



DIE AKADEMIE
FRESENIUS

Where experts meet!

16th International Fresenius AGRO Conference

BEHAVIOUR OF PESTICIDES IN AIR, SOIL AND WATER

23 and 24 June 2014
in Mainz/Germany

HIGHLIGHTS:

Regulatory issues

- Regulation (EC) No 1107/2009 update
- Development of Guidance Documents and harmonisation in the zones
- Comparative assessment and substitution
- A Canadian and Brazilian regulatory perspective

Environmental fate

- Tillage management effects on pesticide fate in soils
- Atrazine data in groundwater
- Pesticide runoff in urban environments
- The new FOCUS TOXSWA

Exposure, risk assessment and mitigation

- (Non-relevant) metabolites in groundwater
- Groundwater monitoring data in the authorisation procedure
- Draft Seed Treatment Guidance Document
- Experiences from the SETAC MagPIE workshop



THE EXPERTS:

Steven Bailey Natural England | **Wim Beltman** Alterra | **Gary Bending** University of Warwick | **Arnaud Boivin** French Agency for Food, Environmental and Occupational Health and Safety (ANSES) | **Colin Brown** University of York | **Arnaud Conrad** ANSES | **Yves Coquet** University of Orléans | **Antonio Di Guardo** University of Insubria | **Bernhard Jene** BASF | **Russell L. Jones** Bayer CropScience | **Johannes Köstel** Swedish University of Agricultural Sciences (SLU) | **Volker Laabs** BASF | **Christopher Leake** Bayer CropScience | **Rúben Maia Dias Ledo** Brazilian Institute for the Environment and Renewable Natural Resources (IBAMA) | **Neil Mackay** DuPont Crop Protection | **Andy Massey** Chemicals Regulation Directorate (CRD) | **Mary Mitchell** Health Canada | **Paulien Mulder** Norwegian Food Safety Authority (Mattilsynet) | **Silvia Pieper** German Federal Environment Agency (UBA) | **Wolfgang Reiher** Dr. Kneel Consult | **Wolfgang Reinert** European Commission | **Wiebke Tüting** German Federal Office of Consumer Protection and Food Safety (BVL) | **Harry Vereecken** Forschungszentrum Jülich | **Lubos Vrbka** Bayer CropScience | **Jayne Wilder** Chemicals Regulation Directorate (CRD)

THE PROGRAMME

Get-Together on Sunday, 22 June 2014



Will you arrive on Sunday?
Come into the hotel bar at 8 p.m. and
meet other participants and experts in
a relaxed atmosphere.

Monday, 23 June 2014

8.30 Registration & coffee

9.00 **Welcoming speech by the organisers and the Chair**

Christopher Leake, Bayer CropScience, Germany

Regulatory issues

9.10 **Regulation (EC) 1107/2009 update**

Wolfgang Reinert, European Commission, Belgium

9.30 **Updates in the Northern Zone Guidance Document – current harmonisation status and future work**

- Updates, groundwater: New requirements due to a Northern Zone modeling project with MACRO
- Updates, surface water
- Future work: Ongoing project on the representativeness of Nordic groundwater scenarios to the actual conditions in the Northern Zone

Paulien Mulder, Norwegian Food Safety Authority (Mattilsynet), Norway

9.50 **Opportunities and challenges for harmonisation of environmental exposure assessment of plant protection products in the Central Zone of the EU**

Andy Massey, Chemicals Regulation Directorate (CRD), UK

10.10 **Update on the harmonisation work in the Southern Zone**

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

10.30 Panel discussion

11.00 Coffee break

11.30 **EFSA update on the developments on EU guidance in the fate area**

Member of the European Food Safety Authority (EFSA), Italy

11.50 **Update on current developments in Canada**

Mary Mitchell, Health Canada, Canada

12.10 **Brazilian pesticides registration process**

- Brazilian government entities
- Registration process

■ Objectives and challenges

Rúben Maia Dias Ledo, Institute for the Environment and Renewable Natural Resources (IBAMA), Brazil

12.30 **Comparative assessment and substitution – a member state view**

Jayne Wilder, Chemicals Regulation Directorate (CRD), UK

12.50 Panel discussion

13.20 Lunch

Environmental fate

Chair:

Harry Vereecken, Forschungszentrum Jülich, Germany

14.50 **Tillage management effects on pesticide fate in soils**

- Pesticide fate in cultivated soils
- Soil organic matter
- Pesticide transfer
- Preferential flow

Yves Coquet, University of Orléans, France

15.10 **How could use of biochar as a soil amendment to mitigate climate change affect the environmental fate of pesticides?**

- Concept of biochar as a long term repository of atmospheric carbon
- Properties of biochar which could impact pesticide bioavailability
- Data from experiments using isoproturon and azoxystrobin

Gary Bending, University of Warwick, UK

15.30 **A machine learning approach for appraising soils' susceptibility to preferential flow under steady state irrigation**

- The relative 5%-tracer-arrival time as a measure for the strength of preferential flow
- A meta-database with app. 900 data entries on tracer breakthrough experiments
- A machine learning approach (random forest) to quantify the importance of various proxy variables for predicting the strength of preferential flow

Johannes Köstel, Swedish University of Agricultural Sciences (SLU), Sweden

15.50 Panel discussion

16.20 Coffee break

16.50 **20 years atrazine data in groundwater – a case study**

Harry Vereecken

17.10 **Pesticide runoff in urban environments**

- Dutch surface and drinking water assessment
- The relative contribution of different surfaces to pesticide losses

- The effect of application practices on runoff
Russell L. Jones, Bayer CropScience, USA

17.30 The new FOCUS TOXSWA 4.4.2

- Concepts for metabolite formation in water and sediment
- Test results and impact within the regulatory context

Wim Beltman, Alterra, Wageningen University and Research Centre, The Netherlands and

Wolfgang Reiher, Dr. Knoell Consult, Germany

18.00 Panel discussion

18.20 End of the first conference day

19.00 Departure time for the evening event



After the first conference day Akademie Fresenius would like to invite you to a leisurely evening in the Eberbach Monastery, which lies in the heart of Rheingau. After a guided tour, a joint dinner will provide a great opportunity to deepen the contacts you made during the day.

Tuesday, 24 June 2014

Chair:

Colin Brown, University of York, UK

Exposure, risk assessment and risk mitigation

8.30 Fate modeling and exposure scenarios within the Cefic project ChimERA

- An integrated modeling tool for ecological risk assessment

Antonio Di Guardo, University of Insubria, Italy

8.50 Metabolites in groundwater and concentrations less than 10 µg/L – What is practical in France?

- Feedback on the French approach
- Some examples

Arnaud Conrad, Agency for Food, Environmental and Occupational Health and Safety (ANSES), France

9.10 Non-relevant metabolites in groundwater – current regulations in the EU and ECPA position on future legislation

Volker Laabs, BASF, Germany

9.30 German experience with groundwater monitoring data in the authorisation procedure and its use in risk management

- Triggers for elucidation of groundwater findings and targeted monitoring studies
- Study designs and interpretation of results
- Implementation in risk management

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

9.50 Panel discussion

10.20 Coffee break

10.50 Draft Guidance Document on the authorisation of plant protection products for seed treatment – environmental risk assessment of abraded dust deposited in non-target areas

- Seed quality and dust emission during sowing
- Deposition of dust, regulatory scenarios and environmental risk assessment

Silvia Pieper, Federal Environment Agency (UBA), Germany

11.10 Industry position on Rev. 1 of the EU guidance SANCO/10553/2012 concerning risk assessment of pesticidal dust resulting from sowing of treated seeds

Bernhard Jene, BASF, Germany

11.30 Cyclone technology adapted to maize driller dust emissions: general principles, testing and field data

- Strategies towards dust exposure minimisation
- Theoretical background of the use of cyclones
- Available laboratory and field data
- Prospects and next steps

Lubos Vrbka, Bayer CropScience, Germany

11.50 Panel discussion

12.20 Lunch

13.20 Proposals for development of flexible approaches to drift mitigation in Europe – experiences from the SETAC MagPIE workshop

- Strategies for drift mitigation and their acceptance and role within national risk management policies in the EU
- Options for mitigation flexibility implemented in specific Member States
- Proposals for flexible product labelling

Neil Mackay, DuPont Crop Protection, UK

13.40 The MagPIE workshop and an update from the sub group on runoff

Colin Brown

14.00 Voluntary action works: helping farmers keep water clean

- Advice and training for farmers through the Catchment Sensitive Farming programme
- Working with the industry and other pesticide initiatives
- What voluntary action has achieved?

Steven Bailey, Natural England, UK

14.20 Panel discussion

14.50 End of the conference

THE EXPERTS

THE EXPERTS

Steven Bailey has worked as Catchment Sensitive Farming River Basin Co-ordinator at Natural England since 2006, managing the team of catchment officers in the English West Midlands and taking the national lead for the programme on pesticide issues.



Wim Beltman is a Senior Scientist at Alterra, Wageningen University and Research Centre /The Netherlands.



Gary Bending is Reader at the University of Warwick and one of his key areas is the bioavailability and biodegradation of pesticides in soil. He is Member of the Advisory Committee on Pesticides.



Arnaud Boivin started in 2007 as E-Fate and Behaviour Risk Assessor in the Ecotoxicology and E-Fate Unit at the Plant and Environment Department of ANSES. He also used to work for INRA and USDA/ARS.



Colin Brown is Professor in Environmental Science at the University of York. He has 23 years experience of research into the fate and effects of organic contaminants in the environment.



Arnaud Conrad started in 2007 as E-Fate and Behaviour Risk Assessor in the Ecotoxicology and E-Fate Unit at the Plant and Environment Department of ANSES.



Yves Coquet is Professor in Soil Science and Hydrology at the University of Orléans and has spent most of its career at AgroParisTech before joining the University of Orléans.



Antonio Di Guardo is Professor of Ecological Risk Assessment and Environmental Fate Modelling at the University of Insubria in Como. Since the beginning of the 1990s he works in the field of environmental modeling.



Bernhard Jene is Environmental Scientist with more than 20 years of experience in the area of environmental fate and exposure



modeling of pesticides (16 years in industry).

Russell L. Jones is Environmental Fate Scientist with Bayer CropScience specializing in the behaviour of crop products in soil and water. For the past 38 years, he has been with Bayer.



Johannes Köstel is Assistant Professor at the Swedish University of Agricultural Sciences where he was collating a meta-database on solute transport experiments. Before he has worked at the Forschungszentrum Jülich.



Volker Laabs has been with BASF for 6 years, working as Water Expert and Global Product Stewardship Manager. He has more than 15 years experience in the area of environmental fate of pesticides.



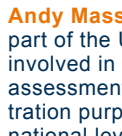
Christopher Leake is an Environmental Safety Manager at Bayer CropScience responsible for the areas of environmental fate, ecotoxicology and risk assessment. He has over 30 years experience in this area.



Rúben Maia Dias Ledo is Environment Analyst at the Brazilian Institute of Environment and Renewable Natural Resources (IBAMA) and works directly in the registration and risk assessment of pesticide products in Brazil.



Neil Mackay is Senior Research Scientist in the Environment Safety Assessment Group of DuPont Crop Protection and his previous work experience includes employment in contract research and as a consultant to both industry and government bodies, primarily in Europe.



Andy Massey works for CRD, part of the UK HSE, where he is involved in environmental fate assessment of pesticides for registration purposes both at EU and UK national level.



Mary Mitchell has worked at Health Canada's Pest Management Regulatory Agency since 1995. She is currently Director General of the Environmental Assessment Directorate. She started her career with the National Research Council of Canada.

Paulien Mulder is Scientific Officer at the Norwegian Food Safety Authority working with risk assessment of pesticides in the environment with main focus on the fate and behaviour of pesticides.



Silvia Pieper is working since 2008 in the German UBA on the environmental risk assessment of pesticides. She is Soil Scientist and Ecotoxicologist.



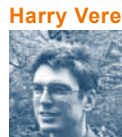
Wolfgang Reiher is working as a Modelling Expert at Dr. Knoell Consult since 2008.



Wolfgang Reinert is working for the EU Commission in the sector of Directorate Health and Consumers and managing new active substances in the Review Process under Directive 91/414/EEC and Regulation (EC) No 1107/2009.



Wiebke Tütting joined the Department of PPP at BVL in 2007 as responsible scientist for post-registration monitoring and has lately also been involved in risk management for the environment in the authorisation procedure.



Harry Vereecken is Professor and Director of the Institute Agrosphere within the Department of Biogeosciences at the Forschungszentrum Jülich.



Lubos Vrbka has worked as Environmental Modeller at Bayer CropScience since 2009. In addition to standard exposure assessments, he focuses on questions related to dust and dust drift related topics.



Jayne Wilder has worked at the UK regulatory authority for plant protection products since the late 1980s and has been Secretary to the UK independent Advisory Committee on Pesticides for over 20 years.

WHOM DO YOU MEET?

Groups that should take part:

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

THE ORGANISERS

AKADEMIE FRESENIUS is a joint venture of SGS Institut Fresenius and COGNOS, one of the leading private educational institutes in Germany. Akademie Fresenius organises national and international conferences and congresses on current topics from the economic and scientific sectors for both specialists and the industry. You can find details on upcoming and new events at www.akademie-fresenius.com

SGS INSTITUT FRESENIUS conducts international projects with regard to the residues behaviour in crops, exposure for the applicant/farmer and development of genetically modified crops. Vast experience in analytical sciences and most recent analytical equipment is used to develop and validate methods relevant for the quality assessment of pesticide products and monitoring of the pesticide/metabolite residues at trace levels.

SGS INSTITUT FRESENIUS Agrochemicals Product Registration Services provides GLP compliant laboratory and field studies for the registration of agrochemicals, biocides and chemicals. www.institut-fresenius.de

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.

Tina Günter
Phone: +49 231 75896-73
tgunter@akademie-fresenius.de



For questions **regarding the programme:**
Sabine Mummenbrauer
phone: +49 231 75896-82
email: smummenbrauer@akademie-fresenius.de



For questions **regarding the organisation:**
Benita Selle
phone: +49 231 75896-77
email: bselle@akademie-fresenius.de

REGISTRATION

By web

www.akademie-fresenius.com/2172

By mail

registration@akademie-fresenius.de

By fax

+49 231 75896-53

 **Info-Hotline:**
+49 231 75896-50

Die Akademie Fresenius GmbH
Alter Hellweg 46, 44379 Dortmund,
Germany



DIE AKADEMIE
FRESENIUS

PARTICIPATION

☐ **Yes!** I would like to take part in the 16th International Fresenius AGRO Conference „**Behaviour of Pesticides in Air, Soil and Water**“, **23 to 24 June 2014** in Mainz (near Frankfurt) /Germany. Fee: € 1,795.00 plus VAT.

☐ **Yes!** 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 23 June 2014** (included in the above price).

☐ Yes

☐ No

CONFERENCE DOCUMENTATION

☐ **No!** Unfortunately, I am unable to attend. Please send me the complete conference documentation for € 295.00 plus VAT (hard copy and electronic version).

TRADE EXHIBITION

☐ **Yes!** Please send me information on exhibition possibilities during the event.

Your Account Number (if available):

Title / First name / Name

Position

Department

Phone / Fax

Email

Company (complete company name including legal form)

Street / Number or P.O. Box / Building

ZIP-code / City / Country

Your order number / Cost unit (if required)

Your VAT ID No. (for registrations from EU countries except Germany)

X

Date

Signature

Billing Address (only if different from the above address):

TERMS OF PARTICIPATION AND PURCHASE

The registration fee includes the **conference participation, conference documentation, lunch, coffee breaks, conference beverages** as well as the **evening event** on 23 June 2014.

You will receive written confirmation of your registration. Upon receiving our invoice, please transfer the amount due without further deductions before the conference 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 where you can download the complete conference documentation, including any subsequent updates, in electronic form – subject to the approval of the respective speakers. 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.**

GENERAL TERMS AND CONDITIONS

By registering, you agree to our General Terms and Conditions as well as to our Privacy Policy.

You can find our General Terms and Conditions on the internet (www.akademie-fresenius.de/general-terms) or receive them on request.

PERSONAL DATA

The Akademie Fresenius will keep your personal data for the purpose of organising this event. We will under no circumstances use your data for commercial trade purposes. In signing this form you consent to our occasionally contacting you by **mail, email, fax or phone (please strike through if unwanted)** in order to provide you with further information from our company. You can, of course, withdraw your consent whenever you wish. Further information can be found at: www.akademie-fresenius.com/dataprotection.

WEB

VENUE/CONFERENCE HOTEL

Atrium Hotel Mainz
Flugplatzstraße 44, 55126 Mainz/Germany
phone: +49 6131 491-0, fax: +49 6131 491-128
Email: info@atrium-mainz.de, Web: www.atrium-mainz.de

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.