

Final programme

for NoMiracle - PHIME conference

Multiple Stressors – Novel Methods for Integrated Risk Assessment
Aarhus, 28th–30th September 2009

Day 1		Monday 28 September 2009	
8:30 – 9:15	Registration: Lakeside Lecture Theatre 1250		
PLENARY SESSION	Bartholin Building 1240 Setting the stage <i>Chair: Dr. Peter Pärt, Co-chair: Dr. Hans Løkke</i>		
9:30 – 9:40	Welcome address <i>Rector Lauritz B. Holm-Nielsen, Aarhus University, Denmark</i>		
9:40 – 10:00	Welcome and introduction to the Conference <i>Dr. Hans Løkke, NoMiracle Coordinator, Denmark</i>		
10:00 – 10:30	Keynote: Protecting human health and ecosystems – connecting novel research, practice and policy on multiple stressors <i>Dr. Dorota Jarosinska, European Environmental Agency (EEA), Denmark</i>		
10:30 – 11:00	Coffee & Tea Break, Lakeside Lecture Theatre 1250		
11:00 – 11:30	Keynote: Human variability in toxicokinetics, chemical mixtures and uncertainty factors for chemical risk assessment <i>Dr. Jean Lou Dorne, European Food Safety Agency (EFSA), Italy</i>		
11:30 – 12:00	Keynote: Multiple Stressors – Novel Methods for Integrated Risk Assessment <i>Dr. Bruno Hubsch, European Chemical Industry Council (CEFIC), Belgium</i>		
12:00 – 12:30	Discussion		
12:30 – 13:30	Lunch, Lakeside Lecture Theatre 1250		
PARALLEL SESSIONS	1 Lakeside Lecture Theatre, Aud. 2 Building 1250 Combined effects of natural stressors and chemicals <i>Chair: Dr. Jürg Oliver Straub</i> <i>Co-chair: Prof. Martin Holmstrup</i>	2 Lakeside Lecture Theatre, Aud. 3 Building 1250 New concepts and techniques in fate and exposure assessment <i>Chair: Prof. Gerrit Schüürmann</i> <i>Co-chair: Prof. Philipp Mayer</i>	
13:30 – 13:55	Integration of natural stressors in ecotoxicology: trends and future directions <i>Prof. Martin Holmstrup, Aarhus University, Denmark</i>	Abraham model for K_{mw} as new surrogate for predicting bioconcentration and baseline toxicity <i>Prof. Gerrit Schüürmann, Helmholtz Centre for Environmental Research – UFZ, Germany</i>	
13:55 – 14:20	Interactions between natural environmental factors and toxic chemicals – a metaanalysis <i>Prof. Ryszard Laskowski, Jagiellonian University, Poland</i>	"Chemical activity" as a key parameter describing available exposure <i>Prof. Philipp Mayer, Aarhus University, Denmark</i>	
14:20 – 14:45	Effects of chemical and thermal stress on the bank vole, <i>Myodes glareolus</i> <i>Dr. Renata Swiergosz-Kowalewska, Jagiellonian University, Poland</i>	Passive dosing to control the exposure level of hydrophobic compounds and their mixtures <i>Dr. Kilian E. C. Smith, Aarhus University, Denmark</i>	
14:45 – 15:10	Chemicals and "natural" stressors: conceptual relations and implications for assessments <i>Dr. Timo Assmuth, Finnish Environmental Institute, Finland</i>	A water-sediment screening tool for measuring biodegradation of organic chemicals <i>Thomas Junker, ECT Oekotoxikologie GmbH, Germany</i>	
15:10 – 15:40	Coffee & Tea Break, Lakeside Lecture Theatre 1250		
15:40 – 16:05	Ecological vulnerability analysis as new conceptual technique in risk assessment <i>Dr. Marieke De Lange, Alterra, The Netherlands</i>	Modelled and monitored variation in space and time of PCB153 concentrations in air, sediment, soil and aquatic biota on a European scale <i>Dr. Mara Hauck, Radboud University, The Netherlands</i>	
16:05 – 16:30	Ecological exposure model for assessing the risk of chemical and non-chemical stressors to terrestrial vertebrates <i>Dr. Mark Loos, Radboud University, The Netherlands</i>	Modelling historical and recent human cadmium exposure in a zinc smelter area – a Belgian case study <i>Dr. Arnout R. Standaert, VITO, Belgium</i>	
16:30 – 16:55	Screening-level diagnosis of multi-stress impacts in natural species assemblages: practical eco-epidemiology <i>Dr. Leo Posthuma, RIVM, The Netherlands</i>	A full chain mechanistic approach assessing exposure to multi-source air pollutants and cancer risk <i>Dr. Dimosthenis Sarigiannis, Joint Research Centre of the European Commission, Italy</i>	
16:55 – 17:30	Discussion		
19:00	Conference dinner, University Building 1530		

Day 2 Tuesday 29 September 2009		
PARALLEL SESSIONS	1 Lakeside Lecture Theatre, Aud. 2 Building 1250 Mixture effects – description and prediction <i>Chair: Dr. David Spurgeon</i> <i>Co-chair: Dr. Claus Svendsen</i>	2 Lakeside Lecture Theatre, Aud. 3 Building 1250 Risk of mixed exposures to metals <i>Chair: Prof. Staffan Skerfving</i> <i>Co-chair: Prof. Alfred Bernard</i>
	8:30 – 9:00	Assessing mixture effects using a systematic biology approach <i>Dr. David Spurgeon, Population, Molecular and Community Ecology Centre for Ecology & Hydrology, UK</i>
9:00 – 9:30	Cell-based screening methods in immunotoxicology – benefits and limitations <i>Prof. Albert Duschl, University of Salzburg, Austria</i>	Public health impact of long-term, low-level mixed elements exposure in susceptible population strata – results from the EU project PHIME <i>Prof. Staffan Skerfving, PHIME Coordinator, Lund University, Sweden</i>
9:30 – 10:00	Coffee & Tea Break, Lakeside Lecture Theatre 1250	
10:00 – 10:30	Mixture toxicity studies with zebrafish (<i>Danio rerio</i>) and chironomids (<i>Chironomus riparius</i>): effects on different biological levels <i>Miriam Langer, LimCo International, Germany</i>	Mechanisms to cope with cadmium excess in plants <i>Prof. Michael Gjedde Palmgren, University of Copenhagen, Denmark</i>
10:30 – 10:55	Systems biology assessment of binary mixture effects in the social amoeba <i>Dictyostelium discoideum</i> <i>Dr. Francesco Dondero, DISAV, University of Piemonte Orientale, Italy</i>	Exposure to metals from ferroalloy plants: preliminary results of exposure assessment and neurofunctional survey in Italian adolescents <i>Dr. Silvia Zoni, University of Brescia, Italy</i>
10:55 – 11:20	Assessment of the potential of prochloraz to enhance the effect of esfenvalerate in aquatic microcosms <i>MSc. Maj-Britt Andersen, University of Copenhagen, Denmark</i>	Mixed exposure to metals and oxidative DNA damage, influence of gene-metal interactions – report from ongoing projects <i>Dr. Karin Broberg, Lund University, Sweden</i>
11:20 – 11:45	Anomalous behaviour of chemical binary mixtures <i>Prof. Miloň Tichý, National Institute of Public Health, Czech Republic</i>	Mercury as a risk factor for myocardial infarction and stroke: the Northern Sweden Study <i>MSc. Maria Wennberg, Umeå University, Sweden</i>
11:45 – 12:15	Development of a toxicological database to aid the risk assessment of exposure to mixtures of compounds <i>Dr. Richard Glass, Food and Environment Research Agency, UK</i>	Impact of lead, cadmium and inorganic mercury on the health of adolescents: a biomarkers study in Belgium <i>Prof. Alfred Bernard, Catholic University of Louvain, Belgium</i>
12:15 – 12:30	Discussion	
12:30 – 13:30	Lunch, Lakeside Lecture Theatre 1250	
PARALLEL SESSIONS	1 Lakeside Lecture Theatre, Aud. 2 Building 1250 Mixture effects – patterns and trends <i>Chair: Dr. David Spurgeon</i> <i>Co-chair: Dr. Dorota Jarosinska</i>	2 Lakeside Lecture Theatre, Aud. 3 Building 1250 Integrated risk concepts and governance <i>Chair: Prof. Mikael Hildén</i> <i>Co-chair: Dr. Ad Ragas</i>
	13:30 – 13:55	Deviations from the reference models and the possibility of predicting higher level mixture effects from binary mixture toxicity results. <i>Dr. Claus Svendsen, Population, Molecular and Community Ecology Centre for Ecology & Hydrology, UK</i>
13:55 – 14:20	Assessing ecotoxicological risk for pesticide mixtures in aquatic and terrestrial ecosystems <i>Prof. Marco Vighi, University of Milano Bicocca, Italy</i>	Developing a framework for research on individual-level Medical Risk Management <i>Dr. Laurel Austin, Copenhagen Business School and University of Copenhagen, Denmark</i>
14:20 – 14:45	Mixtures of hormetic compounds: what do you get? <i>Dr. Nina Cedergreen, University of Copenhagen, Denmark</i>	Risk governance from cumulative stressors <i>Dr. Christina Benighaus, DIALOGIK, Germany</i>
14:45 – 15:10	Critical aspects and future perspective in assessing ecotoxicological risk for aquatic and terrestrial communities <i>Dr. Serenella Sala, University of Milano Bicocca, Italy</i>	The interface between Risk Assessors and Risk Managers in the emerging European Risk Regulatory Mode <i>Prof. Alberto Alemanno, HEC Paris, Luxembourg</i>
15:10 – 15:25	Discussion	
15:25 – 15:50	Coffee & Tea Break, Lakeside Lecture Theatre 1250	
POSTER SESSION	Chemical fate and exposure <i>Chair: Prof. Gerrit Schüürmann</i> Effects of mixtures of chemicals and combinations of chemicals and other stressors <i>Chair: Dr. Claus Svendsen</i>	Cumulative risks in complex systems <i>Chair: Dr. Ad Ragas</i> Risk perception, risk communication and assessment-governance links <i>Chair: Prof. Mikael Hildén</i>
	15:50 – 16:35	Short presentation of posters / Poster corners
16:35 – 18:00	P O S T E R S	
19:00	Official reception, Aarhus Townhall	

Day 3		Wednesday 30 September 2009	
PARALLEL SESSIONS	1 Lakeside Lecture Theatre, Aud. 2 Building 1250 New concepts and techniques for risk assessment <i>Chair: Dr. Ad Ragas</i> <i>Co-chair: Prof. Mikael Hildén</i>	2 Lakeside Lecture Theatre, Aud. 3 Building 1250 Risk presentation and visualisation <i>Chair: Dr. Peter van den Hazel</i> <i>Co-chair: Dr. Joost Lahr</i>	
	9:00 – 9:30 Probabilistic ecotoxicological assessment factors <i>Dr. Mijke van Oorschot, Radboud University, The Netherlands</i>	Maps as tools to visualise cumulative risks of pollutants <i>Dr. Joost Lahr, Alterra, The Netherlands</i>	
9:30 – 10:00 Soil quality and ecosystem services <i>Dr. Jack Faber, Alterra, The Netherlands</i>	GIS-based decision support systems for spatial-oriented assessment and communication of ecological and human health risks <i>Prof. Antonio Marcomini, University Ca' Foscari of Venice, Italy</i>		
10:00 – 10:30 Coffee & Tea Break, Lakeside Lecture Theatre 1250			
10:30 – 11:00 The critical issue of finding worst-case <i>Dr. Peter Borgen Sørensen, Aarhus University, Denmark</i>	Geographically based indicator for pesticide risk <i>Dr. Christian Kjær, Aarhus University, Denmark</i>		
11:00 – 11:30 Can uncertainty analysis be harmonised within the FP6 funded IP projects when dealing with health impact assessments? <i>Dr. Alexandre Zenié, Joint Research Centre of the European Commission, Italy</i>	A cumulative assessment of pesticides in Europe <i>Dr. Alberto Pistocchi, Joint Research Centre of the European Commission, Italy</i>		
11:30 – 12:00 Toxicity profiling: an effect-based integrative tool for water quality assessment <i>Dr. Timo Hamers, VU University, The Netherlands</i>	Risks in Urbana: A showcase for novel methods to assess cumulative risks <i>MSc. Louise Preeker, Radboud University, The Netherlands</i>		
12:00 – 12:30 Discussion			
12:30 – 13:30 Lunch, Lakeside Lecture Theatre 1250			
PLENARY SESSION	Bartholin Building 1240		
13:30 – 14:45	World Café: Dealing with uncertainty and ambiguity in risk management <i>Organised by Prof. Mikael Hildén, and Dr. Ad Ragas</i>		
14:45 – 15:00 Coffee & Tea Break, Lakeside Lecture Theatre 1250			
15:00 – 16:00	Panel discussion: Strategies for testing and risk assessment of multiple stressors: Is a shift of paradigm and change of test guidelines possible? Marked advances, reduced uncertainty and even less testing may be obtained by introducing novel methods in guidelines for current risk assessment such as distinct characterisations of compound-matrix interactions in terms of H-bounding QSAR prediction and chemical activity assessment, and prediction of mixture toxicity in time using Dynamic Energy Budget-based approaches <i>The panel discussion is introduced by Prof. Philipp Mayer, and Dr. Jan Baas, giving the scientific background</i> <i>Chair: Dr. Hans Løkke</i> <i>Panel:</i> <i>Dr. Peter Pärt, Health and Environment Interactions, European Commission, Italy</i> <i>Dr. Jean Lou-Dorne, European Food Safety Agency (EFSA), Italy</i> <i>Dr. Bruno Hubesch, European Chemical Industry Council (CEFIC), Belgium</i> <i>MSc. Magnus Løfstedt, Danish Environmental Protection Agency, Denmark</i> <i>Prof. Staffan Skerfving, PHIME Coordinator, Lund University, Sweden</i>		
16:00	Closure of the conference		