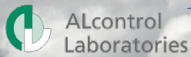


NORDROCS 2014

5th Joint Nordic Meeting
on Remediation
of Contaminated Sites
15-18 September 2014

crossing borders



EMPIRIKON®



GEOSIGMA

Preliminary program
Registration Early bird
until 23 May 2014

Registration at www.nordrocs.org

VENUE: Clarion Hotel Sign, Stockholm

PROGRAM

The program is subject to possible changes

Monday, September 15, 2014

SHORT COURSES at Clarion Hotel Sign Stockholm

10.00 – 12.00 **Short course A** - Geochemical modelling,
Swedish Geotechnical Institute

Short course B – Reuse of material,
Swedish Geotechnical Institute

12.00 – 13.00 **Lunch**

13.00 – 17.00 **Short course A** - Geochemical modelling,
Swedish Geotechnical Institute (ends 16.30)

Short course C – Using the GeoProbe system for
high resolution investigations at contaminated sites,
NIRAS

18.30 – **Joint walk from the hotel to Stockholm City Hall**

19.00 – **Welcome reception at Stockholm City Hall**

Tuesday, September 16, 2014

09.00 – 10.00 **Registration and coffee**

10.00 – 12.00 **OPENING SESSION Banquet hall, Hotel Clarion Sign**

Malin Norin, NCC, Sweden, chair of Nätverket Renare Mark

Peter Harms-Ringdahl, Empirikon Konsult, Sweden, coordinator of the organizing committee of NORDROCS 2014

Chair: Jan Darpö, Professor, Department of Law, Uppsala University, Sweden

Key note speaker: Dominique Darmendrail - COMMON FORUM, General secretary, France

Nordic EPAs, strategies and visions followed by discussion with the audience

12.00 – 13.30 **Lunch, poster session and exhibition**

13.30 – 15.30 SESSION A

Sustainability

Chair: *Ingegerd Ask, Nyköping Municipality, Sweden*

Key note speaker: *Igor Linkow, Ph.D., US Army Engineer Research and Development Center, Adjunct Professor, Carnegie Mellon University, U.S.A*

A Sustainable Approach to Remediation of Kopeopeo Canal, New Zealand - *Rob Burden, Domain Environmental Ltd, New Zealand*

Re-use of material in Stockholm Royal Seaport - *Anna Pramsten, City of Stockholm, and Helena Hellgren, NCC Construction, Sweden –*

Initiatives towards sustainable use of excavated soil in the Capital Region of Denmark, and the creation of the Soil Portal – *Jens Gregersen, Capital Region of Denmark and Kristian Kirkebjerg, Grontmij, Denmark*

Incorporating sustainability into assessment and remediation of contaminated sites in Finland – *Jussi Reinikainen, Finnish Environment Institute, Finland*

SESSION B

Investigation and risk assessment

Chair: *Dominique Darmendrail - COMMON FORUM, General secretary, France*

Risk assessment of contaminated sites and diffuse sources to water resources - Key note speaker: *Poul Bjerg, Professor, Department of Environmental Engineering, Technical University of Denmark*

Assessment of soil-water partitioning of polycyclic aromatic compounds using passive samplers and leaching tests. – *Anja Enell, Swedish Geotechnical institute*

Comparison test on soil sampling containing volatile hydrocarbons - *Katarina Björklöf, Finnish Environment Institute and Miija Vepsäläinen, Vahanen Environment Oy, Finland*

Risk assessment of landfills in relation to surface water - *Sanne Skov Nielsen, Orbicon, Denmark*

Methodology for fast and reliable investigation and characterization of contaminated sites - *Jørgen Mølgaard Christensen, DGE Group A/S, Denmark*

15.30 – 16.30 Coffe break, poster session and exhibition.

16.30 – 17.30 SESSION C

Protecting indoor air

Chair: *Marja Tuomela, Ph.D., Research scientist, University of Helsinki, Finland*

Detecting intrusion pathways of contaminated soil gas to indoor air and describing remediation methods – *Børge Hvidberg, Central Denmark Region, Denmark*

Probabilistic risk assessment for six vapour intrusion algorithms - *Jeroen Provoost, Espoo, Independent Researcher, Finland*

Freon – a new contaminant in the field? - *Majbrith Langeland, Grontmij, Denmark*

SESSION D

New Technologies - Thermal

Chair: *Mads Terkelsen, Research and Development Manager, M.Sc. (geology), Capital Region of Denmark, Copenhagen*

In-Situ Thermal Treatment of Fractured Rock - *Gorm Heron, TerraTherm, Denmark*

Indoor thermal remediation in an old industrial area in the Capital Region of Denmark - *Katerina Hantzi, Capital Region of Denmark and Pernille Kjaersgaard, Orbicon, Denmark*

Thermal desorption - pilot testing in Machelen – *Beel Pieter, JV Jan De Nul-Envisan, Belgium*

19.00 – 24.00 Dinner, Wasa museum 19:00 (bus leaves 18:30)

Wednesday, September 17, 2014

08.30 – 10.00 SESSION E

New technologies - inorganic compounds

Chair: *Maria Sundesten, Golder Construction, Sweden*

Key note speaker: *Abir Al-Tabbaa, Ph.D., Reader in Geotechnical Engineering, Department of Engineering, Cambridge University, England*

In situ remediation and management of contaminated sites in Antarctica - *Tom Statham, The University of Melbourne, Australia*

Stabilization of metals in contaminated soils with zero-valent iron - evaluation of long term effects - *Charlotta Tibergh, Swedish University of Agricultural Sciences/ Swedish Geotechnical Institute, Sweden*

Failure of a Sediment Cap – a Case Study - *Gøril Aasen Slinde, Norwegian Geotechnical Institute, Norway*

SESSION F

Emerging contaminants

Chair: *Erika Winqvist, M.Sc. (Tech.), MTT Agrifood Research Finland*

Key note Speaker: *Ketil Hylland, Professor, Toxicology, Department of Biosciences, University of Oslo, Norway*

Search and you will find – emerging substances in contaminated land management - *Patrick A. W. van Hees, Eurofins Environment Testing Sweden*

Interactions of silver nanoparticles with sewage-sludge treated soils - *Aidin Geranmayeh, URS Nordic Sweden*

Survey and remediation of TNT in groundwater, sediment and Wastewater – *Emma Nehrenheim, Mälardalen University, Sweden*

10.00 – 10.30 Coffee break, posters and exhibition

10.30 – 12.00 SESSION G

New Technologies - organic

Chair: *Maria Sundesten, Golder Construction, Sweden*

Full-scale electrokinetic enhanced bioremediation (EK-BIO) of PCE DNAPL in clay till - *Evan Cox, Geosyntec, Canada*

Full scale in situ bioremediation of triacetin and polar organics - *Charlotte Riis, Niras, Denmark*

In situ alkaline hydrolysis (ISAH) of pesticides – a large scale demonstration project – *Morten Bondgaard, Central Denmark Region, Denmark*

Bioremediation of petroleum hydrocarbon contaminated soil: a case study in Thailand - *Associate Professor Dr. Prayad Pokethitiyook, Mahidol University, Bangkok, Thailand*

SESSION H

Contaminated sediments

Chair: *Jens Laugesen, Ph.D., Chief Specialist, DNV GL, Norway*

Key note speaker: *Kirsten Jørgensen, Ph.D., Marine Research Center, Finnish Environment Institute, Finland*

Pilot testing of freeze dredging, capping and timber removal to support remediation of mercury contaminated sediments - *Henrik Eriksson, Golder Associates, Sweden*

Trondheim harbor, Cleaner harbour – planning of remedial actions - *Marianne Kvennås, Norwegian Geotechnical Institute, Norway*

Lessons learned from nearly three decades of sediment remediation in the USA - *Rebecca Gardner, Anchor QEA AS, Norway*

12.00 – 13.30 Lunch, poster session and exhibition

13.30 – 14.40 SESSION I

Difficult Matrixes

Chair: *Mette Broholm, Associate Professor, Department of Environmental Engineering, Technical University of Denmark*

Strong natural attenuation of chlorinated solvent plumes in fractured sedimentary rock aquifers - Key note speaker: *Beth Parker, Ph.D., Professor and NSERC Industrial Research Chair, University of Guelph, School of Engineering, Canada*

Matrix diffusion in groundwater aquifers - *Henrik E. Steffensen, Niras, Denmark*

Field investigations of DNAPL contaminated fractured rock – *Rune Nordqvist, Geosigma, Sweden*

SESSION J

Mining

Chair: *Morten Jartun, Ph.D., Environmental hydrogeologist, Oslo Lufthavn, Norway*

Key note speaker: *Henning Holmström, Ph.D., Managing Director Tasman Metals AB, Sweden*

Approaches for reducing liabilities in tailings management - *Stany Pensaert, DEC NV, Belgium*

Mining in Norway – advantages and disadvantages for land and sea disposal of mine tailings – *Jens Laugesen, DNV GL, Norway*

14.40 – 15.10 Coffee break

15.10 – 16.45 CLOSING SESSION

Strategies and regulations

Chair: *Klas Köhler, County Board, Sweden*

Key note speaker: *Jan Darpo, Professor, Department of Law, Uppsala University, Sweden*

Development in public procurement of investigation strategy - *Anja Melvej, Central Denmark Region*

Large investigation of state funded remediations gives data base for future strategies – *Helena Fürst, WSP, Sweden*

Challenges in regulating dispersals of PFAS from contaminated ground and hazardous waste treatment plants in Norway - *Vanja Alling, Norwegian Environment Agency, Denmark*

Informal get together in the bar of Clarion sign in the evening

Thursday, September 18, 2014

09.00 – 13.30 Excursion to Stockholm Royal Seaport

INTERESTED IN SPONSORSHIPS?

Sponsorships are most welcome – min. 1.200 € (10.500 SEK). Sponsor logos will be presented on the official website and on all printed material, program and the conference compendium as well as on the main screen during breaks. More information about sponsorships can be found on the website www.nordrocs.org.

Please contact conference secretariat at info@renaremark.se, tel +46 708 473 475.

More information: www.nordrocs.org

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Photo of Stockholm City Hall by: Yanan Li

We look forward to exciting days in Stockholm!