16th International Fresenius ECOTOX Conference

Aquatic and Terrestrial Ecotoxicology and Risk Management

6 and 7 December 2016 in Mainz/Germany

Highlights

Scientific and political developments
- Regulatory developments in environmental risk assessment in Brazil
- Achievements and current developments in the Central Zone – AGES perspective

Guidance and opinions
- EFSA guidance and ECHA activities in the area of ecotoxicology and risk management
- EFSA update on PPR Scientific Opinion on environmental risk assessment (ERA) for in-soil organisms

Terrestrial and soil
- The outcome of the SETAC workshop on ERA for non-target terrestrial plants
- Optimizing environmental risk assessments for pesticides

Bees and pollinators
- Pollinator risk assessment – A member state perspective by ANSES

Biodiversity and Agriculture
- EFSA on Biodiversity as protection goal in ERA for EU agroecosystems

Aquatics
- Effects of sediment-spiked lufenuron on benthic macro-invertebrates

Modelling
- Latest update on the ecotox-module of the BEEHAVE-model
- Landscape-scale simulation for environmental risk assessment

The Experts

Maria Arena European Food Safety Authority (EFSA) | Gertie H.P. Arts Alterra/Wageningen University and Research Centre | Theo Brock Alterra/Wageningen University and Research Centre | Mark A. Cloak British Health and Safety Executive Chemicals Regulation Directorate (CRD, HSE) | Mike Coulson Syngenta | Jo Davies Syngenta | Peter Dohmen BASF | Carmen Elphick British Health and Safety Executive Chemicals Regulation Directorate (CRD, HSE) | Andreas Focks Alterra/Wageningen University and Research Centre | Patrick Kabouw BASF | Wolfgang Krämer Austrian Agency for Health and Food Safety (AGES) | Alastair Leake British Game & Wildlife Conservation Trust | Lorraine Maltby The University of Sheffield | Juan Pascual BASF | Véronique Poulsen French Agency for Food, Environmental and Occupational Health Safety (ANSES) | Rafaele Rebelo Brazilian Institute for the Environment and Renewable Natural Resources (IBAMA) | Reinhilde Schoonjans European Food Safety Authority (EFSA) | Balthasar Smith German Federal Office of Consumer Protection and Food Safety (BVL) | Keith Solomon University of Guelph | Pernille Thorbek Syngenta | Christopher John Topping Aarhus University
The Programme

Get-Together on Monday, 5 December 2016
Will you arrive on Monday? Come to the hotel bar at 8 p.m. and meet other participants and experts in a relaxed atmosphere.

Tuesday, 6 December 2016

8.30 Registration and coffee
9.00 Welcome address by Akademie Fresenius and introduction by the Chair
Peter Dohmen, BASF, Germany

Science & Politics: Global

9.10 Regulatory developments in environmental risk assessment in Brazil – an update
• New regulations for bees
• Development of risk assessment for aquatic organisms
Rafaela Rebelo, Brazilian Institute for the Environment and Renewable Natural Resources (IBAMA), Brazil

9.35 Pesticide risk assessment and PBTs: Exposure matters
• Exposure as key components of risk assessment
• Examples from pesticides such as glyphosate in relation to the conclusion of IARC and the herbicide pendimethalin in relation to PBTs
• Long range transport and its relevance to exposure: cyclic methyl siloxanes
Keith Solomon, University of Guelph, Canada

9.45 Coffee break
10.00 Panel discussion
10.30 Panel discussion

Science & Politics: EU

11.00 Overview on on-going activities of EFSA Pesticides Unit in the area of ecotoxicology
• Aquatic compartment
• Terrestrial compartment
Maria Arena, European Food Safety Authority, (EFSA), Italy

11.25 ECHA’s activities in the area of ecotoxicology and risk management: Interlinks across legislation
Representative of ECHA, European Chemicals Agency (ECHA), Finland

11.50 Risk Management within the EU: Is harmonisation in sight? A German perspective
• Interaction between risk assessment and management
• Harmonisation of mitigation measures
Balthasar Smith, Federal Office of Consumer Protection and Food Safety (BVL), Germany

12.15 Panel discussion
12.45 Lunch

Modelling

13.45 Effect modelling as a tool in regulatory risk assessment
• TK/TD modelling of individual level effects
• Population level effect and recovery modelling
• Food-web modelling for bioaccumulation assessment
Andreas Focks, Alterra/Wageningen University and Research Centre, The Netherlands

14.10 An ecotoxicological module for BEEHAVE to link standard laboratory tests to colony dynamics
• Parametrisation of the module with standard laboratory bee tests
• Representation of exposure outside/inside the hive
• Prediction of colony level effects e.g. on number of workers or brood
Pernille Thorbek, Syngenta, United Kingdom

14.35 Landscape-scale simulation for ERA
• Introduction to landscape level simulation and ERA, methodology and data requirements
• Changes of ERA focus at landscape scales – some examples from ALMaSS simulations
• Future challenges & opportunities
Christopher John Topping, Aarhus University, Denmark

15.00 Panel discussion
15.30 Coffee break

Aquatics, Birds, Mammals

16.00 Effects of sediment-spiked lufenuron on benthic macro-invertebrates in single-species tests and outdoor microcosms: verifying the EFSA proposal for sediment ERA
• Introduction to EFSA approaches for effect assessment of pesticides on sediment organisms and the benchmark insecticide lufenuron
• Concentration-response relationships of lufenuron on benthic macro-invertebrates in sediment-spiked outdoor microcosms and laboratory single species tests
• Exploring the validity and protectiveness of the tiered effect assessment approach for sediment organisms
Theo Brock, Alterra/Wageningen University and Research Centre, The Netherlands

16.25 An HSE perspective: Update on regulatory issues
• Outline initial thoughts on aquatic formulation testing
• Why is it required? What is required?
• Update on other ecotoxicological regulatory issues
Carmen Elphick, Health and Safety Executive Chemicals Regulation Directorate (CRD, HSE), United Kingdom
Wednesday, 7 December 2016

8.30 Welcome address by the Chair
Mark A. Clook, Health and Safety Executive Chemicals Regulation Directorate (CRD, HSE), United Kingdom

Terrestrial & Soil

8.40 Draft Scientific Opinion addressing the state of the science on risk assessment of plant protection products for in-soil organisms
- Proposals for specific protection goals for in-soil organisms
- Effect assessment and main outcomes of the public consultation on the draft Scientific Opinion

Maria Arena, European Food Safety Authority (EFSA), Italy

9.05 Protecting the black box of soil – optimizing environmental risk assessments for pesticides
- Protection goals: What, where, and when to protect
- Sense and simplicity: A correctly calibrated tier 1 trigger
- Intermediate and higher tier testing

Patrick Kabouw, BASF, Germany

9.30 An ecosystem services approach to pesticide risk assessment and management of non-target terrestrial plants: recommendations from two SETAC Europe workshops
- Assessing risks to non-target terrestrial plants
- Protectiveness of standard test species for wild species

10.50 Coffee break

Bees & Pollinators

11.20 Pollinator risk assessment: A member state perspective
- Differences and similarities between national and European level
- Future evolutions and needs for improvement

Véronique Poulsen, French Agency for Food, Environmental and Occupational Health Safety (ANSES), France

11.45 An Industry update on bees and pollinators
Mike Coulson, Syngenta, United Kingdom

12.10 Panel discussion
12.40 Lunch

Biodiversity & Agriculture

13.40 Biodiversity as protection goal in ERA for EU agro-ecosystems
- Specifying protection goal options
- Endangered species and ecological recovery

Reinhilde Schoonjans, European Food Safety Authority (EFSA), Italy

14.05 Biodiversity, ecosystem service and protection goals: Where do we go from here?
Lorraine Maltby, The University of Sheffield, United Kingdom

14.30 Intensive agriculture and environmental conservation: Mutually incompatible?
- Soil degradation and erosion
- Wildlife recovery

Alastair Leake, Game & Wildlife Conservation Trust, United Kingdom

14.55 Final discussion
15.20 End of the conference
The Experts

Maria Arena has a background in environmental sciences and has been a Scientific Officer at the EFSA for almost 5 years. In her current work she supports the EFSA Panel on Plant Protection Products and their Residues (PPR) in the development of new Guidance Documents for the Environmental Risk Assessment of Pesticides.

Gertie H.P. Arts holds a PhD in Natural Sciences and works at Alterra as a Senior Ecologist and Ecotoxicologist in the Environmental Risk Assessment team. She is involved in ecological and ecotoxicological studies and risk assessment for organic contaminants, aquatic macrophyte and plant ecology and ecotoxicology.

Theo Brock is employed at Alterra (Wageningen University and Research Centre) to scientifically underpin the prospective environmental risk assessment procedures for pesticides and other contaminants in freshwater ecosystems. Currently he is Vice-chair of the PPR Panel of the European Food Safety Authority (EFSA).

Mark A. Cloock has worked for CRD-HSE and its’ predecessor (PSD) for over 25 years and has been involved in many activities related to ecotoxicological risk assessment. His latest involvement was in the EFSA Guidance Document on bees.

Mike Coulson is a Principal Technical Expert at Syngenta and can draw on 30 years of experience within the bee and non-target arthropod testing and assessment area.

Jo Davies originally qualified as an Agricultural Botanist and is a Senior Technical Expert in Environmental Safety at Syngenta, UK. She is also a member of the Steering Committee of the SETAC Global Plant Advisory Group.

Peter Dohmen is Senior Ecotoxicologist at the Agricultural Research Centre of BASF, Limburgerhof/ Germany.

Carmen Elphick works for the Chemicals Regulation Directorate (CRD) as part of the UK Health and Safety Executive (HSE). She has been involved in evaluating first and higher tier ecotoxicological studies and has also taken part in several technical meetings with applicants as well as EFSA peer review meetings.

Andreas Focks is an Ecological Modeller at the Research Institute Alterra, as part of Wageningen University and Research Centre in the Netherlands. He works on mechanistic modelling and statistical analysis of effects of chemical stressors on the biotic environment, at levels of individuals, populations and communities.

Patrick Kabouw has been an Ecotoxicologist at BASF for 5 years. He is responsible for ecotoxicological risk assessment of plant protection products. At BASF he contributes to advances in soil risk assessment and chairs the ECPlA soil advisory group.

Wolfgang Krämer is a Senior Ecotoxicologist and deputy head of the Department for Ecotoxicology and Efficacy of the Austrian Agency for Health and Food Safety. He has many years of experience in environmental risk assessment.

Alastair Leake has a BSc in Horticultural Science and PhD in Organic and Integrated Farming Systems. He now heads up the 300ha Allerton Research and Demonstration farm in Leicestershire, where high yield farming and exceptional levels of biodiversity co-exist.

Lorraine Malby is Professor of Environmental Biology at the University of Sheffield and has over 30 years research experience in aquatic ecology and ecotoxicology. She is currently a member of the ECETOC Scientific Committee and the UNEP Scientific Expert Group on Chemicals and the Environment.

Juan Pascual is currently Team Leader for the area of birds and wild mammals at BASF. He has several years of research experience on effects of PPRs on birds while working in public institutions in Spain and the UK.

Véronique Poulsen is a Senior Ecotoxicologist and heads the Ecotoxicology and Environmental Fate Unit in the Regulated Products Department at ANSES in France. She has been involved in risk assessment for several years, starting at INERIS/BERPC, before joining AFSSA/ANSES in 2006.

Rafaela Rebelo is a Pharmacist, working as Environmental Analyst for IBAMA since 2005. Currently she is Coordinator of the Chemicals Control and Hazardous Products Division, which is responsible for reevaluation of pesticides and environmental risk assessment practices.

Reinhilde Schoonjans is a Molecular Biologist, holding a PhD from the University of Ghent. She is a Risk Assessment Scientist at the European Food Safety Authority since 2005. She coordinates the work on environmental risk assessment and chairs the EFSA network on nanomaterials in agrifood/feed products.

Balthasar Smith is an Executive Officer in the Department Plant Protection Products of the German Federal Office of Consumer Protection and Food Safety since 2004. His tasks include risk management of fungicides within the authorisation procedures of plant protection products, but also the development of new risk mitigation measures.

Keith Solomon is Professor Emeritus at the University of Guelph and Director of the Centre for Toxicology. He has conducted research on exposures to pesticides and on the fate and effects of pesticides and other chemicals in the environment.

Pernille Thorbek has been an Ecological Modeller at Syngenta for 13 years where she applies models to ecological risk assessments of plant protection products. She was part of the team that developed BEEHAVE and has co-authored several papers on honeybee modelling.

Christopher John Topping is Center Leader at the Department of Bioscience at Aarhus University, responsible for the area of individual-based and social-ecological systems modelling, primarily for risk/impact assessment and wildlife management. He is a member of EFSA’s PPR Panel and various EFSA Workgroups.
Who do you meet?

Groups that should take part:
Managing directors, boards of directors, managers, consultants and scientists in the fields of
• Research & development
• Human exposure & risk assessment
• Toxicology
• Registration
• Marketing & distribution
• Product stewardship & responsible care
• Human & consumer safety

Sectors that should take part:
• Agrochemical industry
• Research institutes
• Authorities
• Professional associations
• Contract laboratories

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Our conference provides you with the opportunity of presenting your company in a trade display. Present your products and services and reach out to your specific target groups. We would be happy to provide you with information on all the various options available – from displaying product information to an exhibition stand – with no further obligation on your part. Use the attached fax reply sheet to request our information material. Or simply call us. We would be more than pleased to assist you personally.

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Do you have any questions?

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📅 1 and 2 December 2016 in Mainz

4th International Fresenius Conference:
„Worker, Operator, Bystander and Resident Exposure and Risk Assessment“
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Participation

☐ I would like to take part in the 16th International Fresenius Conference "Aquatic and Terrestrial Ecotoxicology and Risk Management", 6 to 7 December 2016 in Mainz/Germany. Fee: € 1,895.00 plus VAT.

☐ I am a representative of an authority or a public university and therefore eligible for a reduced fee of € 795.00 plus VAT per person (please provide evidence). The reduced fee cannot be combined with other rebates.

☐ I would like to take part in the evening event on 6 December 2016 (included in the above price).

Event Documentation

☐ Unfortunately, I am unable to attend. Please send me the complete documentation for € 295.00 plus VAT.

Trade Exhibition

☐ Please send me information on available options for trade exhibitions and presenting product information.

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The registration fee includes the event participation, event documentation, lunch, coffee breaks, beverages as well as the evening event. You will receive written confirmation of your registration. Upon receiving our invoice, please transfer the amount due without further deductions before the event begins.

The price of the conference documentation includes a hard copy of the documentation as well as an access code to the secure Akademie Fresenius download area. Both the documents and the secure access code will be dispatched around two weeks after the event and as soon as advance payment has been received.

Group discount
For joint bookings received from one company we grant a 15% discount from the third participant onwards.

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Venue

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