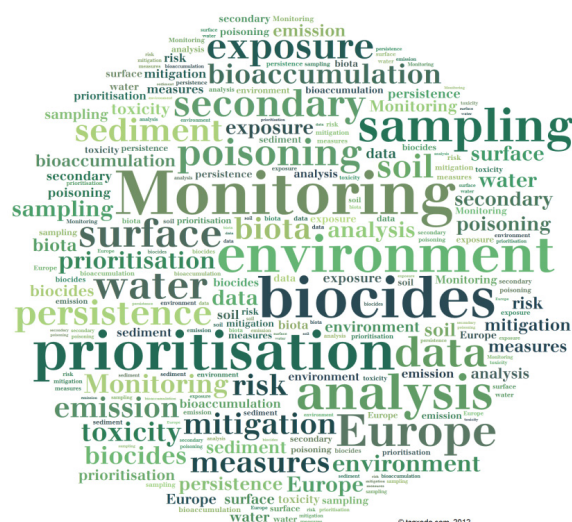


Workshop Programme

Environmental monitoring of biocides in Europe - from prioritisation to measurements

November 5-6, 2012 in Berlin



The European Biocidal Product Directive 98/8/EC (BPD) on placing biocidal products on the market was adopted in 1998 and subsequently transposed into national law by the EU member states. It will be replaced by EU regulation No 528/2012 which will be applied from September 1, 2013. A number of biocidal active substances is already authorised under the BPD (positive list in Annex I/Ia), but many of the substances are still under assessment (biocide review programme). The implementation of the BPD already caused a change in the use of biocidal active substances in Europe. A number of substances has been withdrawn from the market, or will be withdrawn soon as a consequence of non-inclusion decisions. Additionally, the use of certain biocidal substances will be restricted by risk mitigation schemes.

Environmental monitoring can help in assessing whether the implementation of the BPD has positive effects on the environmental quality (Are lower concentrations detected in recent years?), whether there is a risk (Are the measured environmental concentrations below the derived PNEC?), and whether the exposure estimations applied for risk assessment are realistic (Are the modelling results consistent with the monitoring data?).

This international workshop will be held jointly by the German Federal Environment Agency (Umweltbundesamt) and NORMAN, a network of reference laboratories and research centres for monitoring emerging environmental pollutants (<http://www.norman-network.net>). The workshop should be a platform to exchange existing information and data on exposure pathways for biocides, prioritisation of biocides for a monitoring, on practical issues regarding sampling and analysis, and on monitoring data handling and evaluation. The number of workshop participants from European countries is limited to 60 persons.

Organising committee

Heinz Rüdel, Fraunhofer IME, Schmallenberg (email heinz.ruedel@ime.fraunhofer.de)

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Workshop programme

Day 1 November 5, 2012

09:00 - 09:30	Registration / coffee
09:30	Welcome address Klaus G. Steinhäuser, Umweltbundesamt, Dessau-Rosslau (DE)
09:40	Introduction Chair: Klaus G. Steinhäuser, Umweltbundesamt, Dessau-Rosslau (DE)
09:40 - 09:55	Why is a biocide monitoring necessary? Introduction of the regulatory background // Ingrid Nöh, Stefanie Jäger, Silke Müller-Knoche, Umweltbundesamt, Dessau-Rosslau (DE)
09:55 - 10:10	The NORMAN network - Gathering information on occurrence and environmental effects of emerging substances // Valeria Dulio, NORMAN, Verneuil-en-Halatte (FR), Jaroslav Slobodnik, Environmental Institute, Kos (SK)
10:10	Session I - General aspects of (biocide) monitoring Chair: Klaus G. Steinhäuser, Umweltbundesamt, Dessau-Rosslau (DE)
10:10 - 10:30	Analytical Methods for monitoring of biocides in the environment - are the data requirements sufficient? // Angelika Steinborn, Lutz Alder, Federal Institute for Risk Assessment (BfR), Berlin (DE)
10:30 - 10:55	(Biocide) monitoring in European legislation - The WFD example // Bernd M. Gawlik, European Commission, Joint Research Centre, Ispra (IT)
10:55 - 11:20	European Environmental Specimen Banks // Jan Koschorreck, Umweltbundesamt, Berlin (DE)
11:20 - 11:40	Survey of biocide environmental monitoring data in Germany // Burkhard Knopf, Fraunhofer IME, Schmallenberg (DE), Stefanie Jäger, Stefanie Wieck, Silke Müller-Knoche, Ingrid Nöh, Umweltbundesamt, Dessau-Rosslau (DE)
11:40 - 12:00	Proposal for the prioritisation of biocides for environmental monitoring // Heinz Rüdell, Fraunhofer IME, Schmallenberg (DE), Stefanie Jäger, Stefanie Wieck, Silke Müller-Knoche, Ingrid Nöh, Umweltbundesamt, Dessau-Rosslau (DE)
12:00 - 13:30	lunch break and poster session
13:30	Session II - biocide monitoring in surface waters Chair: Petra Greiner, Umweltbundesamt, Dessau-Rosslau (DE)
13:30 - 13:50	Antifouling biocides in German coastal and inland waters - How reliable are exposure prognoses of EU emission scenario models for marinas? Burkard T. Watermann, LimnoMar, Hamburg (DE), Michael Feibicke Umweltbundesamt, Berlin-Marienfelde (DE)
13:50 - 14:10	Monitoring of selected biocides - experiences from Bavaria // Manfred Sengl, Siegfried Frey, Katharina Späth, Bavarian Environment Agency (LfU), Munich (DE)
14:10 - 14:30	Status of biocide monitoring in North-Rhine Westphalia, Germany // Harald Rahm, Friederike Vietoris, North-Rhine-Westphalia State Environment Agency LANUV, Düsseldorf (DE)
14:30 - 14:50	Biocide monitoring in Switzerland // Nicole Munz, Christian Leu, Federal Office for the Environment (FOEN), Bern (CH), Irene Wittmer, Eawag, Dübendorf (CH)
14:50 - 15:10	Status of biocide monitoring in France // Alice James-Casas, Valeria Dulio, Sandrine Andres, INERIS, Verneuil-en-Halatte (FR)
15:10 - 15:40	coffee break and poster session

- 15:40 **Session III - biocide monitoring in soils, urban environments and biota**
Chair: Ingid Nöh, Umweltbundesamt, Dessau-Rosslau (DE)
- 15:40 - 16:00 Biocides in facades - State of knowledge // Michael Burkhardt, Conrad Dietschweiler, HSR University of Applied Sciences, Rapperswil (CH), T. Wangler, ETH Zürich Institute for Technology in Architecture, Zurich (CH)
- 16:00 - 16:20 Monitoring of biocides from urban sources compared to agricultural plant protection products // Irene Wittmer, H.-P. Bader, R. Scheidegger, H. Singer, C. Stamm, Eawag, Dübendorf (CH)
- 16:20 - 16:40 The occurrence of second generation anti-coagulant rodenticides in non-target raptor species in Norway // Katherine H. Langford, Malcolm Reid, Kevin V. Thomas, Norwegian Institute for Water Research (NIVA), Oslo (NO)
- 16:40 - 17:00 Anticoagulant rodenticides in non-target biota in Germany: residues in non-target small mammals // Jens Jacob, Anke Broll, Alexandra Esther, Detlef Schenke, Julius Kühn-Institut, Münster (DE), Erik Schmolz, Umweltbundesamt, Berlin (DE)
- 17:00 - 17:20 **General discussion and summary of day 1**
- 19:30 Workshop dinner (Ständige Vertretung, Schiffbauerdamm 8, 10117 Berlin; near Friedrichstrasse in the center of Berlin)

Day 2 November 6, 2012

- 09:00 **Session IV - Introduction to break-out groups**
Chair: Valeria Dulio, NORMAN, Verneuil-en-Halatte (FR)
- 09:00 - 09:20 Prioritisation of biocides for monitoring campaigns in Switzerland // Irene K. Wittmer, C. Moschet, H. Singer, C. Stamm, Eawag, Dübendorf (CH), M. Junghans, Ökotoxzentrum, Dübendorf (CH), Christian Leu, Nicole Munz, Federal Office for the Environment (FOEN), Bern (CH)
- 09:20 - 09:40 Analytical challenges for the analysis of biocides in aqueous and solid environmental matrices // Arne Wick, Kathrin Broeder, Michael Schluessener, Thomas Ternes, German Federal Institute of Hydrology BfG, Koblenz (DE)
- 09:40 - 10:00 Databases and exchange of monitoring data - experiences from NORMAN // Jaroslav Slobodnik, Environmental Institute, Kos (SK)
- 10:00 - 10:30 **coffee break and poster session**
- 10:30 - 12:00 **Parallel break-out groups**
- (A) Prioritisation of biocides for monitoring // facilitator/rapporteur: Bernd M. Gawlik, European Commission, Joint Research Centre, Ispra (IT), and Heinz Rüdell, Fraunhofer IME, Schmallenberg (DE)
- (B) Practical aspects of sampling and analysis // facilitator/rapporteur: Peter Lepom, Umweltbundesamt, Berlin (DE), and Jan Schwarzbauer, GGCP RWTH, Aachen (DE)
- (C) Data bases and exchange of monitoring data // facilitator/rapporteur: Gerlinde Knetsch, Umweltbundesamt, Dessau-Rosslau (DE), and Jaroslav Slobodnik, Environmental Institute, Kos (SK)
- 12:00 - 13:30 **lunch break and poster session**
- 13:00 - 14:00 **Reports from break-out groups in the plenary and discussion**
Chair: Heinz Rüdell, Fraunhofer IME, Schmallenberg (DE), Stefanie Jäger, Umweltbundesamt, Dessau-Rosslau (DE)
- 14:00 - 14:30 **Conclusions and closure of the workshop**

Poster

- 1. Preparation of a prioritization concept for the monitoring of biocides - Refinement of the data set used for the regulation of biocides**
Stefanie Jäger et al.
- 2. Verification of the success of recent use restrictions for tributyltin by retrospective monitoring of archived biota samples from North and Baltic Sea**
Burkhard Knopf et al.
- 3. Retrospective monitoring of methyltriclosan in freshwater fish covering the period 1992 - 2008**
Heinz Rüdell et al.
- 4. Triclosan and Methyltriclosan in suspended particulate matter - Results from the German Environmental Specimen Bank (GESB)**
Ricking, M. et al.
- 5. Long-term monitoring of second-generation anticoagulant rodenticides in non-target wildlife in the UK**
Richard F. Shore et al.
- 6. Monitoring Impacts of Vertebrate Pesticides in the UK: 1993 to 2011**
Alan Buckle and Colin Prescott
- 7. Non-target screening analyses of organic contaminants in river systems as a base for monitoring measures**
Jan Schwarzbauer and Mathias Ricking
- 8. The use of experimental data to estimate long term biocide leaching ratios from wooden facades**
Morten Klamer
- 9. Dynamics of biocide emissions from buildings in a suburban stormwater catchment**
Ulla E. Bollmann et al.
- 10. Emission Scenario Documents (ESD) for biocidal products: Data refinement via questionnaires**
Nathalie Costa Pinheiro et al.