

## **Winter Meeting 2020**

### **Temadag**

(arrangementet foregår på engelsk)

### **Reactants for in Situ Remediation**

#### **Tidspunkt / Time**

Mandag den 2. marts 2020, kl. 10.00 – 17.00

#### **Sted / Venue**

Vingsted Hotel og Konferencenter, Bredsten v/Vejle

#### **Organizing Group**

Chief Consultant, ph.d. Nina Tuxen, Capital Region of Denmark, [nina.tuxen@regionh.dk](mailto:nina.tuxen@regionh.dk)

Project Coordinator, ph.d. Katerina Tsitonaki, Orbicon A/S, [kats@orbicon.dk](mailto:kats@orbicon.dk)

Project- and Markering Director Lars Nissen, COWI A/S, [Ins@cowi.dk](mailto:Ins@cowi.dk)

Ekspertise Director Anders G. Christensen, NIRAS A/S, [agc@niras.dk](mailto:agc@niras.dk)

#### **Administration**

Lisbeth Verner, ATV Jord og Grundvand, [atvlv@env.dtu.dk](mailto:atvlv@env.dtu.dk)

#### **Topic**

ATV Soil and Groundwater is pleased to invite you to a 1-day seminar to discuss status and the innovations in the field of remediation reagents. The meeting aims to provide an overview of the state of the art practice for the most common in situ reactants such as zero valent iron, injectable activated carbon and ISCO reagents based on presentations from some of the most recognized scientists, practitioners and consultants in the field.

Aside from designing a correct injection/delivery protocol, the properties of the reactants are also critical for successful remediation. Vendors are constantly coming up with new innovations trying to optimize the desirable processes, which is combining high and specific reactivity/sorption capacity with appropriate transportability and longevity. It can be difficult for remediation practitioners and authorities to understand the different reactants strengths and weaknesses.

The seminar will address these issues and provide the opportunity to discuss and exchange lessons learnt from research and application.

#### **Programme**

09.00

Registration and coffee

10.00

Seminar begins:

Welcome /Introduction

by/ *Nina Tuxen, Chief Consultant, PhD, Capital Region of Denmark*

Zerovalent Iron for In Situ Remediation: A Snapshot of 30-year Research and Application

by/ *Dimin Fan, Environmental Scientist, PhD, Geosyntec*

Testing and Selection of Iron Reactants for Use in Soil Mixing

by/ *Klas Arnerdal, Project Manager, Geological Survey of Sweden (SGU)*

Discussion

Break

Sulfidised Zerovalent Iron as New Reductant Material for Chlorinated Solvent Degradation:  
pros and cons

by/ *Dominique Tobler, Associate Professor, Copenhagen University*

Sulfidated ZVI Nanoparticles (Innovation and Application)

by/ *Jan Slunsky, Director, MSc, NANO IRON*

Discussion

Lunch

GreenCat – Biochar Turns Green Rust into a Powerful Reductant for Chlorinated Solvents

by/ *Hans Christian Bruun Hansen, Professor, Copenhagen University*

Current State of In-Situ Groundwater Remediation by Activated Carbon Based Amendments

by/ *Dimin Fan, Environmental Scientist, PhD, Geosyntec*

Break

ISCO State of the Art/ Polymer Amended and SlowRelease Oxidants

by/ *Michelle Crimi, Associate Professor, Clarkson University*

Testing and Selection of Oxidants and Binder for Use in Soil Mixing

by/ *Torben Højbjerg Jørgensen, Chief Consultant, COWI A/S*

Discussion

Wrap-up

by/ *Katerina Tsitonaki, Project Coordinator, PhD Orbicon |WSP*

17.00

End of day

Deltagergebyr  
/ Participation  
fee

Price for seminar: DKK 2.800 excl. moms

Please register on the webpage [www.atv-jord-grundvand.dk](http://www.atv-jord-grundvand.dk) by February 14 2020 at the latest.

**Social program:**

An informal get-together buffet dinner with the opportunity to network and socialize will take place at the conference venue on Sunday March 1 at 18:00. Please sign up separately

Price for buffet dinner: DKK 390 (excl. VAT) (approx. 52)

Ændringer kan forekomme / Alterations may occur