

PRELIMINARY PROGRAMME

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WEDNESDAY, 2 FEBRUARY

Prospective Risk Assessment of Chemical Mixtures

10:00	Welcome by SETAC	Dave Arnold (SETAC Europe, BE)
10:05	Welcome by Scientific Steering Committee	Tom Hutchinson (CEFAS, UK)
10:15	Plenary: Setting the scene: Is mixtures risk assessment necessary and feasible?	Andreas Kortenkamp (School of Pharmacy, London University, UK)
11:15	Discussion	
11:35	Where is EU going on chemical mixtures?	Patrick Murphy (European Commission DG Environment, BE)
12:30	Lunch	Posters & Exhibition
13:40	Cumulative Risk Assessment in the United States	Speaker to be confirmed
14:35	Mode of Action approaches to mixtures	Joop Hermens (Utrecht University, NL)
15:30	Coffee/Tea	Posters & Exhibition
15:55	Case study 1: How to deal with combination effects in the regulatory assessment of PPPs	Lennart Weltje (BASF, DE)
16:50	Case study 2: Endocrine Disruptors in the real world	John Sumpter (Brunel University, UK)
17:45	Cocktail & Poster session	
19:00	Dinner	

THURSDAY, 3 FEBRUARY

Retrospective Risk Assessment of Chemical Mixtures

8:25	How does the WFD deal with mixtures?	Theo Brock (Wageningen University / Alterra, NL)
9:20	Eco-epidemiology as a tool for unravelling causation in the field	Scott Dyer (Procter & Gamble, US)
10:15	Coffee/Tea	Posters & Exhibition
10:35	TIE (Toxicity Identification and Evaluation) and related approaches to identify chemical mixtures in stressed ecosystems	Werner Brack (UFZ Centre for Environmental Research, DE)
11:30	Case study 3: Determining the need for cumulative risk assessments: When is REACH insufficient and by how much?	Paul Price (Dow Chemical Company, US)
12:25	Lunch	Posters & Exhibition
13:30	Mixtures in the soil environment seen in the context of the coming soil directive	Claus Svendsen & David Spurgeon (Centre for Ecology & Hydrology, UK)
14:25	The view of NGOs	Ninja Reineke (WWF European Policy Office, BE)
15:20	Open discussion: Where to go from here?	
16:30	Coffee/Tea	Farewell

Scientific Steering Committee

Tom Hutchinson, CEFAS, UK (Chair)	Tobias Frische, UBA, DE
Thomas Backhaus, Göteborg University, SE (Co-chair)	Mick Hamer, Syngenta, UK
Nina Cedergreen, University of Copenhagen, DK (Co-chair)	Marion Junghans, Swiss Center for Applied Ecotoxicology Eawag-EPFL, CH
Katrien Arijs, SETAC Europe, BE	Katja Knauer, BLW, CH
Domenica Auteri, EFSA, IT	Stuart Marshall, Unilever, UK
Audrey Barletta-Bergan, GAB Consulting GmbH, DE	Henrik Sundberg, Swedish Chemicals Agency, SE
Nathalie Chevre, University of Lausanne, CH	Helen Thompson, FERA, UK
Anja Coors, ECT Oekotoxikologie GmbH, DE	Paul van den Brink, Alterra, NL

Symposium Secretariat

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PROSPECTIVE AND RETROSPECTIVE ENVIRONMENTAL RISK ASSESSMENT OF MIXTURES

MOVING FROM RESEARCH TO REGULATION



3rd SETAC Europe
Special Science Symposium
2-3 February 2011, Hotel Marivaux, Brussels



PROSPECTIVE AND RETROSPECTIVE ENVIRONMENTAL RISK ASSESSMENT OF MIXTURES: MOVING FROM RESEARCH TO REGULATION

Chemical-analytical surveys demonstrate over and over again, that organisms in the environment are exposed to complex chemical cocktails. Also chemical products, for example pesticides or surfactants, are usually combination products comprising active ingredients, preservatives, filling agents, etc.. However, the environmental effects of chemicals are traditionally evaluated and regulated on the basis of single substances, chemical by chemical. There seems to be a developing consensus that this approach is not sufficient, especially because the toxicity of a mixture of chemicals is usually higher than each of the individual substances.

In December 2009 the EU environment ministers therefore asked the European Commission to strengthen its work on managing the risks posed by chemical mixtures. In parallel, a range of reviews, guidelines and recommendations on how to assess risks of chemical mixtures have been compiled by academic working groups as well as national, European and international bodies (e.g. WHO or EFSA).

The symposium will present a unique overview and debate on the current state of the art, the open questions and the latest developments with respect to the environmental risk assessment of mixtures. Leading experts from academia, industry, regulatory authorities and NGOs will identify key issues and discuss recommendations for future research and regulation.

Approaches to mixture risk assessment will be discussed from a retrospective as well as a prospective perspective. Retrospective approaches are implemented as Toxicity Identification and Evaluation (TIE) and eco-epidemiological studies. They aim mainly at identifying causes for observed impacts, for example in a polluted river or at a waste disposal site. Prospective studies on the other hand focus on the prediction of mixture toxicities, based on the toxicological or ecotoxicological properties of its components, which is needed for the setting of Predicted No-Effect Concentrations (PNECs) or similar environmental quality endpoints. In both types of studies, the classical mixture concepts of Independent Action (Response Addition) and Concentration (or Dose) Addition play a pivotal role. The concepts are mode of action driven and provide a frame of reference in which to evaluate the joint action of toxicants and are hence also centerpieces in all current regulatory guidelines on mixture toxicities. However, several open questions still remain that will be examined by the symposium speakers. These range from fundamental scientific issues on the applicability of the concepts for various mixture types and exposed organisms, to matters concerning the implementation of the mixture perspective into existing regulatory frameworks and to the development of appropriate environmental quality targets for chemical mixtures. The symposium aims to target regulatory frameworks such as REACH, the Water Framework Directive, the pesticide and biocide directives.

Who will benefit from this conference?

- o Risk assessors and researchers from industry, government and academia.
- o Contract research organisations and consultants offering services related to chemical risk assessment.

Why attend?

- o Get up to the minute information on the state of the art and recent developments on the environmental hazard and risk assessment of chemical mixtures.
- o Learn from and contribute to panel discussions with the speakers.
- o Be part of a great networking opportunity enabling face to face discussion with experts.
- o Play a part in the implementation process of mixture toxicity into regulation.



REGISTRATION

You can register for the symposium online via events.setac.eu.

If you register and pay before 1 November, you will benefit from a €150 reduction on the registration fee.

	Through 31 October	After 31 October
SETAC member	€590	€740
Non-member	€740	€890
SETAC student member*	€250	€250

*Student registration fees are ONLY available to SETAC student members who submit an abstract for poster presentation at the symposium

Go to www.setac.org to join SETAC and benefit from €150 reduction on your registration fee.

Registration fees include attendance at the two day symposium, buffet lunch each day, morning and afternoon coffee breaks, a cocktail reception the evening of the first day and the symposium dinner. Hotel accommodation and breakfast are not included. The symposium will be conducted in the Marivaux hotel (www.marivaux.be) in the centre of Brussels.

Posters

We welcome the submission of abstracts for posters at this symposium which will be evaluated by the steering committee. Ample time will be given during the symposium for authors to discuss their work on research related to the theme of the symposium. Please note, that your contribution should be focused on the value of your research for the possible implementation of mixture toxicity into regulatory frameworks. Submit your poster abstract online via events.setac.eu before 15 November 2010.

Exhibition

SETAC Europe invites exhibitors from contract research laboratories, research institutes, and consultancies to promote their services at this symposium. Details can be found on the website (events.setac.eu).

Sponsorship Opportunities

If your organisation is seeking either to promote its specialisms in relation to the symposium theme or to demonstrate support for SETAC, then there is an opportunity for you to sponsor this meeting. You will be recognised on symposium literature, on the symposium website and on any post symposium publications. You may also specify sponsorship such as contributions to research student attendance at the meeting.

For details either see the symposium website (events.setac.eu) or contact the SETAC Europe office.

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