



NICOLE & Renare Mark joint Fall Workshop 2023

24 - 25 October 2023
Malmö, Sweden



Innovative solutions for sustainable redevelopment and land stewardship of contaminated sites and sediments

(e.g. cities, real estate, transportation infrastructures, mining and
sediments)

NICOLE and Nätverket Renare Mark are proud to present their inaugural joint workshop, dedicated to driving the future of brownfield development and fostering land stewardship across diverse industrial sectors including cities, real estate, transport infrastructure, and mining. This workshop aims to facilitate the exchange of knowledge, foster professional relationships, and explore areas of mutual interest among members of both organizations.

The organizing committee is looking for presentations covering research and development projects, innovative approaches and case studies, as well as learning examples. The contributions should highlight one or more of the following topics:

1. Innovative approaches for redevelopment
2. Risk assessment and risk management
3. Challenges and solutions for (post) mining sites

Location: Slagthuset

Address: Carlskatan 12 E, 211 20 Malmö 

nicole.org



Renaremark.se



Chayenne.vandijk@nicole.org

Opening session

9:30 - 10:00 Registration

10:00 - 10:10 Opening & welcome

10:10 - 10:20 **NICOLE Sustainability**
Chantal Broeken, WSP & Jan Haemers, Haemers Technologies

10:20 - 10:40 **International brownfield development from a legal perspective**
Linnea Ljung, Setterwalls

10:40 - 10:45 Introduction to the poster pitches

10:45 - 10:50 Poster pitches

10:50 - 11:20 Coffee break

Technical session 1: Innovative approaches for redevelopment

Session chairs: Anneli Liljemark, Johanna Moreskog & Rogier de Waele

11:20 - 11:40 **Biodiversity in contaminated land management - a future ready approach**
Helena Fürst, WSP Sweden

11:40 - 12:00 **Improving brownfield redevelopment decisions using tools from decision analysis and corporate finance**
Peter Vanneck, Antwerp Management School

12:00 - 12:20 **Pushing Beyond Limits, Engineered Phytoremediation Provides Cost-Effective, Nature Based, Sustainable Remediation Alternative**
Paul R. Thomas, Applied Natural Sciences, Inc.

12:20 - 12:30 Discussion

12:30 - 12:35 Poster pitches

12:35 - 13:35 Lunch

13:35 - 13:50 NICOLE Emerging Talent Group

Day 1

Tuesday, 24 October 2023



13:50 - 14:10	Using engineered trees and plants to control and degrade mobile groundwater contaminants in the city environment and in industrial areas. Demonstrations in practice Maurice Henssen, Bioclear Earth
14:10 - 14:30	Biological soil and groundwater remediation as part of an integrated approach for sustainable redevelopment of industrial sites: two innovative case studies Michaela Bhend, GreenSoil Group
14:30 - 14:50	Biopolymer-based remediation of PFAS contaminated soil Anja Wilken, Sensatec GmbH & GreenSoil Group
14:50 - 15:00	Discussion
15:00 - 15:05	Poster pitches
<i>15:05 - 15:35 Coffee break</i>	
15:35 - 15:55	Stabilization and remediation of 51.000 m3 tar polluted soil in Stockholm using soil mixing Kim Rikard Jensen, Arkil A/S
15:55 - 16:15	Landfill of Librobäck, a redevelopment project that benefits from collaborations and a holistic approach Kristina Jansson, Kemakta Konsult AB & Kristoffer Hagvall, Ramboll Sweden AB
16:15 - 16:35	Micro-organism assisted phytoremediation by hydraulic barriers and phytowalls a nature based solution Sofie Thijs, bio2clean
16:35 - 16:45	Discussion
16:45 - 16:50	Poster pitches
16:50 - 17:10	Closing of the day
<i>19:30 - 22:30 Conference dinner Location: Slaghuset</i>	



9:00 - 9:05 Good morning

Technical session 2: Risk assessment and risk management
Session Chairs: Jurate Kumpiene & Martin van der Hop

9:05 - 9:25 **Passive sampling of bioavailable PAHs for risk assessment in the laboratory and field**
Martin Oscar Larsson, Waste Science and Technology

9:25 - 9:45 **Ecotoxicological risk evaluation to minimize dredging of contaminated sediments**
Kristin Elgh Dalgren, Tyréns Sverige

9:45 - 10:05 **Reducing risks through identification and delineation of impacted bedrock-hosted groundwater with innovative FLUTE liner methods**
Patrick Nilsson, Rosmarus Enviro AB

10:05 - 10:15 Discussion

10:15 - 10:45 Coffee break

10:45 - 11:05 Panel debate

11:05 - 11:35 Interactive session

Technical session 3: Challenges and solutions for (post) mining sites
Session chairs: Therese Steinholtz & Peter Harms-Ringdahl

11:35 - 11:55 **The use of drones at closed and abandoned mine waste sites in Finland**
Markus Heikkinen, Ramboll

11:55 - 12:15 **Life of Asset Case Study: Sustainable Re-mining and Re-closure of a Former Copper Mine Site, Western US**
David Thomas & Bob Hooley, Jacobs

12:15 - 12:35 **Site Redevelopment of an Overburden Dumpsite and Infilled Mine Galleries at a Lignite Power Plant in Kosovo**
Ilona van der Kroef, TAUW

12:35 - 12:45 Discussion

12:45 - 13:15 Closing of the workshop

13:15 - 14:15 Lunch

14:15 - 17:15 **Field trip to the BT-Kemi project exhibition site**
In 1977, after 12 years of herbicide and pesticide production in Teckomatorp, the BT Kemi chemical plant was shut down by the government due to environmental concerns, marking one of Sweden's largest environmental scandals. Recent thermal in situ remediation efforts from 2020-2022 have been successful in most areas, but a small portion still requires attention due to the production of toxic by-products, particularly dioxins.

Organizing Committee Members

Anna Kruger - Västerås stad
 Anneli Liljemark - Liljemark Consulting
 Chantal Broeken - WSP
 Christina Rydell Ahlström - Morris Law
 Fritiof Pröjts Erlandsson - WSP
 Hans Slenders - Arcadis
 Jurate Kumpiene - Luleå University of Technology
 Johanna Moreskog - Ramboll
 Laura Vredenberg - Arcadis
 Lena Torin - WSP
 Lill Thunberg - Länsstyrelsen Kalmar län
 Linda Karlsson - Niras Sweden AB
 Linnea Ljung - Setterwalls
 Martin van der Hop - Royal Philips
 Nathalie Velly - INERIS
 Niklas Törneman - SWECO
 Peter Bruce - WSP
 Peter Harms-Ringdahl - EnviFix AB
 Rogier de Waele - GreenSoil
 Serge Brouyère - University of Liège
 Sofia Brodd - SWECO
 Therese Steinholz - Empirikon Konsult AB
 Volker Kelm - Gislaveds kommun

NICOLE Secretariat

For further information on NICOLE membership, workshop programs, registration & fees, or any other practical issue regarding the conference, please contact:

Chayenne van Dijk (DSBP Consultants)
 P.O. Box 28249 – 3003 KE Rotterdam, The Netherlands
 Phone: +31 (0)10 31 00 829 E-mail: chayenne.vandijk@nicole.org

Registration fees

Please complete the conference registration form.
 NICOLE members can register through the [NICOLE Portal](#).
 Members of Renare Mark can register through [this link](#).
 Non-members please contact [Nan Su](#).

Deadline for registration is 17th of October 2023.