



International Akademie Fresenius Conference

# Digital Agriculture

## Regulatory and Scientific Aspects of Precision Application

10 and 11 April 2024  
in Dusseldorf/Germany

### Highlights

#### Regulatory Status

- The Commission on the status of precision applications in the regulatory system
- EFSA: Ideas on how to include precision uses in risk assessment

#### Relevant Developments & Regulatory Challenges

- Implications of precision farming for risk assessment
- BVL and Syngenta: How to express precision uses of pesticides in the GAP-table

#### Technology & Research

- The British HSE on drone technology and assessing the risks from pesticide applications
- Julius Kühn Institute on the power of system integration and the role of research in new technologies

Join the premier forum  
for shaping the future of  
digital agriculture and  
precision application!



### The Experts

**Alf Aagaard** Danish Environmental Protection Agency | **Anne Alix** Corteva Agriscience | **Domenica Auteri** European Food Safety Authority (EFSA) | **Tom Bals** Independent Consultant | **Joachim Dressel** Syngenta | **Emilio Gil** Universitat Politècnica de Catalunya | **Vincent Guth** Corteva Agriscience | **Rena Isemer** Bayer | **Martina Keller** Agroscope | **Eric Liégeois** European Commission | **Alexander Pfaff** German Federal Office of Consumer Protection and Food Safety (BVL) | **Melissa Reed** British Health and Safety Executive / Chemicals Regulation Division (HSE/CRD) | **Jonas Schartner** German Federal Office of Consumer Protection and Food Safety (BVL) | **Grant Stark** British Health and Safety Executive / Chemicals Regulation Division (HSE/CRD) | **Anne Steenbergh** Dutch Board for the Authorisation of Plant Protection Products and Biocides (Ctgb) | **Jens Karl Wegener** Julius Kühn Institute (JKI)

# Wednesday, 10 April 2024

Timings are in  
Central European Summer Time [CEST](#).

## Morning Session | 09:30 – 13:25 CEST

**09:30 Welcome address by the organisers and the Chairs**

**Anne Alix**, Corteva Agriscience, United Kingdom  
**Jonas Schartner**, German Federal Office of Consumer Protection and Food Safety (BVL), Germany

**09:40 Introduction to the European Precision Application Task Force (EUPAF)**

- Short history of EUPAF
- Regulatory aspects for precision application
- Structure of EUPAF
- Main objectives and tasks of EUPAF

**Anne Alix**, Corteva Agriscience, United Kingdom  
**Jonas Schartner**, German Federal Office of Consumer Protection and Food Safety (BVL), Germany

## Regulatory Status

**10:15 Status of precision applications in the regulatory system**

**Eric Liégeois**, European Commission, Belgium  
(virtual presentation)

**10:50 EFSA (EUPAF observer): Thoughts on how to include precision uses in risk assessment**

**Domenica Auteri**, European Food Safety Authority (EFSA), Italy

**11:25 Coffee break**

**11:55 Panel discussion: Regulatory requirements**

## Challenges

**12:15 Inventory and technical aspects of precision uses: The groundwork for potential changes in risk assessment**

- Creation of a technical inventory and identification of use categories to enable appropriate language in GAP tables and PPP authorisation
- Key findings on existing equipment
- Open questions and data requirements (variable rate applications; bush and tree crops; drone spraying)

**Tom Bals**, Independent Consultant, United Kingdom

**12:50 How to express precision uses of pesticides in the GAP**

- Rate expression
- Use categories
- Harmonised language

**Alexander Pfaff**, Federal Office of Consumer Protection and Food Safety (BVL), Germany and **Joachim Dressel**, Syngenta, Switzerland

**13:25 Lunch**

## Afternoon Session | 14:30 – 17:15 CEST

**14:30 Precision application (PA) in risk assessment and as a risk mitigation measure: A EUPAF Proposal**

- Evaluation of impact of precision application on the human and environmental risk assessments
- The potential of precision application as a risk mitigation measure
- The extent of the changes in particular areas of the risk assessment
- Proposition of adapted assessment scenarios to reach more realistic approaches for areas of the risk assessment that can be significantly modified following a change in application practice
- Available advice on the type of data that are needed to document and quantify the changes

**Rena Isemer**, Bayer, Germany and **Alf Aagaard**, Danish Environmental Protection Agency, Denmark

**15:05 Spotlight on the necessary conditions required for a future-proof authorisation of PPP uses with precision techniques**

- Categorisation of techniques and link to inspection criteria
- Conversion of application rate per hectare to local application rates

**Anne Steenbergh**, Board for the Authorisation of Plant Protection Products and Biocides (Ctgb), The Netherlands

**15:40 Coffee break**

**16:10 Integrating digital agriculture into risk assessment: Ideas from the UK**

**Melissa Reed**, Health and Safety Executive / Chemicals Regulation Division (HSE/CRD), United Kingdom

**16:45 Final discussion**

**17:15 End of the first conference day**

**18:15 Evening event**



After the first conference day you are most welcome to attend our evening event for an unhurried evening of good food and leisure time. Please, join us to continue the day's interesting discussions in a relaxed and comfortable atmosphere.

[→ Book now](#)



Information available online at:  
[www.akademie-fresenius.com/3545](http://www.akademie-fresenius.com/3545)

Thursday, 11 April 2024

Timings are in  
Central European Summer Time [CEST](#).

 **Morning Session | 09:30 – 13:40 CEST**

**09:30 Brief address by the Chairs**

**Anne Alix**, Corteva Agriscience, United Kingdom  
**Jonas Schartner**, German Federal Office of Consumer Protection and Food Safety (BVL), Germany

## Technology and Research

**09:40 Technological innovations in plant protection:  
The power of system integration and the role of research**

- Current state of the best available technology
- Innovations through process integration and digitisation
- Precision and georeference as the basis for subsequent work
- Georeferenced application technology – Spot application

**Jens Karl Wegener**, Julius Kühn Institute (JKI), Germany

**10:15 Drone technology and assessing the risks from  
pesticide applications**

- The state of current knowledge
- Work of the OECD sub-group and others to address knowledge gaps and risks
- Possible future regulation of pesticides applied by drone

**Grant Stark**, Health and Safety Executive / Chemicals Regulation Division (HSE/CRD), United Kingdom

**10:50 Precision application in 3D-technology vs  
regulatory needs: The PPP dose expression dilemma**

- Precision agriculture to adapt PPP dose to canopy characteristics
- Variable Rate application to reduce PPP dose
- PPP reduction by combining satellite imagery and education skills
- Necessary revision of regulatory requirements

**Emilio Gil**, Universitat Politècnica de Catalunya, Spain

**11:30 Coffee break**

**12:00 Case study – Example of a spot application in  
sugarbeet: Linking the practice to the GAP Table and  
implications for the risk assessment**

**Vincent Guth**, Corteva Agriscience, France

**12:35 Spot spraying in vegetables: Applied research with  
an interdisciplinary approach**

**Martina Keller**, Agroscope, Switzerland

**13:10 Final discussion**

**13:40 Lunch and end of the conference**

Online Conference

### Regulatory Toxicology of Active Substances in Plant Protection Products

13 and 14 May 2024

Representatives from EFSA, the regulatory authorities, the plant protection industry as well as from the scientific fields will be talking about those topics which are currently the most exciting in the area of toxicology and hazard assessment of active substances in plant protection products.

[www.akademie-fresenius.com/3280](http://www.akademie-fresenius.com/3280)

International Conference

### Behaviour of Pesticides in Air, Soil and Water

6 June and 7 June 2024 in Düren

For many years now, this conference has been a major event in the plant protection industry. Listen to the various viewpoints represented by the authorities, the industry, and the research sector. This event is of interest to anyone involved in the assessment of pesticides in air, soil and water.

[www.akademie-fresenius.com/3490](http://www.akademie-fresenius.com/3490)

Online Training

### IUCLID for Plant Protection Products: A Hands-on Guide

27 and 28 May 2024

This training will provide you with the basic knowledge on how to make PPP-related submissions in IUCLID. You will learn about the basic characteristics and functions of the IUCLID Software, how to use IUCLID for submissions in the working context of PPPs and how to complete a study record for each IUCLID Section.

[www.akademie-fresenius.com/3551](http://www.akademie-fresenius.com/3551)

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Information available online at:  
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# Registration

By web [www.akademie-fresenius.com/3545](http://www.akademie-fresenius.com/3545)  
By email [registration@akademie-fresenius.com](mailto:registration@akademie-fresenius.com)

## Participation Fee: € 1,995.00 plus VAT

Representatives of an authority or a public university are eligible for a reduced fee of € 895.00 plus VAT per person (please provide evidence). The reduced fee cannot be combined with other rebates.

**Special fee\* for pertinent competent authorities:**  
€ 200,00 + VAT (\*limited number of places available)

If you are eligible for the special fee as a pertinent competent authority, please contact us via email to [amoeller@akademie-fresenius.de](mailto:amoeller@akademie-fresenius.de)

If you are unable to attend, you can order the event documentation for € 295.00 plus VAT.

10% discount valid until  
23 February 2024!  
Code: 35FB04AM45

Hotline +49 231 75896-50  
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Alter Hellweg 46, 44379 Dortmund



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## Do you have any questions?



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## The Organisers

For 30 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.

Akademie Fresenius is a joint venture between Carl Remigius Fresenius Education Group, 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](http://www.akademie-fresenius.com)

## Who should take part?

### Groups that should take part:

- ✓ Directors, managers, consultants and scientists working in the field of Plant Protection Products and active substances
- ✓ Technical Experts from Research & development
- ✓ Agricultural Technology Experts, Producers, distributors and downstream users of Plant Protection Products
- ✓ Risk assessors, Toxicologists, Ecotoxicologists
- ✓ Product Stewards, Regulators

### Sectors that should take part:

- ✓ Agrochemical industry
- ✓ Agro-technological industry
- ✓ Biotech Industry, Research institutes
- ✓ Authorities, Professional associations
- ✓ Contract laboratories/consultancies

## Conference Venue

Novotel Düsseldorf City West  
Niederkasseler Lohweg 179  
40547 Düsseldorf  
Telefon : +49 211 52060-0  
E-Mail: [h3279@accor.com](mailto:h3279@accor.com)  
<https://all.accor.com/hotel/3279>

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 "Akademie Fresenius" as reference

**Terms of Participation and Purchase:** The registration fee includes the participation in the event, event documentation, and, in the case of on-site events, 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 the login details for the secure download section of our webpage where you will find the presentations in a pdf format. The login details will be sent to you via email 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:** For our on-site events, 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. For our online events, cancellations or rebookings to another event will be accepted free of charge up to one week before the start of the event. In the event of later cancellations or non-login to the online event, no participation fees can be refunded. In this

case, however, you will receive access to the documentation download after the event. Please note that you can name a substitute participant free of charge at any time.

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