

Program NORDROCS 2018	
Monday, September 3	
11.00 – 16.00	Short Course 1 – PFAS Dynamic investigations with mobile lab at PFAS-impacted sites – please see separate program
13.00 – 16.00	Short Course 2 – Geostatistics An overview of Geostatistics for contaminated site characterization – please see separate program
18.00 – 18.30	Transportation/walk
18.30	Welcome reception at Kulturværftet, Helsingør incl. sandwiches and drinks
	Entertainment Sct. Olai Vocal Ensemble
Tuesday, September 4	
09.00 – 10.00	Registration and coffee
10.00 – 11.30	Opening Session / Welcome <i>Ida Holm Olesen, Chairman, ATV Soil and Groundwater</i> <i>Arne Rokkjær, Coordinator of the NORDROCS 2018 Organizing Committee</i> Key note presentation: Risk assessment of contaminated sites to water resources: The role of the contaminant mass discharge approach? <i>Professor Poul L. Bjerg, DTU Environment, Denmark</i> Key note presentation: Sustainable remediation in practice <i>Professor Paul Nathanail, University of Nottingham, UK</i>
11.50 - 12.50	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>EPA from the 4 Nordic countries Risk management - regulatory perspectives (A)</p> <p>Risk assessment/risk management - leaning towards the more regulatory requirements with regard to Risk assessment and the regulatory challenges in risk - based decision making.</p> <p><i>Chair: Tom Heron, Senior Vice President, Environment, Energy, Water and Informatics, NIRAS Denmark</i></p> <p><i>Senior Advisor Kine Martinsen, Norwegian Environment Agency</i> <i>Technical Advisor Preben Bruun, Danish EPA</i> <i>Senior Advisor Jussi Reinkainen, Finnish Environment Institute</i> <i>Senior Scientific Officer Magdalena Gleisner, Swedish EPA</i></p> </div> <div style="width: 45%;"> <p>Remediation – of Soil and Groundwater Part I (B)</p> <p><i>Chair: Marja Tuomela, Ph.D., Co-op Bionautical and University of Helsinki, Finland</i></p> <p>Environmental forensics. Searching for a major unknown PCE source in an industrial area using different tools, Birkerød, Denmark <i>M.Sc., Ph.D. Thomas Hauerberg Larsen, Orbicon, Denmark</i></p> <p>Development of an iron-based soil mixing remediation method for energyefficient treatment of chlorinated solvents <i>Ph.D. Per Lindh, Swedish Geotechnical Institute, Sweden</i></p> <p>Da Nang – an outstanding thermal remedy 5 years later <i>Sales and Product Manager Niels Ploug, Krüger, Denmark</i></p> </div> </div>
12.50 – 13.40	Lunch, poster session and exhibition, matchmaking . Matchmaking arranged by <i>Danish Soil Partnership and Innovation Network for Environmental Technologies</i>

13.40 – 14.10	Poster session and exhibition, matchmaking Matchmaking arranged by <i>Danish Soil Partnership and Innovation Network for Environmental Technologies</i>	
14.10 – 15.30	<p>Sustainability and Reuse - Part I (C)</p> <p><i>Chair: Jarno Laitinen, M.Sc., Project Manager, Pirkanmaa ELY-Centre, Finland</i></p> <p>Key note presentation: A sustainability perspective on reuse and remediation <i>Professor Kristina Lindström, University of Helsinki, Finland</i></p> <p>Reuse of concrete and risk assessments related to the expansion of Oslo Airport Gardermoen <i>Project Manager Ida Kristine Buraas, Golder, Norway</i></p> <p>Efficient soil reuse – imperative for sustainable land management <i>Senior Advisor Jussi Reinikainen, Finnish Environment Institute, Finland</i></p>	<p>Remediation – of Soil and Groundwater Part II (D)</p> <p><i>Chair: Annika Sidelmann Fjordbøge, DTU Environment, Denmark</i></p> <p>Key note presentation: <i>In situ</i> bioremediation of contaminated soil; comparison and combination of different approaches <i>Professor Martin Romantschuk, University of Helsinki, Finland</i></p> <p>Multidisciplinary approach to characterize natural degradation of PCE <i>Ph.D.-student Sofia Aakesson, Lund University, Sweden</i></p> <p>Tools and concepts for quantifying in situ degradation rates at contaminated sites <i>Chief Consultant, Ph.D. Nina Tuxen, Capital Region of Denmark</i></p>
15.30 – 16.20	Poster session and exhibition, matchmaking, coffee break Matchmaking arranged by <i>Danish Soil Partnership and Innovation Network for Environmental Technologies</i>	
16.20 - 17.40	<p>Sustainability and Reuse - Part II (E)</p> <p><i>Chair: Environmental expert Aura Nousiainen, Pöyry, Finland</i></p> <p>Sustainable remediation assessment: How to include the societal cost in the equation? <i>Managing Director Jan Haemers, Haemers Technologies, Belgium</i></p> <p>Strategic approach to climate protection and soil management to fulfill the Sustainable Development Goals (SDG 11, 12 and 13) <i>Joan Krogh, NIRAS, Denmark</i></p> <p>Remediation of PCB-polluted soil using biochar: the uptake of PCBs in earthworms, plants and passive samplers – a pot experiment <i>Sigurbjörg Hjartardóttir, NGI, Norway</i></p> <p>Sustainable management in large infrastructure projects of acid producing rock and soil containing high, naturally occurring levels of heavy metals <i>M.Sc., Env.consultant Lars-André Erstad and Project Manager, Env.consultant Eva Aakre, Rambøll-Sweco ANS, Norway</i></p>	<p>Risk Assessment of Soil and Groundwater (F)</p> <p><i>Chair: Head of Dept., Ph.D. Mette Christophersen, Rambøll, Denmark</i></p> <p>Key note presentation: Assessment of in-situ natural and enhanced chlorinated ethenes degradation by use of isotopic and molecular biology techniques <i>Associate professor Mette M. Broholm, DTU Environment, Technical University of Denmark</i></p> <p>Direct radiotracer rate measurements of groundwater contaminants in intact cores –method and first results on cis-DCE dechlorination <i>Senior Researcher, Ph.D. Rasmus Jakobsen, GEUS, Denmark</i></p> <p>Bacterial population dynamics in a groundwater plume from a heating oil spill quantified via 16 S rRNA gene amplicon sequencing <i>R&D Project Manager Poul Larsen, DMR, Denmark</i></p>
19.00 – 19.30 19.30 - ??	Welcome drink and Polka Tesch – entertainment/music Conference dinner and dance. The Man – dance band	

Wednesday, September 5

8.30 – 09.50	<p>Contaminated Sediments – Risk Assessment and Remediation - Part I (G) <i>Chair: M.Sc. Paul Cappelen, Geotechnical Institute, Norway</i></p> <p>Key note presentation: In-situ remediation of contaminated sediments: Combining strong sorption with microbial dechlorination <i>Professor Upal Ghosh, University of Maryland Baltimore County, USA</i></p> <p>The Norwegian Management System of Risk Assessment - contaminated Sediments <i>M.Sc., Senior Adviser Hilde B. Keilen, Norwegian Environmental Agency, Norway</i></p> <p>Dispersal pathways of contaminants from organic-rich sediments – a field study of fibrous sediments in northern Sweden <i>Dr. Sarah Josefsson, SGU, Sweden</i></p>	<p>Investigation and monitoring of Soil and Groundwater - Part I (H) <i>Chair: Associate Professor Mette Broholm, DTU Environment, Technical University of Denmark</i></p> <p>Key note presentation: How groundwater velocity measurements can strongly support aquifer characterisation studies <i>Professor John Frederick Devlin, University of Kansas, USA</i></p> <p>Multiple fluorescent dyes as a tool for understanding fate and transport for large scale plumes <i>Project Director Nicklas Larsson, NIRAS, Sweden</i></p> <p>The Need for High Resolution Data in Fractured Bedrock Characterization. A Review of FLUTE Methods for Measuring Discrete and Continuous Contaminant Distribution and Transmissivity Profiles <i>Hydrogeologist Derek Angel, FLUTE, USA</i></p>
9.50 – 10.20	Coffee break	
10.20 - 11.40	<p>Contaminated Sediments – Risk Assessment and Remediation - Part II (I) <i>Chair: M.Sc., Environmental Consultant Peter Harms-Ringdahl, EnviFix, Sweden</i></p> <p>TREASURE: Novel and innovative methods used to characterize two of Sweden's contaminated fiberbank sediment sites <i>Professor Ian Snowball, Uppsala University, Sweden</i></p> <p>Remediation of Oskarshamn hamn: challenges and lessons learned from contractor point of view <i>Regional Manager Bart van Renterghem, Envisan, Belgium</i></p> <p>Quantification of microplastics in sediments from benthic and coastal environments <i>M.Sc. Heidi Knutsen, NGI, Norway</i></p> <p>Nontarget analysis of sediment samples from Copenhagen, Denmark <i>Ph.D.-student Josephine Lübeck, University of Copenhagen, Denmark</i></p>	<p>Investigation and monitoring of Soil and Groundwater - Part II (J) <i>Chair: Associate Professor Patrick van Hees, Eurofins, Sweden</i></p> <p>High Resolution Site Characterization and 3D Geological Modelling – Tools for Interpretation of Plume Migration in a Complex Geology <i>M.Sc. Bo Tegner Bay, COWI, Denmark</i></p> <p>Development of an innovative methodology for monitoring of in situ remediation of chlorinated solvents – the MIRACHL-project <i>Ph.D. Haakan Rosqvist, Lund University and Tyréns, Sweden</i></p> <p>Use of geostatistical modelling in investigation of soil contamination - working toward a better definition of remedial mass and volume <i>R&D Manager, Ph.D. Per Loll, DMR, Denmark</i></p> <p>Do we as practitioners have a general challenge with leaking wells causing cross-contamination to deeper aquifers ? Swedish and Danish results and paths forward <i>Project Manager Maria Heisterberg Hansen, NIRAS, Denmark, and Environmental Consultant Filip Nilsson, NIRAS, Sweden</i></p>
11.40 - 12.40	Lunch, poster session and exhibition	
12.40 – 13.10	Poster session and exhibition	

13.10 – 14.30	<p>Management (K)</p> <p><i>Chair: Environmental Scientist Anna Kruger, City of Vestarås, Sweden</i></p> <p>Key note presentation: Strategic decisions, while planning and implementing the challenging remediation project in the heavily polluted harbor in Oskarshamn, Sweden – the municipal perspective <i>Bodil Liedberg Jönsson, Strategic Development Manager, Municipality of Oskarshamn, Sweden</i></p> <p>Stakeholder engagement in strategic research agendas related to soil and land use management <i>Ph.D. Yvonne Ohlsson, Swedish Geotechnical Institute, Sweden</i></p> <p>The Finnish Clean Soil Program. A national state-funded program to investigate and remediate sustainably the significant risks to human health and the environment due to land contamination <i>M.Sc., Project Manager Jarno Laitinen, Centre for Economic Development-, Transport and the Environment, Finland</i></p>	<p>Surface Water - Interaction from Soil, Sediment and Groundwater (L)</p> <p><i>Chair: Research Manager Marianne Olsen, Norwegian Institute for Water Research, Norway</i></p> <p>Key note presentation: Contaminant response in a multistress environment <i>Professor Katrine Borgå, University of Oslo, Norway</i></p> <p>Bodø Airport – The story of PFAS' way from soil, through storm water to biota <i>Head of Section Marianne Kvennås, NGI, Norway</i></p> <p>Using temperature to assess interaction between contaminated groundwater and surface water <i>Ph.D., Hydrogeologist Gro Lilbaek, NIRAS, Denmark</i></p>
14.30 – 15.10	Poster session and exhibition, coffee break	
15.10 – 16.30	<p>Indoor Air (M)</p> <p><i>Chair: R&D Manager Per Loll, DMR, Denmark</i></p> <p>A detection dog, man's best friend during indoor air investigations <i>Mette Algreen, Projectleader, Ph.D., Orbicon, Denmark</i></p> <p>Vapor Intrusion Gas Source Investigation by use of Stable Isotopes and Radiocarbon Dating <i>Environmental Engineer Katrine Moes Kristensen, NIRAS, Denmark</i></p> <p>Revisiting dry-cleaning sites -30 years of improving environmental investigations from the perspective of a public authority <i>Environmental Engineer, Ph.D. Sanne Skov Nielsen, Region of Southern Denmark</i></p> <p>Modelling of air flow in capillary break layers. A new approach to determine governing mechanisms in balanced ventilation systems preventing vapor intrusion of volatile pollutants <i>Project Manager Jakob Washington Skovsgaard, Ramboll, Denmark</i></p>	<p>PFAS (N)</p> <p><i>Chair: Ph.D. Morten Jartun, Norwegian Institute for Water Research, Norway</i></p> <p>Immobilization of PFAS contaminated sandy soil from a Norwegian firefighting training facility <i>Director of Landfill and Contaminated Soil Hilmar T. Sævarsson, Lindum</i></p> <p>PFAS Handbook: What, how and where to look, what are the risks and can we be sure? <i>Senior Consultant Jacqueline Falkenberg, NIRAS, Denmark</i></p> <p>Mobility of PFAS: Do lysimeter results reflect concentrations monitored in a groundwater plume? <i>Regional Manager, M.Sc. Mikael Takala, Vahanen Environment Oy, Finland</i></p> <p>What is the total budget of PFAS in contaminated soil and how does total oxidizable precursor (TOP) assay help comprehend the picture? <i>Associate Professor Patrick van Hees, Eurofins, Sweden</i></p>

Thursday, September 6

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09.00 – 13.30	Technical tour 1 Visit to practice range for fire fighting – please see separate program
09.00 – 13.30	Technical tour 2 Innovation Garage, Skovlunde – please see separate program

Adjustments may occur

June 11, 2018