



21<sup>st</sup> International Fresenius AGRO Conference

# Behaviour of Pesticides in Air, Soil and Water

25 and 26 June 2019  
in Mainz/Germany

## Highlights

### Regulatory issues

- Regulation (EC) No 1107/2009 update from the European Commission
- Risk assessment in the Southern zone
- View from the Central zone
- Updates on the Northern zone Guidance Document
- Guidance for aged sorption of pesticides in soil
- The new EFSA PEC soil guidance
- EFSA Repair action of the FOCUS surface water scenarios
- FOCUS Degradation Kinetics Guidance Document

### Environmental fate

- Modelling in catchments of the Rhine basin
- Integrated modelling of pesticide fate in agricultural landscapes
- Environmental fate in ecological risk assessment in Canada

### Exposure, risk assessment and mitigation

- Aquatic exposure assessment of pesticides in Latin America
- Evaluation of the Dutch crop protection policy
- Groundwater monitoring in Germany
- European regulatory network on pesticide groundwater monitoring
- Strategies for derivation of drift profiles
- Coupling pesticide fate and effect models: Challenges for the fate modelling community



## The Experts

**Paulien Adriaanse** Wageningen University & Research | **Roman Ashauer** Syngenta | **Sabine Beulke** Enviresearch | **Arnaud Boivin** French Agency for Food, Environmental and Occupational Health and Safety (ANSES) | **Colin Brown** University of York | **Andrew Chapple** Bayer Crop Science Division | **Joachim Dayteg** Austrian Agency for Health and Food Safety (AGES) | **James Hingston** UK Health and Safety Executive, Chemicals Regulation Division (CRD) | **Bernhard Jene** BASF | **Dennis Kalf** Dutch Ministry of Infrastructure and the Environment | **Igor Kondzielski** Institute of Environmental Protection – Polish National Research Institute | **Christopher Leake** Bayer Crop Science Division | **Tim MacDonald** Health Canada's Pest Management Regulatory Agency (PMRA) | **Karin Nienstedt** European Commission | **Cathrine Skaar Hoel** The Norwegian Food Safety Authority (Mattilsynet) | **Christian Stamm** Swiss Federal Institute of Aquatic Science and Technology (Eawag) | **Michael Stemmer** Austrian Agency for Health and Food Safety (AGES) | **Aaldrik Tiktak** PBL Netherlands Environmental Assessment Agency | **Wiebke Tüting** German Federal Office of Consumer Protection and Food Safety (BVL) | **Harry Vereecken** Forschungszentrum Jülich | **Marc Voltz** French National Institute for Agricultural Research (INRA)

# The Programme

## Get-Together on Monday, 24 June 2019

Will you arrive on Monday? Come to the hotel bar at 8 p.m. and meet other participants and speakers in a relaxed atmosphere.

 Tuesday, 25 June 2019

9.00 Registration and coffee

### 9.30 Welcoming speech by Akademie Fresenius and the Chair

**Christopher Leake**, Bayer Crop Science Division, Germany

## Regulatory issues

### 9.40 Risk assessment in the Southern Zone – an update view from France

**Arnaud Boivin**, French Agency for Food, Environmental and Occupational Health and Safety (ANSES), France

### 10.00 View from the Central zone – status quo and still open points

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

### 10.20 Small status updates in the Northern Zone Guidance Document

**Cathrine Skaar Hoel**, Norwegian Food Safety Authority (Mattilsynet), Norway

10.30 Panel discussion

11.00 Coffee break

### 11.30 Latest developments on the guidance for aged sorption of pesticides in soil

- Revision of the guidance in response to the EFSA Opinion
- Worked examples
- Way forward

**Sabine Beulke**, Enviresearch, UK

### 11.50 The new EFSA PEC soil guidance – software tools

- The new PERSAM software
- Updates of PEARL and PELMO
- Combining the new software tools in the tiered approach

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

### 12.10 Update on the EFSA Repair action of the FOCUS surface water scenarios

- Revised application timing, hydrologic responses, concentrations in runoff/drainage fluxes and in FOCUS ditches and streams
- Robustness of the selected percentile PECSW for the 20 year simulation period
- User friendliness (processing times, new SWASH)

**Paulien Adriaanse**, Wageningen University & Research, The Netherlands

### 12.30 Update of the FOCUS Degradation Kinetics Guidance Document

- Final proposals from the project team
- Major changes and worked examples
- Recent experiences with the OECD 106 checklist and tool

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

12.50 Panel discussion

13.30 Lunch

## Environmentale fate

**Chair:**

**Harry Vereecken**, Forschungszentrum Jülich, Germany

### 15.00 New insights about pesticide exposure through measuring and modelling in catchments of the Rhine basin

**Christian Stamm**, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland

### 15.20 Integrated modelling of pesticide fate in agricultural landscapes

**Marc Voltz**, French National Institute for Agricultural Research (INRA), France

15.40 Panel discussion

16.10 Coffee break

### 16.40 Environmental fate in ecological risk assessment

- Water modelling and environmental monitoring
- Vegetative filter strip
- Spray buffer zones

**Tim MacDonald**, Health Canada's Pest Management Regulatory Agency (PMRA), Canada

### 17.00 Update on aquatic exposure assessment of pesticides in Latin America (including Andean community countries CO, PE, EC, BO)

**Bernhard Jene**, BASF, Germany

- 17.20 Panel discussion  
 18.00 End of the first conference day  
 18.45 Departure time for the evening event



After the first conference day Akademie Fresenius would like to invite you to a leisurely evening in the Sparkling Wine Cellar Kupferberg and the Kupferberg terrace high above the city of Mainz. You have the opportunity of better getting to know other participants you met during the day over a relaxed sparkling wine tasting and meal.

 **Wednesday, 26 June 2019**

## Exposure, risk assessment and risk mitigation

### 8.30 Welcoming speech by the Chair

Colin Brown, University of York, UK

### 8.40 The mid term evaluation of the Dutch crop protection policy (2013-2023) – results such as measures, trends in monitoring, calculations and other results

Aaldrik Tiktak, PBL Netherlands Environmental Assessment Agency, The Netherlands

### 9.10 The mid term evaluation of the Dutch crop protection policy (2013-2023) – monitoring for evaluation purposes in a specific monitoring network for plant protection products

- How does the monitoring take place?
- Plausible relations between the use of pesticides and the exceedances of WFD water quality standards
- Analytical aspect of monitoring

Dennis Kalf, Ministry of Infrastructure and the Environment, The Netherlands

### 9.30 Panel discussion

### 10.00 Coffee break

**Chair:** Chris Leake

### 10.30 Regulation (EC) No 1107/2009 update

Karin Nienstedt, European Commission, Belgium

### 11.00 Questions and answers

### 11.10 Coupling pesticide fate and effect models: Challenges for the fate modelling community

- COMPASS: An example of integrated fate and effect modelling
- Fate outputs needed to drive effect models, temporally and spatially explicit fate predictions
- Effect modelling and how to meet the exposure part

Colin Brown, University of York, UK and Roman Ashauer, Syngenta, Switzerland

### 11.40 Panel discussion

### 12.00 Lunch

**Chair:** Colin Brown

### 13.10 European regulatory network on pesticide groundwater monitoring

- Current activities of the workgroup
- The expected outcome
- Some reflections on how the task may be continued once the work within the workgroup is finished

Igor Kondzielski, Institute of Environmental Protection – National Research Institute, Poland

### 13.30 Current challenges in groundwater monitoring in Germany

Wiebke Tüting, German Federal Office of Consumer Protection and Food Safety (BVL), Germany

### 13.50 Strategies for derivation of drift profiles based upon statistical modelling techniques – managing complexity and diversity for regulatory refinement

Andrew Chapple, Bayer Crop Science Division, Germany

### 14.10 Panel discussion

### 14.40 End of the conference



Information available online at:  
[www.akademie-fresenius.com/2599](http://www.akademie-fresenius.com/2599)

# The Experts

**Paulien Adriaanse** is a Senior Scientist at



Wageningen University & Research. She works on environmental fate and exposure modelling of pesticides in surface waters. She has

been a member of the EFSA Panel on Plant Protection Products and their Residues since 2015.

**Roman Ashauer** is an Environmental Scientist, specialising in ecotoxicology and environmental modelling, and has been working as a Senior Scientist



Eco-modelling at Syngenta in Basel since this year. Before that, he worked at Eawag the University of York.

**Sabine Beulke** is a Risk Assessor at Enviresearch with expertise in the environmental fate of chemicals, regulatory risk assessment for pesticides and modelling. She previously worked for Cranfield University and Fera Science. She has been actively involved in the development of regulatory recommendations on behalf of the UK CRD.



**Arnaud Boivin** is the Head of the Ecotoxicology and E-Fate Risk Assessment Unit for pesticides and fertilisers at ANSES. He joined ANSES in 2007 and he also used to work for INRA and USDA/ARS.



**Colin Brown** is a Professor in Environmental Science at the University of York. He has more than 20 years of experience of research into the fate and effects of organic contaminants in the environment.



**Andrew Chapple** is a Bayer Research Fellow, working in the Crop Science Division of Bayer in Monheim, in the area of environmental exposure modelling with special reference to spray and dust drift.

**Joachim Dayteg** joined the Institute for Plant Protection Products of AGES in Vienna in 2008 as an Environmental Fate and Behaviour Risk Assessor. He is the Initiator of the



harmonisation efforts in fate and behaviour in the Central zone.

**James Hingston** leads a team of 20 regulatory environmental fate specialists at the UK competent authority with responsibility for pesticides, biocides, detergents and general



chemicals (Chemicals Regulation Division, part of the UK Health and Safety Executive).

**Bernhard Jene** is an Environmental Scientist at BASF in Limburgerhof with a PhD in soil physics. He has more than 20 years of experience in the area of environmental



fate and exposure modelling of pesticides.

**Dennis Kalf** is a Senior Advisor Specialist Water Quality and Pesticides at the Ministry of Infrastructure and the Environment in The Hague. He has been working with the government for more than 25 years and has many years of experience in the field of monitoring and water quality.



**Igor Kondzielski** is a Chemist and has been working as a Scientist at the Institute of Environmental Protection in Warsaw for 16 years. His principal area of scientific activity is the examination of the fate and behaviour in the environment of the various chemicals. He is also active as a Regulatory Expert.



**Christopher Leake** is an Environmental Safety Manager at Bayer Crop Science Division responsible for the areas of environmental fate, ecotoxicology and risk assessment. He has over 30 years of experience in this area.



**Tim MacDonald** is an Environmental Scientist and joined the Environmental Assessment Directorate of Health Canada's Pest Management Regulatory Agency in 2010



where he is a Section Head responsible for managing a group of evaluators who do environmental risk assessment for chemicals under re-evaluation.

**Karin Nienstedt** is a Biologist and joined the European Commission in 2002. Since then, she has been working with the unit in charge of approval of active substances and placing



of plant protection products on the market. Since 2014, she has been heading the sector for placing on the market of pesticides within the unit on pesticides and biocides.

**Cathrine Skaar Hoel** is an Adviser at the Norwegian Food Safety Authority in the National Approvals Department. She is working on risk assessment and is part of the environmental fate and behaviour group.



**Christian Stamm** is a Biologist and the Deputy Head of the Environmental Chemistry Department at the Swiss Federal Institute of Aquatic Science and Technology (Eawag). He has been working for the EAWAG since 2002.



**Michael Stemmer** started to work at the Austrian AGES in 2005 as an Environmental Risk Evaluator for the use of pesticides.

**Aaldrik Tiktak** is working as a Senior Researcher Soil and Water at the Netherlands PBL Environmental Assessment Agency in Bilthoven and is member of the EFSA PPR Panel. He is involved in policy evaluation and environmental risk assessment of pesticides.



**Wiebke Tüting** has been working as a Scientist in the Department of PPP at the German BVL since 2007. She is responsible for post-registration monitoring and risk



management issues in the authorisation procedure of PPP. One of her main tasks is to develop risk mitigation measures for groundwater protection.

**Harry Vereecken** is a Professor and the Director of the Institute Agrosphere within the Department of Bio- and Geosciences at the Forschungszentrum Jülich, Germany.



**Marc Voltz** has been working as a Research Director at the French National Institute for Agricultural Research (INRA). He used to be the Head of the Laboratory for the Study of Soil-Agrosystem-Hydrosystem interactions (LISAH) and then was the Leader of the air, water and soil research topic at the Environment and Agronomy Division at INRA.

# About

## Who do you meet?

### Groups that should take part:

Managing directors, boards of directors, members of supervisory boards, managers and scientists in the fields of:

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

### Sectors that should take 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

## Trade Exhibition

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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## The Organiser

For 25 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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 Autumn 2019 in Germany

### International Fresenius Conference "Toxicology and Hazard Assessment of Active Substances in Plant Protection Products"

Date and location to be announced shortly.

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## Do you have any questions?

# Registration



DIE AKADEMIE  
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## Participation

- I would like to take part in the 21<sup>st</sup> International Fresenius AGRO Conference "Behaviour of Pesticides in Air, Soil and Water", 25 and 26 June 2019 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 (please provide evidence).  
The reduced fee cannot be combined with other rebates.
- I would like to take part in the evening event on 25 June 2019 (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.

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Date Signature

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Billing Address (only if different from the above address)

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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 event 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 Reductions

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

### Terms of Cancellation

Written cancellations or transfers will be accepted free of charge up to four weeks prior to the start of the event. After this date and up to a week prior to the start of the event we will reimburse 50% of the registration fee. We cannot, unfortunately, provide refunds for later cancellations. Please note that you can name a substitute free of charge at any time.

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## Venue

Atrium Hotel Mainz  
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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.