

Topical Scientific Workshop on Soil Risk Assessment Helsinki, 7 – 8 October, 2015

Programme





Day 1, 7 October 2015

08:15 — 08:45	Registration of participants presenting posters Poster exhibition set-up	
08:45 — 09:15	Registration of participants	
Chairmen: Anu Kapanen, ECHA and José Tarazona, EFSA		
09:30 — 09:45	Introduction	
09:45 — 10:00	Welcome Jukka Malm, Deputy Executive Director, ECHA	
10:00 — 11:15	Soil Risk Assessment in the regulatory context Marta Sobanska, ECHA Maria Arena, EFSA David W. Charters, US EPA Janet Cermak, Environment Canada	
11:15 — 11:45	Coffee break, exhibition area	
11:45 — 12:15	Protection goals and conceptual models How science can support risk managers on what to protect? Jose Tarazona, EFSA	
12:15 — 12:45	Overview of processes driving the exposure of chemicals in soil Willie Peijnenburg, RIVM	
12:45 — 13:15	Laboratory and higher-tier effect tests in soil ecotoxicology: state-of-the-art and new developments Jörg Römbke, ECT GmbH	

13:15 – 14:15 Lunch, canteen

Day 1 (cont.), 7 October 2015

14:15 — 14:30	Introduction to the break-out groups
	Charmaine Ajao, ECHA

14:30 - 18:00 Break-out groups (16:00 - 16:30 *Coffee break*)

1. Problem definition and conceptual model for soil risk assessment

Chairs: Marc S. Greenberg (US EPA), Kees Romijn (Bayer CropScience), Janet Cermak (Environment Canada)

Focus

- Protection goals and ecological relevance
- Risk characterisation and environmental impact assessment
- Scientific consistency and differences within regulatory processes

Case studies

- 1) Making soil protection goals based on the ecosystem services concept operational in ecotoxicological risk assessments, Gregor Ernst, Bayer CropScience AG
- 2) Bioavailability based approaches for soil risk assessment of metals: Regional differences arising from distributions of soil chemical properties, Christian Schlekat, Nickel Producers Environmental Research Association

2. Environmental exposure and fate assessment

Chairs: Willie Peijnenburg (RIVM), Mark Egsmose (EFSA) **Focus**

- Environmental fate and release patterns related to soil exposure and available tools
- Behaviour processes within soil and its contribution to the bioavailability for soil organisms exposure: distribution, quantification of exposure, formation of degradation products/metabolites, aging, leaching, bioavailability and bound residues, specificities for various groups of chemicals

Case studies

- 1) Practical examples on how the EFSA Guidance Document for predicting environmental concentrations of substances in soil can be used, Mark Egsmose, EFSA and Michael Klein, Fraunhofer IME
- 2) From bioavailability science to regulation of organic chemicals, Jose Julio Ortega-Calvo, Institute of Natural resources and Agrobiology

3. Effect assessment

Chairs: Veronique Poulsen (ANSES), Paulo Sousa (Uni Coimbra) Focus

- Effect assessment for soil functions, assessment of relevance and available tools
- Effects assessment for soil organisms (including plants) exposed by soil, relevant taxonomic groups acute versus chronic testing and experimental tools
- Effects assessment for soil organisms (including plants) through multiple exposure routes by soil
- Effect assessment in higher tier studies (i.e. acceptability criteria)

Case studies

- Application of Equilibrium partitioning-based model framework for evaluating soil (and sediment) hazards of lipophilic nonpolar organic substances Aaron Redman, ExxonMobil Biomedical Sciences, Inc.
- 2) Assessing the risks of pesticides to soil communities using terrestrial model ecosystems, Björn Scholz-Starke, RWTH Aachen University

Day 1 (cont.), 7 October 2015

18:00 - 18:30	Wrap-up
18:30 - 19:45	Cocktail reception, lobby Marie Curie

Day 2, 8 October 2015

Chairmen: Anu Kapanen, ECHA and José Tarazona, EFSA

08:15 — 08:50	Registration of participants
08:50 — 09:00	Introduction
09:00 — 09:20	Case study 1 : Critical comparison of the schemes used to assess Soil exposure under Pesticide, Biocide and REACH legislation Bruce Callow, Exponent International Ltd
09:20 — 09:40	Case study 2 : Application of improved scientific approaches in support of risk assessment within the European REACH and Biocides Regulations – a case study on metals Koen Oorts, ARCHE
09:40 — 10:00	Case study 3: Performing soil risk assessments using aquatic hazard information only: how well can it capture all the risks? Michiel Claessens, Chemours
10:00 - 10:20	Case study 4 : Compilation of case studies with challenges in regulatory soil risk assessment Romanas Cesnaitis, ECHA
10:20 — 10:40	Case study 5: Risk assessment for in soil organisms: future approaches and perspective Maria Arena, EFSA
10:40 - 11:15	Coffee break, K-level
11:15 — 13:00	Break-out group discussions continue
13:00 - 14:00	Lunch, canteen
14:00 — 16:00	Presentations from the break-out groups and discussion Chairmen/rapporteurs of the break-out groups
	 Problem definition and conceptual model for soil risk assessment Environmental exposure and fate assessment Effect assessment
16:00 - 17:00	Discussion/Panel with chairmen of the break-out groups
17:00 — 17:30	Summary and conclusions
17:30 - 18:00	Poster exhibition dismantling