



NICOLE Spring Workshop

11 & 12 May 2023 Paris

Site characterization for sustainable land management State of the art and innovations

Land is a vitally important resource. Sustainable land management requires well-founded and reliable information. Better information leads to better decisions and value for industry and stakeholders alike. The NICOLE Spring Workshop 2023 in Paris will focus on showcasing 'state of the art' site characterization and sustainable land management tools and practices.

Workshop location
Tour Pacific La Défense
11/13 cours Valmy
92800 PUTEAUX FRANCE



nicole.org
chayenne.vandijk@nicole.org

Opening Session	
8:30-9:00	Registration
9:00-9:10	Opening & Welcome by chairman Johan de Fraye
9:10-9:20	NICOLE Sustainability
9:20-9:40	Keynote Dominique Guyonnet, Scientific Program Director, "Contaminated Land Management" (BRGM)
9:40-10:40	NICOLE Innovation Awards
10:40-11:10	Coffee break
Session 1	
New strategies for site characterization & monitoring	
Session chairs: Corinne Merly & David Thomas	
11:10-11:30	High-resolution investigation of hydraulic anisotropies in contaminated groundwater systems with Intrasense® to enhance the effectiveness of in situ remediation Julian Bosch (Intrapore)
11:30-11:50	NOD-Rapid Test for in-situ-oxidation Uwe Dannwolf (RiskCom GmbH)
11:50-12:10	Gas flux at the soil-atmosphere interface with an automated flux chamber Pr. Olivier Atteia (EPOC-PROMESS)
12:10-12:30	Isotopes meet mass flux – IsoFLUX as a new tool for precise quantification of pollutant degradation in contaminated aquifers Marjan Joris & Kevin Kuntze (iFLUX sampling & Isodetect GmbH)
12:30-12:45	Q&A
12:45-13:45	Lunch

Session 2	
Innovative approaches for determination of soil health & biodiversity	
Session chairs: Jean-Louis Seveque & Hubert Leprond	
13:45-14:05	Encouraging the implementation of innovative technologies: Factsheets on contaminated land management Noémie Dubrac (Contaminated Land Unit, BRGM)
14:05-14:25	Impact of industrial activities on soil ecosystem services and regeneration Julie Estival & Jeroen Reimerink (TAUW (NL & FR))
14:25-14:45	Unravelling the living soil using microbiome analysis and bio - information technology to assess vital soil functions and ecosystem services Eline Keuning (Bioclear Earth)
14:45-15:00	Q&A
15:00-15:20	Poster presentations <ol style="list-style-type: none"> 1. Innovative management of PFAS Contaminations by conceptual scheme based TERQ risk assessments & definition of site specific remediation goals and in-situ treatments by proteinic bio-polymers site case studies with presence of volatile PFAS = FTOH (Fluorotelomer Alcohols). 2. Determination of groundwater to surface water emissions on basalt embankment with a novel partition sampler. 3. Best practice site conceptualization to optimize remediation 4. A novel sustainability scoring method for soil remediation technologies assessment. 5. RECAP: A practical definition of sustainable remediation. 6. Thermoreact® - An innovative remediation product for in situ neutralization of halogens and sulphur during thermal desorption 7. A sustainable approach of mercury sequestration in sediments resulting in the reduction in concentration of methylmercury in sediment porewater and suppression of mercury bioaccumulation. 8. Site-specific risk-based remedial objectives calculations at a site impacted by chlorinated hydrocarbons in groundwater, using empirically determined Henry's Constant. 9. Energy-saving and cost-efficient: Sustainable in-situ thermal remediation (ISTR) of the petroleum port Hamburg.
15:20-15:50	Coffee break

Session 3 Conceptual Site Model (CSM) insights Session Chairs: Marjan Joris & Simona Di Gregorio	
15:50-16:10	Use of geospatial analysis and direct analytical response (Hapsite®) for the evaluation of the vapor intrusion (Vi) - A case study Andrea Gasparini (Jacobs)
16:10-16:30	Assessment of natural attenuation and its stimulability at two former large-scale industrial sites based on the combination of innovative in situ monitoring methods Kevin Kuntze (Isodetect GmbH)
16:30-16:50	Advanced practice for vapour intrusion investigation and assessment Nick Roe (Geosyntec Consultants Ltd)
16:50-17:10	Iterative development of a CSM to optimize remediation David Thomas (Jacobs)
17:10-17:25	Q&A
17:25-17:30	Closing first workshop day
20:00	Conference dinner (award ceremony) Café la Jatte, 60 Bd Vital Bouhot, 92200 Neuilly-sur-Seine

Session 4	
Internet of Things (IoT) and digital tools	
Session chairs: Jean-Louis Seveque and t.b.c.	
9:00-9:20	Field data management from a groundwater remediation plant through Power BI software Roberta Sauro Graziano (Ramboll Italy)
9:20-9:40	Automatic detection of vacant in the Basque Country (Spain) Laura del Val (Eurecat)
9:40-9:55	Q&A
EU Projects Presentations	
9:55-10:15	IMPEL - Water and Land Remediation Wouter Gevaerts (ISPRA, Arcadis)
10:15-10:45	Coffee break
10:45-12:15	NWE-REGENERATIS - Regeneration of past metallurgical sites and deposits through innovative circularity for raw materials (Q&A after each presentation) <ol style="list-style-type: none"> 1. Brief overview of NWE-REGENERATIS project (SPAQUE) 2. Site screening to evaluate the site potential for materials recovery (ATRASOL) 3. Innovative identification and characterization of metallurgical residues from a former industrial site using geophysical imaging and resource distribution model (University of Liège) 4. How to take smart decisions to launch materials recovery project on your site? SMARTIX: a decision support tool based on artificial intelligence (SPAQUE) 5. How to develop a business case for materials recovery? (ATRASOL) 6. Materials recovery processes: mineral and metal recovery, hydro- and bio-metallurgy techniques, eco-catalyst production (Centre Terre Et Pierre, Materials Processing Institute, Cranfield University, Ixsane) 7. Lessons learned and wrap-up (SPAQUE)
12:15-12:45	Q&A and closing of the conference
12:45	Lunch & end of workshop program

Organization committee members

Corinne Merly – BRGM
 Daniel Alexander – EarthSoft
 David Cazaux – INEOS Inovyn
 David Thomas – Jacobs
 Elise Noël – Shell
 Hans-Peter Koschitzky – Senior, VEGAS, University Stuttgart
 Hubert Leprond - EDF
 Jean-Louis Seveque – AquaTerraSana
 Marjan Joris – iFlux
 Simona Di Gregorio – University of Pisa
 Pierre Jolly – WSP

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, available online through NICOLE.org and/or the NICOLE secretariat. Deadline for registration is 4 May 2023. conference dinner is at your own cost for 60 Euro per person.

Participation in the NICOLE Spring Workshop 2023 is free of charge for NICOLE members and workshop speakers. Information on admission fees for other participants can be obtained through the NICOLE secretariat.