18th International Fresenius ECOTOX Conference

Aquatic and Terrestrial Ecotoxicology and Risk Management

29 and 30 November 2018 in Mainz/Germany

Highlights

Simplification vs Complexity
- KEMI on rationalising environmental risk assessment
- Industry perspective on how to address calls for simplification within the framework of complex regulatory guidance

Protection Goals
- Competent authority view on the challenges to implement protection goals in risk assessment and risk management

Global Regulatory Developments
- Overview of the regulatory developments in China

Endocrine Disruptors
- The new ECHA/EFSA ED guidance document

New Developments in European Discourse
- Toxicokinetic/Toxicodynamic effect modelling for the regulatory risk assessment of pesticides for aquatic organisms
- ANSES on the testing of soil macro organisms in field
- Priorities in regulatory risk assessment for pesticides and water organisms

Methods: Radio-tracking
- A UK view on the interpretation and use of radio-tracking data from HSE
- The use of collars in terrestrial and GPS radio-tracking

The Experts

Get-together on Wednesday, 28 November 2018
Will you arrive on Wednesday?
Come into the hotel bar at 8 p.m. and meet other participants and experts in a relaxed atmosphere.

Thursday, 29 November 2018

8.30  Registration and coffee

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

Simplification vs Complexity

9.10  Can we rationalise the environmental risk assessments of plant protection products?
• Opportunities to rationalise risk assessment
• Dialogue-based improvement of risk management
Johan Axelman, Swedish Chemicals Agency (KEMI), Sweden

9.35  Building bridges: Reducing complexity in risk assessment by integration with risk management?
• A systems-based view on pesticide risk assessment
• Examples for complex, higher tier ecotoxicological studies
• The possible role of science in future higher tier risk assessment
• Part of possible improvements: Synergies between risk assessment and risk management
Andreas Focks, Wageningen University and Research, The Netherlands

10.00  Industry perspective: How to address calls for simplification of PPP risk assessments when emerging regulatory guidance gets increasingly complex
• Overview of evolution of complexity in risk assessment regulatory guidance
• Complexity: The advantages and disadvantages
• Kemi proposal for simplification
• Combining both simplification and complexity in a tiered approach
Peter Campbell, Syngenta, United Kingdom

10.25  Panel discussion
10.55  Coffee break

Protection Goals

11.25  Challenges to implement protection goals in risk assessment and risk management
• Protection goals in the legal framework
• Application to risk assessment and risk management
• Challenges to implement protection goals
Achim Gathmann, Federal Office of Consumer Protection and Food Safety (BVL), Germany

11.50  Setting specific protection goals for environmental risk assessment under the EU-PPP directive – an industry point of view
• Ecosystem services and protection goals
• What can we learn from the bees GD?
• Risk assessment and risk management tasks
• Risk communication – quantitative and expert judgement elements
Kees Romijn, ECPA Environmental Expert Group, Germany

12.15  How to combine efficient food production and pollinator protection – what needs to be protected where and when
Noa Simón Delso, Centre Apicole de Recherche et Information (CARI), Belgium

12.40  Panel discussion
13.10  Lunch

Global Regulatory Developments

14.40  Regulatory developments in China
• Overview of the pesticide management in China
• Environmental risk assessment in China
Yanming Zhou, Institute for the Control of Agrochemicals (ICAMA), Ministry of Agriculture, People’s Republic of China

Endocrine Disruptors

15.05  Endocrine disruption in ecotoxicology: The new ECHA/EFSA ED guidance document
• First experiences
• Testing strategies
• Population relevance
Lennart Weltje, BASF, Germany

15.30  Panel discussion
16.00  Coffee break

New Developments in European Discourse

16.30  Toxicokinetic/Toxicodynamic effect modelling for the regulatory risk assessment of pesticides for aquatic organisms
• Regulatory background
• Overview of TKTD models
• Requirements and criteria for the calibration and validation of TKTD models
• Example application for GUTS
• Chances and constraints of TKTD modelling
Andreas Focks, Wageningen University and Research, The Netherlands
16.55 TKTD modelling for aquatic and terrestrial organisms

- Methods for predicting survival, growth, reproduction and other sublethal endpoints
- Exposure for terrestrial organisms considering movement and feeding patterns
- Options for addressing some of the remaining challenges

Pernille Thorbek, BASF, Germany

17.20 Panel discussion
17.50 End of the first conference day
18.50 Departure time for the evening event

As always, you are most welcome to attend our evening event, which will take us to the former monastery named “Wasem Kloster Engelthal”. We will have a short tour of the wine cellar and afterwards we will enjoy a dinner and have time to continue the day’s interesting conversations in a relaxed atmosphere. Don’t miss out on this opportunity!

Friday, 30 November 2018

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

9.10 Testing of soil macro organisms in field: Dealing with the community in a regulatory context

- Regulatory scheme for risk assessment of soil organisms
- Field study: Guideline and recommendations
- Example of application with a case study

Yannick Bayona, French Agency for Food, Environmental and Occupational Health and Safety, France (ANSES)

9.35 Priorities in regulatory risk assessment for pesticides and water organisms

- Specific protection goals; linking exposure to effects
- Calibration of the tiered approach
- Spatial-temporal extrapolation

Theo Brock, Wageningen University and Research, The Netherlands

10.00 Mixing and matching – exposure scenarios in a fully flow-through mesocosm

- The configuration and capabilities of the E-Flows mesocosm
- Validating the flow parameters in a large-scale flow-through mesocosm
- Mixing, consistency and control of exposure profiles
- Exposure endpoints – what do regulators need?

Rachel Benstead, Fera Science, United Kingdom

10.25 Updates on the ecotoxicological risk assessment of biopesticides

- Relevant data requirements for different biopesticide groups
- Interpretation of existing guidance and test guidelines
- Challenges versus solutions

Elizabeth Collison, APC, United Kingdom

10.50 Panel discussion
11.20 Coffee break

Methods: Radio-tracking

11.50 Appropriate PT estimates for vertebrate risk assessment – what does radio-tracking actually reveal?

- Purposes of the radio-tracking techniques for environmental risk assessments
- PT as ‘Proportion of potentially time foraging’ and ‘Proportion of diet obtained from treated area’
- Diverse empirical PT data and PT estimate calculations for environmental risk assessments

Jan-Dieter Ludwigs, RIFCON, Germany

12.15 Interpretation and use of radio-tracking data – a UK view

- Interpretation and use of radio-tracking data in regulatory risk assessment for pesticides
- How to use data from multiple tracking sessions and options for the future

Michael Fryer, Health and Safety Executive, Chemicals Regulation Division (HSE, CRD), United Kingdom

12.40 Into the sky – from terrestrial to GPS radio-tracking in ecotoxicological field studies

- The use of terrestrial radio collars
- GPS collars: Advantages and disadvantages
- Tracking data and calculation of PT-values

Olaf Fuelling, tier3 solutions, Germany

13.05 Panel discussion
13.35 Lunch and end of the conference
The Experts

**Johan Axelman** is a Biologist and Environmental Chemist and has been working as a Strategic Adviser at the Swedish Chemicals Agency (KEMI) with a focus on improving the quality and efficiency of environmental risk assessments and risk management of plant protection products since 2015.

**Yannick Bayona** is an Ecotoxicological Risk Assessor in the Regulated Products Department at ANSES in France. After his PhD on the effects of chemicals at the aquatic communities scale in mesocosms, he joined ANSES in 2015.

**Rachel Benstead** is Senior Aquatic Ecotoxicologist at the Centre for Chemical Safety and Stewardship at Fera Science. Her role involves both the direction of aquatic studies for regulatory purposes, and the continued development and improvement of approaches in this field.

**Theo Brock** is employed at Wageningen University and Research to scientifically underpin the prospective environmental risk assessment procedures for pesticides and other contaminants in freshwater ecosystems. Until June 2018 he was the Vice-Chair of the PPR Panel of the European Food Safety Authority (EFSA).

**Peter Campbell** is Principal Lead Environmental Safety at Syngenta and has 25 years of working experience in regulatory ecotoxicology within both the regulatory authority and industry sectors. Peter is a long-standing member of the ECPA Environmental Expert Group and the current Chair of the ECPA Pollinator Team.

**Mark A. Clook** has worked for CRD-HSE and its’ predecessor (PSD) for over 25 years and has in that time been involved in many activities related to ecotoxicological risk assessment. His latest involvement was in contributing to the EFSA guidance document on bees.

**Yanming Zhou** is an Analytical Chemist and has been working in the Environment Division of the Chinese Institute for the Control of Agrochemicals (ICAMA), Ministry of Agriculture, since 2010. He is responsible for environmental fate and modelling and takes part in the development of the Chinese environmental risk assessment guidance.

**Jan-Dieter Ludwigs** is currently responsible for business development at RIFCON. He has a PhD in avian ecology and ethology and has been working in the area of regulatory and field study based ecotoxicology for consultancies and industry for more than 15 years.

**Elizabeth Collison**, PhD, joined APC as an Ecotoxicologist in January 2018. She has several years of consultancy experience in the environmental risk assessment of conventional and microbial plant protection products (PPPs) and biocides, including data gap analysis, study monitoring and dossier preparation.

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

**Andreas Focks** is an Ecological Modeller at Wageningen Environmental Research, as a part of Wageningen University and Research in the Netherlands. His work focusses on mechanistic modelling and statistical analysis of effects of chemical stressors on the biotic environment, at levels of individuals, populations and communities.

**Michael Fryer** has been a Regulatory Ecotoxicologist at the UK Health and Safety Executive (Chemical Regulation Division) for 9 years. He participated in the Pesticide Steering Network meeting for the corrigendum of the aquatic guidance document and multiple Pesticide Peer Review Experts’ meetings.

**Olaf Fuelling** has been a Senior Expert on mammal ecology at tier3 solutions in Germany since 2014 and has supervised several wild mammal field studies for pesticide registration as Study Director. Previously, he was working as a scientist at Universities in Germany, Sweden and Switzerland.

**Pernille Thorbek** is an Ecological Modeller at BASF. She has over 15 years of experience of developing and applying models to ecological risk assessments of plant protection products.

**Lennart Weltje** holds a PhD in ecotoxicology and environmental chemistry and currently works as a Senior Ecotoxicologist at BASF conducting risk assessments for PPPs and biocides. His former stations include the Dutch National Institute for Public Health and the Environment (RIVM).

**Noa Simón Delso** is a Veterinarian and Researcher and has been working at the Belgian CARI (Centre Apicole de Recherche et Information) since 2009. She provides scientific-technical advice to the association Bee Life European Beekeeping Coordination.

**Kees Romijn** is Chair of the ECPA Environmental Expert team. He spent part of his 25 years-career in various functions around ecotoxicology and environmental risk assessment, and the other part in regulatory affairs. Interaction between policy and science is his personal interest.

**Mark A. Clook** has worked for CRD-HSE and its’ predecessor (PSD) for over 25 years and has in that time been involved in many activities related to ecotoxicological risk assessment. His latest involvement was in contributing to the EFSA guidance document on bees.

**Arch Gathmann** is the Head of the Unit Environment in the Department of Plant Protection Products at the German Federal Office of Consumer Protection and Food Safety (BVL). He holds a PhD in biology and his key qualifications are agroecology, plant protection, biological control, risk assessment and risk management of PPPs and GMOs.
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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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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The Organiser
For over 20 years, Akademie Fresenius has been your partner for practice-orientated training on all the latest topics surrounding the safety and quality of food, consumer goods and chemical products along the whole production chain. Our portfolio not only includes international conferences but also offers national trade meetings, intensive practical seminars and training in small work groups.

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Do you have any questions?

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Terms of Participation and Purchase
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.

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Participation
- I would like to take part in the 18th International Fresenius ECOTOX Conference "Aquatic and Terrestrial Ecotoxicology and Risk Management", 29 and 30 November 2018 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 29 November 2018 (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 exhibition and presenting product information.

Venue
Atrium Hotel Mainz
Flugplatzstraße 44, 55126 Mainz/Germany
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We have reserved a limited number of rooms for our participants at reduced rates at the hotel. These rooms can be booked up to four weeks prior to the start of the event. Please book early and directly through the hotel quoting "Fresenius" as reference.