Worker, Operator, Bystander and Resident Exposure and Risk Assessment

6 and 7 December 2018 in Mainz/Germany

Highlights

Regulatory assessment of plant protection products in the EU
- EFSA Guidance: Update from EFSA
- Dermal absorption: Updated guidance from EFSA and OECD activity
- Weight-of-evidence (WoE) approach in plant protection regulatory toxicology
- Bystander/resident exposure associated with airblast applications
- Re-entry exposure data in vineyards
- BREAM2: Consequences for regulatory exposure assessments
- New operator exposure model for seed treatment
- Operator exposure assessment to co-formulants

Regulatory issues and epidemiology around the globe
- Application of human epidemiological studies to pesticide risk assessment
- Improving exposure assessment methodologies for epidemiological studies
- Risk assessment in Latin America, Africa and Asia and Western risk management standards

Mitigation and management of risks
- Updating ISO standards for PPE
- Recent developments on PPE in France
- Test procedures for closed transfer systems and 3D-drift measurements
- Current exposure to drift risk assessment in the US

The Experts

The Programme

Get-Together on Wednesday, 5 December 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, 6 December 2018

8.30 Registration and coffee
9.00 Welcoming speech by Akademie Fresenius and the Chairs
   Alistair Morriss, Corteva Agriscience, UK
   and Hugh Dawick, HSE Chemicals Regulation Division (CRD), UK

Regulatory assessment of PPP in the EU

9.10 Scientific basis for improving the authorisation system of pesticides in the EU
   Antonio F. Hernández-Jerez, University of Granada School of Medicine, Spain

   • Supporting material: Excel template for calculation
   • Update on OECD activity: Review and update OECD documents on dermal absorption
   Christina Pieper, Federal Institute for Risk Assessment (BfR), Germany

10.00 EFSA Guidance on dermal absorption – industry view
   • Study evaluation, worked examples and aspects requiring expert judgement, specific consideration of low absorption compounds
   • Industry perspective on the proposed changes in OECD guidance note 156

Representative of the European Crop Protection Association (ECPA), Belgium

10.25 Panel discussion
11.10 Coffee break

11.40 WoE (Weight of evidence) approach to reduce vertebrate testing in plant protection regulatory toxicology
   • Available alternatives to vertebrate testing
   • Considering relevance and reliability
   Denise Kurth, Federal Institute for Risk Assessment (BfR), Germany

12.05 PBTK (physiologically based toxicokinetic) modelling to refine health-based guidance setting
   • Consideration of the kinetic route-to-route differences between oral and dermal exposure
   • Tool to refine the acute toxicological endpoint for non-dietary risk assessment (AAOEL)
   Jenny Baumann, Bayer Crop Science Division, Germany

12.30 Panel discussion
13.00 Lunch

14.20 Bystander/resident exposure to spray drift from airblast applications in vineyards and orchards
   • Summary of the field trials undertaken and overview of the database
   • Issues arising from the interpretation and analysis of the database
   • Summary findings and proposals for drift values (dermal and inhalation)
   Hugh Dawick, HSE Chemicals Regulation Division (CRD), UK

14.45 Developments in resident and bystander exposure modelling – the BREAM2 model
   • The BREAM model – used by EFSA to estimate exposures of residents and bystanders
   • Some changes to improve the prediction of dermal exposure and reduce some of the uncertainties
   • The new model – BREAM2: Changes that have been made and the consequences for regulatory exposure assessments
   Clare Butler Ellis, Silsoe Spray Applications Unit, UK

15.15 Panel discussion
15.45 Coffee break

16.15 Re-entry exposure data in vineyards
   • Summary of the field trials
   • Overview of the database
   • Findings and proposals for revised transfer coefficients
   Alan MacDonald, HSE Chemicals Regulation Division (CRD), UK

16.40 Joint development of a new operator exposure model for seed treatment and seed sowing
   • Current tier 1 operator exposure risk assessment model for seed treatment and sowing, data, scenarios, limitations
   • Development of a new open access model, project overview, exposure database, EU seed treatment practices market survey, potential project timelines
   • Joint evaluation with regulatory authorities and EFSA
   Sarah Adham, Syngenta, UK

17.05 Operator exposure assessment to co-formulants
   Matthias Wormuth, Syngenta Crop Protection, Switzerland

17.30 Panel discussion
18.00 End of the first conference day
18.45 Departure time for the evening event
As always you are most welcome to attend our evening event, which will take us to the local Cistercian monastery named Eberbach. We will enjoy a short tour of the venue, which has once served as the set for the well known movie “The name of the Rose”. Afterwards we will enjoy a dinner and have time to continue the days interesting conversations in a relaxed atmosphere. Don’t miss out on this opportunity.

Friday, 7 December 2018

Chairs: Alistair Morriss and Hugh Dawick

Regulatory issues/epidemiology around the globe

8.30 Application of human epidemiological studies to pesticide risk assessment
- How epidemiology can contribute to pesticide risk assessment?
- Strengths and limitations of pesticide epidemiological studies – need for quality assessment
Antonio F. Hernández-Jerez, University of Granada School of Medicine, Spain

8.55 IMPRESS: Improving exposure assessment methodologies for epidemiological studies on pesticides – Study methodologies and work to date
Karen Galea, Institute of Occupational Medicine (IOM), UK

9.20 Panel discussion
9.40 Coffee break

10.10 Brazilian perspective on pesticide occupational risk assessment
- Update on transitioning from hazard assessment to risk assessment in Brazil
- Data on poisoning incidents and the proportion of plant protection products
Adriana Torres de Sousa Pottier, Brazilian Health Regulatory Agency (ANVISA), Brazil

10.35 Applying Western risk management standards for farmers involved in local agriculture in Latin America, Africa and Asia?
- How do we balance the need for the use of pesticides as an agricultural tool with the responsibility for safe use?
- How do we mitigate exposure when wearing normal work attire is a challenge?
Curt Lunchick, Bayer Crop Science Division, USA

11.00 Panel discussion
11.20 Short break

Mitigation and management of risks

11.30 International standards for personal protective equipment (PPE) for pesticide operators and re-entry workers
- An overview of performance standards for protective clothing and gloves based on field and laboratory studies
- Relevance of international PPE standards for risk assessment
Anugrah Shaw, University of Maryland Eastern Shore (UMES), USA

11.55 Accompanying change in France, following recent developments on PPE
- Accompanying changes in pesticide labels to increase readability and integrate ISO 27065 norm
- Accompanying a new generation of acceptable PPE
Julien Durand-Réville, French Pesticide Industry Association (UIPP), France

12.20 Current exposure to drift risk assessment in the US
Shalu Shelat, U.S. Environmental Protection Agency (EPA), USA

12.45 Panel discussion
13.15 Lunch

14.15 EFSA Guidance on exposure assessment
Frédérique Istace, European Food Safety Authority (EFSA), Italy

14.45 Questions & answers

14.55 Operator, worker, bystander and resident safety – a risk manager’s view on recent developments
- Hazard and risk based allocation of safety instructions to operators handling pesticides
- Update of minimum application distances based on changes in non-dietary exposure assessment
Markus Röver, Federal Office of Consumer Protection and Food Safety (BVL), Germany

15.20 Development of test procedures for closed transfer systems and for 3D-drift measurements
- New test procedure for closed transfer systems
- First experiences with 3D-drift measurements with a tracer dye
Dirk Rautmann, Julius Kühn-Institut (JKI), Germany

15.45 Panel discussion
16.10 End of the conference
The Experts

Sarah Adham has been working as a Human Safety Technical Expert at Syngenta UK for over 11 years. She provides technical expertise in non-diary risk assessment to a wide range of EU and global projects for PPP registrations.

Jenny Baumann is an Occupational and Residential Exposure Expert at Bayer Crop Science Division in Monheim. She has gained broad experience in human exposure and risk assessment as well as toxicology in the past years.

Clare Butler Ellis is a Physicist and the Research Manager of Silsoe Spray Applications Unit, involved in spray applications research since 1994. Clare’s own research interests have focused on measuring and modelling spray drift, nozzle performance and spray characterisation, characterising spray deposits on target surfaces and regulatory exposure assessments and risk mitigation.

Hugh Dawick is a Senior Non-Dietary Human Exposure Specialist at the UK Chemicals Regulation Division. He has worked for HSE’s CRD for the last 22 years.

Julien Durand-Réville is an Agronomist specialised on human health related to the environment. After 10 years working as an Health Expert in crisis management, he joined UIPP in 2015 to coordinate all the national collective health actions.

Karen Galea is the Head of the Exposure Science Section of the Institute of Occupational Medicine in the UK. She is responsible for a team of human exposure scientists and leads a wide variety of research projects, mainly focused on exposure assessment relating to health risks.

Antonio F. Hernández-Jerez is a Full Professor of Toxicology at the University of Granada School of Medicine and a Medical Specialist in Occupational Medicine. He is also a University Expert in Epidemiology and Clinical Investigation, the Chair of the EFSA PPR Panel and the Chair of the EFSA Working Group on the use of epidemiology studies for regulatory pesticide risk assessment.

Frédérique Istace is an Officer in the Pesticide Unit of the European Food Safety Authority in Parma.

Denise Kurth is an Environmental Scientist and has been working as a Scientist in the Department of Pesticide Safety at the Federal Institute for Risk Assessment in Berlin since 2016.

Curt Lunchick is the Product Safety Senior Non-Dietary Risk Assessor and responsible for assessing occupational and residential exposure and risk at Bayer Crop Science Division and Bayer Animal Health in North America.

Alan MacDonald is a Non-Dietary Human Exposure Specialist at the UK Chemicals Regulation Division. He has worked for HSE’s CRD since 1995, mostly as a specialist assessing human non-diary exposure and risk for pesticides and biocides.

Alastair Morriss is a Risk Assessor in the human health assessment team at Corteva Agriscience (the agricultural division of DowDuPont) in UK since 2010. Prior to this he worked in contract research organisations for 8 years specialising in operator exposure studies as well as residue and environmental fate studies.

Christina Pieper is a Food Chemist and has been working as a Scientific Officer for human health risk assessment at the Federal Institute for Risk Assessment in Berlin. She has been involved in the regulatory framework of plant protection products and biocidal products since 2010.

Adriana Torres de Sousa Pottier is an Health Regulation Expert at the Brazilian Health Regulatory Agency (ANVISA). Since 2007 she has worked in pesticide regulation. Currently she is the Manager of the Division of Pesticide Monitoring and Risk Assessment.

Dirk Raunmann is the Deputy Head of the Institute for Application Techniques in Plan Protection at the Julius Kühn-Institut in Braunschweig. Since 1987 he has been working on all aspects of plant protection equipment, drift and drift reduction, dust drift from sowing machines and seed treatment.

Markus Röver is a Scientific Officer at the Federal Office of Consumer Protection and Food Safety in Braunschweig, Department for Plant Protection Products, Unit „Health“.

Anugrah Shaw is a Professor at the University of Maryland Eastern Shore and has conducted research on protective clothing for pesticide applicators for three decades. Her research has included PPE suitable for hot climates.

Shalu Shelat is an Environmental Health Scientist in the Risk Assessment Branch of the Health Effects Division at the U.S. Environmental Protection Agency (EPA).

Matthias Wormuth is a Natural Scientist and works for Syngenta Crop Protection in Basel. He has more than 15 years of background in exposure and chemical safety assessment and worked as a Chemicals Regulatory Manager in the chemical and agrochemical industry over the last 9 years.
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.

Our events are designed to promote an active exchange amongst our participants and offer the perfect platform for bringing the industry, the scientific sector, the authorities and the consulting field together. Excellent service, all-inclusive. Our wide-ranging advanced training opportunities contribute to giving our customers the competitive edge in all quality assurance, risk assessment, legal, production and technical questions.

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About

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 – crop protection

Sectors that should take part:
• Agrochemical industry
• Research institutes
• Authorities
• Professional associations
• Contract laboratories
• Professional associations

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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.

Semsigül Yalćın
phone: +49 231 75896-94
syalcin@akademie-fresenius.de

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Do you have any questions?

Programme and conceptual design
Sabine Mummenbrauer
phone: +49 231 75896-82
smummenbrauer@akademie-fresenius.de

Organisation and participant management
Danielle Sörries
phone: +49 231 75896-74
dsoerries@akademie-fresenius.de

Spring 2019 in Germany
"Food Safety and Dietary Risk Assessment"
Date and location to be announced shortly.
Please request more information now!
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Participation

- I would like to take part in the 5th International Fresenius Conference "Worker, Operator, Bystander and Resident Exposure and Risk Assessment", 6 and 7 December 2018 in Mainz/Germany.
- Fee for all bookings prior to 02.11.18: € 1,705.50 plus VAT, fee for later bookings: € 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 6 December 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.

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.

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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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