

## Friday 22 February 2019

01:40 – 02:00 pm

**How many rats equal one cat? Or avoiding unintended effects in invasive species management**

*Michaela Plein, University of Queensland, Australia*

02:00 – 02:20 pm

**Surplus food as animal feed: risks, benefits and uncertainties**

*Karen Luyckx, Global Feedback Ltd, United Kingdom*

02:20 – 03:20 pm Coffee break and guided poster tour II

**Topic V: Dialogues on uncertainty in an open society**

03:20 – 03:50 pm

**Governing and communicating risks in a post-truth era**

*Ortwin Renn, Institute for Advanced Sustainability Studies, Germany*

03:50 – 04:10 pm

**The multiplicity of possible analysis strategies and how it is handled across scientific disciplines**

*Sabine Hoffmann, Ludwig-Maximilians-Universität München, Germany*

04:10 – 05:30 pm

**Podium discussion and closing**

### Submission of abstracts:

Abstracts for posters can be submitted [online](#) until January 28, 2019.

### Contact:

Matthias Greiner

[uncertainty-conference@bfr.bund.de](mailto:uncertainty-conference@bfr.bund.de)

Conference website

<http://www.efsa.europa.eu/en/events/event/190221>

### Venue:

German Federal Institute for Risk Assessment (BfR)  
Auditorium  
Diedersdorfer Weg 1, 12277 Berlin (Marienfelde)

### Directions:

[www.bfr.bund.de/en/location-marienfelde.html](http://www.bfr.bund.de/en/location-marienfelde.html)  
Destination stop ([www.bahn.com](http://www.bahn.com), [www.bvg.de/en](http://www.bvg.de/en))  
“Nahmitzer Damm/Marienfelder Allee (Berlin)”

### Registration:

The conference is free of charge. Please register online on the website of the BfR Academy.  
<https://www.bfr-akademie.de/english/events/uncertainty-conference.html>

Registration deadline: February 10, 2019

### Contact of local organiser:

BfR Academy  
Tel.: +49 (0)30 18 412 3456  
Fax: +49 (0)30 18 412 63456  
[academy@bfr.bund.de](mailto:academy@bfr.bund.de)

### Organiser:

German Federal Institute for Risk Assessment (BfR)  
Max-Dohrn-Straße 8–10  
10589 Berlin  
Germany  
[www.bfr.bund.de/en](http://www.bfr.bund.de/en)

European Food Safety Authority (EFSA)  
Via Carlo Magno 1A  
43126 Parma  
Italy  
[www.efsa.europa.eu](http://www.efsa.europa.eu)

GERMAN FEDERAL INSTITUTE FOR RISK ASSESSMENT

## International Conference on Uncertainty in Risk Analysis

Challenges and Advances in Assessing, Managing and Communicating Uncertainty

February 20–22, 2019, Berlin



Final Programme



Bundesinstitut für Risikobewertung

## Thursday 21 February 2019

9:00 – 09:15 am

### Welcome addresses

*Reiner Wittkowski, Federal Institute for Risk Assessment*  
*Tobin Robinson, European Food Safety Authority*

### Topic I: Uncertainty from a cognitive science point of view

09:15 – 09:45 am

#### The taming of uncertainty: How we make sense of chance by words and numbers

*Karl H. Teigen, University of Oslo, Norway*

09:45 – 10:05 am

#### Cognitive biases arise from conflating epistemic and aleatory uncertainty

*Scott Ferson, University of Liverpool, United Kingdom*

10:05 – 10:25 am

#### Using games to train or test our ability to express epistemic uncertainty

*Ullrika Sahlin, Lund University, Sweden*

10:25 – 11:00 am Coffee break and poster viewing

### Topic II: Methods of uncertainty analysis

11:00 – 11:30 am

#### Uncertainty with and beyond the data: approaches to deal with different types of unknowns

*Zora Kovacic, University of Bergen, Norway*

11:30 – 11:50 am

#### Application of Dempster-Shafer theory to estimate uncertainty and combine diverse sources of evidence in chemical risk assessment

*James Rathmann, Molecular Networks GmbH and Altamira, LLC, Germany*

11:50 am – 12:10 pm

#### Uncertainty and variability in Bayesian inference for dietary risk: Listeria in RTE fish

*Jukka Ranta, Finnish Food Safety Authority, Finland*

12:10 – 12:30 pm

#### APROBA-Plus: A probabilistic tool to evaluate and express uncertainty in hazard characterisation and exposure assessment of substances

*Bas Bokkers, National Institute for Public Health and the Environment, Netherlands*

12:30 – 01:45 pm Lunch break

01:45 – 02:15 pm

#### Uncertainty quantification in next generation risk assessment

*John Paul Gosling, University of Leeds, United Kingdom*

02:15 – 02:35 pm

#### Performance weighting and the IDEA Protocol for expert elicitation

*Victoria Hemming, University of Melbourne, Australia*

02:35 – 02:55 pm

#### Uncertainty assessment for interdependent parameters, exemplified by PBPK modelling for risk assessment

*Natalie von Goetz, Swiss Federal Office of Public Health, Switzerland*

02:55 – 03:15 pm

#### Managing uncertainty and variability when assessing beneficial source of iron brought by red meat consumption in France

*Juliana De Oliveira Mota, Bretagne Loire University, France*

03:15 – 04:15 pm Coffee break and guided poster tour I

04:15 – 04:35 pm

#### Quantifying the bias of the viable cell enumeration process and its impact on microbial inactivation

*Alberto Garre, University of Cartagena, Spain*

04:35 – 04:55 pm

#### How evidence-based methodology can contribute to uncertainty assessment

*Sebastian Hoffmann, Johns Hopkins Bloomberg School of Public Health, USA*

04:55 – 05:15 pm

#### Assessing the borderline range of prediction models: Method and implications for decision-making

*Silke Gabbert, Wageningen University & Research, Netherlands*

05:15 – 05:35 pm

#### Characterisation of the conceptual model uncertainty in radioecology

*Laura Urso, Federal Office for Radiation Protection, Germany*

05:35 pm Dinner

## Friday 22 February 2019

### Topic III: Communication of uncertainties

09:00 – 09:30 am

#### Uncertainties about the communication of uncertainties

*Michael Siegrist, ETH Zurich, Switzerland*

09:30 – 09:50 am

#### Communicating probability with natural frequencies and the equivalent binomial count

*Scott Ferson, University of Liverpool, United Kingdom*

09:50 – 10:20 am

#### Representing and expressing uncertainties and risk in a scientific context

*Terje Aven, University of Stavanger, Norway*

10:20 – 10:55 am Coffee break and poster viewing

### Topic IV: Accounting for uncertainty in decision making

10:55 – 11:25 am

#### Reflections on framing and making decisions in the face of uncertainty

*Granger Morgan, Mellon University, USA*

11:25 – 11:45 am

#### Scenario comprehensiveness in risk analysis

*Edoardo Tosoni, Aalto University, Finland*

11:45 am – 12:05 pm

#### Accounting for uncertainty under REACH registration versus authorisation decision making processes

*Frederik Verdonck, ARCHE-Consulting, Belgium*

12:05 – 12:25 pm

#### Uncertainty characterisation in Integrated Approaches to Testing and Assessment (IATA) for chemical risk assessment – mapping of available guidance and identification of gaps

*Andrea Richarz, European Commission Joint Research Centre, Italy*

12:25 – 01:40 pm Lunch break