



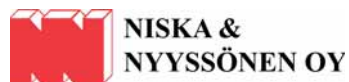
Final
Invitation

NORDROCS 2008

2nd Joint Nordic Meeting
on Remediation
of Contaminated Sites

September 24–25, 2008 • Helsinki, Finland

Sponsored by:



The Nordic countries hereby invite you to **NORDROCS 2008, the 2nd Joint Nordic Meeting on Remediation of Contaminated Sites** to be held in Helsinki, Finland, 24–25 September 2008.

OBJECTIVE

The objective of NORDROCS is to address issues on contaminated site remediation and assessment in the context of Nordic conditions. The purpose of the meeting is to provide a forum for the exchange of information gathered through research and project experience. Target groups include consultants, contractors, scientists, regulators and other professionals working with contaminated sites in the Nordic countries and in the countries around the Baltic Sea.

ORGANIZING COMMITTEE

Reetta Piskonen, WSP Environmental (MUTKU, Finland)
Maria Sundesten, Golder Associates (Renare Mark, Sweden)
Astrid Zeuthen-Jeppesen, Alectia A/S (ATV Jord og Grundvand, Denmark)
Arwe Misund, COWI (Miljøringen, Norway)
Cornelis A. Meyles, Environment and Food Agency (Iceland)



Nätverket
Renare Mark



ATV Jord og Grundvand

PLACE

Paasitorni Conference Centre, Paasivuorenkatu 5 A, Hakaniemi, Helsinki

EXHIBITION

NORDROCS 2008 hosts a commercial exhibition at Paasitorni Conference Centre, where various companies present their services on remediation of contaminated sites. The exhibition opens with the get-together at 18:00 on Tuesday, September 23, and ends at 17:00 on Thursday, September 25. The exhibition is open during the conference hours.

TOPICS

- Impact of EU directives on current policies and legislation in the Nordic countries
- Risk assessment
- Remediation of chlorinated solvents, organic pollutants and metal contamination
- Monitoring
- Decision support tools
- Re-use of contaminated soil
- Sediments

KEYNOTE SPEAKERS

Our keynote speakers will give us an introduction to the main topics of the meeting as follows:

- **Jussi Reinikainen**, Finnish Environment Institute: Experiences on risk-based assessment of soil contamination and remediation needs.
- **Kenneth Holm**, Finnish Environment Institute: Perspectives on re-use of contaminated soils.
- **Tomas Henrysson**, Swedish EPA: Sustainable Remediation – are we there yet?
- **Eva Brorström-Lundén**, IVLs Laboratories, Sweden: Monitoring of contaminated sites.
- **Lars Otto Reiersen**, Arctic monitoring and assessment program (AMAP), Norway: Global transport of pollutants.
- **Tom Heron**, NIRAS, Denmark: Innovative Technologies for Soil and Groundwater Remediation – Status and Challenges.
- **Carsten Bagge Jensen**, The Capital Region of Denmark: Decision support tools.
- **Dorte Balle Hermansen**, Danish Environmental Protection Agency: EU legislation on the remediation of contaminated land – the Environmental Liability Directive and the Directive on Soil Protection.
- **Cornelis A. Meyles**, Environment and Food Agency of Iceland: Soil contamination – Communication of governmental bodies to regional and municipal authorities and the public. Alexander Boronin, Russian academy of science (RAS): Use of plants and rhizosphere micro-organisms for bioremediation.



PROGRAMME AT ONE GLANCE

TUESDAY 23RD OF SEPTEMBER

Short course: “Accelerated Bioremediation of Chlorinated Solvents in Groundwater”

Registration opens

Get-together and light dinner buffet

WEDNESDAY 24TH OF SEPTEMBER

Registration

Opening of the meeting

Scientific and technical sessions

Poster exhibition

Commercial exhibition

Conference dinner

THURSDAY 25TH OF SEPTEMBER

Scientific and technical sessions

Poster exhibition

Commercial exhibition

Summary and closing of the meeting

FRIDAY 26TH OF SEPTEMBER

Excursions (preliminary programme, subject to changes)

State-of-the-art treatment methods

Remediation of contaminated sites in the capital area

PROGRAMME

Tuesday, September 23, 2008

8:30–16:30 Short Course:
**Accelerated Bioremediation of Chlorinated Solvents in
Groundwater**

Teachers:

Neal Durant – Geosyntec Consultants, USA

Evan Cox - Geosyntec Consultants, Canada

17:00 Registration opens

18:00–20:00 Get together

Place: All the events take place at the Paasitorni Conference Centre,
Paasivuorenkatu 5, Helsinki, unless otherwise noted.

The programme may be subject to minor changes.

PROGRAMME

Wednesday, September 24, 2008

09:00 Registration and Coffee

Session I

10:00 **Opening of the meeting**
Juha Sorvali, President of MUTKU

10:05 **Policies related to contaminated soils**

- EU Legislation on the Remediation of Contaminated Land – the Environmental Liability Directive and the Directive on Soil Protection.
Dorte Balle Hermansson, Danish Environmental Protection Agency
- Sustainable Remediation - Are we there yet?
Tomas Henrysson, Swedish EPA
- Soil contamination - Communication of Governmental Bodies to Regional and Municipal Authorities and the Public
Cornelis A. Meyles, Environment and Food Agency of Iceland

11:35 Break

11:45 **Remediation of Chlorinated Solvents**

- Innovative Technologies for Soil and Groundwater Remediation – Status and Challenges.
Tom Heron, NIRAS, Denmark
- Effective Remediation of Chlorinated Solvent Mixtures in Groundwater via Biostimulation and Bioaugmentation
Evan Cox, Geosyntec Consultants, Canada
- Use of Nano Scale Zero Valent Iron (Nzvi) for Ground Water Remediation
Pirjo Tuomi, Golder Associates, Finland

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Session II

11:45 **Remediation of Sediments**

- Stability Of Contaminated Sediments
Gijs D Breedveld, Norwegian Geotechnical Institute, Norway
- A Strategy For Environmental Risk Assessment Of Contaminated Sediments
John Sternbeck, WSP Environmental, Sweden
- Remediation And Re-Use Of Contaminated Soil And Sediments In Finland
Juha Väyrylä, Ekokem-Palvelu Oy, Finland

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>>> • Stimulated Reductive Dechlorination of 1,1,1-Trichloroethane in Mixed Chlorinated Solvent Contamination In Clayey Till
Charlotte Scheutz, Technical University of Denmark

13:15 Lunch

14:30 Remediation of Organic Contaminants

- Remediation of Toluene and 2-Nitrotoluene Contaminated Soil and Groundwater by MNA
Eerik Järvinen, Ramboll Analytics Oy, Finland
- Remediation of Soil on Former Creosote Wood Impregnation Facility in Elverum, Norway – A Case Study
Ola Nordal, Asplan Viak AS, Norway
- Chemical Oxidation of Pharmaceuticals and Pesticides at Kærgård Plantage and Høfde42
Niel Durant, Geosyntec Consultants, USA

15:30 Coffee break

16:00 Risk Assessment

- Experiences on Risk-based Assessment of Soil Contamination and Remediation Needs
Jussi Reinikainen, Finnish Environment Institute
- Effective Use of Risk Assessment to Reduce Remediation Costs
Philip Studds, Ramboll Whitbybird, UK
- Methods to Assess Leaching and Transport from Contaminated Sites
Mark Elert, Kemakta Konsult AB, Sweden

17:15 End of the day

19:00 Conference dinner at Restaurant 'Bank' in the City Centre of Helsinki

>>> • Contaminated Sediments In Harbours Containing Marine-Archaeological Artefacts; The Demand For Multidisciplinary Approach. A Case From The Harbour Of Bergen, Norway
Håkon Kryvi, County Governor of Hordaland, Norway

14:30 Re-use of Contaminated Soil

- Perspectives on Re-use of Contaminated Soils
Kenneth Holm, Finnish Environment Institute
- Environmental Criteria for Re-use of Contaminated soil
Ole Hjelmar, DHI Group, Denmark
- Re-use of Dioxin Impacted Sediments
Philip Studds, Ramboll Whitbybird, UK

16:00 Remediation of Metal Contamination

- Remediation of Cu- Ni Contaminated Forest Soil Using Organic Mulch and Native Woody Plants
Tiina M. Nieminen, Finnish Forest Research Institute
- Limiting Measures to Prevent Lead Spreading from Target Areas and Hot Spots within Military Shooting Fields
Carolina Ersson, Johan Hellden AB, Sweden
- Combined In Situ Treatment of Chlorinated Solvents and Heavy Metals in Groundwater Using Ehc-M[®]
Josephine Molin, The Adventus Group, Canada

PROGRAMME

Thursday, September 25, 2008

9:00

Key notes of the day

- Use of Plants and Rhizosphere Micro-organisms for Bioremediation
Alexander Boronin, Russian academy of science (RAS)
- Monitoring of Contaminated Sites
Eva Brorström-Lundén, IVLs Laboratories, Sweden
- Decision Support Tools
Carsten Bagge Jensen, The Capital Region of Denmark

10:30

Coffee break

11:00

Monitoring

- The Submerged Tunnel Project in the Oslo Harbour. Environmental Monitoring of Water and Sediment – Results and Experiences
Anne Fevang, Rambøll Norway AS
- Molecular Methods for Assessment of Natural Attenuation in Contaminated Groundwater
Haydn Williams, EnviroGene Ltd, UK
- Monitoring of Bioremediation Efficacy at Five Sites with Mixed Hydrocarbon Contamination by Mineralization and Functional Gene Assays
Kirsten Jørgensen, Finnish Environment Institute

12:00

Lunch

11:00

Decision Support Tools

- Multi-Criteria Analysis as a Decision Support Tool for Remediation Alternatives at Contaminated Sites
Pär-Erik Back, SWECO VIAK AB, Sweden
- Cost-Benefit Analysis for Comparing Remedial Actions at Contaminated Sites
Lars Rosen, Chalmers University of Technology, Sweden
- Eco-Efficient Contaminated Soil Management – Local and Regional Aspects
Riina Antikainen, Finnish Environment Institute

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13:00 Risk Assessment

- Hazard Identification and Risk Assessment for a Former Industrial Chemical Plant
Jacqueline Falkenberg, NIRAS, Denmark
- Risk Assessment And Prioritisation Of Pesticide Point Sources – Catchment Scale
Ida Olesen, Region of Southern Denmark
- Modelling the Real Thing: Comparison of the Calculated Vapour Intrusion to Analysed Volatile Concentrations
Kari Koponen, Finnish Consulting Group

14:00 Coffee break

14:15 Risk Assessment

- Environmental Dredging – Does It Really Get Any Cleaner?
Jens Laugesen, DNV, Norway
- Evaluation of a Leaching Method for Organic Compounds
Anja Enell, Swedish Geotechnical Institute

15:00 Closing session

- Global Transport of Pollutants
Lars Otto Reiersen, Arctic Monitoring and Assessment Programme (AMAP), Norway
- Panel Discussion on Nordic Profile
 - Similarities
 - Challenges
 - Collaboration

16:00 Closing of the meeting

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13:00 Remediation of Chlorinated Solvents

- Bioremediation of a Chlorinated Solvents Plume in a Fractured Limestone Aquifer Using a Dechlorinating Bioreactor
Charlotte Riis, NIRAS, Denmark
- The Use of Bench Scale and Pilot Testing to Assess Chemical Oxidation in Delivering Cost Effective Remediation for Chlorinated Hydrocarbons: A Case Study in Switzerland
John Lamble, WSP Remediation, UK
- Use of a Large Diameter Auger for Partial Mass Removal from a Source Zone
Derek Langgöns, Golder Associates AB, Sweden

14:15 Legal Aspects

- The Concept of Compensation for Environmental Damage – a Nordic Comparative Study
Pernille Aagard, Advokatfirmaet Energi og Miljø Denmark
- State Financed Mapping and Remediation vs. Polluter Pays Principle - Impacts of the EU State Aid Regime
Casper Herler, Hammarström Puhakka Partners Attorneys Ltd, Finland

PROGRAMME

Friday September 26, 2008

8:00–16:30 State-of-the-Art Treatment Methods

On a trip in Southern Finland we visit the Ekokem hazardous waste treatment plant, a pilot plant for remediation research at Lahti business and science park, and Allu, a company providing technical services for remediation.

9:00–15:00 Remediation of Contaminated Sites in the Capital Area

Visit to the major contaminated sites in Helsinki area: Myllypuro landfill, the new harbour at Vuosaari, new residential areas by the sea: Introduction to the site history, remediation actions and current or future activities.

SHORT COURSE

“Accelerated Bioremediation of Chlorinated Solvents in Groundwater”

Time: Tuesday, September 23 at 8:30–16:30.

Place: Paasitorni Conference Centre

Teachers: Neal Durant and Evan Cox (Geosyntec Consultants, USA/ Canada)

More information and registration: www.mutku.fi/nordrocs-2008

SOCIAL PROGRAMME

Get-together

Time: Tuesday, September 23 at 18:00–20:00

Place: Paasitorni Conference Centre

Conference dinner

Time: Wednesday, September 24 at 19:00

Place: Restaurant Bank, Helsinki

EXCURSIONS

We invite you to join one of our two excursion trips on Friday, September 26

1) State-of-the-art-treatment methods at 8:00–16:30, September 26

On a trip in Southern Finland we visit the Ekokem hazardous waste treatment plant, a pilot plant for remediation research at Lahti Business and Science Park, and Allu, a company providing technical services for remediation. Excursion starts and ends at the Paasitorni Conference Center.

2) Remediation of contaminated sites in the capital area at 9:00–15:00, September 26

Visit to the major contaminated sites in Helsinki area: Myllypuro landfill, the new harbour at Vuosaari, new residential areas by the sea: Introduction to the site history, remediation actions and current or future activities. Excursion starts and ends at the Paasitorni Conference Center.

FEES

Early bird registration fee by 12 June 2008 € 450

Late registration fee after 12 June 2008 € 600

Short course “Accelerated Bioremediation of Chlorinated Solvents in Groundwater”

by 12 June 2008 € 175

after 12 June 2008 € 225

Excursions: € 50

Registration fee includes:

- Access to all conference sessions
- Lunch on both conference days
- Light buffet at the get-together
- Conference dinner
- Abstract book with final programme

Excursion includes:

- Transport from and back to the Paasitorni conference centre
- Lunch

Short course includes:

- Course material
- Lunch

REGISTRATION

A registration form is available on the meeting's web pages:

www.mutku.fi/nordrocs-2008

For more information on registration, please, send e-mail to:

www.nordrocs2008@congresson.fi

ACCOMMODATION

HOTEL RESERVATION

Congreszon will arrange accommodation for delegates upon request. Delegates should make their hotel reservation in advance. Accommodation allocations during the Congress have been made at the hotels listed below. Please note that when reserving a double room both names should be indicated on the form. The room prices include breakfast and VAT.

HOTEL DEPOSIT

To guarantee your hotel reservation a deposit of one night's hotel fee is required. Reservation without a paid deposit cannot be accepted. The deposit should be paid together with the registration payments. Your deposit will be forwarded to the hotel and automatically be deducted from your hotel bill when checking out from the hotel. Your hotel reservation will be confirmed as soon as Congreszon has received the deposit payment..

CHANGES AND CANCELLATIONS

All changes in your accommodation reservations must be sent to Congreszon in writing. If you need to cancel your reservation, please refer to the cancellation and refund policy.



Hilton Helsinki Strand

John Stenbergin ranta 4

The elegant Hilton Helsinki Strand is located in a beautiful setting by the sea yet only a stone's throw from Helsinki's city centre and financial districts. With its 192 newly refurbished rooms, excellent restaurant, first-class conference and banqueting facilities and rooftop saunas with swimming pool and exercise room, the Strand is an ideal choice for anyone who appreciates top-quality service delivered with efficiency and friendliness. Hilton Helsinki Strand is located near the conference venue.

Single room	€ 160
Double room	€ 190

Hotel Arthur

Vuorikatu 19

Privately owned, cosy Hotel Arthur is located close to the Railwaystation in the very heart of Helsinki. The main sights, biggest department stores and theatres are just a walking distance away. The recently refurbished rooms are cosy and brightly coloured.

Single room	€ 95
Double room	€ 115
Business room	€ 130

Sokos Hotel Helsinki

Kluuvinkatu 8

A modern, business-like hotel between the Ateneum and the Senate Square. Located in the city centre, where everything happens, it is an excellent starting point for a beautiful day in the city.

Single room	€ 171
Double room	€ 191

PAYMENTS & CANCELLATION

CONGRESS PAYMENTS

All congress payments - the registration fee, the hotel deposit, tour payments - must be made in advance by credit card (on-line registration) or by bank transfer to Congresson Ltd.

In order to guarantee your hotel room, the hotel deposit should be paid **by the end of July 2008**.

The **bank transfers** should be paid in euros to:

Congreszon Ltd, Sampo Bank, 00075 Helsinki, Finland

Account number 800010-70766853

IBAN (International bank account number): FI18 8000 1070 7668 53

SWIFT / BIC code: DABAFIHH

As reference, please state on the remittance: Nordrocs 2008 and the delegate's name.

The following credit cards are accepted: Eurocard/Mastercard, Visa. Kindly indicate clearly the card type, card number, cvc-number, expiry date, the cardholder's name and address, and the total amount in euros on the registration form.

PLEASE NOTE: No cheques are accepted.

CONFIRMATION

You will receive an e-mail confirmation letter from Congresson as soon as your credit card has been charged or your fees have been received by bank transfer.

Cancellation of any kind has to be made in writing to Congresson Ltd. Please note that for organizational reasons refunds will not be made until after the Congress. If cancellation of participation is received by

CANCELLATION OF THE REGISTRATION

All cancellations must be sent in writing to Congresson Ltd

e-mail: nordrocs2008@congreszon.fi

For cancellations **before August 1 2008**, there will be a total refund minus € 50 for administrative costs. For cancellations after that date no refunds are made. Cancellation of hotel and tours

Please note that any alterations to your hotel and other reservations must be sent to Congresson Ltd per e-mail nordrocs2008@congreszon.fi

For cancellations **before August 1, 2008**, the hotel deposit payment will be refunded.

FOR CANCELLATIONS AFTER THAT DATE THERE WILL BE NO REFUNDS

PRACTICAL ARRANGEMENTS / USEFUL INFORMATION

Transportation to and from the International Helsinki -Vantaa airport.

Around 120 international flights a day arrive at Helsinki-Vantaa Airport, which is situated 19 kilometres from the centre of Helsinki and can be reached by car in approximately 25 minutes. You can also take a taxi, the Finnair airport bus or Bus 615 to the Central Railway Station.

Note!

Questions about practical arrangements, such as hotel bookings, registration problems etc. should be sent to the following e-mail address:

www.nordrocs2008@congreszon.fi

Travelling within Helsinki

With a single ticket you can hop aboard trams, busses, the metro and even the ferry to Suomenlinna. Single tickets can be purchased from the driver, from ticket machines or even by sending an SMS text message by mobile phone (requires a Finnish service provider). Tickets cost around € 2.

Telecommunication

The international access code for Finland is +358. This is followed by a citycode, (Helsinki 09) and then the number.

International emergency telephone number

112



Nordrcs 2008 (24-25 September)

- 1** Paasitorni - Conference Centre
Paasivuorenkatu 5 A
- 2** Restaurant Bank - Conference dinner
Unioninkatu 20
- Conference Hotels:**
- 3** Hilton Strand
John Stenbeckin ranta 4
- 4** Sokos Hotel Helsinki
Kluuvikatu 8
- 5** Hotelli Arthur
Vuorikatu 19



IMPORTANT DATES

Deadline for “early bird” registration:	June 12, 2008
Short course: “Accelerated Bioremediation of Chlorinated Solvents in Groundwater”	September 23, 2008
Conference:	September 24 and 25, 2008
Excursions:	September 26, 2008

MORE INFORMATION

www.mutku.fi/nordrocs-2008

nordrocs@mutku.com

nordrocs2008@congreszon.fi

The meeting is funded by:

