



09:00 Registration and coffee

WELCOME AND OPENING OF THE MEETING

09:45 Welcome speech, *Anders Rubin*, City of Malmö and *Marie Arnér*, president of Renare Mark

NATIONAL POLICIES IN THE NORDIC COUNTRIES

Chair: *Tone Westby*, Statsbygg and *Reetta Piskonen*, WSP

10:00 Status and policy on contaminated sites, *Yvonne Österlund*, Swedish EPA, *Anna-Majja Pajukallio*, Ministry of the environment, Finland and *Cornelis A. Meyles*, Environment and Food Agency of Iceland

11:00 **Short break**

11:20 Status and policy on contaminated sites (cont'd), *Ingvild Marthinsen*, Norwegian Pollution Control Authority (SFT) and *Ole Küllerich*, Danish EPA

12:00 Panel debate on Nordic and European conditions. What do the EU directives actually say about contaminants? *Yvonne Österlund* (Swedish EPA), *Anna-Majja Pajukallio* (Ministry of the environment, Finland) *Cornelis A. Meyles* (Environment and Food Agency of Iceland), *Ingvild Marthinsen* (Norwegian Pollution Control Authority) and *Ole Küllerich* (Danish EPA). Debate leader: *Wouter Gevaerts*, ARCADIS, Belgium

12:30 **Lunch**

Parallel session 1

CONTAMINATED WATERS AND SEDIMENTS

Chair: *Jens Skei*, Norwegian Institute for Water Research

13:30 Sediment remediation in Norway, *Jens Skei*, NIVA

13:55 The Svärtsjö project: environmental dredging and dewatering of pulp-and-paper sludges, *Stany Pensaert*, DEC NV

14:20 Results from monitoring remediation of mercury contaminated sediments in Lake Turingen, *Andrew M. Peterson*, WSP

14:45 **Coffee and exhibition**

15:30 Speciation and bioavailability of mercury in contaminated sediments in Sweden, *Andreas Drott*, Swedish University of Agricultural Sciences

15:55 Organic chemicals in sediment: novel methods for improved risk assessment and in situ remediation, *Gerard Cornelissen*, Stockholm University

16:20 Contamination of fjords by urban run-off, *Arne Pettersen*, Norwegian Geotechnical Institute

16:45 Discussion and summary

Parallel session 2

CONTAMINANT LEACHING

Chair: *David Bendz*, Swedish Geotechnical Institute

13:30 Introduction to contaminant leaching – how to get from lab-scale results to field-scale predictions. *David Bendz*, SGI

13:55 Comparison of leaching methods for the estimation of bioavailability in two CCA-contaminated soils, *Daniel Ragnwaldsson*, Swedish Defence Research Agency

14:20 Standardised leaching tests for soil testing – results of work within ISO, *Uwe Fortkamp*, Swedish Environmental Research Institute

14:45 **Coffee and exhibition**

15:30 Comparison of leaching of PAHs from two contaminated soils under varying hydraulic retention times, *Anja Enell*, Lund Institute of Technology

15:55 Leaching tests in risk assessment – a project within the Swedish national programme Hållbar Sanering, *Ebba Wadstein*, SGI & *Gabriella Fanger*, Kemakta

16:20 Landfill leachate treatment in cold climate, *Amund Gaut* SWECO Grøner AS

16:45 Discussion and summary

17:00 The beer pump opens in the exhibition area

19:00 Conference Dinner

Dance night with live music



Programme

STATE-OF-THE-ART PROJECTS FROM THE NORDIC COUNTRIES

Chair: *Lars Elkjær*, DGE

- 08:30** Remediation of TBT contamination at Vuosaari harbour in Helsinki, *Ari Piuspanen*, Rambøll Finland
- 08:50** Groundwater pollution of PCE in Hagfors, Sweden, *Jan Nilsen*, SWECO VIAK
- 09:10** **Short break**
- 09:20** Remediation due to creosote contamination in wetlands in Råde, Norway, *Gunnar Broenstad*, Multiconsult AS
- 09:40** Environmental solutions for military shooting ranges in Norway and Finland, *Sara Kajander*, Construction Establishment of Finnish Defence Administration
- 10:00** Risk communication concerning contaminated land – a project within the Swedish national programme Hållbar Sanering, *Johan Asplund*, WSP
- 10:20** Discussion and summary
- 10:30** **Coffee and exhibition**

Parallel session 3

REMEDICATION TECHNOLOGIES

Chair: *Tom Heron*, NIRAS

- 11:00** Source zone remediation with innovative technologies, *Tom Heron*, NIRAS
- 11:20** Advances in biological in-situ remediation: Full scale applications in the Netherlands, Mr. *Maurice Hensen*, Bioclear
- 11:40** Experiences of Applied Remediation Technologies and Solutions in Sweden 1995–2005, *Berit Juwonen*, Tyréns
- 12:00** Full scale testing of sediment remediation technologies for Nordic conditions, *Jens Laugesen*, DNV Consulting
- 12:20** Discussion and summary
- 12:30** **Lunch**
- 13:30** Demonstration of the use of monitored natural attenuation (MNA) as a remediation technology – DEMO-MNA, *K.S. Jørgensen*, Finnish Environment Institute (SYKE)
- 13:50** Recent developments for fungal bioremediation technologies of soil, *Marja Tuomela*, University of Helsinki
- 14:10** Field Demonstration of Biostimulation and Bioaugmentation for Remediation of Chlorinated Solvents in a Sand Aquifer, *Neal D. Durant*, GeoSyntec Consultants, USA
- 14:30** Remediation of residual sludge from soil washing, *Pernille E. Jensen*, Technical University of Denmark
- 14:50** Discussion and summary
- 15:00** **Coffee**

Parallel session 4

RISK ASSESSMENT

Chair: *Jaana Sorvari*, Finnish Environment Institute

- 11:00** A Methodology to Prioritize Remediation Technologies, *Jaana Sorvari*, Finnish Environment Institute
- 11:20** Experience from the Shell Sola refinery remediation project, *Ola Bruskeland*, Multiconsult AS
- 11:40** Spatial risk assessment at contaminated sites; benefits and limitations, *Niklas Törneman*, SWECO VIAK
- 12:00** Quality management of site investigations, *Lizzi Andersen*, DHI Water & Environment
- 12:20** Discussion and summary
- 12:30** **Lunch**
- 13:30** Updating of Norwegian soil quality guidelines and inclusion of new substances, *Mona Weideborg*, Aquateam
- 13:50** Risk-based prioritization of contaminated sites, *Lars Rosén*, SWECO VIAK
- 14:10** Human exposures from contaminated areas in relation to background exposure – a comparison between different sources, *Annika Åberg*, Umeå University
- 14:30** What do you mean by bioavailability? *Rodney L. Stevens*, Göteborg University
- 14:50** Discussion and summary
- 15:00** **Coffee**

CLOSING OF THE MEETING

Chair: Nordic Organizing committee

- 15:15** Soil contaminants in the future, *Mats Tysklind*, Environmental Chemistry, Umeå University
- 15:45** Closing remarks on NORDROCS 2006