CNR, Italy*

WE076 | Ecotoxicological characterization of aquifers at Junin Formation and Pampeano from Hydrogeological Sub-Region II, Buenos Aires Argentina | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE077 | Chemical analysis, monitoring and toxicological evaluation of very polar compounds in drinking water and drinking water sources | **Rosa Sjerps**, *KWR Watercycle Research Institute, Netherlands*

WE078 | Beyond DEHP: High-molecular-weight phthalates and non-phthalate plasticizers in German Rivers | **Regine Nagorka**, *Federal Environment Agency (UBA), Germany*

Wastewater effluents: How research can improve risk assessment and regulation (P) | Dean Leverett, Mirco Bundschuh

WE079 | Acute and chronic toxicity of Direct Blue 15 on microalgae and cladocerans: A comparative study | **Felipe Fernando Martínez-Jerónimo**, *Escuela Nacional de Ciencias Biológicas-I.P.N., Mexico*

WE080 | Integrated biomarker response calculation as a useful tool to assess the impact of effluents on the health status of fish | **Sabrina Wilhelm**, *University of Tuebingen, Germany*

WE081 | Application of eco-genotoxicological and microbiological parameters for the assessment of the quality of wastewater industrial reuse | **Silvana Caciolli**, *Italian Institute of Health ISS, Italy*

WE082 | Comparative effects of the azo dye Congo Red on the green microalgae Ankistrodesmus falcatus and Scenedesmus incrassatulus | **Aldo Chávez-Vargas**, *Instituto Politécnico Nacional. Escuela Nacional de Ciencias Biológicas, Mexico*

WE083 | Effluent ozonation treatment: Effects on adult zebrafish fecundity, behavior and vitellogenesis in a 21 day exposure study | **Johannes Pohl**, *Swedish University of Agricultural Sciences (SLU), Sweden*

WE084 | Toxicity evaluation during secondary effluents treatment by UV/H2O2 using Eruca sativa and Artemia salina | **Jacqueline Malvestiti**, *University of Campinas, Brazil*

WE085 | Hospital effluent induced oxidative stress on Xenpus laevis larvae | **Itzayana Pérez-Alvarez**, *Universidad Autonoma del Estado de Mexico, Mexico*

WE086 | An assessment of (anti-)androgenic activity in sludge from a rain spillway basin of the WWTP Aachen Soers as well as in sediments from the catchment area of the recipient water, the river Wurm | **Katja Schröder**, *RWTH Aachen University, Germany*

WE087 | Processes underlying the environmental fate of pharmaceuticals in the Nairobi River Basin "impact zone": Implication for environmental risk assessment | **Simone Bagnis**, *Plymouth University, UK*

WE088 | Occurrence of pharmaceuticals, metabolites and transformation products from combined sewer overflows in London measured by high resolution targeted, suspect screening and untargeted chemical analysis | **Leon Barron**, *Kings College London, UK*

WE089 | Occurrence, fate and bioactivity of pesticides in wastewater | **Viviane Yargeau**, *McGill University, Canada*

WE090 | Fate of perfluoroalkyl substances within a small stream food web affected by sewage effluent | **Daniel Cerveny**, *University of South Bohemia in Ceske Budejovice, Czech Republic*

WE091 | Patterns of natural and human-made interacting processes on source, transport and fate of trace metals in the Adriatic Sea basin | **Tatiane Combi**, *Instituto Oceanográfico da Universidade de São Paulo, Brazil*

WE092 | Photocatalysis as a potential pre-treatment process to reduce organic pesticide entries | **Simon Lüderwald**, *University Koblenz-Landau, Germany*

WE093 | Study of the efficiency of removal of organic load and generation of energy through a bioelectrochemical system coupled to a constructed wetland | **Jorge Antonio Cardenas**, *Centro de Investigación y Desarrollo Tecnológico en Electroquímica, Mexico*

WE094 | Adsorption of Crystal Violet from Quaternary Basic Dye Mixture onto A Sawdust-Based Adsorbent | **Abdur-Rahim Giwa**, *Cape Peninsula University of Technology, Nigeria*

WE095 | Diurnal patterns and removal of selected elements in two Norwegian wastewater treatment plants with primary treatment | **Andy Booth**, *SINTEF Ocean, Norway*

WE096 | Rapid detection of E. coli in wastewater effluent and impact of effluent discharge on riparian invertebrate diversity | **Portia Mosolloane**, *University of the Free State, South Africa*

WE097 | The DemO3AC-project: Chemical and ecotoxicological investigations of the wastewater treatment plant Aachen | **Sabrina Schiwy**, *Institute of Environmental Research – RWTH Aachen, Germany*

WE098 | To use or not to use: Sewage overflow dredgings | **Marlea Wagelmans**, *Bioclear earth, Netherlands*

WE099 | Assessing wastewater processes at oil refinery industry in Kazakhstan | **Ivan Radelyuk**, *Lund University, Sweden*

Antibiotics and Antibiotic Resistance in the Environment: Fate and Ecological Effects, Resistance Development and Implications for Human Health (P) | Edward Topp, Jason Snape, Kristian Brandt

WE100 | Accumulation of Enrofloxacin in the sea lettuce Ulva lactuca | **Sara Leston**, *CFE-Center For Functional Ecology, Portugal*

WE101 | Antibiotic resistance genes in manure, stored manure and soil after manure application | **Marko Virta**, *University of Helsinki, Finland*

WE102 | Bioaccumulation, biochemical responses and gene expression in the marine clam Scrobicularia plana exposed to a pharmaceutical mixture at sub-lethal concentrations | **Julian Blasco Moreno**, *CSIC Spanish National Research Council ICMAN, Spain*

WE103 | Changes in the environmental risk of veterinary antibiotics after the introduction of antibiotics-reducing policies | **Dong Soo Lee**, *Seoul National University, South Korea*

WE104 | Development of microplate based assay and its application to establish differences in cyanobacteria sensitivity to antibiotics | **Gareth Le Page**, *University of Exeter, UK*

WE105 | Direct and indirect effects of antibiotics in the leaf-shredding macroinvertebrate Gammarus fossarum | **Marco Konschak**, *University Koblenz-Landau, Germany*

WE106 | Efficacy of removal antimicrobial resistance genes during avian manure composting process | **Matilde Carballo**, *INIA – National Institute for Agricultural and Food Research and Technology, Spain*

WE107 | Environmental Assessment Of Multi-Class Pharmaceutical Residues In the Tejo Estuary | **Sara Leston**, *CFE-Center For Functional Ecology, Portugal*

WE108 | Environmental risk of enrofloxacin used in aviculture | **Matilde Carballo**, *INIA – National Institute for Agricultural and Food Research and Technology, Spain*

WE109 | Evaluating the use of veterinary antibiotics in dairy environments to inform on antimicrobial resistance spread and development | **Thomas Dodsworth**, *The University of Nottingham, UK*

WE110 | How do marine and freshwater cyanobacteria react to long term exposure of antibiotics? Is there a potential for increasing antibiotic resistance in the environment? | **Jens Heseding**, *Hamburg University of Applied Sciences, Germany*

WE111 | Impact of antibiotics on the feeding rate of the freshwater shrimp Gammarus pulex | **Giulia Consolandi**, *University of Portsmouth, UK*

WE112 | Persistence of the sulfamethoxazole antibiotic in a digestate-amended agricultural soil | **Jasmin Rauseo**, *National Research Council, Italy*

WE113 | Pollution in the Mooi River: Fluconazole and fluconazole resistant pathogenic yeasts species | **Mzimkhulu Monapathi**, *North West University (Potchefstroom Campus), South Africa*

WE114 | Reactivity, mobility and degradation of the antibiotic Sulfametoxazole and its impact on the microbial communities of an agricultural soil amended with organic waste products | **Jean Martins**, *CNRS IGE UMR 5001, Univ. Grenoble, France*

WE115 | Risk assessment of antibiotic resistance and related genes in human impacted environments | **Marko Virta**, *University of Helsinki, Finland*

WE116 | Risk of antibiotics in the environment | **Daniel João Silva Tavares Duarte**, *Radboud University, Netherlands*

WE117 | Sulfamethoxazole degradation in river water microcosms and effect on the natural microbial community | **Jasmin Rauseo**, *National Research Council, Italy*

WE118 | The effect of antibiotics on representatives of aquatic algal and plant species | **Bakhyt Aubakirova**, *L.N. Gumilyov Eurasian National University, Kazakhstan*

WE119 | The Presence of Human and Veterinary Antibiotics in Urban and Rural Streams of North Carolina | **Austin Gray**, *University of North Carolina at Greensboro, USA*

WE120 | The Role of Water Quality Analysis: Understanding our process environment to inform on AMR | **Thomas Dodsworth**, *The University of Nottingham, UK*

WE121 | Safety and efficiency assessment of antibiotic administration by magnetic nanoparticles in Zebrafish | **Giulia Chemello**, *Università Politecnica delle Marche, Italy*

WE | Wednesday Poster Presentations

Analysis and Fate of Emerging Contaminants in soils, water and plants under water scarcity (P) | Damia Barcelo, Yolanda Pico

WE122 | Identifying and Controlling Sources of Ultra-Trace Metals in Control Blanks and Ensuring High-Quality Data for Sensitive Environmental Risk-Based Decisions | **Rock Vitale**, *Environmental Standards, USA*

WE123 | Comprehensive Analysis of Elemental Contamination in Environmental Samples utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS) | **Simon Nelms**, *Thermo Fisher Scientific, UK*

WE125 | Analytical method for determination of Fullerene (C60) nanoparticles in seawater samples | **Lia Gracy Diniz**, *Universidade Estadual do Maranhão, Brazil*

WE126 | Screening of per – and polyfluoroalkyl substances (PFASs) and total organic fluorine in wastewater effluent from Nordic countries | **Fangfang Chen**, *MTM Research Centre, Orebro University, Sweden*

WE127 | Quantitative evaluation of lag effect in polar organic chemical integrative sampler (POCIS) and modified POCIS with polytetrafluoroethylene (PTFE) membranes | **Yoonah Jeong**, *KIST Europe, Germany*

WE128 | Occurrence and Ecological Risk Assessment of Several Endocrine Disrupting Chemicals in Urban River Water and Sediment of South China | **Cong Huang**, *Jinan University, China*

WE129 | Occurrence, distribution and fate of pharmaceuticals as chemical markers of contamination from urban sources in the vulnerable area of the Ebro Delta (Spain) | **Mira Celic**, *Catalan Institute for Water Research ICRA, Spain*

WE130 | Occurrence of pharmaceuticals and personal care products, and their associated environmental risks in a large shallow lake in north China | **Huaidong Zhou**, *China Institute of Water Resources and Hydropower Research IWHR, China*

WE131 | Occurrence of perfluorinated compounds in air, water, soil, sediment, and fishes from the Asan Lake region, South Korea | **Ji-Young Lee**, *Seoul National University, South Korea*

WE132 | Seasonal changes in water and sediments' microplastics in a Mexican estuary (Tecolutla) | **Patricia Ramirez Romero**, *U.A.M. Iztapalapa, Mexico*

WE133 | Simultaneous biodegradation of water treatment additives: Transformation and byproduct formation, impact of biocide shock dosing and salinity | **John Parsons**, *University of Amsterdam, Netherlands*

WE134 | Fate of organic micropollutants in a small river: Hydrological and chemical processes | **Clarissa Glaser**, *Center for Applied Geosciences, Germany*

WE135 | Occurrence of pharmaceuticals at extremely high concentrations in surface waters in Nigeria | **Olatayo Ogunbanwo**, *University of Leeds, UK*

WE136 | Assessment of emerging contaminants in the L'Albufera Natural Park (Valencia, Spain) | **Maria Jesús Andrés Costa**, *Universitat de Valencia, Spain*

WE137 | Effects of urbanization process on water quality of rivers on the Santa Catarina Island, Brazil | **Maria Flavia Barbosa Xavier**, *Universidade Federal de Santa Catarina, Brazil*

WE138 | Presence of emerging contaminants in sewage sludge and assessment of their environmental risk for the Albufera National Park, Valencia, Spain | **Yolanda Pico**, *University of Valencia, Spain*

WE139 | Chlorinated Benzenes in fishes fron Dongting lake | **Kun Li**, *China Institute of Water Resources and Hydropower Research, China*

WE140 | Occurrence of bisphenol A in Mediterranean mussels (Mytilus galloprovincialis) sampled from the north Adriatic coastal waters (Slovenia) | **Vesna Cerkvenik Flajs**, *University of Ljubljana, Veterinary Faculty, Slovenia*

WE141 | Toxicity of non-steroidal anti-inflammatory drug and the behavioural response in juvenile catfish | **Nosakhare Erhunmwunse**, *University of Benin, Nigeria*

WE142 | Reproductive and maternal effects of Tamiflu metabolites in medaka (Oryzias latipes) | **Lee Bing Heng**, *Department of Biomedical Science and Environmental Biology, Kaohsiung Medical University, Taiwan*

WE143 | Earthworms (Eisenia fetida) response to chronic exposure to triclosan | **Jurate Zaltauskaite**, *Vytautas Magnus University, Lithuania*

WE144 | Predicting the fate of pharmaceuticals during wastewater treatment and crop irrigation with reclaimed wastewater | **Mariano González García**, *UCAM, Spain*

WE145 | Exposure Assessment of Residual Organochlorine Pesticides (OCPs) in Orchard Soils and Fruits in Korea | **ByungJun Park**, *RDA, South Korea*

WE146 | PhytoCOTE project: Assessment of organic and inorganic contamination in vineyard soils | **Manon Pierdet**, *LPTC EPOC UMR5805, France*

WE147 | Analysis and Assessment of Organic Contaminants in Materials Spread on Land in Scotland | **Edward Stutt**, *WCA Environment Limited, UK*

WE148 | Microplastics in Agriculture Soil | **Kristina Olesen**, *Aalborg University, Denmark*

WE149 | Novel Analytical Strategies for Anthropogenic Compounds in Plants: Vegetable Biomonitors for Contaminants in the Environment | **Stefan Bieber**, *Technical University of Munich, Germany*

WE150 | Pharmaceuticals uptake by spinach from seven soils mixed with sewage sludge | **Radka Kodesova**, *Czech University of Life Sciences Prague, Czech Republic*

WE151 | Will spent mushroom substrate application affect the dissipation and plant uptake of phthalate esters? | **Juan Gao**, *Institute of Soil Science, CAS, China*

Plants: Predicting and assessing direct, indirect effects and recovery of plants from chemical stress (P) | Stefania Loutseti, Udo Hommen, Henry Krueger, Gertie Arts

WE152 | Experiences of demonstrating aquatic plant recovery following herbicide exposure using sloped mesocosms | **Frances Pickering**, *Cambridge Environmental Assessments, UK*

WE153 | Impact of plant density on the end points (ER50) determined for crop protection products in Non Target Terrestrial Plants Studies conducted to OECD 227, Vegetative Vigour | **Giovanna Meregalli**, *Dow AgroSciences Italia s.r.l., Italy*

WE154 | Interspecific competition impact on organism responses to chemical stress : an SSD-based approach | **Vincent Baillard**, *LIEC Université de Lorraine, France*

WE155 | How to consider recovery of aquatic plants in risk assessments? | **Udo Hommen**, *Fraunhofer IME, Germany*

WE156 | Rimsulfuron toxicity and recovery in duckweed (Lemna minor) | **Megan Opincarne**, *University of Florida, USA*

WE157 | Toxicokinetic/toxicodynamic (TK/TD) modelling – Increasing the realism in risk assessments for aquatic plants | **Simon Heine**, *Bayer Ag, Germany*

WE158 | Assessing soil toxicity of methylparaben using plants and collembola | **Jin Il Kwak**, *Konkuk University, South Korea*

WE159 | Evaluation of phytotoxicity for Bisphenol A with new endpoint, phytoestrogen | **Jin Il Kwak**, *Konkuk University, South Korea*

WE160 | Soil toxicity of DEHP and Nonylphenol on mungbean and rice | **Jin Il Kwak**, *Konkuk University, South Korea*

WE161 | Toxicity of a glyphosate based formulation on phytoplanktonic green microalgae | **María Rios de Molina**, *Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Argentina*

WE162 | Indicator, indigenous and invasive species: The need of risk-benefit considerations in PPP risk assessment? | **Giovanna Meregalli**, *Dow AgroSciences Italia s.r.l., Italy*

WE163 | Auxinic herbicides: The impact of water plants' root measurements on the risk assessment | **Guido Gonsior**, *Eurofins Agroscience Services Ecotox GmbH, Germany*

WE164 | Testing the emergent macrophyte, Glyceria maxima in a water-sediment system : Results of a ring-test with Isoproturon | **Joanna Davies**, *Syngenta, UK*

WE165 | Study of the toxicity effects of Cd, Ni and Zn on macrophytes, antioxidant responses and time for steady-state bioaccumulation under constant metal concentrations exposures | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE166 | Physiological responses of Thlaspi praecox (Brassicaceae) to Ni hyperaccumulation | **Tomica Mišljenović**, *University of Belgrade, Faculty of Biology, Serbia*

WE167 | Phytoextraction of heavy metals in Cienega of Tamasopo wetland, México, by Typha latifolia | **Cynthia Wong**, *Universidad Autonoma de San Luis Potosi, Mexico*

WE168 | Heavy metal removal by aquatic plants | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE169 | Toxicity of the binary mixture Cd-Zn on Lemna gibba evaluated using morphological and oxidative stress enzyme endpoints | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE170 | Increase of tolerance of green algae as a tool in metal bioremediation | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

WE171 | Ecotoxicological assessment of the iron mining waste from Mariana (Brazil) on terrestrial flora using different plant species | **Livia Figueiredo**, *University of São Paulo USP, Brazil*

WE172 | Mitigation of CuO nanoparticles microbial ecotoxicity by plant in an agricultural soil: Plant variety matters | **Jean Martins**, *IGE UMR 5001, France*

WE173 | Use of Posidonia oceanica as a potential bioindicator species of metal pollutants: Cellular and molecular responses to mercury exposure | **Ginevra Moltedo**, *ISPRA-Institute for Environmental Protection and Research, Italy*

WE174 | Influence of toluene vapor exposure on plant metabolic changes | **Woojung Kim**, *Gwangju Institute of Science and Technology, South Korea*

WE175 | Influence of soil organic amendments on the phenolic contents in rosemary (Rosmarinus officinalis L.) plants | **Paola Grenni**, *National Research Council of Italy (CNR), Italy*

WE176 | Leaf litter originating from trees treated with systemic fungicides – a new exposure pathway for aquatic decomposer detritivore systems | **Kymberly Newton**, *Univesity of Montreal, Canada*

IG **WE177** | SETAC Plants Interest Group | **Stefania Loutseti**, *DuPont De Nemour Hellas S.A., Greece*

WE | Wednesday Poster Presentations

Environmental Risk Assessment in Sediments (P) | Sebastian Höss, Ute Feiler, Daniel Faber, Paul Sibley

WE178 | Benthic invertebrate bioturbation activity determines species specific sensitivity to sediment contamination | **Milo de Baat**, *University of Amsterdam, Netherlands*

WE179 | Effect based sediment quality assessment incorporating chemical fingerprinting | **Nienke Wieringa**, *University of Amsterdam/IBED Institute, Netherlands*

WE180 | Quantifying the Bioavailability of HOCs associated with Suspended Sediment to Daphnia magna | **Xinghui Xia**, *School of Environment, Beijing Normal University, China*

WE181 | Sediment quality assessment in the Netherlands: Link between chemical, toxicological and ecological parameters | **Leonie Lautz**, *Radboud University Nijmegen, Netherlands*

WE182 | Integrative approach to assess ecological risks of sediment metallic contamination in Lake Ohrid (Albania) | **Laetitia Minguez**, *LIEC Université de Lorraine, France*

WE183 | Active Biomonitoring and DGT Passive Sampling: Holistic Assessment of metal bioavailability in sediments and associated risks | **Kristine De Schamphelaere**, *Universiteit Antwerpen, Belgium*

WE184 | Bioturbation in contaminated sediments: Effects on exposure, toxicity and biogeochemistry | **Timothy Remaili**, *Griffith University, Australia*

WE185 | The diffusive gradients in thin films (DGT) technique predicts toxicity of nickel contaminated sediments to a marine amphipod | **Megan Gillmore**, *CSIRO Land and Water, Australia*

WE186 | Identifying key toxicants in sediment samples from urban waterways in Guangzhou, China using a integrated method of TIE and EDA | **Jing You**, *Jinan University, China*

WE187 | Water discharges from the city of Lausanne during rainfall in Lake Geneva: Use of a triad approach to assess their influence on sediment quality | **M. Carmen Casado-Martinez**, *Centre Ecotox, Switzerland*

WE188 | Ecotoxicological profiling of sediments along the River Wurm by Aachen (North-Rhine-Westphalia, Germany) | **Aliaksandra Shuliakevich**, *Institute for Environmental Research (RWTH Aachen University), Germany*

WE189 | Comparing conventional and integrative concepts for sediment classification systems | **Sonja Faetsch**, *Hamburg University of Applied Sciences (HAW), Germany*

WE190 | Submarine sewage outfall adversely affects the sediment quality of Santos, Brazil estuary – An acute toxicity study | **Amanda dos Santos**, *Faculdade de Ciências Farmacêuticas – USP, Brazil*

WE191 | Swimming in turbid water: Impacts of suspended fine sediments on fish physiology | **Marie Lefranc**, *Hepia, University of Applied Sciences Western Switzerland, Switzerland*

WE192 | Assessing the bioavailability of metals in natural sediments by DGT passive sampling and bioaccumulation | **Hanne Hetjens**, *SPHERE, Belgium*

WE193 | Ecotoxicological effects of sediments influenced by a municipal wastewater treatment plant – state of a receiving river before implementing an ozonation treatment | **Nadine Wilbrand**, *RWTH Aachen University, Germany*

WE194 | Dredging sediment quality evaluation: A comparison of an ecotoxicological classification using an weight-of-evidence approach and a "pass to fail" criteria | **Elisa Costa**, *CNR-ISMAR, Italy*

WE195 | Toxicity of sediment-bound lufenuron to aquatic arthropods in laboratory bioassays | **Theo C.M. Brock**, *Alterra, Wageningen University and Research Centre, Netherlands*

WE196 | Application of an undisturbed sampling technique for depth related analysis of sediment particles and pore-water in OECD TG 219 sediment test systems | **Alexander Dorn**, *Hochschule Niederrhein, Germany*

IG

WE197 | SETAC Sediment Interest Group | **Paul Sibley**, *University of Guelph, Canada*

Improving the environmental risk assessment of the aquaculture 'Blue Revolution' (P) | Andreu Rico, Paul van den Brink, Ailbhe Macken, Trevor Telfer

WE198 | Global overview of aquaculture production with a focus on the development and current status of the activity in Portugal | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*

WE199 | Characterization of the ontogenetic variation and nutritional composition of Gilthead seabream and European seabass reared in two Portuguese estuaries | **Ana Gonçalves**, *MARE, Dep. of Life Sciences, Coimbra University/Biologia Department & CESAM, Aveiro University, Portugal*

WE200 | Effects of aquaculture antibiotics on marine biofilms and on the amphipod Gammarus aequicauda | **Belen Gonzalez-Gaya**, *IMDEA Water, Spain*

WE201 | Shifts in the diatom assemblage structure and biological traits of marine biofilms exposed to antibiotics used in aquaculture | **Belen Gonzalez-Gaya**, *IMDEA Water, Spain*

WE202 | Assessing the oxidizing effects of hydrogen peroxide using flow cytometry as a high throughput method | **Adam Lillicrap**, *NIVA, Norway*

WE203 | An updated version of the SEPA BathAuto tool for assessing anti-parasitic chemical treatments in marine fish farms | **Jacqui Carnall**, *Cambridge Environmental Assessments, UK*

WE204 | State-of-the-art on the use of models for the ERA of chemicals used in aquaculture | **Andreu Rico**, *IMDEA Water Institute, Spain*

WE205 | Effects of an aquaculture parasiticide (diflubenzuron) on non-target shrimp populations: From lab experiments to population-level endpoints | **Jannicke Moe**, *Norwegian Institute for Water Research (NIVA), Norway*

WE206 | Contamination and bioaccumulation of heavy metals in the wild and marine farmed milkfish (Chanos chanos) and mullet (Mugil cephalous) and associated health risk along the coasts of Tanzania | **Eliezer Mwakalapa**, *Norwegian University of Life Sciences, Tanzania*

WE207 | Potential Toxic and Phototoxic Effects of Benzobicyclon on Crayfish | **Emily Vebrosky**, *Louisiana State University, USA*

WE208 | Effects of the isoflavones, genistein and daidzein, on Acetylcholinesterase from head of Solea Senegalensis | **Gemma Albendín**, *Universidad de Cádiz, Spain*

Luminescent biomonitoring via bioassays of different complexity – from cells trough enzyme reactions to proteins (P) | Nadezhda Kudryasheva, Valentina Kratasyuk, Elizaveta Kolosova, Anna Sachkova

WE209 | Comparison between results of LumiMARA and Microtox tests | **Marie-Claire Lot**, *CEHTRA, France*

WE210 | Bioluminescent assays as tools for studying antioxidant activity and toxicity of bioactive compounds | **Anna Sachkova**, *Tomsk Polytechnic University, Russia*

WE211 | Effect of low-dose gamma-radiation on luminous marine bacteria Photobacterium Phosphoreum | **Alena Petrova**, *Krasnoyarsk State Agrarian University, Russia*

WE212 | Bioluminescent Assay for Toxicological Assessment of Nanomaterials | **Valentina Kratasyuk**, *Siberian Federal University, Russia*

WE213 | Delayed chlorophyll fluorescence in biomonitoring of environmental pollution | **Yury Grigorev**, *Siberian Federal University, Russia*

WE214 | Chlorophyll fluorescence temperature curve to estimate changes of the photosynthetic apparatus of coniferous trees during the transition to a state of winter dormancy in urban ecosystems | **Yury Grigorev**, *Siberian Federal University, Russia*

WE215 | Luminescent microscopy in the bioindication of the Baikal pollution with oil products and polyaromatic hydrocarbons | **Michael Saksonov**, *Irkutsk State University, Russia*

WE216 | The correlation between fluorescent properties of water extract from soil and its effect on bioluminescent enzymatic bioassay | **Valentina Kratasyuk**, *Siberian Federal University, Russia*

WE217 | The comparison of enzyme systems for soil contamination bioassay | **Elizaveta Kolosova**, *Siberian Federal University, Russia*

WE218 | Are changes in bioluminescence kinetics of Photobacterium phosphoreum exposed to low-dose radiation connected with genetic mutations? | **Valeriya Guseynova**, *Siberian Federal University, Russia*

LCA and beyond – integrating sustainability and/or other dimensions to improve decision support (P) | Serenella Sala, Roland Hischier, Yan Dong

WE219 | Meet the Framework Regulation and Supply Chain secondary standards in wheat cultivation for sustainable pasta production. An example of broadleaf weed control: Halauxifen-methyl (Arylex™ active) | **Claudia Vaj**, *Dow AgroSciences Italia s.r.l., Italy*

WE220 | Cradle to grave Life Cycle Assessment of Traditional and Vegetative roofs | **Makram EL Bachawati**, *University of Balamand, Lebanon*

WE221 | Filling whole building life cycle assessment gaps for conceptual building design | **Vaclav Hasik**, *University of Pittsburgh, USA*

WE222 | Prospects for multidimensional assessment of sustainability in urban environments | **Sara González-García**, *University of Santiago de Compostela CIF, Spain*

WE223 | Life Cycle Analysis of remediation solutions in railways and surrounding areas | **Maria Rosa Riera**, *Leitat Technological Center, Spain*

WE224 | Life Cycle Assessment of Asphalt Mixtures vs Road Pavements | **Davide Lo Presti**, *The University of Nottingham, UK*

WE225 | Sustainability assessment of an integrated innovative wastewater and greywater system for an optimal and safe closed water cycle in Mediterranean tourist facilities: DemEAUmed solution | **Ariadna Claret**, *Leitat Technological Center, Spain*

WE226 | Integrating Life Cycle Assessment and Risk Assessment to support decision making in the framework of Enhanced Landfill Mining | **Giovanna Sauve**, *KU Leuven Research & Development, Belgium*

WE227 | Comparative environmental sustainability analysis of waste-to-energy techniques for municipal solid waste | **Ana Ramos**, *INEGI, Portugal*

WE | Wednesday Poster Presentations

WE228 | Life Cycle Assessment of Pharmaceutical Waste Disposal in the UK | **Siti Syuhaida Mohamed Yunus**, *University of York, UK*

WE230 | Streamlined life cycle assessment of emerging batteries in early design phases using CCaLC tool | **Claudia Tomasini Montenegro**, *KIT, Karlsruhe Institute for Technology, Germany*

WE232 | Development of Environment Hotspots of Analysis and the consideration of availability to eco-labeling program | **Yoko Kurahara**, *Tokyo City University, Japan*

WE233 | Environmental burden reduction in the FTA framework using network analysis | **Shohei Tokito**, *Kyushu University, Japan*

WE234 | Developing life cycle assessment to fight climate change | **Pietro Goglio**, *Carnfield University, UK*

WE235 | Hybrid fulfilment-importance matrix for assessing socioeconomic impact | **Joan Berzosa**, *Fundació CTM Centre, Spain*

IG **WE236** | SETAC Sustainability Interest Group | **Deborah Carr**, *Texas Tech University, USA*

IG **WE237** | SETAC LCA Interest Group (Europe) | **Heinz Stichnothe**, *Thünen Institute, Germany*

WE238 | Life cycle assessment of a thermoplastic starch obtained from mango kernel | **Alexandre Nunes Cardoso**, *Embrapa – Brazilian Agricultural Research Corporation, Brazil*

Environmental monitoring of contaminants using terrestrial ecological biomonitors (P) | Sofia Augusto, Nuno Ratola, Mira Aničić Urošević

WE239 | Geostatistically estimating spatial structures of heavy metals and nitrogen accumulation in mosses sampled between 1990 and 2015 throughout Germany | **Stefan Nickel**, *University of Vechta, Germany*

WE240 | Semi-volatile organic contaminants (SVOCs) in pine needles from Iceland | **Nuno Ratola**, *Faculty of Engineering – University of Porto, Portugal*

WE241 | Study of global diffuse pollution levels in remote high mountain areas and their impact on the organisms from these ecosystems | **Raimon Prats**, *Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain*

WE242 | Spatial distribution of mercury and trace metals in epiphytic lichens in Nova Scotia, Canada | **Sara Klapstein**, *Acadia University, Canada*

WE243 | Biological monitoring of environmental quality near a solid waste incinerator in central Lithuania | **Gintare Sujetoviene**, *Vytautas Magnus University, Lithuania*

WE244 | Nothing is what it seems: Levels of PCDD/Fs in the surroundings of a hazardous waste incinerator | **Marta Schuhmacher**, *Rovira i Virgili University, Spain*

WE245 | The use of land snail Cornu aspersum as sentinel organism to monitor air pollution | **Lucrezia Sturba**, *University of Siena, Italy*

WE246 | The relationship between lead exposure on dogs and their behavior around Pb mining area, Kabwe, Zambia | **Haruya Toyomaki**, *Hokkaido University, Japan*

WE247 | Monitoring and impact assessment of terrestrial ecosystem using Eisenia fetida affected by chemical incidents | **Kyeongnam Kim**, *Kyungpook National University, South Korea*

WE248 | Biochemical and behavioural responses in two endogeic earthworm species exposed to parathion | **Fatina Jouni**, *UAPV/IMBE, France*

WE249 | Cr transport in sweet peppers plants cultivated with vermicomposted tannery wastes | **Maria Rezende**, *Universidade de Sao Paulo, Brazil*

WE250 | Insecticide resistance in the natural enemy F. auricularia: Detoxification pathways and sensitivity of acetylcholinesterase to organophosphate insecticide | **Adrien Le Navenant**, *UAPV/IMBE/INRA, France*

WE251 | Bioaccumulation of persistent halogenated organic pollutants in insects: Common alterations to the pollutant pattern for different insects during metamorphosis | **Liu Yu**, *Guangzhou Institute of Geochemistry, China*

WE252 | Glyphosate: toxic or not toxic, this is the question | **Mariailaria Verderame**, *University Federico II, Italy*

WE253 | Concentration of perfluoroalkyl substances decreases according to the laying order in the yolk of yellow-legged gull eggs | **Cristina Possenti**, *Università degli Studi di Milano, Italy*

WE254 | First assessment of metal concentration in the crab Goniopsis cruentata (Latreille, 1803) (Decapoda, Grapsidae) from two brazilian mangroves areas with different levels of contamination | **Marcela Vedolin**, *University of São Paulo USP, Brazil*

WE255 | Maternal Transfer of persistent halogenated organic pollutants in Watersnakes (Enhydris chinensis) | **Xiao-Jun Luo**, *Guangzhou Institute of Geochemistry, China*

WE256 | Development of a Multi-compound Multi-matrix Method for Analysis of Halogenated Flame Retardants Comprising a Multi-step Cleanup and Use of GC-API-MS/MS and GC-EI-MS | **Annekatrin Dreyer**, *Eurofins GfA GmbH, Germany*

Product benefits and positive outcomes: Valuation and beyond (P) | Enrico Benetto, Till Bachmann, Katerina Stylianou

WE257 | A method to calculate carbon handprint | **Tiina Pajula**, *VTT Technical Research Centre of Finland Ltd., Finland*

WE258 | Associating regionalised Life Cycle Assessment (LCA) and economic values of ecosystem goods and services: Impacts of upstream natural land transformations on ecosystem quality | **Atta Ajayebi**, *University of Exeter, UK*

WE259 | Recent advances in natural capital accounting | **Samantha Deacon**, *Ramboll Environment & Health Limited, UK*

WE260 | A Life Cycle Costing and Analysis of a Hybrid-Electric Engine | **Gwendolyn Bailey**, *KU Leuven, Belgium*

WE261 | Developing a National Food Inventory to estimate the Carbon Footprint of the diet of an average Spanish. Future requirements and policy recommendations | **Alba Bala**, *UNESCO Chair in Life Cycle and Climate Change (ESCI-UPF), Spain*

WE262 | Life Cycle Air Emissions External Costs Assessment for comparing Electric and traditional passenger cars | **Pierpaolo Girardi**, *RSE SpA, Italy*

WE263 | Life Cycle Costing: Methodological description and implementation | **Jade Garcia**, *SCORE LCA, France*

WE264 | Pizza: It is dangerously delicious! | **Katerina Stylianou**, *University of Michigan – School of Public Health, USA*

WE265 | The impact of supplemented amino acids in animal feed – a new Life Cycle Assessment approach using the Protein Quality Index as functional unit for comparing protein sources | **Aurelie Wojciechowski**, *Evonik Technology & Infrastructure, Germany*

WE266 | The ISO/DIS 14008 standard: Monetary valuation of environmental impacts and related environmental aspects – Principles, requirements and guidelines – an overview | **Jeanne Serre**, *VERI, France*

WE267 | The safe and sustainable loops framework for assessing residual material flows | **Joris Quik**, *RIVM, Netherlands*

WE268 | Who is being served? Considering the values stakeholders wish to sustain in decision making | **Sabine Apitz**, *SEA Environmental Decisions Ltd, UK*

Salt of the earth – causes, consequences and management of salinization of surface freshwaters, groundwaters and soils (P) | Ben Kefford, Ralf Bernhard Schäfer, James Lazorchak

WE269 | Effects of long-term exposure to increased salinity in the amphibian skin bacterium Erwinia toletana | **Antonieta Gabriel**, *University of Aveiro, Portugal*

WE270 | Impacts of agriculture brackish effluents in saline ecosystems: When the low salinity cannot be an advantage but an impact | **Jose Alvarez-Rogel**, *Escuela Técnica Superior de Ingeniería Agronómica. Universidad Politécnica de Cartagena, Spain*

WE271 | Context dependent toxicity – do ecological interactions alter the effects of salinity on stream macroinvertebrate communities? | **Ben Kefford**, *University of Canberra, Australia*

WE272 | Challenges in developing a water quality guideline for water hardness | **Sarah Bogart**, *University of Lethbridge, Canada*

WE273 | Prioritization of water quality stressors according to their relative impact on ecological quality of rivers using large-scale field data: Salinity first? | **Elisabeth Berger**, *Senckenberg Gesellschaft, Germany*

WE274 | Estimating protective potassium concentrations for freshwater mussels, a taxon of global conservation concern | **Thomas Augspurger**, *U.S. Fish and Wildlife Service, USA*

WE275 | LIFE LAGOON REFRESH – Coastal lagoon habitat (1150*) and species recovery by restoring the salt gradient increasing fresh water input. Management measures in the northern Venice Lagoon (NE, Italy) | **Federica Cacciatore**, *ISPRA-Institute for Environmental Protection and Research, Italy*

WE276 | Comparing the growth of fescue and clover plants in petroleum industrial effluents and solutions of similar salinity | **Phatchani Srikhumsuk**, *University of Strathclyde, UK*

WE277 | Contribution to the salinization risk assessment, under drought conditions, in the Alqueva irrigation area (South Portugal) | **Patricia Palma**, *Instituto Politécnico de Beja, Portugal*

Systems ecotoxicology: Application of OMICS data across multiple level of biological organization in research and risk assessment (P) | Anze Zupanic, Bruno Campos, Philipp Antczak, Jana Asselman

WE279 | Investigating wildlife diets using high-tech DNA sequencing | **Jan-Dieter Ludwigs**, *Rifcon GmbH, Germany*

WE280 | Design of a Real-Time PCR array to analyze the gene expression in Physella acuta (Gastropoda) in chemical stress and starvation | **Jose-Luis Martinez-Guitarte**, *UNED, Spain*

WE281 | Effects of temperature on the transcriptome of the marine copepod Temora longicornis | **Ilias Semmouri**, *Ghent University (UGent), Belgium*

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WE282 | A traditional approach to modern endpoints – quantitative assessment of stress gene expression response to a range of copper concentrations in the freshwater mussel Anodonta anatina | **Gustaf Ekelund Ugge**, *Lund University, Sweden*

WE283 | Validating a contamination assessment tool from lab to the field: Folsomia candida exposed to a fungicide-based formulation | **Tiago Simoes**, *Polytechnic Institute of Leiria, Portugal*

WE284 | Proteome response of Chironomus riparius under exposure to the neurotoxic insecticides Spinosad and Indoxacarb | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*

WE286 | Assessing Cu impacts on freshwater diatoms: Biochemical and metabolomic responses of Tabellaria flocculosa (Roth) Kützing | **Sara Gonçalves**, *Universidade de Aveiro, Portugal*

WE287 | Non-targeted approach to identify metabolic perturbations in gilt-head bream liver and brain exposed to benzophenone-3 | **Leire Mijangos**, *University of the Basque Country UPV/EHU, Spain*

WE288 | Effluents from pulp and paper metabolic alterations in liver and gonads of fish | **Maria Flavia Barbosa Xavier**, *Universidade Federal de Santa Catarina, Brazil*

WE289 | Developing biomarkers of sewage effluent exposure in the freshwater amphipod Gammarus fossarum | **Domenico Caputo**, *University of Portsmouth, UK*

WE290 | Optimising the algal toxicity test towards generation of multi-omics data and adverse outcome pathway discovery | **Stefan Schade**, *Birmingham University, UK*

WE291 | Elucidating interactive toxic effects of copper and lead on marine mussels: Molecular to physiological consequences | **Charlotte Crowther**, *Plymouth University, UK*

WE292 | The Identification of Toxicological Markers in Adverse Outcome Pathway Discovery in Chlamydomonas reinhardtii | **Georgia Reynolds**, *Unilever, UK*

WE293 | Effects of water-borne benzo[a]pyrene on early-life stages of the fathead minnow (Pimephales promelas) | **Markus Schmitz**, *RWTH Aachen University, Germany*

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WE294 | SETAC OMICs Interest Group | **Bruno Campos**, *Unilever R&D, UK*

Epigenetic and evolutionary toxicology: From mechanisms to risk assessment (P) | Benjamin Pina, Jana Asselman, Marie-Agnes Coutellec

WE296 | Epigenetic effects in Daphnia magna by characterizing quantified abundance of global methylation, gene expression and histone modifications | **Knut Erik Tollefsen**, *NIVA, Norway*

WE297 | Role of microRNAs in the response of the European eel Anguilla anguilla to water pollution | **Anthony Bertucci**, *Université de Bordeaux, France*

WE298 | Exposure to copper during embryogenesis caused temporary increased tolerance in two subsequent generations in the three-spined stickleback (Gasterosteus aculeatus) | **Hannah Littler**, *University of Exeter, UK*

Emergence and multidimensional interactions of engineered nanoparticles in toxicology (P) | Sankar Ganesh Palani, Siva Prasad Bitragunta, Samuel Thompson, Richard Cross

WE299 | Do global warming increase bioaccumulation of copper nanoparticle in tilapia? | **Jin-Liang Kuo**, *Kaohsiung Medical University, Taiwan*

WE300 | Environmental mixtures of nanomaterials and chemicals: Proposal for a consistent nomenclature of mixture effects in environmental organisms | **Dana Kühnel**, *Helmholtz-Centre for Environmental Research, Germany*

WE301 | Investigating the Trojan horse effect of nanoparticles on an aquatic community – An outdoor mesocosm study | **Tido Strauss**, *Research Institute gaiac, Germany*

WE302 | Nano silver based products and environmental challenges: Toxicity and accumulation in a marine sentinel species | **Giulia Liberatori**, *University of Siena, Italy*

WE303 | Effect of gold nanoparticles on feeding, growth and enzymes activity of amphibians | **Bruno Rafael Rabelo Costa**, *Department of Biology & CESAM – University of Aveiro, Portugal*

WE304 | Interaction of the biocide triclocarban and weathered multiwalled carbon nanotubes (wMWCNT) in freshwater algae: Chronic effects & bioaccumulation | **Irina Politowski**, *RWTH Aachen University, Germany*

WE305 | Comparative assessment of the interactive effects of Carbon-based nanomaterials and Benzo(α)pyrene on zebrafish embryos | **Camilla Della Torre**, *State University of Milano, Italy*

WE306 | In vitro toxicity of model ZnO nanoparticles on hemocytesvof mussel Mytilus galloprovincialis | **Ioanna Efthimiou**, *University of Patras, Greece*

WE307 | Toxico-transcriptomics as tool to identify nano-specifc toxicity profiles | **Anze Zupanic**, *Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland*

WE308 | Zinc toxicity to A549 cells and Daphnia magna changes after incubation with iron oxide nanoparticles | **Veronica Gonzalez**, *Leitat Technological Center, Spain*

WE309 | Internalization of graphene-related nanomaterials in fish cell lines | **Judit Kalman**, *Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, Spain*

WE310 | Molecular mechanism and physicochemical properties of Cadmium-TiO_2 nanoparticle mixtures when co-exposed to the nematode Caenorhabditis elegans | **Lisa Kleene**, *Hamburg University of Applied Sciences (HAW), Germany*

WE311 | Influence of temperature and salinity on toxicity of zinc oxide nanoparticle on the marine copepod Tigriopus japonicus | **Weng Seng Lai**, *The University of Hong Kong, Hong Kong*

WE312 | Multigenerational effects of gold nanorods to Raphidocelis subcapitata and Chlorella vulgaris | **Isabel Lopes**, *University of Aveiro, Portugal*

WE313 | Effects of climate change combined with copper nanoparticle on early development of Japanese medaka (Oryzias latipes) | **Ieong Meng Ian**, *Department of Biomedical Science and Environmental Biology, Kaohsiung Medical University, Taiwan*

WE314 | The use of the marine mussels Mytilus hemocytes as a model for studying the impact of NPs on innate immunity | **Manon Auguste**, *Unversity of Genova, Italy*

WE315 | Influence of warming and acidification on copper nanoparticle bioaccumulation in medaka (Oryzias latipes) embryo | **Yi Min Zhang**, *Department of Biomedical Science and Environmental Biology, Kaohsiung Medical University, Taiwan*

WE316 | Assessing the combined toxicity of metals and metal-oxide nanoparticles in a benthic estuarine microalgae | **Raphael Ogunjemilusi**, *University of Bristol, UK*

WE317 | Comparative toxicity of silver nanocolloids and titanium dioxide nanoparticles using medaka | **Yumie Kato**, *Toyo University, Japan*

WE318 | Genotoxicity assessment of aluminium oxide nanoparticles in relation to Escherichia coli and Aeromonas hydrophila | **Nina Doskocz**, *Warsaw University of Technology, Faculty of Building Services, Hydro and Environmental Engineering, Poland*

WE319 | Effects of Copper Oxide Nanoparticles and Arsenic on the Whole-Life Cycle of Rice (Oryza sativa japonica) | **George Cobb**, *Baylor University, USA*

WE320 | Behavior of cerium oxide nanoparticles in presence of pharmaceuticals compounds on aquatic specimens | **Georgiana Amariei**, *Universidad de Alcala, Spain*

WE321 | Toxicity of nanoparticles of titanium dioxide to Daphnia longispina: Waterborne versus dietary exposure | **Edith Padilla**, *Institute for Environmental Sciences, Germany*

WE322 | Dynamics of Cu accumulation in charophyte cell compartments after its exposure to nCuO | **Levonas Manusadzianas**, *NatureResearch Centre, Lithuania*

WE323 | Are graphene nanomaterials "Trojan horse" carriers for oil compounds in mussel hemocytes in vitro? | **Miren Cajaraville**, *University of the Basque Country, Spain*

WE324 | Multigenerational effects of titanium dioxide and silver nanoparticles on Daphnia magna: Gene expression and morphological changes in the presence or absence of aged nanomaterials | **Laura-Jayne Ellis**, *The University of Birmingham, UK*

Ecological risks under complex, multiple-stressor threat scenarios: Integrating chemical effects with environmental drivers (P) | Paul van den Brink, Katherine Dafforn, Mirco Bundschuh

WE325 | Evaluating the contribution of environmental stressors to sediment concentrations of PAHs in the northern Gulf of Mexico | **Laura Basirico**, *Louisiana State University, USA*

WE326 | Microbial resistance to chemical pollution by urban effluents might be triggered by desiccation events | **Ferran Romero**, *ICRA, Catalan Institute for Water Research, Spain*

WE327 | Synergy effects of fluoxetine and variability in temperature lead to proportionally greater fitness costs: A multigenerational test | **Miguel Oliveira**, *University of Aveiro, Portugal*

WE328 | Influence of extreme heat events in the recovery capability of Mytilus galloprovincialis exposed to mercury contamination | **Francesca Coppola**, *Department of Biology & CESAM – University of Aveiro, Portugal*

WE329 | Impacts of ocean warming and BDE-209 contamination on the energy budget of juvenile white seabream (Diplodus sargus) | **António Marques**, *Portuguese Institute of Sea and Atmosphere IPMA, Portugal*

WE330 | Transgenerational effects of pesticide on vector mosquito Culex pipiens under global warming | **Thanh Tam Tran**, *KU Leuven, Belgium*

WE331 | 1+1≠2: Heritage-dependent synergistic development responses in copepods exposed to predator cues and copper | **Torben Lode**, *University of Oslo, Norway*

WE332 | Functional and structural soil-vegetation indicators of ecosystem functioning in metal-contaminated environments: A case study in SE Spain | **Jose Alvarez-Rogel**, *Escuela Técnica Superior de Ingeniería Agronómica. Universidad Politécnica de Cartagena, Spain*

WE333 | Effects of imidacloprid and a neonicotinoid mixture on aquatic invertebrate communities under Mediterranean conditions | **Andreu Rico**, *IMDEA Water Institute, Spain*

WE334 | Multiple stressor effects of ionising (γ) radiation and non-ionising (UV) radiation in duckweed (Lemna minor) | **Knut Erik Tollefsen**, *NIVA, Norway*

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WE335 | Natural organic matter determines the potential of titanium dioxide nanoparticles to mitigate pesticide toxicity in presence of UV light | **Simon Lüderwald**, *University Koblenz-Landau, Germany*

WE336 | Effects of inorganic sunscreen formulations on the algal symbionts of reef-building corals, Symbiodinium spp., and their combined toxicity with ocean warming | **Alice Tagliati**, *Heriot Watt University, UK*

WE337 | Metallothioneins as an indicator of metal exposure in a naturally mineral enriched aquatic environment | **Hilde Pienaar**, *North-West University – School of Biological Sciences, South Africa*

WE338 | Mollusks as indicators of environmental pollution (case studies in marine mussel Mytilus galloprovincialis Lam. and terrestrial snail Bradybaena fruticum Mull.) | **Tatiana Kuznetsova**, *Saint-Petersburg Scientific Research Center for Ecological Safety Russian Academy of Sciences, Russia*

WE339 | The effect of temperature on toxicity of cypermethrin on Daphnia magna | **Paula Kajankari**, *University of Helsinki, Finland*

WE340 | Pattern oriented food web modelling of metal mesocosm datasets | **Karel Viaene**, *Ghent University, Belgium*

WE341 | Bioaccumulation and physiological conditions in Ruditapes philippinarum from the Vallona lagoon (northern Adriatic Sea, NE Italy): Application of Contaminant/shell weight indices | **Federica Cacciatore**, *ISPRA-Institute for Environmental Protection and Research, Italy*

WE342 | Biomonitoring of Singapore mangroves using biomarker expression and contaminant burden in caged green mussels, Perna viridis | **Stéphane Bayen**, *McGill University, Canada*

WE343 | Impacts of climate change on mercury bioaccumulation in large ocean predators | **Clifton Dassuncao**, *Harvard University, USA*

WE344 | Chemical stress on aquatic communities under semi-arid conditions: towards an improved multimetric approach | **Marco Vighi**, *IMDEA Water Institute, Spain*

WE345 | Long – term effects on transplanted caged – freshwater bivalves Diplodon chilensis to the assessment of water quality in a Patagonian river | **María Rios de Molina**, *Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Argentina*

WE346 | The influence of selected seasonal and anthropogenic phenomena on a perennial river in South Africa | **Gerhard Van Niekerk**, *North West University (Potchefstroom Campus), South Africa*

WE347 | Growth, Photosynthetic and Antioxidative Defense System Response of Hordeum vulgare to Combined stress of Heat wave and Drought | **Renata Dagiliute**, *Vytautas Magnus University, Lithuania*

WE348 | Does elevated CO_2 protects plants against heat waves damage? | **Jurate Zaltauskaite**, *Vytautas Magnus University, Lithuania*

WE349 | Combined effects of increasing temperatures, drought and an insecticide on freshwater zooplankton communities: A microcosm study | **Marco Vighi**, *IMDEA Water Institute, Spain*

WE350 | Toxicity of phenoxy herbicide: The effects of elevated temperature and CO_2 concentration | **Jurate Zaltauskaite**, *Vytautas Magnus University, Lithuania*

WE351 | Combined effects of insecticide exposure and predation risk on freshwater detritivores | **Maria Bordalo**, *University of Aveiro, Portugal*

WE352 | How sugarcane and high temperatures are contributing to amphibian declines in Brazil? Morphological, biochemical and molecular approaches | **Juliane Silberschmidt Freitas**, *University of Sao Paulo – USP, Brazil*

WE353 | Adaptation vs. acclimation of natural phytoplankton communities towards herbicide exposure | **Simone Rizzuto**, *Lancaster University, UK*

WE354 | Impacts of climate change on freshwater pesticide exposure | **Tom Sinclair**, *University of Sheffield, UK*

WE355 | Ranking micropollutants in effluent by exposure indices evaluated via suspect/nontarget screening | **Park Naree**, *Changwon National University, South Korea*

WE356 | Interspecific effects of temperature shifts on life parameters, oxidative stress, and expression of fatty acid synthesis genes and heat shock protein genes in two congeneric copepods Tigriopus sp. | **Jeonghoon Han**, *Sungkyunkwan University, South Korea*

WE357 | Effects of water browning on zooplankton physiology and fitness driven by food characteristics in a long-term enclosure experiment | **Laetitia Minguez**, *LIEC Université de Lorraine, France*

WE358 | Interactive effects of multiple stressors on estuarine processes | **Katherine Dafforn**, *Macquarie University, Australia*

WE359 | Ecology or reproducibility crisis? – Lessons from a laboratory scale tri-trophic test system | **Verena Riedl**, *Environment Department, University of York, UK*

WE360 | Improving tolerance to natural and chemical stressors by inducing early life stress in the rotifer Brachionus sp. Cayman | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*

WE361 | Effects of a mixture of pharmaceuticals in a freshwater model ecosystem | **Viviane David**, *INERIS, France*

Improving the Quality of Ecotoxicological Testing and Assessment (P) | Simon Gutierrez, Lennart Weltje, James R. Wheeler

WE362 | Relationships between aquatic toxicity, chemical hydrophobicity and mode of action: Log kow QSARs revisited | **Mace Barron**, *U.S. EPA, USA*

WE364 | Data-mining: Making use of aquatic lower-tier data for higher-tier risk evaluation of agrochemicals | **Ulrich Memmert**, *Eurofins Regulatory AG, Switzerland*

WE365 | Comparison of models and tools for derivation of species sensitivity distributions (SSDs) for use in pesticide risk assessment | **Sandrine Charles**, *University Lyon 1, France*

WE366 | Effects on NTA communities: HCx vs NOEC designs | **Frank Bakker**, *Eurofins-Mitox, Netherlands*

WE367 | α-Dominance versus β-Prominence | **Frank Bakker**, *Eurofins-Mitox, Netherlands*

WE368 | Defining simple toxicity values (EC, BMD) is not so simple | **Elise Billoir**, *Université de Lorraine, France*

WE369 | Calculating the true ECx/LCx for non-linear models | **Zhenglei Gao**, *Bayer AG Crop Science Division, Germany*

WE370 | Review of Dose-Response Analyses in Regulatory Framework | **Zhenglei Gao**, *Bayer AG Crop Science Division, Germany*

WE371 | Deriving no effect levels using probabilistic approaches: Application to trichloroethylene (TCE) and potential impacts to risk-based exposure concentrations | **Norman Forsberg**, *Arcadis U.S., Inc., USA*

WE372 | Aquatic higher-tier exposure testing of pesticides – from complexity to simplicity | **Gero Eck**, *Eurofins Regulatory AG, Germany*

WE373 | Keeping it real: Multidisciplinary approaches to aquatic risk assessment | **Amy Brooks**, *Cambridge Environmental Assessments, UK*

WE374 | Critical aspects of higher-tier laboratory exposure testing with different aquatic organisms | **Guido Gonsior**, *Eurofins Agroscience Services Ecotox GmbH, Germany*

WE375 | Repeated pulsed exposure in a partial life cycle test with zebrafish: Keep it realistic! | **Matthias Teigeler**, *Fraunhofer IME, Germany*

WE376 | Pulsed exposure of fish at sensitive life stages: The 'worst case' challenge | **Matthias Teigeler**, *Fraunhofer IME, Germany*

WE377 | TIER2+: Developing the Tools for Future Risk Assessment – New Chronic Invertebrate Test Systems and the Application of Realistic Exposure Scenarios | **Andre Dabrunz**, *Eurofins Agroscience Services Ecotox GmbH, Germany*

WE378 | Optimisation of a chronic toxicity flow-through set up to investigate the adverse effects of chemicals to Daphnia magna | **Corinna Beyer**, *IES Ltd, Switzerland*

WE379 | Eggs and larval fish test, an alternative method to marine fish exposure: Sensitivity and interest of early life stage | **Julien Bertin**, *SGS Multilab, France*

WE380 | Lack of Relevance of Normalized Hindlimb Length Measurement in Assessment of Thyroid Disruption in the Amphibian Metamorphosis Assay | **Sascha Pawlowski**, *BASF SE, Germany*

WE381 | Acute toxicity test using Mediterranean fish species (Dicentrarchus labrax L., 1758): Intercalibration exercises towards standardized procedure | **Livia Mariani**, *CNR-IRSA, Italy*

WE382 | Introduction of a New Dosing System for Chronic Fish Tests Conducted with Difficult Substances | **Stefan Höger**, *Innovative Environmental Services (IES) Ltd, Switzerland*

WE383 | Difficult Substances as Challenge for the Algal Growth Inhibition Test According to OECD Test Guideline 201 | **Stefan Höger**, *Innovative Environmental Services (IES) Ltd, Switzerland*

WE384 | Activity based Collembola sampling may improve the data of field studies for regulatory purposes | **Silvio Knaebe**, *EAS Ecotox GmbH, Germany*

WE385 | New Technology evaluating Acartia tonsa as a biological model | **Sizenando Abreu**, *University of Aveiro, Portugal*

WE386 | Solubility limits of lanthanides in standardized ecotoxicological media | **Davide Vignati**, *CNRS, France*

WE387 | Improving ecotoxicity tests for trace elements forming poorly soluble chemical species in test media | **Davide Vignati**, *CNRS, France*

WE388 | Long term ecotoxicity testing of limonene for hazard classification: Not such a lemon after all | **Paul Thomas**, *CEHTRA SAS, France*

WE389 | Is that an effect? The importance of using all relevant data in mesocosm studies | **Alan Lawrence**, *Cambridge Environmental Assessments, UK*

WE390 | Evaluation of the environmental risk assessment procedure according to Directive 2001/18/EC for Gene Modified Organism used as medicinal products | **Susanne Schwonbeck**, *Fraunhofer Institute Toxicology and Experimental Medicine, Germany*

WE391 | PBT evaluation 20 years on: Is it time to reconsider the technical progress made in risk assessment methodology? | **Paul Thomas**, *CEHTRA SAS, France*

WE392 | UVCB block method for estimating expected mixture toxic pressure of substances of Unknown or Variable composition, Complex reaction products or Biological materials | **Dick De Zwart**, *DdZ Ecotox, Netherlands*

WE393 | Evaluation of hypopharyngeal glands development in Honeybees (Apis mellifera L.) from toxicity studies in the light of current guidelines (EFSA and OECD) | **Natalia Lemańska**, *Institute of Industrial Organic Chemistry, Branch Pszczyna, Poland*

WE394 | Assessing toxicity to Daphnia magna using movement parameters | **Tamara Đerđ**, *Department of Biology, University of Osijek, Croatia*

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WE395 | The validation of analytical methods in ecotoxicology | **Michael Faupel**, *Rifcon GmbH, Germany*

WE396 | A new pulsed-exposure early life stage test design for rainbow trout on an insecticide. Refining OECD Guideline 210 to meet the needs of EFSA Aquatic Guidance 2013 | **Christopher Ramsden**, *AgroChemex Environmental Ltd, UK*

Distribution, transformations and biological effects of incidental nanoparticles and nanoplastics in the environment from a more realistic point of view (P) | Gerardo Pulido-Reyes, Roberto Rosal

WE397 | Dissolution of Different Silica Nanoparticles in Aqueous Matrices | **Mattia Maceroni**, *Adolphe Merkle Institute, Switzerland*

WE398 | Occurrence of fullerene aggregates in Mediterranean rivers: Two cases of study | **Marinella Farre**, *IDAEA-CSIC, Spain*

WE399 | Occurrence, fate and behaviour of fullerenes in the environment | **Marinella Farre**, *IDAEA-CSIC, Spain*

WE400 | The influence of engineered surface coatings on nanomaterial stability in a complex, natural medium | **Mark Surette**, *Oregon State University, USA*

WE401 | Engineered Nanoparticles interactions in secondary wastewater treatment: Removal kinetic and efficiency during activated sludge stage | **Valerio Cappadona**, *University of Strathclyde, UK*

WE402 | Fate factor of engineered TiO_2 nanoparticles in aquatic and terrestrial natural environments | **Aurélie Schulz**, *University of Strasbourg (UdS), France*

WE403 | Assessing the fate and transport of engineered TiO_2 nanoparticles in sewer pipes through a dynamic multimedia model (SWNano) | **Ki Eun Kim**, *Seoul National University, South Korea*

WE404 | The importance of cell wall of marine microalgae in preventing the toxicity of nanoparticles | **Julian Blasco Moreno**, *CSIC Spanish National Research Council ICMAN, Spain*

WE405 | Environmental screening of structured hybrid nanoporous materials developed for industrial adsorption applications | **Andy Booth**, *SINTEF Ocean, Norway*

WE406 | Tracking Physicochemical Changes of PAHs in the Presence of TiO_2 Nanoparticles by Assessment of Biological Responses | **Lindsey St Mary**, *Heriot-Watt University, UK*

WE407 | Toxicity of TiO_2 nanoparticles to freshwater chironomids – pointing out the relevant endpoints | **Dimitrija Savić Zdravković**, *Faculty of Sciences and Mathematics, University of Niš, Serbia*

WE408 | Multigenerational exposure of the nematode C. elegans to Silver Nanoparticles at the expense of oxidative stress defence mechanisms | **Lisa Rossbach**, *Norwegian University of Life Sciences UMB, Norway*

WE409 | Effect of silver nanoparticles layer on soil surface to terrestrial species | **Jin Il Kwak**, *Konkuk University, South Korea*

WE410 | Fragmentation of nano – and microplatics from expanded polystyrene exposed to sunlight | **Wonjoon Shim**, *Korea Institute of Ocean Science and Technology, South Korea*

WE411 | Effects of nano-plastics on natural marine aggregates and their associated microbial communities | **Stephen Summers**, *SCELSE Nanyang Technological University, Singapore*

WE412 | Tracking nanoplastics in marine bivalves at environmentally realistic concentrations | **Maya al Sid Cheikh**, *University of Plymouth, UK*

WE413 | Plastics: Does size matter? Impact of environmentally relevant nanoplastics identified in the Nordic environment | **Tânia Gomes**, *Norwegian Institute for Water Research (NIVA), Norway*

WE414 | Ecotoxicity of engineered nanomaterials in relation to ecosystem complexity and functioning | **Willie Peijnenburg**, *RIVM, Netherlands*

WE415 | Development of rapid reacting automatic mobile lab responding chemical accident of aquatic environment in Korea | **Hyung Kyung Park**, *Hanyang Univ., South Korea*

WE416 | Trophic Interactions in the Bioaccumulation and Depuration of Silver in Fish from a Lake Dosed with Nanosilver | **Chris Metcalfe**, *Trent University, Canada*

WE417 | Hepatotoxicity of iron oxide (maghemite) nanoparticles in the guppy Poecilia reticulata | **Simone Sabóia-Morais**, *Federal University of Goias, Brazil*

(Eco)toxicity tests for hazard evaluation of recycling materials and waste (P) | Reinhilde Weltens, Jörg Römbke

WE418 | Biotests for Hazardous Waste Classification (HP14): Benchmarking Limits for Tolerable Ecotoxicity | **Reinhilde Weltens**, *VITO, Belgium*

WE419 | What is the future for the waste wood in terms of ecotoxicological testing? | **Stéphane Legay**, *FCBA, France*

WE420 | Quality standards for urban waste fertilizers: Putting ecotoxicology in the picture | **Isabel Lopes**, *University of Aveiro, Portugal*

WE421 | Chemical and Ecotoxicological Assessment of Reclaimed Asphalt for their Subsequent Use | **Vilma Jandova**, *Transport Research Centre, Czech Republic*

WE422 | Leaching tests – a useful tool for the environmental impact assessment of construction products | **Nicole Bandow**, *Federal Institute for Materials Research and Testing, Germany*

Advances in monitoring and evaluating remedy effectiveness for in situ amendments in soils and sediments (P) | Gijs D. Breedveld, Amy Oen

WE423 | Assessment and management of stormwater on sediment recontamination: You don't need to measure everything, just the right things | **Ilektra Drygiannaki**, *Texas Tech University, USA*

WE424 | Development of active capping materials for oil spill contaminated sediment remediation | **Ludovica Silvani**, *Norwegian Geotechnical Institute, Norway*

WE425 | PCB Tissue Concentrations and Benthic Community Impacts at a Carbon Amendment Pilot Study in the Intertidal and Subtidal Zones of San Francisco Bay | **Christopher McCarthy**, *CH2M, USA*

WE426 | Remediation of mine wastes with biochar: Effect on metal bioavailability to earthworms | **Maria Diez-Ortiz**, *Leitat Technological Center, Spain*

WE427 | Remediation of mine wastes with biochar: Effect on metal bioavailability to Enchytraeus crypticus | **Maria Diez-Ortiz**, *Leitat Technological Center, Spain*

WE428 | Bioavailability-based Methods to Assess Remediation Effectiveness | **Jay Gan**, *University of California, Riverside, USA*

WE429 | Identification, Quantification, and Risk Assessment of Polycyclic Aromatic Hydrocarbons and their Polar Derivatives in Soil After Steam Enhanced Extraction | **Lisandra Trine**, *Oregon State University, USA*

WE430 | Enhanced total petroleum hydrocarbon removal without soil disturbance by serial surfactant foam spraying | **Seung-Woo Jeong**, *Kunsan National University, South Korea*

WE431 | Factors affecting sorption of halogenated phenols to polymer/biomass-derived biochar: Effect of pH, hydrophobicity, and deprotonation | **Yong-Deuk Seo**, *University of Ulsan, South Korea*

WE432 | Biochar for soil management: interactions with legacy contaminants and current-use pesticides | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

WE433 | Preparation and characterization of composites of type clay / polymers and their use in the removal of contaminants organics of aquatic environments | **Leonildes de Jesus Aguiar Vieira**, *Universidad Federal do Maranhão, Brazil*

WE434 | Field sampling and ex-situ bioassays for assessing the ecotoxicological risk of trace elements in different rehabilitated bauxite residues | **Elisa Di Carlo**, *University of Limerick, Ireland*

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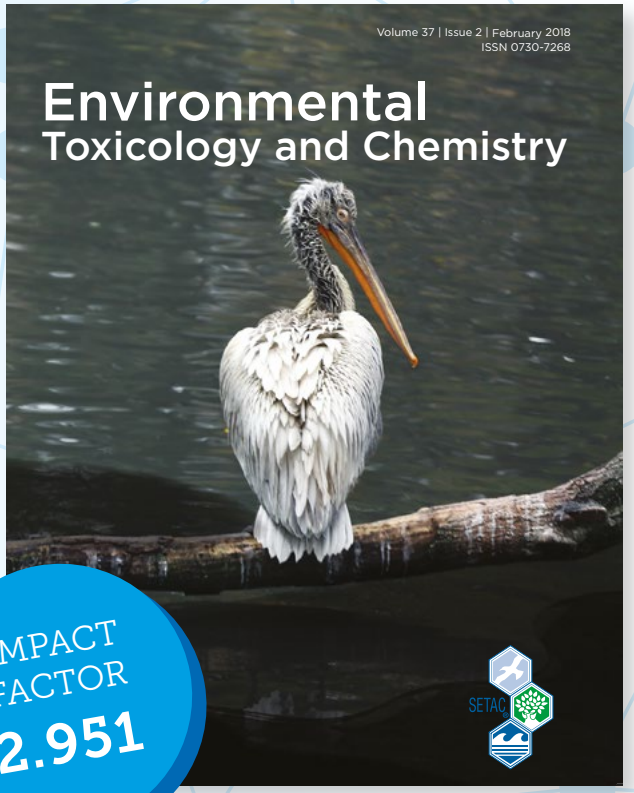

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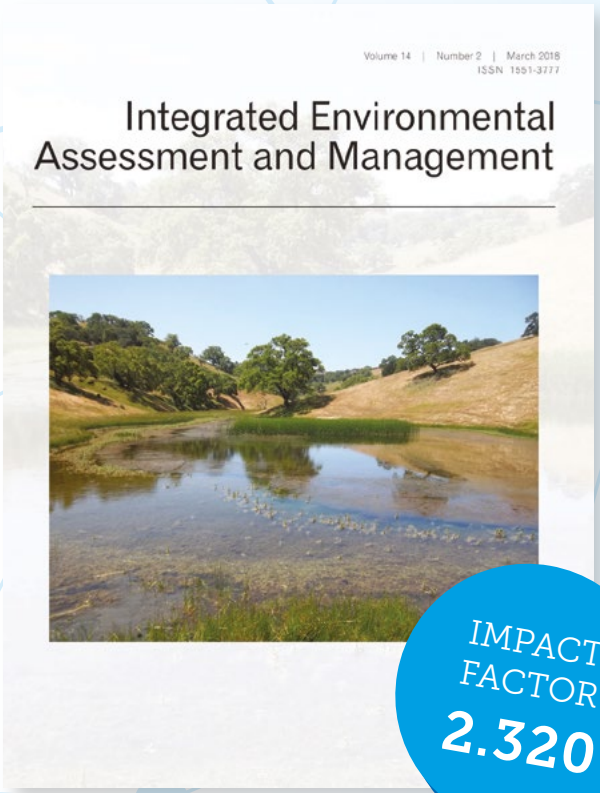

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THURSDAY 17 MAY

Daily Schedule		Location
7:30 a.m.–2:00 p.m.	Registration Open	Registration Desk
7:30 a.m.–8:30 a.m.	Poster Setup	Exhibition Hall
8:30 a.m.–10:05 p.m.	Platform Session *Morning 1*	
10:05 a.m.–10:50 a.m.	Coffee Break & Poster Viewing	Exhibition Hall
10:50 a.m.–12:25 p.m.	Platform Session *Morning 2*	
12:25 p.m.–3:00 p.m.	Farewell Reception and Poster Viewing Young Scientist Awards (Best Poster and Best Platform) Presentation	Exhibition Hall
3:00 p.m.	End of Conference	

Satellite Meetings		Location
11:00 a.m.–12:00 p.m.	Indigenous Knowledge and Values Interest Group	Meeting Room 7
11:00 a.m.–12:00 p.m.	SETAC Europe Annual Meeting 2019 Local Organising Committee	Meeting Room 10
12:30 p.m.–2:45 p.m.	LCIA TF4 workshop	Meeting Room 10
12:30 p.m.–2:45 p.m.	LCIA TF2.2 workshop	Meeting Room 6
1:00 p.m.–5:00 p.m.	Wildlife Toxicology Interest Group Workshop	Meeting Room 2
2:00 p.m.–3:30 p.m.	ECETOC/CEFIC LRI ECO 41 – Progress Review Meeting	Meeting Room 1
3:00 p.m.–5:00 p.m.	LCIA Crosscutting Issues Session	Meeting Room 7

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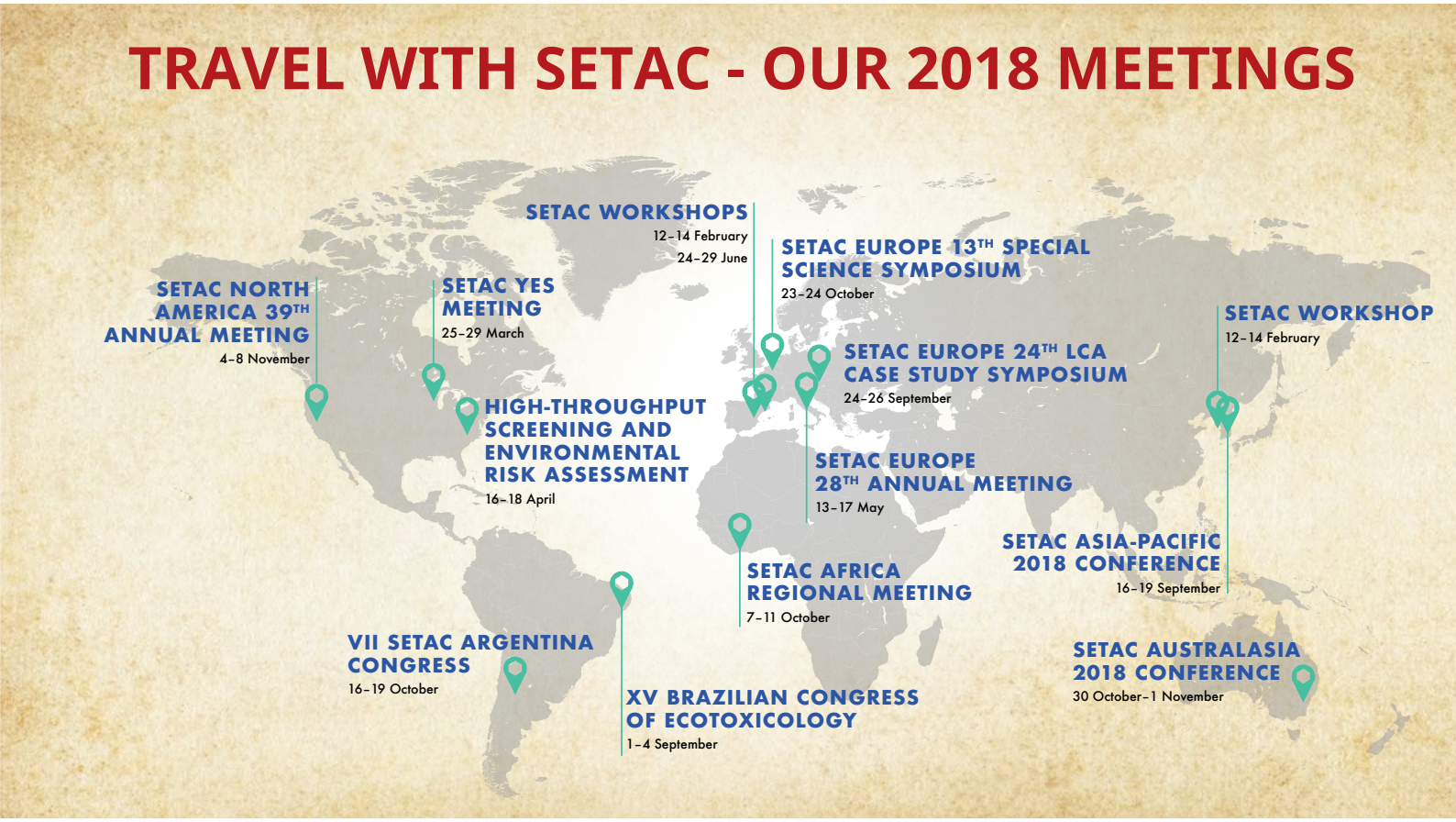

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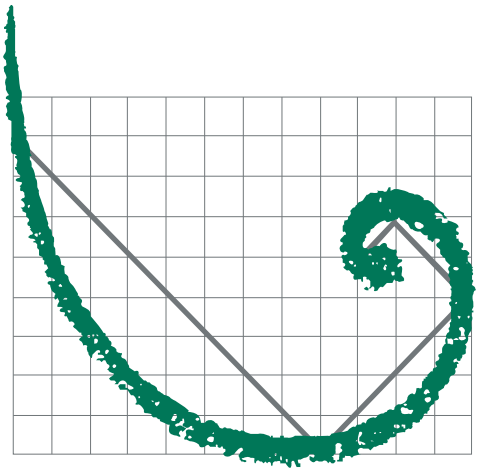

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PROGRAMME HIGHLIGHTS

Special Session

Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality

Thursday, 17 May | 8:30 a.m.–10:05 a.m. | Session Room Q

Jan Koschorreck
UBA, Germany

Sara Danielsson
The Swedish Museum of Natural History, Sweden

Environmental specimen banks (ESBs) systematically store high quality samples from the environment and human populations in support of chemicals management and innovative research for a better environmental quality. ESBs are operated by environment agencies as part of the national long-term environmental research infrastructure or by environmental research institutes. There is a large potential to make better use of ESB samples in research and chemicals regulation.

ESB sampling is already ongoing for up to 50 years at regular intervals in the freshwater, marine and/or the terrestrial compartment. Some ESBs also sample human populations. ESB operations are guided by strict protocols for sampling, processing and archiving. The samples are stored at low or ultra-low temperatures in the archives which provides for their long-term biological and chemical integrity.

There are around 30 ESBs in the world, of which around 20 are located in Europe. The specimens are used to monitor the quality of the environment and the efficacy of regulatory efforts to control known hazardous substances like metals, PAHs, PBDEs, dioxins and other organochlorines. However, the main objective of ESBs is retrospective analysis of chemicals of emerging concern (CECs): ESB samples allow for spatio-temporal analysis of substances which were unknown, not known to be hazardous or not analytically detectable at the time of sampling. Recent examples are new PFAS, new flame retardants, chlorinated paraffins, nanomaterials and pharmaceuticals.

The systematic use of high quality ESB data and samples has the potential to significantly increase our understanding of the fate of regulated and non-regulated contaminants in the environment. ESB data are already being used to some extent to identify persistent organic pollutants (POPs) under the Stockholm Convention and potential persistent and bioaccumulative compounds in REACH legislation. However, consistent and interdisciplinary approaches that make better use of high quality ESB samples can overcome the reluctant use of monitoring data in chemicals risk assessment.

The application of cutting edge analytical methods to ESB samples is a win-win situation for the value of ESB samples and our understanding of the quality of the environment. For example, Non-Target Screening is a promising tool that will add significant data on the temporal occurrence of chemicals in ecosystems. Some archived samples are now also used for barcoding and meta-barcoding approaches of environmental eDNA revealing temporal changes in biodiversity and offering interdisciplinary links to this research area. Furthermore, banked environmental and human samples can be incentives for interdisciplinary and integrated exposure assessments.

This ESB session has the aim to discuss interdisciplinary applications for ESB samples and to initiate collaborations with environmental scientists and regulators in the field of long-term environmental quality monitoring.

Programme

08:30 a.m.	Introduction
08:35 a.m.	Monitoring of POPs in the Swedish aquatic ecosystem and in human milk | **Elisabeth Nyberg**, *The Swedish Museum of Natural History, Sweden*
08:50 a.m.	Jumping out of the frying pan and into the fire? Spatial and temporal trends for PBDE, Dechlorane Plus and alternative flame retardants in samples of the German environmental specimen bank | **Annekatrin Dreyer**, *Eurofins GfA GmbH, Germany*
09:05 a.m.	New Uses of Archived Specimens from the U.S.A. NIST Marine Environmental Specimen Bank | **Rebecca Pugh**, *National Institute of Standards and Technology, USA*
09:20 a.m.	Monitoring of the indoor environment of ESB laboratories with selected target and non-target screening methods | **Pernilla Bohlin Nizzetto**, *Norwegian Institute for Air Research, Norway*
09:35 a.m.	DNA banking and its relevance for biodiversity research | **Jonas Astrin**, *Zoological Research Museum Alexander Koenig, Germany*
09:50 a.m.	Discussion on environmental specimen banking in research and regulation
10:05 a.m.	End

	8:35 a.m.	8:50 a.m.	9:05 a.m.
Session Room A	**Hazard and Exposure Assessment of Chemical Mixtures: Steps Towards Increasing the Realism of Chemical Risk...**		
	550 | Development of a diagnostic toolbox for ecological effects of pollutant mixtures and application to evaluate results from the third Joint Danube survey | **Andreas Focks**, *Alterra Wageningen University and Research Centre, Netherlands*	551 | How can we identify "drivers of mixture risks"? | **Thomas Backhaus**, *University of Gothenburg, Sweden*	552 | Application of new statistical distribution approaches for mixture risk assessment | **Aude Emma Kienzler**, *JRC-EC, Italy*
Session Room B	**Advances in Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems (I) | Mark Maboeta, Bjorn Scholz-Starke,...**		
	556 | Time-dependent effects of two fungicides and their mixture on enchytraeid and earthworm communities under field conditions | **Pauline Thiel**, *INRA, France*	557 | Toxicity of imidacloprid and thiacloprid towards four Collembolan species | **Claudia Lima**, *Vrije Universiteit Amsterdam, Netherlands*	558 | Dirty dancing: Measuring mite movement responses to pesticide residues | **Joanna Witton**, *Environment Dept, University of York, UK*
Session Room C	**Challenges, Methodological Developments and Practical Solutions for Social Life Cycle Assessment in Industry and Policy |...**		
	562 | Developments and recommendations on the practical use of Social LCA | **Silvia Di Cesare**, *CIRAD, Italy*	563 | TBD	564 | Social significance analysis of products – considering negative and positive social impacts along the supply chain of leather products | **Sabrina Neugebauer**, *RWTH Aachen University, Germany*
Session Room D	**Developments in the Use of Bioassays for Chemical and Environmental Risk Assessment (I) | Ron van der Oost,...**		
	568 | Application of Equilibrium and Toxicokinetic Models to Understand the Behaviour of Organic Chemicals in In Vitro Toxicity Tests | **James Armitage**, *University of Toronto – Scarborough, Canada*	569 | Experimental exposure assessment in in vitro bioassays for organic acids | **Luise Henneberger**, *Helmholtz centre for environmental research – UFZ, Germany*	570 | A versatile and low-cost open source pipetting robot for automation of toxicological and ecotoxicological bioassays | **Leonie Nuesser**, *RWTH Aachen University, Institute for Environmental Research, Germany*
Session Room E	**From Detection to Action: Advancements in Assessing and Managing Highly Fluorinated Compounds | Xindi Hu,...**		
	574 | Toward the Comprehensive Profiling of Zwitterionic, Cationic, and Anionic Perfluoroalkyl and Polyfluoroalkyl Substances in Firefighting Foam Impacted Soils | **Gabriel Munoz**, *Université de Montreal, Canada*	575 | Investigation of perfluoroalkyl and polyfluoroalkyl substances in products used for building industry as well as industrial textiles and their possible contribution to water contamination | **Raphael Janousek**, *Hochschule Fresenius, University of Applied Sciences, Germany*	576 | The growing role of seafood consumption for exposures to legacy PFASs Evident in Longitudinal Birth Cohorts from the Faroe Islands | **Clifton Dassuncao**, *Harvard University, USA*
Session Room M	**Improvements in Environmental Exposure Assessment: Development and Application of Tools Across Industry Sectors,...**		
	580 | Environmental fate and exposure models: Advances and challenges in 21st century chemical risk assessment | **Martin Scheringer**, *ETH Zurich, Switzerland*	581 | Development and update of environmental exposure assessment tool EUSES for REACH and BPR Regulations | **Stefano Frattini**, *ECHA-European Chemicals Agency, Finland*	582 | Advances in exposure assessment of fertilizers: Development of a fertilizers environmental exposure tool and generic exposure scenarios under REACH | **Leondina Della Pietra**, *Fertilizers Europe, Belgium*
Session Room N	**Risk Assessment of Nanomaterials: Innovative Approaches and Application of Recent Research Developments to Regulatory...**		
	586 | Regulatory tools and activities for environmental risk assessment of nanomaterials in ECHA | **Anu Kapanen**, *European Chemicals Agency – ECHA, Finland*	587 | Building a Risk Assessment Framework for Nanomaterials in Canada | **Marie-Claude Sauve**, *Environment Canada, Canada*	588 | Inventory of available tools, methods, approaches and best practices on nanomaterials/nanoechnologies | **Simona Scalbi**, *ENEA, Italy*
Session Room O	**Natural Toxins and Harmful Algal Blooms (HABs): Water and Food Safety, Analysis, Toxicity, and Risks (I) |...**		
	592 | Occurrence of cyanotoxins in Greek lakes | **Anastasia Hiskia**, *National Center for Scientific Research, Greece*	593 | Interactions between cyanobacteria and daphnia | **Claudia Wiegand**, *Université de Rennes 1, France*	594 | Teratogenic retinoid-like compounds produced by cyanobacteria into surface waters | **Klara Hilscherova**, *Masaryk University, Faculty of Science, RECETOX, Czech Republic*
Session Room P	**Advancing the Adverse Outcome Pathway Framework – An International Horizon Scanning Approach | Carlie LaLone, Markus Hecker**		
	598 | Setting the Stage to Advance the Adverse Outcome Pathway Framework through Horizon Scanning | **Carlie LaLone**, *U.S. EPA, USA*	599 | Adverse Outcome Pathway networks: Development, analytics and applications | **Dries Knapen**, *University of Antwerp, Belgium*	600 | Building and Applying Quantitative Adverse Outcome Pathway Models for Chemical Hazard and Risk Assessment | **Stefan Scholz**, *Helmholtz Centre for Environmental Research, Germany*
★ Session Room Q	**Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality | Jan Koschorreck, Sara Danielsson**		
	604 | Monitoring of POPs in the Swedish aquatic ecosystem and in human milk | **Elisabeth Nyberg**, *Swedish Museum of Natural History, Sweden*	605 | Jumping out of the frying pan and into the fire? Spatial and temporal trends for PBDE, Dechlorane Plus and alternative flame retardants in samples of the German environmental specimen bank | **Annekatrin Dreyer**, *Eurofins GfA GmbH, Germany*	606 | New Uses of Archived Specimens from the U.S.A. NIST Marine Environmental Specimen Bank | **Rebecca Pugh**, *National Institute of Standards and Technology, USA*

	9:20 a.m.	9:35 a.m.	9:50 a.m.	
Session Room A	**...Assessment (I) | Thomas Backhaus, Todd Gouin, Daniel Salvito, Rolf Altenburger**			COFFEE BREAK
	553 | Towards the development of a framework for applying non-target chemical analysis data within exposure and risk assessment | **Todd Gouin**, *TG Environmental Research, UK*	554 | A common framework for the assessment of human and ecological risks from pollutant mixtures in European surface waters – case study with > 300 chemicals co-occurring in the Danube | **Andreas Kortenkamp**, *Brunel University London, UK*	555 | Pesticides do rarely come alone, except in risk assessment – Risk indices of ranked spray series of the project COMBITOX | **Bjorn Scholz-Starke**, *RWTH Aachen University, Institute for Environmental Research, Germany*	
Session Room B	**...Heidi Cunningham, Silvia Pieper**			
	559 | Should oral exposure in Hypoaspis aculeifer tests be considered in order to keep them in Tier I test battery for ecological risk assessment of PPPs? | **Tiago Natal-da-Luz**, *CFE – Centre for Functional Ecology, Portugal*	560 | Plant protection products in agricultural soils – Do active ingredients show a comparable pattern in worms and in soil? | **Thomas Schmidt**, *IES Ltd, Switzerland*	561 | PBT assessment of substances – Proposal of a trigger value for bioaccumulation in terrestrial oligochaetes | **Markus Simon**, *Fraunhofer IME, Germany*	
Session Room C	**...Andreas Ciroth, Andrea Porcari**			
	565 | Integration of sustainability in industrial research and innovation: Perspectives from ArcelorMittal's experience | **Anne-laure Hettinger**, *ArcelorMittal, France*	566 | Social footprint of a packaging waste deposit-refund system in Spain | **Ivan Muñoz**, *2.-0 LCA consultants, Denmark*	567 | Poster spotlight: TH226, TH227, TH228	
Session Room D	**...Jonny Beyer, Michelle Embry**			COFFEE BREAK
	571 | An intestinal fish cell barrier model to assess absorption of poorly soluble organic chemicals in vitro | **Hannah Schug**, *Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland*	572 | A new paradigm in water sampling – how can we challenge the needs of effect-based monitoring? | **Tobias Schulze**, *Helmholtz centre for environmental research – UFZ, Germany*	573 | Prioritization of non-target screening suspects based on semi-quantitative concentrations and ToxCast in vitro toxicity data | **Milou Dingemans**, *KWR Watercycle Research Institute, Netherlands*	
Session Room E	**...Rainer Lohmann, Jon Benskin**			
	577 | Membrane-water partition coefficients to aid PFAS risk assessment | **Steven Droge**, *University of Amsterdam/IBED Institute, Netherlands*	578 | Impacts of ocean circulation on the marine PFOS burden in an era of geographically shifting emissions | **Charlotte Wagner**, *Harvard University, USA*	579 | PFAS pollution at airport sites: Point and diffuse sources, fate and transport and remediation | **Gijs Breedveld**, *Norwegian Geotechnical Institute, Norway*	
Session Room M	**...Regulatory Agencies, and International Boundaries (I) | Laura McConnell, Romanas Cesnaitis, Todd Gouin, Rai Kookana**			
	583 | Bioaccessibility of grease thickeners and the implications for REACH registration | **Rebecca Brown**, *wca consulting, UK*	584 | The durability criteria: a pragmatic and sound approach to the exposure assessment of nano-enabled agrochemicals | **Rai Kookana**, *CSIRO, Australia*	585 | Can we model emissions, fate and exposure on a global scale? A case study of PCB 153 in human milk | **Fangyuan Zhao**, *Stockholm University, Sweden*	
Session Room N	**...Science | Laurence Deydier Stephan, Sonia Manzo, Simona Scalbi, Doris Volker**			COFFEE BREAK
	589 | The Application of Ecotoxicological Tools to Safer-by-Design Strategies for Engineered Nanomaterials | **Andrew Barrick**, *Association Saint Yves / UCO, France*	590 | Minimising the risk posed by TiO_2 nanomaterials used in sunscreen throughout the entire product lifecycle | **Jerome Labille**, *CNRS, France*	591 | Environmental risk assessment of engineered nano-SiO_2, nano iron oxides, nano-CeO_2, nano-Al_2O_3, and quantum dots | **Bernd Nowack**, *EMPA, Switzerland*	
Session Room O	**...Gemma Giménez Papiol, Hans Christian B. Hansen, Helena Cristina Silva de Assis, Thomas Bucheli**			
	595 | (Co-)Production Dynamics of Cyanobacterial Peptides | **Regiane Sanches Natumi**, *Eawag Swiss federal Institute of Aquatic Science and Technology, Switzerland*	596 | Development of methods for Measuring Total Microcystins in Fish Tissue using the 2-methoxy-3-methyl-4-phenylbutyric acid (MMPB) procedure | **James Lazorchak**, *U.S. EPA, USA*	597 | Saponins in the aquatic environment: Hydrolysis and toxicity | **Nina Cedergreen**, *University of Copenhagen, Denmark*	
Session Room P	**Advancing the Adverse Outcome Pathway Framework – An International Horizon Scanning Approach | Carlie LaLone, Markus Hecker**			
	601 | Use of Adverse Outcome Pathways to Inform Decisions on Chemical Innovation, Regulation & Stewardship | **Thomas Hill**, *US EPA NHEERL/ISTD/CB, USA*	602 | Ensuring Long-Term Utility of the AOP Framework and Knowledge for Multiple Stakeholders | **Gerald Ankley**, *U.S. EPA, USA*	603 | Adverse Outcome Pathways: Moving from a scientific concept to a globally accepted framework | **Markus Hecker**, *University of Saskatchewan, Canada*	
★ Session Room Q	**Environmental Specimen Banks in Research and Regulation for a Better Environmental Quality | Jan Koschorreck, Sara Danielsson**			
	607 | Monitoring of the indoor environment of ESB laboratories with selected target and non-target screening methods | **Pernilla Bohlin Nizzetto**, *Norwegian Institute for Air Research, Norway*	608 | DNA banking and its relevance for biodiversity research | **Jonas Astrin**, *Zoological Research Museum Alexander Koenig, Germany*	609 | Discussion on environmental specimen banking in research and regulation	

	10:55 a.m.	11:10 a.m.	11:25 a.m.
Session Room A	**Hazard and Exposure Assessment of Chemical Mixtures: Steps Towards Increasing the Realism of Chemical Risk...**		
	610 | Poster spotlight: TH273, TH288, TH285	611 | Environmental risk assessment of multiple stressors – chemicals and ionizing radiation | **Karina Petersen**, *NIVA – Norwegian Institute for Water Research, Norway*	612 | Assessing health risk associated with micro-pollutant mixtures in drinking water: an innovative combination of in vivo and in vitro assays and analytical screenings | **Yves Levi**, *Univ. Paris Sud, France*
Session Room B	**Advances in Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems (II) | Mark Maboeta, Bjorn Scholz-Starke,...**		
	616 | How protective is the current risk assessment for soil invertebrates? | **Pia Kotschik**, *Umweltbundesamt / Federal Agency of Environment, Germany*	617 | Risk assessment of soil organisms in field: Dealing with earthworm community | **Yannick Bayona**, *ANSES, France*	618 | Metal soil threshold calculator tool: use of available data for derivation of metal soil quality standards for different scenarios and protection goals | **Koen Oorts**, *ARCHE, Belgium*
Session Room C	**Emerging Technologies and Related Raw Materials Requirements Scenarios: The Role of Life Cycle Thinking | Laura Cutaia,...**		
	622 | Wood-fibres composite in substitution of a synthetic material to enhance sustainability purposes for automotive sector | **Silvia Maltese**, *Magneti Marelli SpA, Italy*	623 | Resource depletion of a Lithium ion battery cell technology | **Maria Anna Cusenza**, *Università degli Studi di Palermo, Italy*	624 | Analysing the environmental impacts of alternative solutions for passenger transportation: LCA of a charging station for e-bicycles | **Giovanni Mondello**, *University of Roma Tre, Italy*
Session Room D	**Developments in the Use of Bioassays for Chemical and Environmental Risk Assessment (II) | Ron van der Oost, Jonny Beyer,...**		
	628 | SIMONI: Smart integrated monitoring of the water quality | **Ron van der Oost**, *Waternet, Netherlands*	629 | Bioassay battery responses to POCIS and Speedisk passive sampler extracts | **Milo de Baat**, *University of Amsterdam, Netherlands*	630 | Endocrine modulation and toxic effects of sunscreen chemicals, Octocrylene and Benzophenone, on zebrafish | **Qi Meng**, *The Chinese University of Hong Kong, Hong Kong*
Session Room E	**Indigeneity and Science: A Collaborative Work in Progress | Tracey Godfery, Bradley Moggridge, Ross Smith**		
	634 | The Nechako White Sturgeon Recovery Initiative: A discussion of species at risk conservation, scientific outreach, community and First Nations support | **Taylor Lane**, *University of Saskatchewan, Canada*	635 | The NSERC CREATE H_2O Program on First Nations Water and Sanitation Security: Case Studies on Drinking Water Quality | **Annemieke Farenhorst**, *University of Manitoba, Canada*	636 | Rare earth elements (REEs) in the Canadian Subarctic: Scientific perspectives and community engagement with environmental monitoring in Nunavik, Northern Quebec | **Gwyneth MacMillan**, *Centre détudes nordiques, Université de Montréal, Canada*
Session Room M	**Improvements in Environmental Exposure Assessment: Development and Application of Tools Across Industry Sectors,...**		
	640 | Tap water intake of poly – and perfluoroalkyl substances (PFASs) in relation to serum concentrations in a nationwide prospective cohort of U.S. women | **Xindi Hu**, *Harvard University, USA*	641 | Consideration of the bioavailability of metals and metal compounds in freshwaters in regulatory frameworks | **Heinz Ruedel**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*	642 | Age-Based and Time Trends of Exposure Chemical Biomarkers in the US Population 1999–2014 | **Vy Nguyen**, *University of Michigan, USA*
Session Room N	**Ecotoxicology of Micro and Nanoplastics: Mechanistic Approaches to Understand Their Risk for the Environment and...**		
	646 | Wastewater-based microplastics: Presence in wastewater effluent and effects on freshwater organisms | **Shima Ziajahromi**, *Griffith University – Smart Water Research Centre, Australia*	647 | What is in our plastic? In vitro toxicity of extracts from plastic products | **Lisa Zimmermann**, *Goethe University Frankfurt am Main, Germany*	648 | Microplastic size-dependent toxicity, oxidative stress induction, and multixenobiotic resistance (MXR) inhibition in the monogonont rotifer (*Brachionus koreanus*) | **Chang Bum Jeong**, *Hanyang Univ., South Korea*
Session Room O	**Natural Toxins and Harmful Algal Blooms (HABs): Water and Food Safety, Analysis, Toxicity, and Risks (II) |...**		
	652 | Dissipation of the carcinogen ptaquiloside in water resources | **Lars Holm Rasmussen**, *Metropolitan University College, Denmark*	653 | On-line detection of algal toxins in sea water | **Sergio Bodini**, *SYSTEA, Italy*	654 | A decade of chemical studies on Ostreopsis. What's left? | **Carmela Dell'Aversano**, *University of Napoli Federico II, Department of Pharmacy, Italy*
Session Room P	**Advances in Evaluating and Regulating Endocrine Disruptors | Heiko Schoenfuss, Gerd Maack, Francesca Pellizzato, Lennart Weltje**		
	658 | Hazard identification of endocrine disrupting properties of pesticides on non-target organisms: state of the art and future perspectives | **Stefania Barmaz**, *EFSA – European Food Safety Authority, Italy*	659 | Contaminants of emerging concern in the North American Great Lakes: Evidence of reproductive disruption from field and laboratory studies | **Heiko Schoenfuss**, *St. Cloud State University, USA*	660 | AOP-informed assessment of Endocrine Disruption in freshwater crustaceans | **Knut Erik Tollefsen**, *NIVA, Norway*
Session Room Q	**BiER is Good For You: How Biotransformation and Elimination Rate Information Can Improve Chemical Assessments |...**		
	664 | A Tiered Approach for Screening Chemicals for Biomagnification Potential in Humans | **Alessandro Sangion**, *University of Insubria, Italy*	665 | Critical Evaluation of a Human In Vitro Biotransformation Rate Database: Case Study of Seven Chemicals | **Karen Foster**, *ARC Arnot Research and Consulting Inc., Canada*	666 | Sediment-associated cyclic volatile methylsiloxanes: Biotransformation in a freshwater oligochaete and an estuarine polychaete | **Henriette Selck**, *Roskilde University, Denmark*

	11:40 a.m.	11:55 a.m.	12:10 p.m.	
Session Room A	**...Assessment (II) | Thomas Backhaus, Todd Gouin, Daniel Salvito, Rolf Altenburger**			
	613 | The application of DGT to assess the risk of metal mixtures in polar environments | **Darren Koppel**, *University of Wollongong, Australia*	614 | Ecotoxicity testing of environmentally realistic contaminant mixtures using passive samplers: What can we learn from repeating toxicity tests over an extended period of time? | **Samuel Moeris**, *Ghent University (UGent), Belgium*	615 | Marine Diatom Exposure to a Complex Mixtures of Fourteen Chemical Pollutants at Environmental Concentrations. What did we learn? | **Teresa Lettieri**, *European. Commission – Joint Research Centre, Italy*	COFFEE BREAK
Session Room B	**...Heidi Cunningham, Silvia Pieper**			
	619 | Assessment of pesticides on a landscape level – What is basically needed? | **Andreas Toschki**, *Research Institute gaiac, Germany*	620 | Potential new soil test requirements for the risk assessment of pesticides in the European Union: Do we have the right methods? | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*	621 | Poster spotlight: TH154, TH155, TH156	
Session Room C	**...Grazia Barberio, Serena Righi, Alessandra Bonoli**			
	625 | Raw materials requirements scenarios for the electric mobility penetration in the Italian urban vehicle fleet: A life cycle thinking approach combined with raw materials assessment | **Cristian Chiavetta**, *ENEA, Italy*	626 | Coupling dynamic carbon accounting and partial-equilibrium economic model for energy policy assessment | **Ariane Albers**, *IFPEN, France*	627 | Poster spotlight: TH304, TH309, TH314	
Session Room D	**...Michelle Embry**			
	631 | Current status of in vitro bioassay approach in environmental risk assessment of abiotic environmental mixtures and individual organic contaminants | **Miroslav Machala**, *Veterinary Research Institute, Czech Republic*	632 | Hormone-like activities in waste water characterized by CALUX bioassays, chemical analysis and Effect-directed Analysis | **Corine Houtman**, *The Water Laboratory, Netherlands*	633 | Non-target screening and identification of emerging pharmaceuticals and their transformation products in wastewaters | **Caroline Parège**, *Université de Bordeaux, France*	COFFEE BREAK
Session Room E	**Indigeneity and Science: A Collaborative Work in Progress | Tracey Godfery, Bradley Moggridge, Ross Smith**			
	637 | Te Ohu Mō Papatūānuku: A Collective Response to Healing | **Tracey Godfery**, *Te Whare Wananga O Awanuiarangi, New Zealand*	638 | Discussing the Unfamiliar but Contentious: Hydraulic Fracturing Consultation with Remote, Indigenous Communities in the Northern Territory, Australia | **Ross Smith**, *Hydrobiology Pty Ltd, Australia*	639 | Incorporating cultural values and perspectives of First Peoples' (Aboriginal People) into water planning, science and environmental water management | **Bradley Moggridge**, *Institute for Applied Ecology, University of Canberra, Australia*	
Session Room M	**...Regulatory Agencies, and International Boundaries (II) | Laura McConnell, Romanas Cesnaitis, Todd Gouin, Rai Kookana**			
	643 | Biomarkers for the assessment of water quality in tropical estuarine environments in northeast Brazil | **Marianna Jorge**, *Universidade Federal Maranhão – UFMA, Brazil*	644 | Monitoring of priority substances in German freshwater fish of different age, size and trophic level | **Georg Radermacher**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*	645 | Using Paleoecotoxicolgy to Assess the Toxicity of Lake Sediments Impacted by Legacy Gold Mining in Yellowknife, NT, Canada | **Cynthia Cheney**, *University of Ottawa, Canada*	
Session Room N	**...Human Health | Francisca Fernandez-Piñas, Roberto Rosal, Miguel Pleiter**			
	649 | Sorption of model pollutants on microplastics and toxicity assessment using early life stage of zebrafish (*Danio rerio*) | **Bettie Cormier**, *EPOC University of Bordeaux, France*	650 | Comparative role of microalgae and microplastics in the effects of chlorpyrifos on molecular biomarkers in marine mussels | **Leticia Vidal-linan**, *Universidad de Vigo, Spain*	651 | Poster spotlight: TH001, TH002, TH003	
Session Room O	**...Gemma Giménez Papiol, Hans Christian B. Hansen, Helena Cristina Silva de Assis, Thomas Bucheli**			
	655 | Untangling the geosmin appearance in a Mediterranean river: Relationship of geosmin concentration and physicochemical parameters over a year | **Carmen Espinosa**, *Universitat de Vic – Universitat Central de Catalunya, Spain*	656 | Italian guidelines to assess and manage the risk associated to cyanobacteria blooms in water during bathing and recreational activities | **Maura Manganelli**, *Istituto Superiore di Sanità , Italy*	657 | Identification and prioritization of emerging risks for food safety: Climate change as a driver | **Angelo Maggiore**, *European Food Safety Authority (EFSA), Italy*	
Session Room P	**Advances in Evaluating and Regulating Endocrine Disruptors | Heiko Schoenfuss, Gerd Maack, Francesca Pellizzato, Lennart Weltje**			
	661 | Assessing impacts of place-based mixtures of emerging contaminants on endocrine activity and adverse outcome pathways: Comparisons of different life stages | **Rebecca Klaper**, *University of Wisconsin-Milwaukee, USA*	662 | Interference of hepatotoxicity with endocrine activity in zebrafish (*Danio rerio*) | **Lisa Baumann**, *University of Heidelberg, Germany*	663 | Single Pulse Exposure of Different Life Stages of Zebrafish to the Selective Estrogen Receptor Modulator Tamoxifen Citrate | **Sven Kroesen**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*	
Session Room Q	**...Michelle Embry, Jon Arnot, Ester Papa**			
	667 | Toxicokinetics and biotransformation products of diuron and 3,4-DCA in the developing zebrafish embryo (*Danio rerio*) | **Emil Jarosz**, *UFZ Leipzig, Germany*	668 | Application of a generic fish PBTK model for binary mixtures of chemicals | **Cleo Tebby**, *INERIS, France*	669 | Application of Aqueous and Dietary In-Vivo Bioaccumulation Tests to Determine Biotransformation Rates, Elimination Rates and other Bioaccumulation Metrics | **Frank Gobas**, *Simon Fraser University, Canada*	

TH | Thursday Poster Presentations

Poster Sessions

Setup	7:30 a.m.–08:30 a.m.
Poster Viewing	10:05 a.m.–10:50 a.m.
Poster Viewing	12:25 p.m.–3:00 p.m.
Take Down	2:45 p.m.–3:15 p.m.

Ecotoxicology of micro and nanoplastics: Mechanistic approaches to understand their risk for the environment and human health (P) | Francisca Fernandez-Piñas, Roberto Rosal, Miguel Pleiter

TH001 | Synthetic textile fibers end up in agricultural soils – Can these microplastics pose a threat on soil organisms? | **Salla Selonen**, *University of Helsinki, Netherlands*

TH002 | Effects of microplastic particles of polyhydroxybutyrate towards photosynthetic aquatic organisms | **Miguel Pleiter**, *Universidad Autónoma de Madrid, Spain*

TH003 | Differential responses of biomarkers in tissues of the blue mussel Mytilus edulis exposed to microplastics at environmentally relevant concentrations | **Catherine Mouneyrac**, *Université Catholique de lOuest, France*

TH004 | Effects of zebrafish exposure to high-density polyethylene and polystyrene microplastics at molecular and histological levels | **Giacomo Limonta**, *University of Siena, Italy*

TH005 | Uptake and Effects of Synthetic and Natural Microparticles in the Shrimp Palaemon varians | **Mara Weidung**, *University DuisburgEssen, Germany*

TH006 | Microplastics in the sub-surface layers of the South Atlantic Ocean | **Veronica van der Schyff**, *North-West University, South Africa*

TH007 | Effects of dietary microplastic exposure on fish intestinal physiology | **Giedre Asmonaite**, *University of Gothenburg, Sweden*

TH008 | Biochemical responses and histological effects resulting from foodborne exposure to post-consumer microplastics in juvenile Solea senegalensis | **Marta Martins**, *Faculty of Sciences andTechnology, Universidade Nova de Lisboa, Portugal*

TH009 | Nanoplastic impacts on physical, biochemical, and nutritional characteristics of pacific whiteleg shrimp | **Yooeun Chae**, *Konkuk University, South Korea*

TH010 | Brood Pouch-mediated Polystyrene Nanoparticle Accumulation During Daphnia magna Embryogenesis | **Martina Vijver**, *CML Leiden University, Netherlands*

TH011 | Micro – and nanoplastic ingestion in blue mussel larvae | **Sinja Rist**, *DTU (Technical University of Denmark), Denmark*

TH012 | The sub-lethal impact of polystyrene microplastics and nanoplastics on the Mediterranean mussel M. galloprovincialis | **Elena Fabbri**, *University of Bologna, Italy*

TH013 | Effect of cationic amino (PS-NH_2) polystyrene nanoparticles in brine shrimp Artemia franciscana nauplii: Biochemical and molecular responses | **Ilaria Corsi**, *University of Siena, Italy*

TH014 | The impact of nanoplastics on Antarctic krill Euphausia superba | **Elisa Bergami**, *University of Siena, Italy*

TH015 | Exposure to nanoplastics as a potential stressor on Mytilus galloprovincialis | **Miguel Oliveira**, *University of Aveiro, Portugal*

TH016 | The role of microplastic size and type on PAH sorption and bioavailability to copepods | **Andy Booth**, *SINTEF Ocean, Norway*

TH017 | Limited influence of microplastics on the effects of an endocrine disruptor on the African clawed frog (Xenopus laevis) | **Christiane Zarfl**, *University of Tuebingen, Germany*

TH018 | Kinetics of POPs sorption and plastic additives release to a variety of polymers under Arctic conditions | **Dorte Herzke**, *NILU – Norwegian Institute for Air Research, Norway*

TH019 | Characterization of microplastics present in personal care products and the study of its toxicity mixed with chlorpyrifos on juveniles of Solea senegalensis | **Gemma Albendín**, *Universidad de Cádiz, Spain*

TH020 | Are microplastics inhibitory to Daphnia magna and are they significant vectors for hydrophobic organic pollutants? | **Peter Roslev**, *Aalborg University, Denmark*

TH021 | Microplastics as vector for hydrophobic organic chemicals in fish: A comparison of two polymers and silica particles, using three different model compounds | **Malin Tivefälth**, *University of Gothenburg, Sweden*

TH022 | Dietary exposure to polystyrene microplastics contaminated with environmental pollutants induce hepatic biomarker responses in fish | **Giedre Asmonaite**, *University of Gothenburg, Sweden*

TH023 | Effects of Nanopolystyrene and the Co-Contaminant Tributyltin on the Nematode Community Structure in Sandy Sediments | **Ana I Catarino**, *Heriot-Watt University, UK*

TH024 | Nanopolystyrene Induces a Decrease in the Oxygen Uptake of Zebrafish Larvae and Enables Sorbed Benzo(a)Pyrene Bioavailability | **Ana I Catarino**, *Heriot-Watt University, UK*

TH025 | Impacts of exposure to microplastics alone and with adsorbed benzo(a)pyrene on biomarkers and scope for growth in marine mussels M. galloprovincialis | **Miren Cajaraville**, *University of the Basque Country, Spain*

TH026 | Characterization of the adsorption/desorption of benzo(a)pyrene to/from polystyrene micro – and nanoplastics for further toxicity assessment | **Ignacio Martinez**, *University of Basque Country, Spain*

TH027 | Occurrence of microplastics in epibenthic and sediment-dwelling species in a Norwegian fjord | **Agathe Bour**, *ECOLAB UMR5245 CNRS UPS INPT, Norway*

TH028 | Development of an optimal analytical protocol for the extraction of persistent organic pollutants adsorbed on plastic debris in the environment | **Albert van Oyen**, *Plastic Partner GmbH, Germany*

TH029 | Comparison of spiking and dialysis tubing methods for the determination of sorption capacity and plastic-water partition coefficient of three different polycyclic hydrocarbons on microplastics | **Albert van Oyen**, *Plastic Partner GmbH, Germany*

TH030 | Microplastics in food and beverages – a distorted perspective on risk | **Sinja Rist**, *DTU (Technical University of Denmark), Denmark*

TH031 | Is the Arctic threatened by plastics? Identifying sources and determining the distribution of microplastics around Svalbard | **Lisa Winberg von Friesen**, *University of Gothenburg, Sweden,*

TH032 | Microplastics – an ecotoxicological issue? How to balance facts and perception without marginalizing an environmental problem | **Carolin Völker**, *ISOE – Institute for Social-Ecological Research, Germany*

BiER is good for you: How biotransformation and elimination rate information can improve chemical assessments (P) | Michelle Embry, Jon Arnot, Ester Papa

TH033 | Assessing biotransformation and bioconcentration factors (BCF) of fragrance materials using in vitro approaches utilizing rainbow trout liver S9 sub-cellular fractions and cryopreserved hepatocytes | **Aurelia Lapczynski**, *RIFM, USA*

TH034 | Addressing species diversity in biotransformation: Variability in expressed transcripts of hepatic biotransformation enzymes among fishes | **Kellie Fay**, *CSRA, Inc., USA*

TH035 | Metabolism of Organophosphate Flame Retardants (OPFRs) in Freshwater Fish: Field and Laboratory Studies | **Yiping XU**, *Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China*

TH036 | Bioaccumulation and biotransformation of prochloraz in the aquatic invertebrate Hyalella azteca | **Davide Fedrizzi**, *Eawag – Swiss federal Institute of Aquatic Science and Technology, Switzerland*

TH037 | Toxicokinetics and metabolite identification of two emerging pollutants, Acesulfame-K and 4-MBC, in the manila clam Ruditapes philippinarum | **Nieves del Rocio Ruiz**, *INMAR – University of Cadiz, Spain*

TH038 | Organophosphate Esters, Including Alkyl-Substituted Triphenyl Phosphates, in East Greenland Polar Bears and Ringed Seals: Adipose Tissue Concentrations and In Vitro Depletion and Metabolite Formation | **Robert Letcher**, *Environment and Climate Change Canada, Canada*

TH039 | Proteomics of a metabolic simulation system – a look inside rat S9 | **Sabrina Schiwy**, *Institute of Environmental Research – RWTH Aachen, Germany*

TH040 | A critically evaluated database of in vitro and in vivo toxicokinetic data for mammals and fish | **Jon Arnot**, *ARC Arnot Research & Consulting, Canada*

TH041 | A tiered testing strategy for rapid estimation of bioaccumulation by a combined modelling – in vitro testing approach: Derivation of kinetic rate constants in different in vitro models | **Kristin Schirmer**, *Eawag, Switzerland*

TH042 | Update on development of OECD Test Guidelines and Guidance Document on determination of fish in vitro hepatic clearance | **Michelle Embry**, *ILSI Health and Environmental Sciences Institute (HESI), USA*

TH043 | The Bioaccumulation Assessment Tool (BAT): A quantitative weight of evidence approach for bioaccumulation assessment | **Liisa Toose**, *ARC Arnot Research & Consulting, Canada*

TH044 | Towards the use of elimination rates in bioaccumulation assessment – Current challenges and future needs | **Gabriele Treu**, *German Environment Agency, Germany*

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TH045 | SETAC Bioaccumulation Science Interest Group | **Lawrence Burkhard**, *U.S. EPA, USA*

Advances in evaluating and regulating endocrine disruptors (P) | Heiko Schoenfuss, Gerd Maack, Francesca Pellizzato, Lennart Weltje

TH046 | Progress of the Japanese Program on Endocrine Disrupting Effects of Chemicals: EXTEND2016 | **Kunihiko Yamazaki**, *Ministry of the Environment, Japan*

TH047 | Effects of endocrine disruptors on reproductive health: A new approach to integrating ecotoxicological and human health data | **Lise Parent**, *Télé-université, Canada*

TH048 | Pros and cons of fish toxicity tests in detecting chemicals with endocrine disrupting activities | **Aude Emma Kienzler**, *JRC-EC, Italy*

TH049 | Towards developing a list of reference chemicals for endocrine assay validation | **Christopher Prosser**, *ExxonMobil Biomedical Sciences, Inc., USA*

TH050 | Assessment of endocrine disrupting properties of pesticides and biocides: data processing to support data analysis | **Aude Emma Kienzler**, *JRC-EC, Italy*

TH | Thursday Poster Presentations

TH051 | Assessment of endocrine disrupting properties of pesticides and biocides: data requirements, availability and needs | **Aude Emma Kienzler**, *JRC-EC, Italy*

TH052 | Plausible or Causal: Bioactivity and mechanistic potency as a critical piece in hazard characterization of endocrine active chemicals | **Ellen Mihaich**, *ER2, USA*

TH053 | Addressing endocrine concerns for the environment in dossier evaluations with an FSDT – possibility to avoid further vertebrate tests | **Franziska Kaßner**, *Umweltbundesamt / Federal Environment Agency, Germany*

TH054 | Structural Alerts for Potential Endocrine Disruptors | **Ralph Kühne**, *Helmholtz centre for environmental research – UFZ, Germany*

TH055 | Mixtures of endocrine disrupting chemicals disrupt behaviour and thyroid hormone related gene expression in Zebrafish (Danio rerio) larvae | **Lina Birgersson**, *University of Gothenburg, Sweden*

TH056 | Contaminants of emerging concern in the North American Great Lakes: Assessing environmental mixtures in multigenerational exposure studies | **Heiko Schoenfuss**, *St. Cloud State University, USA*

TH057 | Contaminants of emerging concern in the North American Great Lakes: Assessing species sensitivity using environmental mixtures | **Heiko Schoenfuss**, *St. Cloud State University, USA*

TH058 | Contaminants of Emerging Concern in the North American Great Lakes: Effects from simple exposures to complex mixtures | **Heiko Schoenfuss**, *St. Cloud State University, USA*

TH059 | Contaminants of emerging concern in the North American Great Lakes: Load reduction and biological recovery after wastewater treatment upgrades | **Heiko Schoenfuss**, *St. Cloud State University, USA*

TH060 | Contaminants of emerging concern in the North American Great Lakes: Validation of effects through field-based exposures | **Heiko Schoenfuss**, *St. Cloud State University, USA*

TH061 | Towards a multiparallel detection of biological effects caused by anthropogenic micro-pollutants | **Carolin Riegraf**, *German Federal Institute of Hydrology, Germany*

TH062 | Endocrine disruptors used in polymers in the offshore oil and gas industry | **Claire Phillips**, *Cefas Lowestoft Laboratory, UK*

TH063 | Thyroid disruption screening using zebrafish as vertebrate model | **Iñaki Iturria**, *BioBide, Spain*

TH064 | Development of stably transfected cell lines with zebra fish thyroid hormone receptors alfa and beta for assessing endocrine disruption in environmental samples | **Víctor García Herranz**, *INIA National Institute for Agricultural and Food Research and Technology, Spain*

TH065 | Screening endocrine disrupting potentials of alternative plasticizers using three cell line assays | **Gowoon Lee**, *Seoul National University Graduate School of Public Health, South Korea*

TH066 | Development of reporter gene system for assessing cherry shrimp ecdysone receptor agonists using mammalian cells | **King Ming Chan**, *The Chinese University of Hong Kong, Hong Kong*

TH067 | Micro-injection as an alternative for aquatic exposure? A case study in zebrafish embryos with 17α-ethinylestradiol | **Ellen Michiels**, *University of Antwerp, Belgium*

TH068 | Vitellogenin expression, ovarian growth and hormone levels are affected by atrazine in the crayfish Procambarus clarkii | **Enrique Rodriguez**, *University of Buenos Aires, Argentina*

TH069 | Identification of molt-inhibiting hormone and ecdysteroid receptor sequences in Gammarus pulex and consequences of endocrine disruptor exposures | **Eric Gismondi**, *University of Liege, Belgium*

TH070 | Use of in vivo and in vitro assays to investigate the effects and bioavailability of endocrine disrupting compounds in sediment on the benthic invertebrate Chironomus riparius | **Sarah Crawford**, *RWTH Aachen University, Germany*

TH071 | Assessing acute toxicity of Bisphenol A on Daphnia magna by passive dosing approach | **Hyun-ah Kwon**, *KIST Europe, Germany*

TH072 | Toxic effects of juvenile hormone analogue insecticides, methoprene and fenoxycarb, on cherry shrimp (Neocaridina davidi) | **Xuelei Hu**, *The Chinese University of Hong Kong, Hong Kong*

TH073 | Development of Multimedia Fate Model for Human Risk Assessment of EDCs in the Asan Lake Watershed, Korea | **Yoonkwan Kim**, *Greenecos Inc., South Korea*

TH074 | Comparative toxicity and endocrine disruption potential of urban and rural atmospheric organic PM1 in JEG-3 human placental cells | **Barend van Drooge**, *IDAEA-CSIC, Spain*

TH075 | Dietary and non-dietary prenatal exposure to endocrine disruptors (BPA and DEHP). Spanish case study | **María Ángeles Martínez Rodríguez**, *Universitat Rovira i Virgili, Spain*

TH076 | Sensitive Biomarker Assay using LC-MS/MS: Determination of Thyroid Hormones (T3 and T4) in Fetus, Pup and Adult Rat Serum – Sampling Considerations | **Sunetha Diaram**, *Envigo, UK*

TH077 | Steroid estrogens and estrogenic activity are ubiquitous in dairy farm watersheds regardless of effluent management practices | **Louis Tremblay**, *Cawthron Institute, New Zealand*

TH078 | Toxic receipt: Why You Should Avoid it? | **Jelena Milic**, *Institute of Chemistry, Technology & Metallurgy, Serbia*

IG **TH079** | SETAC Endocrine Disruptor Testing and Risk Assessment Interest Group | **Heiko Schoenfuss**, *St. Cloud State University, USA*

Risk assessment of Nanomaterials: innovative approaches and application of recent research developments to regulatory science (P) | Laurence Deydier Stephan, Sonia Manzo, Simona Scalbi, Doris Volker

TH080 | Evaluate the ecological risk during product development: safe by design case study – Met@Link project | **Reinhilde Weltens**, *VITO, Belgium*

TH081 | REACH Substance Evaluation of silver – justification of read-across from ionic silver to nanosilver | **Katrien Arijs**, *ARCHE, Belgium*

TH082 | Revising REACH technical guidance on information requirements and chemical safety assessment for engineered nanomaterials for aquatic ecotoxicity endpoints – recommendations from the EnvNano project | **Sara Sørensen**, *DTU Environment, Denmark*

TH083 | Identifying criteria for environmental risk assessment models at different stage-gates of nano-material/product innovation considering requirements of various stakeholders | **Sara Sørensen**, *DTU Environment, Denmark*

TH084 | Considerations of nanomaterial's environmental fate to support grouping and environmental risk prediction | **Monika Herrchen**, *Fraunhofer IME, Germany*

TH085 | Matrix to predict possible environmental risk of nanomaterials during use phase | **Monika Herrchen**, *Fraunhofer IME, Germany*

TH086 | Concepts for nanomaterial categories regarding environmental hazard and for prediction of their environmental risk as well as proof of principle | **Kerstin Hund-Rinke**, *Fraunhofer IME, Germany*

TH087 | Forms of released engineered nanomaterials: A systematic assessment in material flow analysis | **Veronique Adam**, *EMPA Technology & Society Lab, Switzerland*

TH088 | Using the SimpleBox4nano tool for predicting the environmental concentration of nanomaterials | **Joris Quik**, *RIVM, Netherlands*

TH089 | Directions of in silico method development to complement the predictive models used in risk assessment of nanomaterials | **Joris Quik**, *RIVM, Netherlands*

TH090 | NanoScreen – Minimizing the risk associated with nanomaterials used in sunscreen at all lifecycle stages | **Riccardo Catalano**, *Aix-Marseille Université, France*

TH091 | OECD Test Guidelines and Guidance Documents for Environmental Safety Assessment of Nanomaterials | **Doris Volker**, *German Environment Agency, Germany*

TH092 | Applicability of OECD fish bioaccumulation test guideline 305 to nanomaterials | **Maria Luisa Fernandez-Cruz**, *INIA – National Institute for Agricultural and Food Research and Technology, Spain*

TH093 | A new test method to determine the bioaccumulation of manufactured nanomaterials in filtering organisms (Bivalvia) using the freshwater mussel Corbicula fluminea | **Sebastian Kühr**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

TH094 | Genotoxicity of ZnO nanoparticles. A comparison of methods, tools and mechanisms of action in test experimental models used for human and ecological risk assessment | **Sonia Manzo**, *ENEA, Italy*

From detection to action: advancements in assessing and managing highly fluorinated compounds (P) | Xindi Hu, Rainer Lohmann, Jon Benskin

TH095 | Assessment of persulfate oxidation liquid chromatography tandem mass spectrometry for the analysis of perfluoroalkyl and polyfluoroalkyl substances in water | **Gabriel Munoz**, *Universite de Montreal, Canada*

TH096 | Use of biochars for the sorption of poly – and perfluorinated alkyl substances (PFAS) and heavy metals from contaminated soils | **Ludovica Silvani**, *Norwegian Geotechnical Institute, Norway*

TH097 | Sorption of 14 PFASs to organic soil constituents – the effect of H+, Na+, Ca2+ and Al3+ ions | **Hugo de Campos Pereira**, *Swedish University of Agricultural Science, Sweden*

TH098 | Environmental degradation rates for new PFAS via decarboxylation potential in water, in a MS collision cell and in silico | **Vladimir Nikiforov**, *NILU – Norwegian Institute for Air Research, Norway*

TH099 | Perfluoroalkylated acids (PFAAs) in soil and invertebrates (Isopoda) near a fluorochemical plant in Flanders, Belgium | **Thimo Groffen**, *Systemic Physiological and Ecotoxicological Research (SPHERE), University of Antwerp, Netherlands*

TH100 | Occurrence and distribution of legacy per – and polyfluoroalkyl substances (PFASs) and fluorinated alternatives in coastal waters of the German North and Baltic Seas | **Hanna Joerss**, *Helmholtz-Zentrum Geesthacht, Germany*

TH101 | Suspect screening for short chain PFAS in environmental water samples, waste water treatment plants, and building materials | **Daniel Zahn**, *Hochschule Fresenius, Germany*

TH102 | Utilization of passive samplers to detect poly – and perfluoroalkyl substances (PFASs) in wastewater treatment plants and estuarine environments | **Rainer Lohmann**, *Graduate School of Oceanography, University of Rhode Island, Narragansett, Rhode Island 02882, USA*

TH | Thursday Poster Presentations

TH103 | Distribution of per and polyfluoroalkyl substances in sediments of the Spanish coast | **Soledad Muniategui**, *Universidade da Coruña, Spain*

TH104 | Utilization of Polyethylene Passive Samplers to Detect volatile PFAS precursors in water and air | **Rainer Lohmann**, *University of Rhode Island, USA*

TH105 | Occurrence and Removal of perfluoroalkyl and polyfluoroalkyl substances (PFASs) in full-scale water and wastewater treatment plants | **Karina Yew-Hoong Gin**, *National University of Singapore, Singapore*

TH106 | Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) occurrence in biota in Czech rivers | **Vit Kodes**, *Czech Hydrometeorological Institute, Czech Republic*

TH107 | Analytical strategy to study the distribution of perfluoroalkyl substances in fish tissue of Italian deep subalpine lakes | **Sara Valsecchi**, *Water Research Institute – Italian National Research Council IRSA-CNR, Italy*

TH108 | Potential contribution of targeted and unknown precursors to the apparent biomagnification of perfluoroalkyl acids (PFAA) in the food web of an urban river | **Hélène Budzinski**, *University of Bordeaux, France*

TH109 | PFAS and their precursors in the Environment. First indications from a large scale environmental monitoring study | **Matthias Kotthoff**, *Fraunhofer IME, Germany*

TH110 | A physiologically based toxicokinetic (PBTK) model describing the bioaccumulation of two perfluorinated substances in rainbow trout (Onchorynchus mykiss) | **Alice Vidal**, *Irstea Lyon, France*

TH111 | Does water temperature influence the toxicokinetics of perfluorinated substances? Comparison of two dietary experiments in rainbow trout (Oncorhynchus mykiss) |**Alice Vidal**, *Irstea Lyon, France*

TH112 | Toxicokinetics of perfluorinated alkyl acids in zebrafish embryo | **Carolina Vogs**, *Karolinska Institutet, Sweden*

TH113 | Role of bioaccumulation in the derivation of environmental risk limits for two perfluorinated substances, PFOA and HFPO-DA | **Eric Verbruggen**, *RIVM Expertise Centre for Substance, Netherlands*

TH114 | Perfluoroether carboxylic acids – are these substances appropriate PFOA-alternatives regarding their environmental concerns? | **Claudia Staude**, *German Environment Agency, Germany*

TH115 | Fluoropolymers: Polymeric PFAS That Satisfy Global Polymer of Low Concern Criteria | **Barbara Henry**, *W.L. Gore & Associates, Inc., USA*

TH116 | Fluoropolymers Are Unique, Low Hazard PFAS Needing Different Analytical and Regulatory Approaches Than Monomeric Fluorinated Substances of High Health and Environmental Hazard | **Barbara Henry**, *W.L. Gore & Associates, Inc., USA*

Advances in Soil Ecotoxicology and Risk Assessment of Terrestrial Ecosystems (P) | Mark Maboeta, Bjorn Scholz-Starke, Heidi Cunningham, Silvia Pieper

TH117 | Challenges and Open Questions in Earthworm field testing | **Tobias Vollmer**, *Eurofins Agroscience Services EcoChem GmbH, Germany*

TH118 | Regional Differences of the Environmental Risk Assessment of Pesticides in Soil with a special Focus on the European Union | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

TH119 | Adaptation of the earthworm field test method: conceptual overview and first results | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

TH120 | Soil ecotoxicology research and ecological risk assessment in southern African mining landscapes | **Mark Maboeta**, *North-West University, South Africa*

TH121 | Establishment of tiered risk assessment approach of pesticides for soil organisms in China | **Jinlin Jiang**, *Nanjing Insitute of Environmental Sciences, MEP, China*

TH122 | Ecological recovery and terrestrial Non Target Arthropods: abundance, functional roles and networks | **Melanie Hagen-Kissling**, *Eurofins-Mitox, Netherlands*

TH123 | Comparing effects of fludioxonil on non-target invertebrates using ecotoxicological methods from single-species bioassays to model ecosystems | **Sebastian Höss**, *Ecossa, Germany*

TH124 | To what extent do soil micro-arthropods facilitate OM breakdown in an arable field soil? – Implications on specific protection goal setting for soil risk assessment of plant protection products | **Gregor Ernst**, *Bayer Ag, Germany*

TH125 | The role of source sink-dynamics in the assessment of risk to non-target arthropods from the use of plant protection products | **Gavin Lewis**, *JSC International Ltd, UK*

TH126 | Classification of uncertainty in ecological risk assessment of pesticides | **Agnieszka Hunka**, *Halmstad University, Sweden*

TH127 | Derivation of soil threshold concentrations for arsenic: consideration of bioavailability through combination of ecotoxicological and analytical data | **Jörg Römbke**, *ECT Oekotoxikologie GmbH, Germany*

TH128 | Activity based in-soil arthropod sampling | **Stefan Dehelean**, *Eurofins-Mitox, Netherlands*

TH129 | The application of the CPCAT approach reduces shortcomings of effect detection for earthworm field studies | **Benjamin Daniels**, *RWTH Aachen University, Germany*

TH130 | Relationship between soil microbial biomass methods used in environmental fate laboratory studies | **Paul Massey**, *Smithers Viscient, UK*

TH131 | Where are the Springtails? New data on the vertical distribution of Folsomia candida (Collembola) and its population dynamic in artificial soil | **Luisa Tzschoppe**, *RWTH Aachen University, Germany*

TH132 | Why zinc doesn't matter: habitat quality drives invertebrate response to zinc, not concentration | **Steven Siciliano**, *University of Saskatchewan, Canada*

TH134 | Effects of atmospheric hydrogen chloride and ammonia on Paronychiurus kimi (Collembola: Onychiuridae) | **June Wee**, *Korea University, South Korea*

TH135 | Toxicity assessment of methyl ethyl ketone using earthworm and soil algae | **Youn-Joo An**, *Konkuk University, South Korea*

TH136 | Effects of endocrine disrupt chemicals (EDCs) to soil algae | **Youn-Joo An**, *Konkuk University, South Korea*

TH137 | Evaluation of reproduction tests of earthworms and enchytraeids exposed to sugar cane vinasse in natura and after pH adjustment | **Ana Claudia de Castro Marcato**, *Sao Paulo State University – UNESP, Brazil*

TH138 | Ecotoxicological Characterization of Nitrogen-Based Energetic Soil Contaminants | **Roman Kuperman**, *Edgewood Chemical Biological Center, USA*

TH139 | Organismal responses of oligochaetes in bacterial inoculum amended copper oxychloride spiked soils | **Mark Maboeta**, *North-West University, South Africa*

TH140 | Development of a terrestrial biotic ligand model (TBLM) for predicting acute toxicity of cadmium and zinc to soil collembolan Paronychiurus kimi | **Jino Son**, *Korea University, South Korea*

TH141 | Characteristics of metal-tolerant bacterial plasmids from a platinum mine tailings dam | **Tladi Mahlatsi**, *North-West University, South Africa*

TH142 | Sensitivity of the waterside species, Yuukianura szeptyckii (Collembola: Neanuridae), to cadmium and copper | **Yun-sik Lee**, *Korea University, South Korea*

TH143 | Drivers of copper and zinc availability and phytoavailability in agricultural soils receiving long-term organic waste amendments | **Céline Laurent**, *CIRAD – Centre de coopération internationale en recherche agronomique pour le développement, France*

TH144 | Toxic Effects of Cadmium on Chinese Cabbage , Folsomia Candida (collembola) and their Prediction Modes in 18 Soils of China | **Liping Zheng**, *Nanjing Insitute of Environmental Sciences, China*

TH145 | Do we use plant protection products correctly? Impact of agrochemicals on non-target beetle, Bembidion lampros (Coleoptera: Carabidae) | **Jayasravanthi Mokkapati**, *Institute of Environmental Sciences, Jagiellonian University, Poland*

TH146 | The fate and bioavailability of currently used and emerging pesticides in agriculturally used fluvisols – effects of soil and pesticide properties | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

TH147 | A Field Trial to Determine Effects of Thiamethoxam treated Sugar Beet Seed on the Non-Target Arthropod Fauna of Arable Land in The Netherlands | **Pernille Thorbek**, *Syngenta, UK*

TH148 | Bioaccumulation kinetics of pesticides chlorpyrifos and tebuconazole in the earthworm Eisenia andrei in two different soils | **Lucie Bielská**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

TH149 | Effects of diuron and imidacloprid on eight nematode species | **Julie Neury-Ormanni**, *Irstea, France*

TH150 | Multigeneration effects of pentachlorophenol and 2,2',4,4'-tetrabromodiphenyl ether on Folsomia candida | **Min Qiao**, *Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China*

TH151 | Bioaccumulation of lead in earthworms: a comprehensive study to derive a biota-to-soil accumulation factor (BSAF) for risk assessment | **Jasim Chowdhury**, *International Lead Association, USA*

TH152 | Hazard assessment of liquid organic hydrogen carriers in terrestrial environment | **Ya-Qi Zhang**, *Dresden University of Technology, Germany*

TH153 | Combining field measurements and biotest to assess lead and zinc phytoavailability in contaminated urban soils | **Laure Lemal**, *MetRHIZlab, France*

TH154 | Can approaches beyond the traditional ones characterizing the effects on soil microflora provide an added value in the scope of regulation? | **Kerstin Hund-Rinke**, *Fraunhofer IME, Germany*

TH155 | Re-calibration of the earthworm Tier 1 risk assessment of plant protection products – an update | **Gregor Ernst**, *Bayer Ag, Germany*

TH156 | Digging into the soil risk assessment of pesticides: current approach and its uncertainty | **Maria Arena**, *EFSA – European Food Safety Authority, Italy*

IG **TH157** | SETAC Soils Interest Group | **Marlea Wagelmans**, *Bioclear earth, Netherlands*

TH | Thursday Poster Presentations

Natural toxins and harmful algal blooms (HABs): Water and food safety, analysis, toxicity, and risks (P) | Gemma Giménez Papiol, Hans Christian B. Hansen, Helena Cristina Silva de Assis, Thomas Bucheli

TH158 | A novel analytical method for simultaneous quantification of Bracken fern produced carcinogenic ptaquiloside-like compounds and their derivatives | **Lars Rasmussen**, *Metropolitan University College, Denmark*

TH159 | A novel method for ptaquiloside and pterosin B preservation in groundwater samples | **Natasa Skrbic**, *University of Copenhagen, Denmark*

TH160 | Harmful algal bloom smart device application: Using image analysis and machine learning techniques for classification of harmful algal blooms | **James Lazorchak**, *U.S. EPA, USA*

TH161 | Matrix-assisted laser desorption/ionization-time of flight mass spectrometry application for rapid screening of microcystins occurrence in northern Taiwan tap-water reservoirs | **Wanghsien Ding**, *National Central University, Taiwan*

TH162 | Smelly HABs: Response-surface optimized HS-SPME-GC/MS method for monitoring multi-class HAB odor compounds in water | **Christos Avagianos**, *EYDAP SA, Greece*

TH163 | Suspected screening of cyanotoxins in freshwater by high performance liquid chromatography coupled to high-resolution mass spectrometry | **Marinella Farre**, *IDAEA-CSIC, Spain*

TH164 | Oligonucleotide probes for fluorescence in-situ identification of cyanobacterial cells in surface waters | **Laura Dejana**, *Water Research Institute National Research Council, Italy*

TH165 | Adequacy of EPI Suite prediction models to estimate physicochemical properties of natural toxins potentially present in surface water | **Inés Rodríguez Leal**, *Stockholm University, Sweden*

TH166 | Cyanobacterial oligopeptides of environmental concern and (co)production dynamics | **Elisabeth Janssen**, *Eawag Swiss Federal Institute of Aquatic Science and Technology, Switzerland*

TH167 | Degradation of the carcinogen ptaquiloside under alkaline conditions | **Lars Holm Rasmussen**, *Metropolitan University College, Denmark*

TH168 | Experimental Determination of Octanol-Water Partitioning Coefficients of Natural Toxins | **Carina Schoensee**, *Agroscope, Switzerland*

TH169 | Phytotoxins as aquatic micropollutants: A procedure for prioritization | **Barbara Guenthardt**, *Agroscope, Switzerland*

TH170 | Sorption of pterosin B to soil materials | **Lars Holm Rasmussen**, *Metropolitan University College, Denmark*

TH171 | Modelling the fate of natural toxins in the soil using DAISY – a case study of ptaquiloside | **Daniel Garcia Jorgensen**, *University of Copenhagen, Denmark*

TH172 | Genomic insight into biosynthetic pathway of retinoids by cyanobacteria | **Luděk Sehnal**, *Masaryk University RECETOX, Czech Republic*

TH173 | Emerging treatment methods for the removal of cyanotoxins from drinking water with focus on Advanced Oxidation Processes | **Marcel Schneider**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

TH174 | An overview of the effects and bioaccumulation of ciguatoxins in fish | **Marie-Yasmine Dechraoui Bottein**, *IAEA, Monaco*

TH175 | Aflation contamination in imported nuts for human consuption: Three years (2013–2105) of official control results in Italy | **Rita De Pace**, *Institute of Experimental Zooprophylactic Puglia and Basilicata, Italy*

TH176 | Impact of climate change drivers on toxin contamination and genotoxicity in Mytilus galloprovincialis: Combined effects of warming, acidification and harmful algal blooms | **Antonio Marques**, *IPMA, I.P., Portugal*

TH177 | Interest of bivalves for the biosurvey of cyanotoxins in aquatic ecosystems | **Emilie Lance**, *University Reims Champagne Ardennes, France*

TH178 | Tetrodotoxin an Emerging Threat to Humans in the Mediterranean Area: First Detection in Italian Mussels | **Luciana Tartaglione**, *University of Napoli Federico II, Italy*

TH179 | The first report on neurotoxic anatoxin-a occurrence in cyanobacterial blooms in the Czech Republic | **Lucie Blahova**, *Research Centre for Toxic Compounds in the Environment (RECETOX), Czech Republic*

TH180 | Toxic cyanobacteria succession during a drier summer in a water reservoir in Sicily, Southern Italy. Implications for monitoring programs and risk assessment | **Maura Manganelli**, *Istituto Superiore di Sanità , Italy*

TH181 | Cyanobacteria taste and odor compounds; a study in freshwaters of Greece | **Triantafyllos Kaloudis**, *EYDAP SA, Greece*

TH182 | Determination of multi-class cyanotoxins in fish tissues | **Christophoros Christophoridis**, *National Center for Scientific Research, Greece*

TH183 | Effects of Asparagopsis armata exudate on the fatty acid profile of two marine invertebrates | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*

TH184 | Impacts of Asparagopsis armata on marine invertebrates: Behavioral and biochemical responses | **Marco Lemos**, *Instituto Politécnico de Leiria, Portugal*

TH185 | Assessing consumption risks through cadmium-contaminated shellfish amplified by ocean acidification | **Wei-Yu Chen**, *Kaohsiung Medical University, Taiwan*

TH186 | Cyanobacterial toxins – a threat to the human respiratory tract? | **Barbara Kubickova**, *Masaryk University, Faculty of Science, Czech Republic*

TH187 | Effects of microcystin-LR and cyanobacterial LPS in human airway in vitro models | **Ondřej Brózman**, *Masaryk University, Faculty of Science, RECETOX, Czech Republic*

TH188 | Estrogenic and retinoid-like activity in stagnant waters | **Marie Smutna**, *Masaryk University, Faculty of Science, RECETOX, Czech Republic*

TH189 | Excitatory effects of 2,4 – diaminobutyric acid on leech Retzius nerve cell membrane potential | **Svetolik Spasić**, *Faculty of Medicine, University of Belgrade, Serbia*

TH190 | Generating ecotoxicity information on microcystins and prymnesins: A different approach | **James Lazorchak**, *U.S. EPA, USA*

TH191 | Proteomic analysis of rice plant exposed to long-term microcystin-LR exposure | **Jinlin Jiang**, *Nanjing Insitute of Environmental Sciences, MEP, China*

TH192 | Probabilistic human health risk assessment for dietary exposure to aflatoxin in Taiwan | **Min-Pei Ling**, *National Taiwan Ocean University, Taiwan*

TH193 | Organ distribution of the environmental neurotoxin β-N-Methylamino-L-alanine in the freshwater mussel Dreissena polymorpha | **Alexandra Lepoutre**, *UMRI 02 INERIS-URCA-ULH SEBIO, France*

Developments in the use of bioassays for chemical and environmental risk assessment (P) | Ron van der Oost, Jonny Beyer, Michelle Embry

TH194 | Responses to PFOA and PFBS exposure in the sediment dwelling invertebrate Dendrobaena veneta (Annelida) | **Laura Guidolin**, *University of Padua, Department of Biology, Italy*

TH195 | Toxicity of Per – and Polyfluoroalkyl substances on Chironomus dilutus for use in a relative toxicity model | **Christopher McCarthy**, *CH2M, USA*

TH196 | Interpretation of bioassay results in the context of the soil quality TRIAD approach | **Sandrine Andres**, *INERIS, France*

TH197 | Estimating the hazardous concentrations of nonylphenol for soil ecosystem protection with probabilistic approach | **Jin Il Kwak**, *Konkuk University, South Korea*

TH198 | Organophosphate Triesters and Selected Metabolites Enhance the Binding of Thyroxine to Human Transthyretin In Vitro | **Robert Letcher**, *Environment and Climate Change Canada, Canada*

TH199 | In Vitro and In Silico Competitive Binding of Brominated Polyphenyl Ether Contaminants With Human and Gull Thyroid Hormone Transport Proteins | **Robert Letcher**, *Environment and Climate Change Canada, Canada*

TH200 | Phosphine changes cytochrome c oxidase in Sitophilus oryzae | **Kyeongnam Kim**, *Kyungpook National University, South Korea*

TH201 | Effects of additives in mobile phases in simultaneous analysis of glutathione and glutathione disulfide by HPLC-MS/MS | **Seungyun Baik**, *KIST Europe, Germany*

TH202 | Rapid analysis of bivalves' xenometabolome using High Resolution Mass Spectrometry | **Damia Barcelo**, *IIQAB-CSIC, Spain*

TH203 | River ecosystem: An ecosystem approach to evaluate the ecological risk linked to the human health protection | **Stefania Marcheggiani**, *Istituto Superiore di Sanità, Italy*

TH204 | Integrated exposure and effect database tools to support hazard and risk assessment | **Knut Erik Tollefsen**, *NIVA, Norway*

TH205 | Assessing exposure risk for marine bivalve Mytilus posed by microplastic polystyrene particles | **Chiyun Chen**, *National Taiwan University, Taiwan*

TH207 | Innovative Design of Nationwide Dutch Water Quality Monitoring | **Milo de Baat**, *University of Amsterdam, Netherlands*

TH208 | Smart Monitoring: Application of innovative tools in nationwide water quality assessment | **Milo de Baat**, *University of Amsterdam, Netherlands*

TH209 | Passive sampling in effect-based monitoring of two European rivers – explicability of in vitro toxic potentials by detected chemicals | **Jiri Novak**, *Masaryk University, Czech Republic*

TH210 | Testing of realistic contaminant mixtures with the harpacticoid copepod species Nitocra spinipes using passive sampler extracts | **Samuel Moeris**, *Ghent University (UGent), Belgium*

TH211 | Passive dosing of polar and non-polar substances using Oasis HLB® – Pre-equilibration of media for transferring complex mixtures | **David Kämpfer**, *Institute for Environmental Research (RWTH Aachen University), Germany*

TH212 | Passive dosing strategy for in vitro test systems: Static concentration generator and continuous release | **Frederic Begnaud**, *Firmenich, Switzerland*

TH213 | Identification of Gestagen(s) and Corticosteroid(s) from Danube River wastewater sample by using LC-HRMS and non-target screening approach | **Muhammad Hashmi**, *Helmholtz Centre for Environmental Research – UFZ, Germany*

TH | Thursday Poster Presentations

TH214 | Mixture Risk – Development of an effect-based chemical risk assessment strategy for sites contaminated with complex mixtures of organic and inorganic contaminants | **Greta Nilen**, *Orebro University, Sweden*

TH215 | Analyzing chemical pollutants in water samples from an urban river and wastewater effluent in Hyderabad (India) and their ecotoxicological effects using effect-directed analysis (EDA) | **Jonas Daniel**, *RWTH Aachen University, Germany*

TH216 | Ecotoxicological assessment of water samples from an urban river, wastewater treatment plant effluent and industrial effluent in Hyderabad (India) using a set of different bioassays | **Paul Böhm**, *RWTH Aachen University, Germany*

TH217 | NAWA SPEZ 2015: Ecotoxicological risks in five small Swiss streams within agricultural catchments | **Marion Junghans**, *Centre Ecotox EAWAG-EPFL, Switzerland*

TH218 | An ecotoxicological assessment of Lake Mondsee, Austria: A two year survey | **Sandra Goncalves**, *Department of Biology & CESAM – University of Aveiro, Portugal*

TH219 | Availability of estrogens applied onto 96-well plates in the LYES | **Mituna Ragulan**, *Swiss Centre for Applied Ecotoxicology Eawag-EPFL, Switzerland*

TH220 | Mutagenic and ontogenetic responses in freshwater guppy Poecilia vivipara chronically exposed to waterborne sodium dodecyl sulfate (SDS) | **Marianna Jorge**, *Universidade Federal Maranhão – UFMA, Brazil*

TH221 | Determinatino of Izmir bay pollution by using genetic biomarkers in the mussel (Mytilus Galloprovincialis) taken from the natural environment | **Özlem Çakal Arslan**, *University Ege, Turkey*

TH222 | Bioassays stress the ecotoxicological differences between polymers and plastics additives in the marine environment | **Ricardo Beiras**, *University of Vigo, Spain*

TH223 | Effects of potassium bromate on the embryological development of the sea urchin Arbacia lixula (Linnaeus, 1758) | **Irem Avşar**, *Les Établissements Scolaires Tevfik Fikret, Turkey*

TH224 | Effect of thermal stress on endocrine disruption in Daphnia magna | **Joorim Na**, *Korea University, South Korea*

TH225 | Microplate Alga Growth-Inhibition Bioassay | **Iñaki Iturria**, *BioBide, Spain*

Challenges, methodological developments and practical solutions for Social Life Cycle Assessment in industry and policy (P) | Andreas Ciroth, Andrea Porcari

TH226 | Applying Social-LCA and Social Hot Spot Analysis including a SDG Evaluation to Product Assessments with SEEBALANCE® | **Peter Saling**, *BASF SE, Germany*

TH227 | Piloting Responsible Research and Innovation in Industry | **Andrea Porcari**, *Airi – Italian Association for Industrial Research, Italy*

TH228 | Sustainable Guar Initiative – an integrated approach of social and environmental LCA | **Alain Wathelet**, *Solvay SA, Belgium*

TH229 | How the social pillar can be properly integrated into sustainability evaluation methodology? Evidence from bio-based products case study | **Pasquale Marcello Falcone**, *Unitelma – Sapienza University of Rome, Italy*

TH230 | Methodological considerations for applying social LCA to modelled future European energy systems in the REFLEX project | **Nils Brown**, *KTH royal Institute of Technology, Sweden*

TH231 | Social Life Cycle Assessment of the water system in Mexico City | **Leonor Patricia Güereca**, *Engineering Institute Universidad Nacional Autónoma de México, Mexico*

Improvements in environmental exposure assessment: Development and application of tools across industry sectors, regulatory agencies, and international boundaries (P) | Laura McConnell, Romanas Cesnaitis, Todd Gouin, Rai Kookana

TH232 | Environmental Risk Assessment for some additives used in hydrocarbon extraction activities into the sea | **Serena Santoro**, *National Research Council of Italy (CNR), Italy*

TH233 | Multidisciplinary approach for discussing the rice crop specific needs in Southern Europe in the view of the Plant Protection Products assessment: Conclusions from an ad hoc workshop | **Claudia Vaj**, *Dow AgroSciences Italia s.r.l., Italy*

TH234 | The Water Column Monitoring Program in Norway: When regulation and science meet | **Daniela Maria Pampanin**, *International Research Institute of Stavanger, Norway*

TH235 | DAPHNE: A supporting tool for pesticides risk assessors and stakeholders | **Alberto Linguadoca**, *ICPS International Centre for Pesticides and Health Risk Prevention, Italy*

TH236 | The applicability of the assessment entity concept in the REACH registration of complex mixtures. A case study for fragrance substances | **Karen Jenner**, *Givaudan, UK*

TH237 | Canada's Approach to Determining Causes of Impairment at Federal Contaminated Sites | **Mary Sorensen**, *Ramboll Environ, USA*

TH238 | Improving "man via the environment" exposure assessment for lead: A case study with lead battery manufacturing and recycling uses | **Sabine Navis**, *Arche consulting, Belgium*

TH239 | Validation of the industrial Simple Treat model for a site-specific setting | **Jens Otte**, *BASF SE, Germany*

TH240 | Combination of remote sensing and coarse statistical data for determination of precise spatial distribution of a pesticide load onto soils at a national scale | **Vit Kodes**, *Czech Hydrometeorological Institute, Czech Republic*

TH241 | A Bayesian approach to estimate biodynamic model parameters: Bioaccumulation of PCB 153 by the freshwater crustacean Gammarus fossarum | **Aude Ratier**, *Irstea Lyon, France*

TH242 | Bioaccumulation and bio-transformation of Hexabromocyclododecane (HBCD) by the freshwater crustacean Gammarus fossarum: A Bayesian approach to estimate biodynamic model parameters | **Aude Ratier**, *Irstea Lyon, France*

TH243 | Chemical Exposure Disparities by Demographic Traits in the US Population 1999–2014 | **Vy Nguyen**, *University of Michigan, USA*

TH244 | Occupational exposure to flame retardants among Canadian e-waste dismantlers | **Miriam Diamond**, *University of Toronto, Canada*

TH245 | Global approaches to environmental exposure – assessment of e-wastes | **Hemda Garelick**, *Middlesex University, UK*

TH246 | Droplets deposition pattern from a prototype of a fixed spraying system in a sloping vineyard | **Stefan Otto**, *Italian National Research Council, Italy*

TH247 | Sensitive Arsenic Speciation by Capillary Electrophoresis Using UV Absorbance Detection with On-Line Sample Preconcentration Techniques | **Joon Yub Kwon**, *Seoul National University, South Korea*

TH248 | Determination of background levels of free cyanides in surface waters | **Heinz Ruedel**, *Fraunhofer IME – Institute for Molecular Biology and Applied Ecology, Germany*

TH249 | Application of equilibrium and kinetic passive sampling method to quantify integrative chemical profile in a small river and the outflow of WWTP | **Yoonah Jeong**, *KIST Europe, Germany*

TH250 | Improvement of relationship between water pesticide contamination and land used at a large scale using the Polar Organic Chemical Integrative Sampler | **Marion Bernard**, *Irstea, France*

TH251 | Development and calibration of o-DGT for pesticides, hormones and pharmaceuticals | **Bertille Bonnaud**, *Irstea Bordeaux, France*

TH252 | Evaluation of Translocation of [14C] Radiolabeled Plant Protection Product in Tomato Fully Grown in a Greenhouse | **Samuel Freedlander**, *Smithers Viscient, LLC, USA*

TH253 | An Examination of Microbial Biomass in Sediments and the Impact of Seasonal Variation | **Kalumbu Malekani**, *Smithers Viscient, USA*

TH254 | Use of scanning electron microscope (SEM) in evaluation of hypopharyngeal glands development in Honey bees (Apis mellifera L.) | **Natalia Lemańska**, *Institute of Industrial Organic Chemistry, Branch Pszczyna, Poland*

TH255 | Comparison of International Quality Assurance and Quality Control Standards for High Resolution Mass Spectrometry Dioxin Analysis | **David Thal**, *Environmental Standards, Inc., USA*

TH256 | New Mass Spectrometry Techniques for the Measurement of Persistent Organic Pollutants | **John Giesy**, *University of Saskatchewan, Canada*

TH257 | Influence of water temperature and salinity on impact of Hazardous and Noxious Substances (HNS) in the marine environment | **Marta Vannoni**, *Cefas, UK*

TH258 | Using Correlations of Biological Toxicity Equivalent Quotients and Toxicity Equivalent Quotients to Derive Threshold Values for Dioxin-Like Compounds in Sediment | **Jacob Ouellet**, *RWTH Aachen University, Germany*

TH259 | Measuring bioconcentration of cationic surfactants in fish | **Michael McLachlan**, *Stockholm University, Sweden*

TH260 | Acetylcholinesterase inhibition: A comparison of available methods for determination of acetylcholinesterase in muscle tissue of Limanda limanda | **Joanna Uzyczak**, *Centre for Environment, Fisheries and Aquaculture Science (Cefas), UK*

TH261 | Environmental emission to surface water for analogous exposure path. A reflection on the matter for biocides, human and veterinary medicines | **Amparo Haro-Castuera**, *Spanish Medicines Agency, Spain*

Hazard and exposure assessment of chemical mixtures: steps towards increasing the realism of chemical risk assessment (P) | Thomas Backhaus, Todd Gouin, Daniel Salvito, Rolf Altenburger

TH263 | Using microarthropod community assays in metal mixture testing | **Jean Mathieu Renaud**, *CFE – Centre for Functional Ecology, Portugal*

TH264 | Alteration of stress-related and thyroid hormone related genes in zebrafish larvae after the administrations of lead acetate, and mixtures of lead acetate and BDE-209 | **King Ming Chan**, *The Chinese University of Hong Kong, Hong Kong*

TH265 | Assessment of the toxic interaction of lanthanides on aquatic organisms | **Laure Giamberini**, *Université de Lorraine, CNRS UMR 7360, France*

TH266 | Predicting the chemical and biological effects of tertiary metal mixture (Ni, Cu, Cd) to aquatic plant, Lemna gibba under different dissolved organic carbon concentrations | **Walter Di Marzio**, *CONICET-PRIET UNLU, Argentina*

TH267 | Isolation and characterization of heavy metal resistant bacteria in soil samples from Mambilla Artisanal mining site, Nigeria

TH | Thursday Poster Presentations

| **Ayantse Martins**, *Federal University Wukari, Nigeria*

TH268 | The exceptions to the rule? Metal bioaccumulation in macroinvertebrates from metal polluted sites with a good ecological status | **Bart Slootmaekers**, *Systemic Physiological and Ecotoxicological Research (SPHERE), University of Antwerp, Belgium*

TH269 | Effects of heavy metal mixtures on bioaccumulation and defence mechanisms in common carp, Cyprinus carpio | **Giovanni Castaldo**, *University of Antwerp, Belgium*

TH270 | Silver nanoparticles exposure inhibits glycans synthesis and induces cytotoxicity in human cell line | **Kaori Shimizu**, *Toyo University, Japan*

TH271 | Mixture toxicity of ZnO and silver nitrate to Daphnia magna | **Min Jeong Baek**, *KIST Europe, Germany*

TH272 | How relevant is mixture toxicity of herbicides in surface water? | **Robin Sur**, *Bayer AG – Crop Science Division, Germany*

TH273 | Simplify: Reasonable approaches to Mixtox assessment for plant protection products | **Arnd Weyers**, *Bayer Ag, Germany*

TH274 | Sublethal toxicity of pesticide mixtures on early life stages of non-target aquatic organisms | **Eliska Rozmankova**, *RECETOX, Faculty of Science, Masaryk University, Czech Republic*

TH275 | Including multistress in risk assessment of pesticides. Current state of knowledge, based on a literature review and evaluation of tank mixture applications in a spraying schedule for strawberries | **Peter van Vliet**, *Board for the Authorization of Plant Protection Products and Biocides, Netherlands*

TH276 | Modelling acute and chronic risks of pesticides residues in sour cherries | **Pogacean Manuela Olga**, *Phytosanitary Office, Romania*

TH277 | Environmental and Human Cumulative Risk Assessment of Pesticides Using Local Monitoring Data: A Case Study from the Pucara River Basin, Bolivia | **Laia Herrero Nogareda**, *University of Copenhagen, Denmark*

TH278 | Developing a strategy to improve the environmental risk assessment of difficult to test multi-component substances: A new HESI Emerging Issues Committee | **Daniel Salvito**, *Research Institute for Fragrance Materials, Inc., USA*

TH279 | Environmental Risk Assessment of Technical Mixtures under REACH | **Wiebke Drost**, *Federal Environment Agency (UBA), Germany*

TH280 | Natural complex mixtures: Ecotoxic behaviour, what we know and what is next? | **Paul Thomas**, *CEHTRA SAS, France*

TH281 | Testing chemical mixtures: How to determine the effects concentration(s)? | **Geneviève Deviller**, *DERAC, France*

TH282 | Deriving USEtox human non-cancer toxicity Effect factors from the REACH database for thousands of chemicals using R-Studio program | **Erwan Saouter**, *EU Commission JRC, Italy*

TH283 | Deriving USEtox aquatic freshwater toxicity Effect factor from OpenFoodTox database (EFSA) using R-Studio program | **Erwan Saouter**, *EU Commission JRC, Italy*

TH284 | Bioassays for assessing effects of overall migrate from food contact materials | **Jane Muncke**, *Food Packaging Forum Foundation, Switzerland*

TH285 | A unique index to characterize the global noxiousness of stable and radioactive substances for both human health and ecosystems | **Karine Beaugelin-Seiller**, *Institut de Radioprotection et de Sûreté Nucléaire, France*

TH286 | Solution-focused application of mixture modelling and chemical footprints | **Michiel Zijp**, *RIVM, Netherlands*

TH287 | One-week observation of phthalate metabolites in urine from 12 Korean adults: Exposure levels, profiles, and source identification | **Jae-eun Lim**, *Hanyang University, South Korea*

TH288 | Integrating chemical monitoring data with high-content effects data to prioritize contaminants and hazards in chemical mixtures | **Dalma Martinovic-Weigelt**, *University of St. Thomas, USA*

TH289 | Central Asia pollution: Obsolete tailings, obsolete pesticides, obsolete gasoline and human health disorders | **Igor Hadjamberdiev**, *Toxic Action Network Central Asia, Kyrgyzstan*

TH290 | Evaluating HPC ingredients in WWTPs & surface water of the Songhua Catchment using monitoring & high tier modelling tools | **John Kilgallon**, *Unilever, UK*

TH291 | Mesocosm experiment evidences complex responses of biofilm communities along a gradient of chemical pollution | **Antoni Ginebreda**, *Institute of Environmental Assessment and Water Research IDAEA CSIC, Spain*

TH292 | Risk assessment of chemical mixtures in the Erft river basin | **Stefan Rhiem**, *North Rhine Westphalian State Agency for Nature, Environment and Consumer Protection (LANUV NRW), Germany*

TH293 | Assessing groundwater toxicity of emerging contaminant mixtures | **Maria Pavlaki**, *University of Aveiro, Portugal*

TH294 | Mixture effects of Dibutyl phthalate and Sodium dodecyl sulphate on a mesozooplankton community from the Swedish west coast | **Christina Jönander**, *University of Gothenburg, Sweden*

TH295 | Analysis of the Mixture Toxicity Burden in 17 Rivers in North Eastern Australia – Implications for the Great Barrier Reef | **Francis Spilsbury**, *University of Gothenburg, Sweden*

TH296 | Physiological and transcriptomic responses in the tropical coral Stylophora pistillata to inorganic sunscreen exposure | **Alice Tagliati**, *Heriot Watt University, UK*

TH297 | Effect of antibiotic mixtures on the growth of Anabaena flos-aquae | **Kamsia Budin**, *Environment Department, University of York, UK*

TH298 | Exposure to mixtures of Persistent Organic Pollutants (POPs) can inhibit the transactivation activities of Aryl hydrocarbon Receptor (AhR) in vitro | **Que Doan**, *Université de Liège (ULiege), Belgium*

TH299 | Ecotoxicity of biofuel-mixture DnBE and 1-Octanol on aquatic organisms Danio rerio and Daphnia magna | **Milena Esser**, *Institute for Environmental Research RWTH Aachen, Germany*

TH300 | Single and combined effects of propiconazole and ZnO (bulk and nano form) on various biomarkers and reproduction in Enchytraeus albidus | **Branimir Hackenberger**, *Department f Biology, University of Osijek, Croatia*

TH301 | Mixture toxicity of abamectin and difenoconazole to zebrafish embryos (Danio rerio) | **Livia Figueiredo**, *University of São Paulo USP, Brazil*

TH302 | Cocktail-effect of persistent organic pollutants on selected bioreporter-systems and zebrafish embryos | **Norina Pagano**, *RWTH Aachen University, Germany*

Emerging technologies and related raw materials requirements scenarios: The role of life cycle thinking (P) | Laura Cutaia, Grazia Barberio, Serena Righi, Alessandra Bonoli

TH304 | Environmental impact assessment of carbon fibers reinforced composites pyrolysis process | **Esmeralda Neri**, *Alma Mater Studiorum – University of Bologna, Italy*

TH305 | Critical raw materials in a new building integrated photovoltaic system | **Daniel Garrain**, *CIEMAT, Spain*

TH306 | Environmental sustainability assessment of a biological Active Pharmaceutical Ingredient: A resource based Life Cycle Assessment | **Ana Renteria Gamiz**, *Ghent University, Belgium*

TH307 | LCA methodology: A case study of the industrial production of terephthalic acid from renewable sources | **Mirco Volanti**, *Università di Bologna, Italy*

TH308 | Environmental assessment of vanadium redox flow batteries | **Christine Minke**, *Technische Universität Clausthal, Germany*

TH309 | Towards the Life Cycle Assessment of engineered nanoparticles production: A comparison between batch and continuous flow synthesis | **Fabio Grimaldi**, *University College London, UK*

TH310 | LCA of nanomaterials production for the emerging technology: The case of printing batteries | **Maria Rosa Riera**, *LEITAT, Spain*

TH311 | Life Cycle Assessment (LCA) applied to new and advanced material solutions in Concentrated Solar Thermal technology | **Ariadna Claret**, *Leitat Technological Center, Spain*

TH312 | Environmental impact and social influence of an Advanced Adiabatic Compressed Air Energy Storage (AA-CAES) located in Eisenerz, Austria. The case of RICAS2020 PROJECT | **Ariadna Claret**, *Leitat Technological Center, Spain*

TH313 | Upgrading wastewater treatment technologies in the framework of current renewable energy policies – an environmental assessment | **Martí Rufí-Salís**, *Universitat Autònoma de Barcelona, Spain*

TH314 | Anticipatory life cycle assessment of sol-gel derived anti-reflective coating for greenhouse glass | **Natalya Tsoy**, *CML Leiden University, Netherlands*

TH315 | Combine process simulation analysis with Life Cycle Assessment method in polyurethane rigid foam production | **Alessandro Bordignon**, *Università di trieste, Italy*

TH316 | Life Cycle Assessment of CO_2-based Methanol Production using Captured CO_2 from Fossil Fuel Power Plants | **Changgun Lee**, *University College London, UK*

Advancing the Adverse Outcome Pathway Framework – An International Horizon Scanning Approach (P) | Carlie LaLone, Markus Hecker

TH317 | Linking failed swim bladder inflation of larval Japanese medaka (Oryzias latipes) after embryonic exposure to 17α-ethinylestradiol, levonorgestrel and diclofenac, to disrupted βcatenin/Wnt signaling | **Zacharias Pandelides**, *University of Ontario Institute of Technology, Canada*

TH318 | Linking mode of action of the model respiratory and photosynthesis uncoupler 3,5-dichlorophenol to adverse outcomes in Lemna minor | **Knut Erik Tollefsen**, *NIVA, Norway*

TH319 | Development of adverse outcome pathways for oxidative stressor-mediated reproductive effects in aquatic invertebrates | **Knut Erik Tollefsen**, *Norwegian Institute for Water Research, Norway*

TH320 | Development of an Adverse Outcome Pathway for cardiotoxicity mediated by the blockade of L-type calcium channels | **Luigi Margiotta-Casaluci**, *Brunel University London, UK*

TH321 | Quantification of AOP by Bayesian network modelling: Linking 3,5-DCP exposure to adverse outcomes in Lemna minor | **Jannicke Moe**, *Norwegian Institute for Water Research (NIVA), Norway*

TH322 | Development of Quantitative Adverse Outcome Pathway (AOP) of Pulmonary Fibrosis with Effectopedia | **Nivedita Chatterjee**, *University of Seoul, South Korea*

TH323 | Exploring Potential of Knowledge Databases for Adverse Outcome Pathway Discovery | **Chih Lai**, *University of St. Thomas, USA*

SETAC Europe
CERTIFICATION
OF ENVIRONMENTAL
RISK ASSESSORS

SETAC Europe Certification of Environmental Risk Assessors

The certification has been developed to provide an internationally recognised standard for Environmental Risk Assessors.

NETWORK

Build a strong international network with professionals all over the world.

DEVELOPMENT

Show your commitment to continuous career development.

EDUCATION

Visit high-level training courses taught by experts in the field.

EXPERTISE

Demonstrate your expertise and skills in the field of environmental risk assessment.

Get more information

Join us for an information session on Tuesday and Wednesday 5:15 p.m.–5:45 p.m. in Meeting Room 3

Or ask you questions directly at the SETAC square on Wednesday and Thursday during the morning coffee break (10:05 a.m.–10:50 a.m.).

certification.setac.org

cra@setac.org

SETAC SQUARE

Come to the SETAC Square and enjoy a range of activities:

Reddit Ask Me Anything

Monday, 14 May | 2:00 p.m.–6:00 p.m.

Join us at SETAC Square and be part of our Reddit Ask Me Anything platform to answer questions online to anyone in the world curious about our science! There is no experience required! Bring a cup of coffee and a sense of humour and use this opportunity to get to know some of the bright young researchers working in the Society!

The Reddit platform encourages discussion and facilitates outreach while bridging the gap between practising scientists and the general public.

Photo Booth

Sunday–Thursday

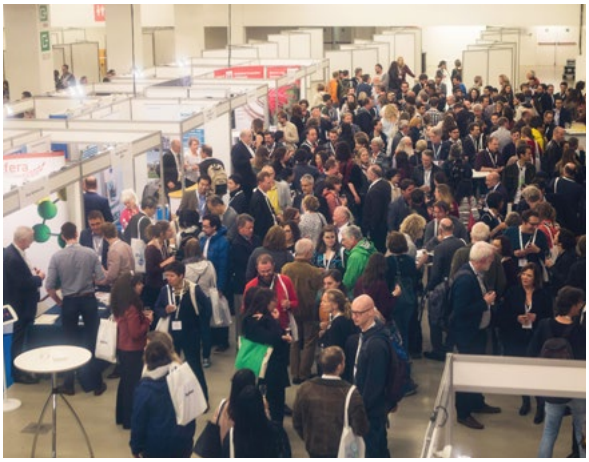
Take a picture with your friends at our photo booth. A fun, free take-away gift to bring with you back home!

Every day at the SETAC Square.

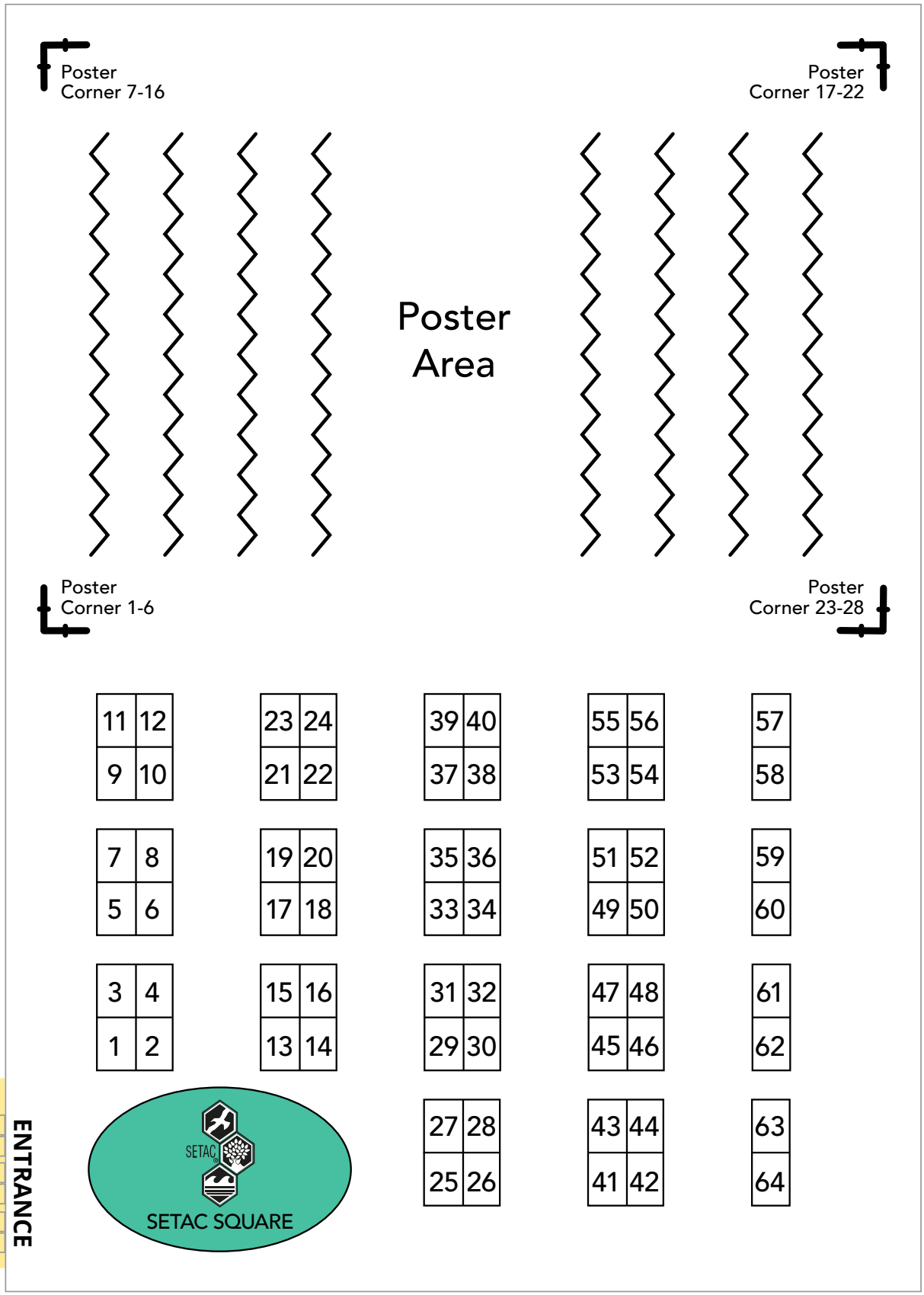
Certification of Environmental Risk Assessors

Wednesday and Thursday | 10:05 a.m.–10:50 a.m.

Find out more about the Certification of Environmental Risk Assessors (CRA) programme! Get more information about the programme, requirements, enrolment or find a mentor.



EXHIBITON HALL



EXHIBITORS

Booth	Exhibitor
25+27	Agilent
42	Agrochemex
35	AquaBioTech Group
47	Arcadis
12	ARCHE Consulting
28	BioChem agrar GmbH
62	Biotecnologie BT
24	Blue Frog Scientific
55	Cambridge Environmental Assessments
64	Cambridge Isotope Laboratories, Inc.
45	Cefas
6+8	CEHTRA/KREATiS
49	CEM Analytical Services Ltd (CEMAS)
11	Charles River
48	Chemex
50	Chemical Risk Manager from Chemical Watch
63	Chemical Research 2000
56	Chemservice Srl controlli e ricerche
7	Computational Biology Facility
22	ECT Oekotoxikologie GmbH
9	ENVIGO
10	EPP
52	ERM
38	Euro Chlor (Cefic)
21+23	Eurofins / EAG Laboratories
60	EUROLAB SRL
40	European Chemical Industry-LRI Programme
54	European Chemicals Agency
20	Exponent
19	Fera Science
53	Frontiers in Environmental Science
46	i2LResearch
39	ibacon GmbH
26	Innovative Environmental Services (IES) Ltd
4	IPO Branch Pszczyna
30	JRF Global
61	LABORATOIRES DES PYRENEES ET DES LANDES
5	Loligo Systems
14+16	MICROBIOTESTS INC. / ECOTOX LDS / EBPI
18	new_diagnostics
29	Noack Laboratorien GmbH
51	Ramboll
41	RIFCON
57	Royal Society of Chemistry
13	Scymaris
43	SGS Group
1+2	Smithers Viscient
44	Springer
32	Symbiotic Research
31	Syngenta
34+36	SynTech Research
59	TECOmedical AG
15	Thermo Fisher Scientific
37	Toxi-Coop
17	ToxRat
3	VIEWPOINT BEHAVIOR TECHNOLOGY
33	wca
58	Wiley

SETAC Europe Partners and Affiliates

SETAC Global Partners and Affiliates

SETAC Europe Award and Grant Sponsors

SETAC EUROPE JOB EVENT

Wednesday, 16 May | 8:00 a.m.–11:15 a.m. | Meeting Room 11

Exhibitors with the following symbol are participating in the Job Event, but they are also happy to discuss career possibilities with you in their booth. Do not hesitate to approach them!

The safety of YOUR PRODUCT ... as seen by:

Competent Authorities:

The Business:

NGOs:

Downstream Users:

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- Full study management
- Residue studies (field trials in collaboration with global partners)
- Analytical phases for a wide range of study types
- Analytical method development
- Method validation / ILV studies
- Storage stability studies
- Animal feeding studies
- Full range of operator exposure studies
- Soil, water and sediment characterisation

Agrochemicals & Biocides: Products

- Physico-chemical testing
- Storage stability
- Method validation
- Biocides analysis
- Formulation development support
- Photostability testing
- Batch release, certificates of analysis
- Method development or modification

Pharmaceutical Analysis

- Raw material and product analysis
- Powders, capsules, tablets, creams, gels
- Active ingredient and impurities content
- Residual volatile organic compounds determination
- QC release, certificates of analysis
- Method development including stability indicating methods
- Method transfer / Validation
- Storage stability trials to current ICH Guidelines

TECHNOLOGY

LC-MS/MS
ABSciex 4000, 5000, 5500 & 6500+ MS/MS with Agilent 1100/1260 HPLC, 1290 UPLC or Spark Holland Symbiosis HPLC System

GC & GC-MS
Agilent 6890GC with ECD, FID, NPD or 5973MSD, 7890B/5977HES. Multi-mode, headspace or thermal desorption sample introduction.

HPLC
Agilent HPLC systems with UV, MWD and DAD Detectors

OTHERS
ICP-MS
FTIR

STORAGE
Range of environmentally controlled and continually monitored temperature storage including -18°C walk-in freezers and walk-in refrigerator at 2-8° and environmentally temperature and/or humidity controlled cabinets for the conduct of accelerated and long-term storage stability studies.

SAMPLE PREPARATION
Range of equipment for preparation of all sample types e.g. fruit, vegetables, grain, soil, tissues, insects.

CEMAS is a leading, dynamic contract analytical company established in 1989 that specialises in generating GLP, GMP AND GCP compliant registration data on behalf of the pharmaceutical, agrochemical [91/414/EC (1107/2009)] and biocides (528/2012(EU BPR)) industries

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AUTHOR INDEX

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POLICIES

Code of Conduct

Members of the Society of Environmental Toxicology and Chemistry (SETAC) are expected to exhibit the highest standards of integrity and professionalism. To ensure a strong and successful organisation, our activities require honesty and equity and should reflect well on the Society. In the spirit of promoting "Environmental Quality Through Science®", members should strive to be good stewards of environmental resources and effective and objective contributors to the environmental discussion globally as well as locally.

Professional behaviour and integrity are also expected of every attendee (members and non-members alike) of SETAC meetings, workshops and activities.

Each member and all persons participating in SETAC meetings and activities are bound by this Code of Ethics and should:

- Conduct themselves responsibly, objectively, lawfully and in a non-discriminatory manner.
- Ensure that presentations during Society-sponsored events and other communications are restricted to, and based on scientific principles and made in a respectful manner.
- Respect the rights, interests, and contributions of professional colleagues.
- Respect intellectual property and provide appropriate attribution for all intellectual property arising elsewhere.
- Declare and avoid conflicts of interest.
- Not knowingly make false or misleading statement(s), or engage in activities that could be viewed as defamatory about a professional colleague or an organisation.
- Recognise and respect confidentiality while being honest and forthcoming in all issues of public record.
- Objectively and clearly communicate scientific methods, understanding and knowledge in a professional manner.
- Conduct research and related activities so as to avoid or minimise adverse environmental effects of that research, and ensure compliance with legal requirements for protection of researchers, human subjects, and research organisms and systems.

Cell Phones

Out of courtesy to our speakers and attendees, we require that all cell phones are turned off during sessions and meetings.

SETAC Forums

The aim of the forums is to initiate scientific discussions. The forums are moderated to preserve the spirit of an open, interactive, courteous, polite and respectful discussion. If misuse occurs, please contact the SETAC Europe staff.

Media Disclaimer

The Society of Environmental Toxicology and Chemistry – Europe (SETAC Europe) is hosting its 28th annual meeting from 13–17 May 2018 in Rome, Italy. With the overarching theme being "Responsible and Innovative Research and Environmental Quality", experts from academia, government and business will present the latest research about: Reducing and regulating the use of chemicals in the environment, Remediating soil, air and water pollution, Proposing the use of more sustainable chemicals.

They will present an array of environmental and human health issues and will be available to answer questions from journalists: Presentations will cover scientific topics such as pesticides, chemical risk assessment, microplastics, nanotechnology, personal care products and pharmaceuticals in the environment, endocrine disruptors, metals in the environment, environmental disasters (such as oil spills), alternatives to animal testing, science communication and many more.

How can SETAC serve you as a media representative?

- By keeping you posted through updated press releases and news updates
- By providing you with photos, videos or other supporting files when available
- By helping you arrange interviews with SETAC officers, members and presenters before or at the meeting
- In return, we expect you to:
- Wear your media badge, and identify yourself as a member of the press when you attend presentations or talk with any group or individual
- Obtain permission from the Executive Director of SETAC Europe, Bart Bosveld, and from any of the presenters or meeting registrants before you film, tape or otherwise record any of their activity or interview at this event
- Respect a presenter's or meeting participant's decision to speak with you

Any media representative who sells, markets or represents a company for purposes of obtaining advertising or subscriptions from any exhibitor or registrant will immediately forfeit press credentials for this and subsequent meetings.

Please note that conference attendees represent researchers from a variety of disciplines and sectors; The answers reflect the views of the presenter but do not imply endorsement of SETAC.

For more information on SETAC go to www.setac.org

Photo and Video Release

Photographs will be taken at the SETAC Europe 28th Annual Meeting. By registering for this meeting, you agree to allow SETAC to use your photo in any SETAC-related publication or website and video shots in SETAC communication tools.

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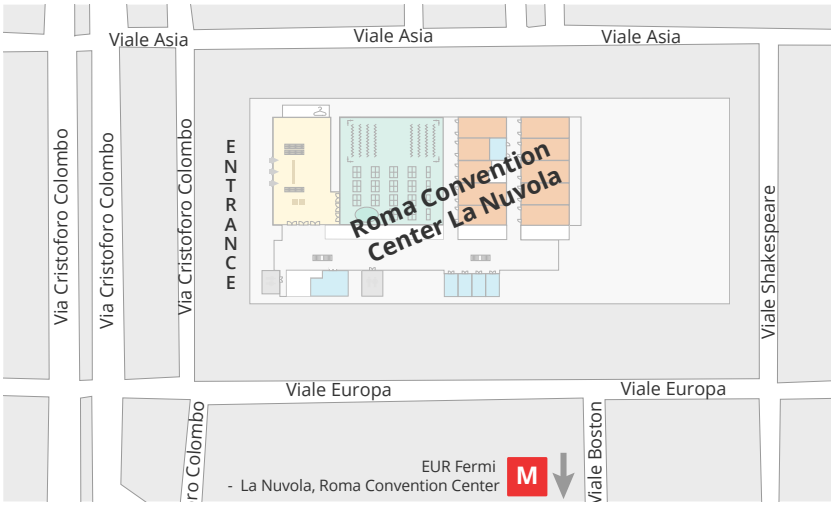
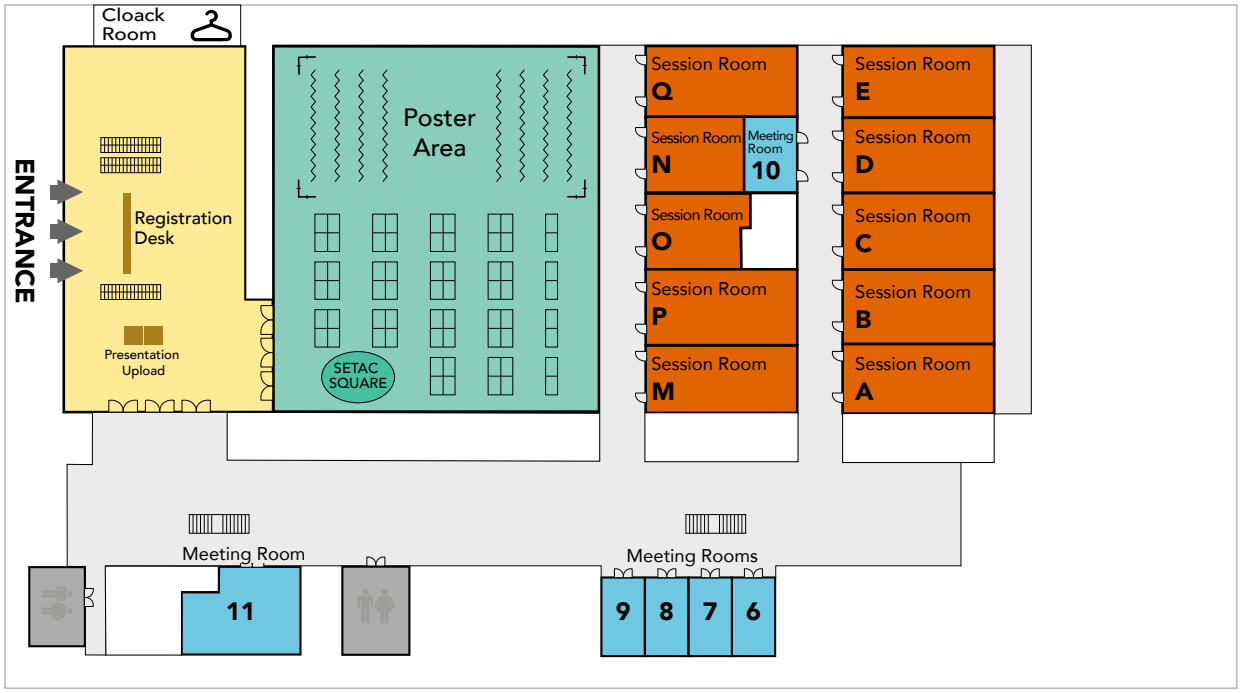
FLOOR PLAN

- Registration Area
- Exhibition Hall
- Session Rooms
- Meeting Rooms



Ground Floor



1st Floor

SETAC Europe Office

Avenue de la Toison d´Or 67
B-1060 Brussels, Belgium
T +32 2 772 72 81
F +32 2 770 53 86
setaceu@setac.org

SETAC North America Office

229 South Baylen Street, 2nd Floor
Pensacola, FL 32502, USA
T +1 850 469 1500
F +1 850 469 9778
setac@setac.org

setac.org

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Pictures: Andrea Cenni