

8th AGRO Conference: fate, exposure and regulatory issues

Behaviour of Pesticides in Air, Soil and Water

**21 to 22 June 2006
Frankfurt-Mörfelden/
Germany**

Highlights:

- Revision of Council **91/414/EEC**
- **Thematic Strategy** on Sustainable Use of Pesticides
- Thematic Strategy for **Soil Protection**
- **River basin management** strategies
- **Zonal approach** to fate and exposure assessment
- Role of **lysimeter studies**
- **Modelling the fate and behaviour** of pesticides
- Non-agricultural uses of herbicides
- GIS assessments in FOCUS ground water
- **Probabilistic approaches** to aquatic exposure assessment
- **GeoPERA** – a new German approach
- Surface water as **drinking water** – new FOCUS Group
- **National approaches**, e.g. view from Hungary, Spain, The Netherlands, France

**Reduced fee for authorities,
public further education and
research institutes**



Speakers:

David Arnold Cambridge Environmental Assessments • **Renate Becker-Arnold** BASF • **Csaba Szentes** Plant Protection and Soil Conservation Service • **Anne-Cécile Cotillon** European Commission • **Andrew Craven** (formerly) Pesticides Safety Directorate • **Herman Fontier** Federal Public Service Health, Food Chain Safety and Environment • **Peter Heininger** Federal Institute of Hydrology • **John Hollis** National Soil Resources Institute • **Chris Holmes** Waterborne Environmental • **Andreas Huber** DuPont de Nemours • **Christopher Leake** Bayer CropScience • **Mark Montforts** RIVM • **Michael Neumann** Federal Environmental Agency • **Stephen Nortcliff** University of Reading • **Brigitte Remy** INRA • **Carine Saison** INRA-IRD • **Juliane Scharf** BASF • **Andreas Stork** Bayer CropScience • **Matthias Trapp** RLP AgroScience • **Joop Vegter** (formerly) Technical Soil Protection Committee • **Harry Vereecken** Forschungszentrum Jülich • and others

Thursday, 22 June 2006

8.30 Introduction by the chairman,

Harry Vereecken

8.40 Modelling the fate and behaviour of pesticides applied to Hard Surfaces – The HardSPEC model

- Experimental background to the model: understanding the factors affecting fate on hard surfaces
- Scenario development for regulatory purposes: developing realistic worst-cases
- Key dissipation processes taken into account in the model: knowns and unknowns

John Hollis, Principal Research Scientist, Soil Systems Group, National Soil Resources Institute (NSRI), Cranfield University, Silsoe/UK

9.10 Non-agricultural uses of herbicides – fate and exposure issues for soil, surfacewater and groundwater

Thomas Pütz, Senior Scientist, Agrosphere Institute, ICG, Forschungszentrum Jülich GmbH Germany

9.40 Panel discussion

10.00 Coffee break

Chairman:

Christopher Leake, Global Product Safety Manager, Bayer CropScience AG, Monheim/Germany

Advances in exposure/risk assessment – landscape exposure assessments for ground and surfacewater

10.30 A method to derive crop specific leaching scenarios – GIS assessments in FOCUS Groundwater

- Role of GIS assessments in the tiered decision tree of FOCUS Groundwater
- Identification of Tier 2 leaching scenarios tailored to the use of a product
- Quality of available GIS data bases and implications for higher-tier leaching assessments

Andreas Huber, Environmental Fate Modelling, DuPont de Nemours Crop Protection Europe, Middle East & Africa, Bad Homburg/Germany

10.50 Using spatial approaches to examine natural variation in the agricultural landscape for aquatic exposure assessment

- Spatial relationships between cropped areas and surfacewater
- Generating landscape-level distributions for selected end-points or probabilistic inputs
- Placing detailed site information into a broader context of regional, national or European exposure potential

Chris Holmes, Manager, Spatial Technologies Group, Waterborne Environmental Inc., Leesburg/USA

11.10 Probabilistic exposure and risk assessment with GIS – geoPERA -, a new German approach in the framework of the authorisation of pesticides

- Georeferenced Probabilistic Exposure and Risk Assessment using GIS
- Digital landscape analysis based on the classification of very high resolution geodata like orthoimages and satellite images
- Calculation of georeferenced realistic PECsw in representative regions

Matthias Trapp, Head of Working Group Environmental Information Systems, Institute for AgroEcology, RLP AgroScience GmbH, Neustadt/Germany

11.30 Surfacewater as drinking water – new FOCUS Group

- Possible approaches to take into account the drinking water criterion in the registration process of plant protection products under Directive 91/414 in the EU
- Possible approaches to protect surfacewaters intended for the abstraction of drinking water
- Relationship between Directive 91/414 and the WFD

Andrew Craven, independent consultant, formerly at Pesticides Safety Directorate (PSD), York/UK

11.50 The exposure assessment of pesticides in the authorization process

Michael Neumann, Department of Environmental Exposure through Substances and Environmental Monitoring, Federal Environmental Agency (UBA), Dessau/Germany

12.10 Panel discussion

13.00 Lunch

Advances in exposure/risk assessment – post annex 1 – national approaches

14.15 Development of French scenarios to assess the risk of groundwater contamination by pesticides used on annual crops (a first approach)

Brigitte Remy, Environmental Fate and Behaviour and Risk Assessment of Pesticides, Unit of Scientific Support for the Assessment of Pesticides Risks (INRA), Versailles/France

14.35 Attempts and limits in scenario development - view from Hungary

Csaba Szentes, Ecotoxicological Laboratory, Plant Protection and Soil Conservation Service, Fácánkert/Hungary

14.55 Exposure assessments under Mediterranean agro-environmental conditions

Elena Alonso-Prados, Environmental Technologist, Spanish National Institute for Agriculture and Food Research and Technology (INIA), Madrid/Spain

15.15 Thematic Strategy for Soil Protection

Stephen Nortcliff, Head of Department of Soil Science, University of Reading/UK

15.35 Panel discussion

16.05 Summary of the second conference day

Approx. 16.15 End of the conference

Wednesday, 21 June 2006

8.15 Refreshments

9.00 Welcoming speech by

Andreas Zumdick, Head of Competence Center Agro, SGS INSTITUT FRESENIUS GmbH, Taunusstein/Germany
and the chairman,

David Arnold, Cambridge Environmental Assessments (CEA), Boxworth, Cambridge/UK

European policy and practice

9.10 Progress towards amending the Plant Protection Products Directive 91/414/EEC

Herman Fontier, Head of Service Pesticides and Fertilizers, Federal Public Service Health, Food Chain Safety and Environment, Brussels/Belgium

9.40 Revision of Council Directive 91/414/EEC concerning the placing of plant protection products on the market – Agrochemical Industry's Perspective

- Main topics of the proposal and relation to overall European goals
- Impact of the proposal on various parts of society
- Evaluation of the proposal

Juliane Scharf, European Governmental Affairs – Agricultural Business, BASF AG, Agricultural Center Limburgerhof/Germany

10.10 91/414 – are risk assessments of pesticides from agricultural uses proportional?

David Arnold

10.40 Panel discussion

11.10 Coffee break

Regulatory issues – Thematic Strategy and EU Directives

11.40 The Thematic Strategy on the Sustainable Use of Pesticides

Anne-Cécile Cotillon, Policy Officer, Unit Biotechnology and Pesticides, DG Environment, European Commission, Brussels/Belgium

12.10 Sustainable Use of Plant Protection Products – best practice and water protection – an industry perspective

- Responsible care
- National and international product stewardship activities
- Plant protection products – point source pollution

Renate Becker-Arnold, Manager Product Stewardship, BASF AG, Agricultural Center Limburgerhof/Germany

12.40 Panel discussion

13.00 Lunch

14.30 Towards an EU Soil Framework Directive

Joop Vegter, independent consultant, former General Secretary, Technical Soil Protection Committee, Den Haag/The Netherlands

15.00 Persistence of plant protection products in soil – a proposal for risk assessment

- Background for a dedicated assessment of persistent plant protection products
- Protection goals and the principles of the risk assessment approach
- The tiered approach both for exposure and effect assessment

Mark Montforts, Senior Risk Assessor, National Institute for Public Health and the Environment, Expertise Centre for Substances (RIVM), Bilthoven/The Netherlands

15.30 Water Framework Directive (WPD)

Member of Water Framework Directive Team, Water & Marine Unit, DG Environment, European Commission, Brussels/Belgium (invited)

16.00 Towards river basin management strategies – first results from pilot studies in Germany

- Importance of the cross-cutting principles of the WFD for effective integrated river basin management
- Identification and agreement of key water management issues
- Elements for river basin management plans

Peter Heining, Head of Division Qualitative Hydrology, Federal Institute of Hydrology (BfG), Koblenz/Germany

16.30 Panel discussion

17.00 Coffee break

Chairman:

Harry Vereecken, Director, Agrosphere Institute, Institute for Chemistry and Dynamics of the Geosphere (ICG), Forschungszentrum Jülich GmbH, Jülich/Germany

Environmental fate

17.30 Is a zonal approach to fate and exposure assessment the way forward?

Carine Saison, Soil and Hydrology Research Group, French Institute for Agronomical Research and Research Institute for Development (INRA-IRD), Montpellier/France

18.00 The present role of lysimeters in leaching assessments

- Historical review
- Draft guidance of FOCUS Groundwater Workgroup
- Further perspectives with regard to EU authorization and registration on national level

Andreas Stork, Manager Environmental Fate Group, Bayer CropScience AG, Monheim/Germany

18.30 Panel discussion

Approx. 19.00 End of the first day



Joachim Flick
After the first conference day has ended, Akademie Fresenius would like to invite the participants to a leisurely evening on the vineyard of Joachim Flick – you can enjoy a delicious meal with wine from the Rheingau – a perfect opportunity for talks and discussions with speakers and participants.

Experts

Elena Alonso-Prados is working as Environmental Technologist for INIA, Madrid/Spain



David Arnold has spent more than 25 years in the agrochemical industry focusing on environmental fate and ecotoxicology. Since 2000 he has been Head of CEA, Boxworth, Cambridge/UK.



Renate Becker-Arnold is responsible for Product Stewardship in the European Technical Marketing Services Unit of BASF, Limburgerhof/Germany. She has been working at BASF for 18 years.



Anne-Cécile Cotillon joined DG Environment at the European Commission, Brussels/Belgium, in 2005. She is in charge of the finalisation of the Thematic Strategy on the Sustainable Use of Pesticides.



Andrew Craven has worked in the field of pesticide safety and regulation since 1978. He worked at PSD, York/UK, from 1992 until 2005, since which time he has been busy establishing himself as an independent consultant.

Herman Fontier is Head of Service Pesticides and Fertilizers at the Federal Public Service Health, Food Chain Safety and Environment in Brussels/Belgium



Peter Heininger is Head of the Division of Qualitative Hydrology at the BfG, Koblenz/Germany. He is Secretary of the International Commission on Water Quality of the IAHS.



John Hollis is a Principle Scientist in the Soil Systems Group of the NSRI, Cranfield University, Silsoe/UK. He was secretary of the FOCUS Surface Water Scenarios working group.



Chris Holmes manages the Spatial Technologies Group at Waterborne Environmental Inc., Leesburg/USA. He has over 15 years experience in the GIS.



Andreas Huber is working as European Regulatory Modelling Expert for DuPont de Nemours Crop Protection/Germany with focus on GIS based exposure assessments. He is member of the FOCUS Groundwater group.



Christopher Leake is Global Product Safety Manager at Bayer CropScience AG, Monheim/Germany. He was Global Expert Scientist in Lyon/France and went to Monheim in 2003.



Mark Montforts is a Senior Risk Assessor at the Expertise Centre for Substances of the RIVM, Bilthoven/The Netherlands. Since 1993 he has been involved in the environmental risk assessment.

Michael Neumann is working as Scientific Officer for the UBA, Dessau/Germany, in the Department of Environmental Exposure through Substances and Environmental Monitoring.

Stephen Northcliff is Professor of Soil Science and Head of the Department of Soil Science at the University of Reading/UK focussing on strategies to encourage the sustainable use of soils and the maintenance of soil quality. He is also Secretary General of the International Union of Soil Sciences.



Thomas Pütz is Head of the Research Group on Mass Fluxes in Agroecosystems of the Institute for Agrosphere within the ICG at Forschungszentrum Jülich/Germany. In 2000 he became Senior Scientist.

Brigitte Remy is working at INRA, Versailles/France, and has been involved in the evaluation of fate and behaviour and the assessment of environmental risk of pesticides in the regulatory framework since 2001. She is member of the working group aiming at developing national scenarios for evaluating the risk of groundwater contamination.

Carine Saison is working for the INRA-IRD, Montpellier/France, and has been member of the Soil and Hydrology Research Group for one year.

Juliane Scharf is responsible for the European governmental affairs of BASF's Agrobusiness since 2004. She is working for BASF, Agricultural Center Limburgerhof/Germany, since 1993. She is member of various ECPA groups.



Andreas Stork has been Head of the Environmental Fate Group of the function metabolism and environmental fate at Bayer CropScience AG, Monheim/Germany, since 2002. He joined Bayer Crop Protection in 1998.



Csaba Szentes has been working for the Ecotoxicological Laboratory of the Plant Protection and Soil Conservation Service/Hungary as an ecotoxicologist study director for 13 years.



Matthias Trapp is working at the Institute for AgroEcology of the Rheinland-Pfalz AgroScience GmbH, Neustadt/Germany, as Head of the working group Environmental Information System.

Joop Vegter is an independent consultant in the field of management of soils and water resources and secretary of the COMMON FORUM Network on Contaminated Land in the EU.



Harry Vereecken is Director of the Institute for Agrosphere within the Department of Chemistry and Dynamics of the Geosphere at Forschungszentrum Jülich/Germany.

Whom do you meet?

Sectors that should take part

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

Groups that should take part:

- *Managing directors, boards of directors, members of supervisory boards*
- *Managers and employees in the fields of:*
 - *Environmental behaviour*
 - *Field inspection*
 - *Registration*
 - *Ecotoxicology*
 - *Exposure & risk assessment*
 - *Monitoring & computer modelling*
 - *Research & development*
 - *Marketing & distribution*

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Registration for the 8th AGRO Conference Behaviour of Pesticides in Air, Soil and Water 21 to 22 June 2006 in Frankfurt-Mörfelden/Germany



DIE AKADEMIE
FRESENIUS

Participation

- Yes!** I would like to take part in the 8th AGRO Conference "Behaviour of Pesticides in Air, Soil and Water", 21 to 22 June 2006, Frankfurt-Mörfelden/Germany. Fee: € 1,395.00 plus VAT per person. (Event number: VK 1830)

- Special rate Yes!** I am an employee of an authority, university or a research institute and therefore eligible for a reduced fee of € 795.00 plus VAT per person. Please provide evidence (not eligible for further reduction).

I would like to take part in the evening event on 21 June 2006 (included in the above price).

- Yes No

Conference Documentation

- No!** Unfortunately, I am unable to attend. Please send me the complete conference documentation for € 250.00 plus VAT. The documents will be dispatched around two weeks after the event.

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Sabine Mummenbrauer, Project Management
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Group Reductions:

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

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