



23rd International Akademie Fresenius AGRO Conference

Behaviour of Pesticides in Air, Soil and Water

+++ ONLINE CONFERENCE +++

15 and 16 June 2021

Highlights

Regulatory issues

- European Commission update on Regulation (EC) No 1107/2009
- EFSA's development work in the environmental area
- Harmonisation updates in the Northern, Central and Southern zones
- FOCUS repair action
- FOCUS degradation kinetics guidance
- Higher tier approaches to drainflow
- Update from Health Canada

Environmental fate

- Plant uptake of neutral and ionisable substances
- HardSPEC: Updates and current status

Exposure, risk assessment and mitigation

- Monitoring of pesticides and indications for risk assessment
- Update of the SETAC Spatially Distributed Leaching Modelling working group
- Atmospheric entries and deposition of plant protection products by volatilisation
- Update on the SETAC DRAW arable crop drift database and its use
- Landscape scale aquatic risk assessment
- Mitigation of surface runoff pesticides with vegetative filter strips



The Experts

Paulien Adriaanse Wageningen University and Research | **Colin Brown** University of York | **Andrew Chapple** Bayer Crop Science Division | **Joachim Dayteg** Austrian Agency for Health and Food Safety (AGES) | **Mark Egsmose** European Food Safety Authority (EFSA) | **Emilie Farama** French Agency for Food, Environmental and Occupational Health and Safety (ANSES) | **Juhan Heima** Estonian Agriculture and Food Board | **James Hingston** UK Health and Safety Executive, Chemicals Regulation Division (CRD) | **Kristina Hitzfeld** German Environment Agency (UBA) | **John Hollis** | **Christopher Leake** Bayer Crop Science Division | **Rafael Muñoz-Carpena** University of Florida | **Anna Peters** German Federal Office of Consumer Protection and Food Safety (BVL) | **Anton Poot** Dutch Board for the Authorisation of Plant Protection Products and Biocides (Ctgb) | **Carmel Ramwell** Fera Science | **Michael Stemmer** Austrian Agency for Health and Food Safety (AGES) | **Stefan Trapp** Technical University of Denmark (DTU) | **John N. Westgate** Health Canada's Pest Management Regulatory Agency (PMRA) | **Mark Williams** European Commission | **Louise Wipfler** Wageningen University and Research

Morning Session 10:45 – 13:15 CEST

Welcome address by Akademie Fresenius and introduction by the Chairs

Christopher Leake, Bayer Crop Science Division, Germany
Colin Brown, University of York, UK

Regulatory issues

EFSA's development work in the environmental area in relation to guidance documents, scientific opinions and statements for risk assessment of plant protection products

Mark Egsmose, European Food Safety Authority (EFSA), Italy

Update on the developments of the

- FOCUS Degradation Kinetics Guidance
- Guidance on Aged Sorption
- Software tools for the Guidance on PEC soil

Michael Stemmer, Austrian Agency for Health and Food Safety (AGES), Austria

The 'repaired' EFSA FOCUS surface water scenario: Ready to be released

- Current status of the software
- Example calculations to demonstrate robustness of PEC_{sw} values
- Worst-caseness of PEC_{sed} values

Paulien Adriaanse, Wageningen University and Research, The Netherlands

Higher tier approaches to drainflow in the UK

James Hingston, Health and Safety Executive, Chemicals Regulation Division (CRD), UK

Afternoon Session 14:15 – 16:30 CEST

Northern zone view, update 2021

Juhan Heima, Agriculture and Food Board, Estonia

Environmental risk assessment in the Central zone – status quo and open points

Joachim Dayteg, Austrian Agency for Health and Food Safety (AGES), Austria

Feedback from France on risk assessment in the Southern zone

Emilie Farama, Agency for Food, Environmental and Occupational Health and Safety (ANSES), France

Developments in environmental assessments in Canada – an update from the water modelling group at Health Canada

John N. Westgate, Health Canada's Pest Management Regulatory Agency (PMRA), Canada

How will this online conference work?

Our online conference will be live – with interactive participation – and will be held in the English language. Prior to the conference, we will provide you with your login details which will allow you to participate and ask questions from your preferred location. All you need is a stable internet connection and an audio hardware system – and away you go!



Morning Session 10:45 – 13:15 CEST

Afternoon Session 14:15 – 16:45 CEST

Regulatory issues

Regulation (EC) No 1107/2009 update and on-going activities

Mark Williams, European Commission, Belgium

Environmental fate

Plant uptake of neutral and ionisable substances

Stefan Trapp, Technical University of Denmark (DTU), Denmark

HardSPEC: Updates and current status

- Re-coding of the model into Matlab and analysis of model sensitivity and uncertainty
- Resulting changes and “bug fixes”
- Impact of the changes on PEC’s for the standard compounds in each scenario
- Current status: Updated version of spreadsheet; future Matlab version

John Hollis, UK, and Carmel Ramwell, Fera Science, UK

Exposure, risk assessment and risk mitigation

Monitoring of pesticides in small streams in the German agricultural landscape – indications for risk assessment

- Results of the pilot study “Kleingewässermonitoring”
- UBA perspective
- Possible reasons for the high number of exceedances
- Consequences for plant protection products regulation

Kristina Hitzfeld, German Environment Agency (UBA), Germany

Update of the SETAC SDLM working group – an initiative to develop a harmonised framework for spatially distributed leaching modelling of pesticides

- Structure of SETAC working group
- Regulatory aspects
- Input data (spatial/temporal)
- Modelling requirements

Anton Poot, Dutch Board for the Authorisation of Plant Protection Products and Biocides (Ctgb), The Netherlands

Atmospheric entries and deposition of plant protection products by volatilisation: Challenges, risk mitigation measures and other possible solutions

- Current situation in Germany
- Situation in selected other countries
- Spray drift, deposition, dust drift
- Summary of actions and possible actions

Anna Peters, German Federal Office of Consumer Protection and Food Safety (BVL), Germany

Update on the SETAC DRAW arable crop drift database and its use to calibrate and validate a new arable crop drift model, including an overview of a new tiered approach to arable crop drift risk assessment

Andrew Chapple, Bayer Crop Science Division, Germany

Landscape scale aquatic risk assessment

- Integrated risk assessment from agronomic practices to ecological effects
- Increasing the level of realism using a modelling approach
- How to assess the aquatic risk and which endpoints could be used?

Louise Wipfler, Wageningen University and Research, The Netherlands

Mitigation of surface runoff pesticides with vegetative filter strips in long-term exposure assessments: Mechanistic analysis with VFSSMOD

- Surface pesticides
- Mitigation
- Long-term exposure assessments
- Risk analysis and modelling

Rafael Muñoz-Carpena, University of Florida, USA

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Do you have any questions?



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Akademie Fresenius is a joint venture between Cognos, one of the largest private and independent education groups in Germany, and SGS Institut Fresenius, one of the leading German providers of chemical laboratory analysis.

You can find details on upcoming and new events at www.akademie-fresenius.com

Who do you meet?

Professionals working in the field of:

- ✓ Environmental behaviour
- ✓ Field inspection
- ✓ Research & development
- ✓ Legal & regulatory affairs
- ✓ Registration
- ✓ Ecotoxicology
- ✓ Exposure & risk assessment
- ✓ Monitoring & computer
- ✓ Modelling

Sectors taking part:

- ✓ Agrochemical industry
- ✓ Research institutes from the area of agriculture, soil, hydrology and air
- ✓ Authorities (agricultural inspection offices, registration and control authorities)
- ✓ Water supply enterprises
- ✓ Professional associations

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