

REMTECH Europe

GENERAL PROGRAM

20-24 September 2021

































































7 Training courses
22 High level sessions
1 Sustainathon – 24h

<http://www.remtechexpo.com/index.php/en/description/general-description/remtech-europe>



REMTECH EXPO

IME ZONES	Mon 20 Sept Room A	Mon 20 Sept Room B	Tue 21 Sept Room A	Tue 21 Sept Room B	Wed 22 Sept Room A
 CEST 09:00-11:00  CST 15:00-17:00  IST 12:30-14:30  EDT 03:00-05:00  BRT 04:00-06:00	 From policy talking to industry actions: Zero Pollution for Soil 1		Bioremediation and phyto-remediation 5		Soil remediation: can we deal in a sustainable way? 11
 CEST 11:30-13:30  CST 17:30-19:30  IST 15:00-17:00  EDT 05:30-07:30  BRT 06:30-08:30			Oil and hydrocarbons impacted sites 6		HRSC High Resolution Site Characterization 7
 CEST 14:30-16:30  CST 20:30-22:30  IST 18:00-20:00  EDT 08:30-10:30  BRT 09:30-11:30	 US Army Corps of Engineers® PFAS: characterization, environmental impact, remediation strategies 2	Sustainable management of contaminated sites 3	 ASTM STANDARDS: PFAS, Sediment and Climate Resilience 8	Innovative, digital and smart characterization techniques tools 9	 Current Approaches for Vapor Intrusion Site Investigation and Mitigation 13
 CEST 17:00-19:00  CST 23:00-01:00  IST 20:30-22:30  EDT 11:00-13:00  BRT 12:00-14:00		Waste tailings and acid mine drainage: challenges for Mining Sites 4		Circular Economy: how to apply it in the context of the next Generation EU 10	

TIME ZONES	Wed 22 Sept Room B	Thu 23 Sept Room A	Thu 23 Sept Room B	Fri 24 Sept Room A	Fri 24 Sept Room B
 CEST 09:00-11:00  CST 15:00-17:00  IST 12:30-14:30  EDT 03:00-05:00  BRT 04:00-06:00		Microplastics and sediments: two main threats for ports and coastal areas  16		  Sustainability the road to global value Sustainathon	River environment: managing impacts from different sources  21
 CEST 11:30-13:30  CST 17:30-19:30  IST 15:00-17:00  EDT 05:30-07:30  BRT 06:30-08:30		Aeriforms and vapor intrusion: measures and models  18		Groundwater remediation in difficult conditions  19	(24 hours from 14:00 CEST to 14:00 CEST)  17
 CEST 14:30-16:30  CST 20:30-22:30  IST 18:00-20:00  EDT 08:30-10:30  BRT 09:30-11:30	 Sustainability assessment for a more sustainable remediation  14	  Sustainability the road to global value Sustainathon	 State of the art of contaminated sites in Brazil  20	  EUROPEAN UNION Wastewater control and seawater quality: it is possible to do it acting differently?  23	
 CEST 17:00-19:00  CST 23:00-01:00  IST 20:30-22:30  EDT 11:00-13:00  BRT 12:00-14:00	PFAS, remediating the forever chemical  15	(24 hours from 14:00 CEST to 14:00 CEST)  17			

MONDAY 20 September

SESSION 1

From policy talking to industry actions: Zero Pollution for Soil

Mon 20 SEPTEMBER 09:00 – 13.00 CEST



SESSION 2

TRAINING COURSE - PFAS: characterization, environmental impact, remediation strategies

Mon 20 SEPTEMBER 14.30 – 19.00 CEST



US Army Corps
of Engineers®

SESSION 3

Sustainable management of contaminated sites

Mon 20 SEPTEMBER 14.30 – 16.30 CEST

SESSION 4

Waste tailings and acid mine drainage: challenges for Mining Sites

Mon 20 SEPTEMBER 17.00 – 19.00 CEST

TUESDAY 21 September

SESSION 5

Bioremediation and phytoremediation in agricultural, industrial, and military sites

Tue 21 SEPTEMBER 09.00 – 11.00 CEST

SESSION 6

Oil and hydrocarbons impacted sites

Tue 21 SEPTEMBER 11.30 – 13.30 CEST

SESSION 7

HRSC, High Resolution Site Characterization

Tue 21 SEPTEMBER 11.30 – 13.30 CEST

SESSION 8

TRAINING COURSE - ASTM STANDARDS: PFAS, Sediment and Climate Resilience

Tue 21 SEPTEMBER 14.30 – 19.00 CEST



SESSION 9

Innovative, digital and smart characterization techniques tools

Tue 21 SEPTEMBER 14.30 – 16.30 CEST

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SESSION 10

Circular Economy: how to apply it in the context of the next Generation EU

Tue 21 SEPTEMBER 17.00 – 19.00 CEST

WEDNESDAY 22 September

SESSION 11

Soil remediation: can we deal in a sustainable way?

Wed 22 SEPTEMBER 09.00 – 11.00 CEST

SESSION 12

DNAPL and chlorinated compounds: optimize the process to achieve the target

Wed 22 SEPTEMBER 11.30 – 13.30 CEST

SESSION 13

TRAINING COURSE - Current Approaches for Vapor Intrusion Site Investigation and Mitigation

Wed 22 SEPTEMBER 14.30 – 19.00 CEST



SESSION 14

TRAINING COURSE - Sustainability assessment as a tool for a more sustainable and resilient remediation of soils, groundwater and sediments

Wed 22 SEPTEMBER 14.30 – 16.30 CEST



SESSION 15

PFAS, remediating the forever chemical

Wed 22 SEPTEMBER 17.00 – 19.00 CEST

THURSDAY 23 September

SESSION 16

Microplastics and sediments: two main threats for ports and coastal areas

Thu 23 SEPTEMBER 09.00 – 11.00 CEST

SESSION 17

Sustainathon

Thu 23 SEPTEMBER 14.00 – Fri 24 SEPTEMBER 14:00 CEST



SESSION 18

Aeriforms and vapor intrusion: measures and models

Thu 23 SEPTEMBER 11.30 – 13.30 CEST

SESSION 19

Groundwater remediation in difficult conditions

Thu 23 SEPTEMBER 11.30 – 13.30 CEST

SESSION 20

TRAINING COURSE - State of the art of contaminated sites in Brazil

Thu 23 SEPTEMBER 14.30 – 19.00 CEST



FRIDAY 24 September

SESSION 17

Sustainathon

Thu 23 SEPTEMBER 14.00 – Fri 24 SEPTEMBER 14:00 CEST

SUSTAINATHON



Sustainability the road to global value

SESSION 21

River environment: managing impacts from different sources

Fri 24 SEPTEMBER 09.00 – 11.00 CEST

SESSION 22

Wastewater and sewer sludge, handling the last link in the chain

Fri 24 SEPTEMBER 11:30 – 13.30 CEST

SESSION 23

TRAINING COURSE: Wastewater control and seawater quality: it is possible to do it acting differently?

Fri 25 SEPTEMBER 14.30 – 19.00 CEST

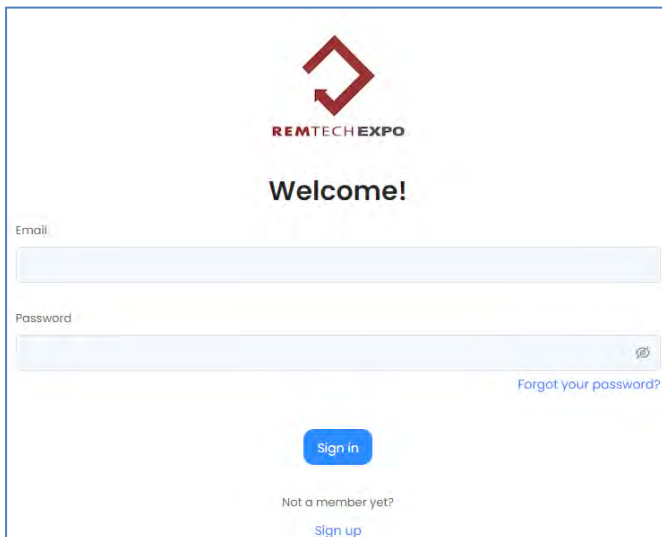


EUROPEAN UNION

REMTECH Europe

HOW TO PARTICIPATE?

Participation as attendant is free upon registration for everybody. You may register yourself the following link <https://remtech.meeters.space/> then you will receive a password to join in your favorite sessions. You may ask questions that will be managed by chairs during the panel discussion.



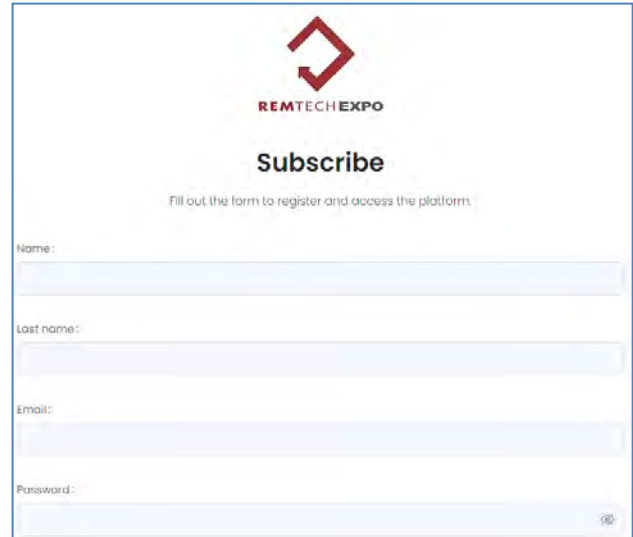
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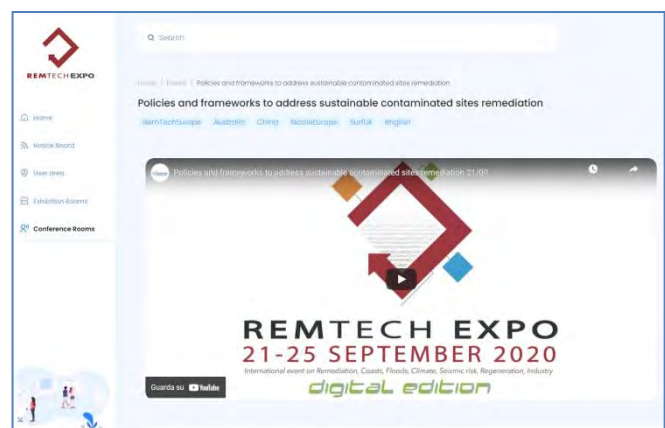
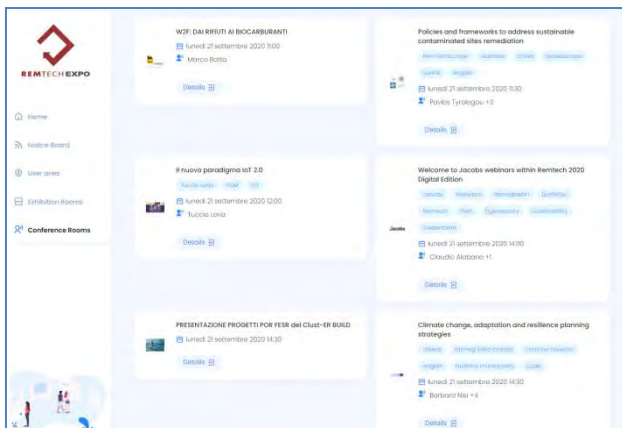
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the more we are, the more we learn from our
experiences!**

ENJOY Remtech Europe!



SESSION 1

From policy talking to industry actions: Zero Pollution for Soil

20 SEPTEMBER MONDAY

09.30 – 13.30 CEST (Central European Summer Time)

Opening

09:00 Welcome from JRC and Remtech Europe

Piotr Wojda (JRC-European Commission) Marco Falconi (ISPRA, Remtech Europe)

09:10 Introduction from the Chairs

Piotr Wojda (JRC-European Commission) Marco Falconi (ISPRA, Remtech Europe)

09:15 Session “Soil policy perspective”

- European Green Deal in the context of the Remtech Europe (Bavo Peters, EC DG ENV D1).
- Zero Pollution Action Plan (Joachim D’Eugenio, EC DG ENV C) targeting also contaminated sites – local pollution and diffuse pollution.
- The role of life cycle assessment and environmental footprint in support to the Green Deal, a zoom into Zero Pollution and the Circular Economy (Serenella Sala, EC JRC D3),
- EEA contribution on contaminated sites/brownfields redevelopment (Rainer Baritz, EEA)
- EU Soil Observatory (Luca Montanarella, EC JRC D3)

10:45 Panel discussion, stakeholders questions and wrap up, *Piotr Wojda (JRC)*

11:30 *Coffee break*

11:45 Workshop session “Clean Soil Outlook - Soil information and soil monitoring”

The objective of this workshop is to openly discuss and to solicit call for contributions: do we have a good understanding of a problem (distribution), do we have solutions now, cost-benefit analysis, pollutant-by-pollutant basis (watch-list), how about a monitoring program? How about new digital technologies?

Workshop agenda:

First: Clarifications on the Clean Soil Outlook.

Second: Who can contribute to?

Third: To encourage to participate in.

12:45 Discussion and wrap up, *Piotr Wojda and Arwyn Jones (EC JRC D3)*

13:00 End of the session

To reserve your seat and for the Certificate, **register here** <https://forms.gle/RhvgacpBJKrXvveq6>



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SESSION 2

TRAINING COURSE - PFAS: characterization, environmental impact, remediation strategies

20 SEPTEMBER MONDAY
14.30 – 19:00 CEST (Central European Summer Time)

Opening

14:30 Welcome and introduction from the Chairs
*Edith Martinez-Guerra (US Army Corps of Engineers), Marco Falconi (ISPRA, Remtech Europe),
Frank Swartjes (RIVM, Remtech Europe)*

Presentations

- 14:40** Engineer Research and Development Center of US Army Corps of Engineers
Speaker to be confirmed (US Army Corps of Engineers)
- 15:00** PFAS and US Army Corps of Engineers program
David Moore (US Army Corps of Engineers)
- 16:00** Extraction and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) from Various Environmental Matrices
Ashley Kimble (US Army Corps of Engineers)
- 17:00** Environmental impact of PFAS
Natalia Vinas (US Army Corps of Engineers)
- 18:00** Systems developed by US Army Corps of Engineers for PFAS remediation
Victor Medina (US Army Corps of Engineers)
- 19:00** End of the session

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SESSION 3

Sustainable management of contaminated sites

20 SEPTEMBER MONDAY

14.30 – 16.30 CEST (Central European Summer Time)

Opening

14:30 Welcome and introduction from the chairs

Piotr Wojda (JRC-European Commission), Dietmar Mueller (COMMON FORUM), Wouter Gevaerts (Nicole Europe)

Presentations

14:35 Selection of sustainable remediation strategies based on a High-Resolution investigation approach

Francisco Campos Castro de Carvalho, Cesar Malta-Oliveira, Rodrigo Trentin, Sandro Souto (Finkler Ambiental)

14:50 Sustainable approach to remediation: analysis and perspectives of the European context and the Eni Rewind experience

S. Frisario (Eni Rewind), L. Zaninetta (Eni Rewind), C. Razzetti (Stantec), L. Piccapietra (Stantec)

15:05 The key to efficiency: How to find the most convenient remediation strategy at a former industrial site

Heinrich Eisenmann (Isodetect), Kevin Kuntze (Isodetect), Joachim Richter (HPC), Annika Beckmann(HPC), Anko Fischer (Isodetect)

15:20 The Development of Gasworks and How this can Inform Site Investigation, Remediation and Heritage

Russell Thomas (WSP), Jean Pierre Davit (WSP-Golder)

15:35 Contaminated sites prioritization in the Republic of Serbia

Dragana Vidojević (Serbian Environmental Protection Agency), Marco Falconi (ISPRA), Lana Kukobat (Serbian EPA), Nemanja Jevtić (ARUP), Aleksandra Šiljić-Tomić (UNEP)

15:50 Development of an Integrated Management Strategy Model for Acid Mine Drainage

Contaminated Areas due historical coal mining activities in Santa Catarina, Southern Brazil
José Carlos R. Gouvêa Jr (Companhia Siderúrgica Nacional), Reginaldo Antônio Bertolo, Sasha Tom Hart (Universidade de São Paulo)

16:05 Ecological Risk Assessment for contaminated site: guidelines and path forward

E. Bizzotto, E. Semenzin, E. Giubilato (Università Ca' Foscari), S. Frisario, L. Zaninetta (ENI Rewind), A. Marcomini (Università Ca' Foscari)

16:20 Panel discussion moderated by chairs

16:30 End of the session



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REMTECH Europe

SESSION 4

Waste tailings and acid mine drainage: challenges for Mining Sites

20 SEPTEMBER MONDAY

17.00 – 19.00 CEST (Central European Summer Time)

Opening

17:00 Welcome and introduction from the chairs:

Jose Gouvea (Nicole Latin America) Stephanie Fiorenza (ASTM International), Robert Jelinek (Slovak State Geological Institute)

Presentations

17:05 Use of nature-based solutions for remediation and restoration

Charles Lee (University of Newcastle)

17:20 Multi – method contaminated soil investigation in a former mine factory

Carlos Herrarte, Natàlia Blázquez-Pallí, David Garriga, Jenny Nilsson, Marçal Bosch (Litoclean)

17:35 Simpler mining water treatment with geochemical technology and minerals

Alberto Angeloni (Montana), Hans Zijlstra (GeoChemTec)

17:50 Uncharted risk management measures for sustainable mining operations

B.A. Watts (Eco Peace NGO), Valeria Zago (Federal Center for Technological Education of Minas Gerais), Lakshmi Gopakumar (School of Environmental Studies, Cochin university of Science and Technology), Karen Ghazaryanc (Yerevan State University)

18:05 Enhancing ESG at industrial waste residue and tailings storage facilities (IWR and TSF) by means of covering with engineered TURF capping technology

Ming Zhu, Gerrit Dortland (Watershed Geosynthetics)

18:20 The importance of evaluating the cumulative impacts of the exploration of the Corrocohuayco project, in the mining area of Antapacay – Intaya expansion, for restoration in the Espinar Region, South Peru

Hernando Nùñez del Prado Simon (University of Arequipa)

18:35 Panel discussion moderated by chairs

19:00 End of the session



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SESSION 5

Bioremediation and phytoremediation in agricultural, industrial, and military sites

21 SEPTEMBER TUESDAY

09.00 – 11.00 CEST (Central European Summer Time)

Opening

09:00 Welcome and introduction from the Chairs

Natalia Rodriguez Eugenio (FAO) Christiane Wermeille (BAFU) Deyi Hou (Tsinghua University)

Presentations

09:05 Combined effect of *Prosopis Juliflora* and consortium of filamentous fungi on the remediation of metal impacted landfill soil

Auwalu Hassan, Innocent C. Ossai (University of Malaya), Agamuthu Pariatamby (Sunway University), Tang Zhen Wen (Jacobs), Fauziah Shahul Hamid (University of Malaya)

09:20 Zero waste approach in *Miscanthus* spp. phytotechnology applied to the slightly contaminated/marginal lands

Robert Ato Newton (Purkyne University), Aigerim Mamirova (Al-Farabi Kazakh National University), Valentina Pidlisnyuk (Purkyne University)

09:35 Biological Approaches to Remediate an Agricultural, Soil Contaminated by an Oil Spill

Elisabetta Franchi, Anna Cardaci, Ilaria Pietrini, Danilo Fusini, Alessandro Conte, Alessandra DeFolly (ENI), Martina Grifoni, Francesca Pedron, Meri Barbafieri, G. Petruzzelli (CNR)

09:50 Bioleaching of metals from printed PC motherboard by acidithiobacillus

J. Avdalović, K. Joksimović (University of Belgrade), S. Zildžović (Institute for Technology of Nuclear and Other Mineral), B. Dojčinović, J. Milić, N. Lugonja, M. Ilić (University of Belgrade)

10:05 Characterization of synthetic and natural surfactants for mobilization of contaminants in environmental matrices

Neda Amanat, Berardino Barbatì, Marta M. Rossi (Sapienza University), Marco Bellagamba, Marco Buccolini (CHIMEC), Marco Petrangeli Papini (Sapienza University)

10:20 Defusing an explosive issue: engineering GM plants to contain explosives pollution on military ranges

Neil Bruce (SERDP-ESTCP)

10:35 Treatment of petroleum-contaminated soils using novel Rhamnolipid produced on winery residues: a green approach within the circular economy framework in Italy

M. Vaccari, A. Chebbi, F.H. Gomez (University of Brescia), A. Franzetti (University Milano-Bicocca), S. Sbaffoni, T. Beltrani, D. Fiorino, E. Demarco (ENEA)

10:50 Panel discussion moderated by chairs

11:00 End of the session



Al-Farabi Kazakh National University



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REMTECH Europe

SESSION 6

Oil and hydrocarbons impacted sites

21 SEPTEMBER TUESDAY

11.30 – 13.30 CEST (Central European Summer Time)

Opening

11:30 Welcome and Introduction from the Chairs

Frank Swartjes (RIVM) Thomas Aspray (Scottish Cont'd forum) Robert Jelinek (Slovak Geo. Ins.)

Presentations

11:35 In-situ Thermal Desorption with REBURN method of hydrocarbon contaminated soil in urban area

Katia Pacella, Aurélien Vandekerckhove, Jan Haemers (Haemers Technologies)

11:50 Natural sorbents & microbes – use of natural sources for decontamination of oil contaminated waters based on the principles of sustainable development

Jelena Milić, Jelena Avdalović, Mila Ilić, Branka Lončarević, Tatjana Šolević Knudsen (University of Belgrade)

12:05 Novel and developing uses of a Colloidal Activated Carbon amendment for the treatment of petroleum hydrocarbon impacted sites

Marcello Carboni, Mariangela Donati, Paola Goria (Regenesi Italy), Gareth Leonard, Jack Shore (Regenesi UK)

12.20 Effect of NAPL mixture composition and alteration on ²²²Rn partitioning coefficients: implications for NAPL contamination quantification

Grégory Cohen, Mathieu Le Meur, Mélissa Laurent (Bordeaux INP), Patrick Höhener (Aix-Marseille Université-CNRS), Olivier Atteia (Bordeaux INP)

12.35 Impact of inoculated biochar on transport of selected organic compounds through porous media

Irina Jevrosimov, Marijana Kragulj Isakovski, Tamara Apostolović, Dragana Čučak, Srđan Rončević, Snežana Maletić (Novi Sad University), Gabriel Sigmund (Wien University)

12.50 Combining traditional and advanced in situ remedial methods to address source petroleum hydrocarbon mass

Will Moody (Provectus), Eric Raes (E&LP), Andy Lowy (Provectus), Claudio Sandrone (BAW)

13.05 Application of an All-in-one ISCO Reagent for Treatment of Hydrocarbons, BTEX and MtBE at a former Petrol Station in Italy

Alberto Leombruni (PeroxyChem, Italy), Mike Mueller (PeroxyChem, Austria)

13:20 Panel discussion moderated by chairs

13:30 End of the session



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SESSION 7

HRSC, High Resolution Site Characterization

21 SEPTEMBER TUESDAY

11.30 – 13.30 CEST (Central European Summer Time)

Opening

11:30 Welcome and Introduction from the Chairs
Deyi Hou (Tsinghua University), Nicola Harries (CL:AIRE), Jean Pierre Davit (AUDIS)

Presentations

- 11:35** Solid data sets are essential to provide reliable solutions. A practical example of improved insights by a High Resolution Site Characterization approach
Pieter Buffel (EnISSA), Michael Borremans (Tractebel)
- 11:50** Hyperspectral imaging for the evaluation of lithology and the monitoring of hydrocarbons in environmental samples
Mohamad Dhaini, François-Joseph Roudaut, Antonin Garret, Ronan Arzur, Audrey Chereau, Fanny Varenne (Tellux), Paul Honeine (Université de Rouen), Mélanie Mignot (COBRA – UMR), Antonin Van Exem (Tellux)
- 12:05** Optimization of the hydro-chemical monitoring network of a large contaminated site
Michele Remonti, Luca Vignali (ERM Italia)
- 12:20** Experimental and modelling investigations of ^{222}Rn profiles in chemically heterogeneous LNAPL contaminated vadose zones
Grégory Cohen (Bordeaux INP), Danyang Su, Klaus Ulrich Mayer (University of British Columbia), Patrick Höhener (Aix-Marseille Université – CNRS), Olivier Atteia (Bordeaux INP)
- 12.35** High Resolution of chlorinated ethenes flux measurements in a contrasting hydrogeological context
Marjan Joris, Erik Bosmans, Goedele Verreydt (iFlux), Hélène Demougeot-Renard (eOde)
- 12.50** Artificial intelligence for site remediation
Muzammel Muhammad, Tanguy Westelynck (Evaldepol), Alice Othmani (UPEC) Aurélien Triger (Evaldepol)
- 13.05** Comparison between SMART CHARACTERIZATION® and traditional investigation and market trends in Brazil
Eduardo Augusto Nassar, Maria Cristina Franceschini Chade, Larissa Avellino de Souza, Flávio Gutierrez (Arcadis)

13:20 Panel discussion moderated by chairs

13:30 End of the session



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SESSION 8

TRAINING COURSE - ASTM STANDARDS: PFAS, Sediment and Climate Resilience

21 SEPTEMBER TUESDAY
14.30 – 19.00 CEST (Central European Summer Time)

Opening

- 14:30** Welcome from ASTM International and Remtech Europe
Stephanie Fiorenza (ASTM International) Marco Falconi (ISPRA, Remtech Europe)
- 14:40** Introduction from the Chairs
Stephanie Fiorenza (ASTM International), Pavlos Tyrologou (European Federation of Geologists, Remtech Europe)

Presentations

- 14:45** PFAS Analytical Method Selection and Data Evaluation Standard Guidance from ASTM
Stephanie Fiorenza, Ph.D. (ASTM International)
- 16:00** *Coffee break*
- 16:15** ASTM's Sediment Corrective Action Standards
Tripp Fischer, P.G. (ASTM International)
- 17:30** *Coffee break*
- 17:45** Climate Resilience for Planning & Strategy and Water Resources
Helen Waldorf (ASTM International)
- 19:00** End of the training

To reserve your seat and for the Certificate, **register here** <https://forms.gle/pnz5H6edwFi6p1QA9>

SESSION 9

Innovative, digital and smart characterization techniques tools

21 SEPTEMBER TUESDAY

14.30 – 16.30 CEST (Central European Summer Time)

Opening

14:30 Welcome and introduction from the Chairs

Piotr Wojda (JRC-European Commission), Erika VonZuben (AESAS), Guido Paliaga (CNR)

Presentations

14:35 Fact sheets on contaminated land and sites - Innovative Technologies

Noémie Dubrac (BRGM)

14:50 Harnessing the power of big datasets to optimize Bioremediation

Dora Taggart, Kate Clark, Sam Rosolina (Microbial Insights), Claudio Sandrone (BAW)

15:05 Soil sampling uncertainty assessment and its importance in the management of contaminated sites

Mateus Knabach Evald, Sandro Souto, Marcos Garcia, Ariane Corrêa Barbosa (Finkler Ambiental)

15:20 Four Easy Steps to Large Building Vapor Intrusion Mitigation

Thomas E. Hatton (Clean Vapor)

15:35 GroundWater Spatiotemporal Data Analysis Tool

Wayne Jones, Luc Rock (Shell Global Solutions)

15:50 Environmental Digital Twin – Using technology for liabilities evaluation

Calvin Iost, Rodrigo Silva, Willians Pavelski, Felipe Valença (CETREL)

16:05 Application of stable isotope analysis for assessing the environmental fate of insensitive munitions

Chunlei Wang, Neil C. Sturchio (University of Delaware), Mark E. Fuller (APTIM), Linnea J. Heraty (University of Delaware), Paul B. Hatzinger (SERDP-ESTCP)

16:20 Panel discussion moderated by chairs

16:30 End of the session



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SESSION 10**Circular Economy: how to apply it in the context of
the Next Generation EU****21 SEPTEMBER TUESDAY****17.00 – 19.00 CEST (Central European Summer Time)****Opening****17:00** Welcome and introduction from the Chairs*Laura Cutaia, ENEA Italy, Juliana Rolla (Pro-Natura), Piotr Wojda (JRC-European Commission)***Presentations****17:10** Characterization of excavated municipal solid waste in view of Landfill mining*Aboudi Mana Suzanne (University of Malaya, Malaysia), Fauziah Shahul Hamid (University of Malaya, Malaysia), Agamuthu Pariatamby (Sunway University, Malaysia)***17:25** The circular economy in the construction sector within the European framework and ENEA activities*Laura Cutaia (ENEA), Antonella Luciano (ENEA), Paola Altamura (ENEA)***17:40** Waste to Fuel*Elena Rubino, Marco Botta, Gianluca D'Aquila (Eni Rewind)***17:55** The validation of converting pyrite ashes contaminated soils into end-of-waste by HPSS application*Petra Scanferla (Fondazione Università Ca' Foscari), Roberto Quesmini (ARPA Lombardia), Marta Pastro (TEV group), Martino Zambon (private), Roberto Pellay (private), Anna Tinello (Fondazione Università Ca' Foscari), Giorgio Ferrari (private)***18:10** Construction & demolition waste management policies for improved resource efficiency: the CONDEREFF project*Elisa Penalvo Lopez and/or others from UPV (UPV - Universitat Politècnica de València), Antonella Luciano (ENEA), Alessandro Drago (Regione Lazio)***18:25** The recovery of Critical Raw Materials from stockpiles and tailings: the INCO-PILES Project*Francesco Tinti (University of Bologna, IT), F. Bodenan (BRGM, FR), L. Cutaia, (ENEA, IT), A. Pagkle (MYTILINEOS S.A., GR), D. Pnias (National Technical University of Athens, GR), J. Schick (Orano Mining, FR), M. Buxton (Delft University of Technology, NL), G. Sonnemann (Université de Bordeaux, FR), A. Chagnes (Université de Lorraine, FR)***18:40** Panel discussion moderated by chairs**19:00** End of the sessionTo reserve your seat and for the Certificate, **register here** <https://forms.gle/tHBuZXpuraKiHYwi8>

SESSION 11

Soil remediation: can we deal in a sustainable way?

22 SEPTEMBER WEDNESDAY

09.00 – 11.00 CEST (Central European Summer Time)

Opening

09:00 Welcome and introduction from the Chairs
Dietmar Mueller (COMMON FORUM) Natalia Rodriguez Eugenio (FAO), Piotr Wojda (JRC-European Commission)

Presentations

- 09:05** Phyto-Assessment of Soil heavy metal accumulation in tropical grasses
Chuck Chuan Ng (China-ASEAN College of Marine Sciences, Xiamen University Malaysia)
- 09:20** Soil remediation enhancement by bio-based surfactants
B. Dussaussoy, Audrey Drelich, Edvina Lamy (Sorbonne Université)
- 09:35** Large-scale demonstration of RESOIL, a sustainable technology for soil washing of metal contaminated soil
Simon Gluhar, Grega E. Voglar, Neža Finžgar (Envit), Marko Gerl (Arhel), Domen Leštan (Envit)
- 09:50** The innovative SPIN® injection technology pushes boundaries of in situ soil remediation: case studies
Jeroen Vandenbruwane (Injectis)
- 10.05** Treatment of soils contaminated by chloroform through “Soil Vapor Extraction”
Andrés Navarro (Polytechnical University of Catalonia)
- 10.20** In Situ Environmental Remediation of Oil using Foam as a Blocking agent
Alexandre Vicard, Olivier Atteia (Bordeaux INP)
- 10:35** Sustainable Soil Reuse Program, Toronto
Steve Desrocher, Marsela Wijaya (Waterfront Toronto), Meggen Janes (private)
- 10:50** Panel discussion moderated by chairs
- 11:00** End of the session



REMTECH Europe

SESSION 12

DNAPL and chlorinated compounds: optimize the process to achieve the target

22 SEPTEMBER WEDNESDAY

11.30 – 13.30 CEST (Central European Summer Time)

Opening

11:30 Welcome and Introduction from the Chairs

Frank Swartjes (RIVM) Christiane Wermeille (BAFU), Ravi Naidu (CRC Care)

Presentations

11:35 Integration between in situ sorption and ISCR to optimize treatment timeline for a PCE plume
Mariangela Donati (Regenesis), Alessandro Lucchesini (CECAM), Marcello Carboni, Paola Gorla (Regenesis)

11:50 Remediation of chlorinated hydrocarbons through Electrical Resistance Heating (ERH) at an active industrial site

Piero Mori, Andrea Gigliuto, Mattia Cappelletti Zaffaroni, Giulia D'Ambrosio, Erika Ballatore (ERM Italia)

12:05 Using 1,1,1-Trichloroethane degradation data to understand NAPL dissolution and solute transport at real sites

Valeureux D. Illy, Gregory J. V. Cohen, Elicia Verardo, Olivier Atteia (Bordeaux INP), Patrick Höhener (Aix-Marseille Université-CNRS), Nathalie Guiserix (Renault)

12:20 Sodium persulfate with integrated activator destroys up to 99% of trichloroethylene in 5 weeks at a manufacturing facility in The Netherlands

Mike Mueller, Brant Smith, Alberto Leombruni (PeroxyChem Environmental Solutions), Harald Opdam, Jan van Doren (Heijmans Infra)

12:35 Successful closure of a DNAPL site lessons learned

Craig A. Cox (Cox-Colvin & Associates)

12:50 Advances in EVO deployment using in situ alcoholysis

Gary M. Birk (Tersus Environmental)

13:05 The importance of pH control and nutrient amendments to achieve optimal enhanced reductive dechlorination (ERD)

Juan Fausto Ortiz-Medina, Brad Elkins, Lydia Ross, Robert C. Borden (EOS Remediation)

13:20 Panel discussion moderated by chairs

13:30 End of the session

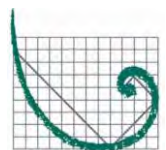


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SESSION 13

TRAINING COURSE:

Current Approaches for Vapor Intrusion Site Investigation and Mitigation

22 SEPTEMBER WEDNESDAY
14.30 – 19.00 CEST (Central European Summer Time)

Opening

14:30 Welcome from SERDP-ESTCP and Remtech Europe
Marvin Unger (SERDP-ESTCP, Noblis) Marco Falconi (ISPRA, Remtech Europe)

Chair

Marvin Unger (SERDP-ESTCP), Frank Swartjes (RIVM, Remtech Europe)

Instructors

Lila Beckley, Paul Dahlen, Yuanming Guo, Per Loll, Thomas McHugh, and Paul Johnson

Presentations

14:45

- Vapor intrusion conceptual model: transport processes including preferential pathways and barriers to vapor intrusion, temporal and spatial variability, indoor sources of VOCs, and scale issues – individual structures vs. neighborhoods.
- Vapor intrusion site screening and investigation: pathway screening, soil gas sampling, manhole sampling, testing of laterals, use of tracers.
- Building-specific investigation methods: indoor air sampling, advanced investigation methods, and long-term, time-weighted sampling.
- Vapor intrusion mitigation / site management: sub-slab depressurization, foundation sealing, building pressurization, indoor air treatment, mitigation options for new construction, and mitigation options for sewers, land use restrictions, operation and maintenance of mitigation systems, and long-term monitoring
- Site-specific investigation approaches (Panel discussion): Panel discussion of site-specific considerations for the selection of site investigation strategies. Audience questions and comments.

19:00 End of the training

To reserve your seat and for the Certificate, register here <https://forms.gle/q4BigJhPv891kG4U8>

SESSION 14

TRAINING COURSE: SUSTAINABILITY ASSESSMENT AS A TOOL FOR MORE SUSTAINABLE AND RESILIENT REMEDICATION OF SOILS, GROUNDWATER AND SEDIMENTS

22 SEPTEMBER WEDNESDAY

14.30 – 16.30 CEST (Central European Summer Time)

Opening

14:30 Welcome from Ramboll and Remtech Europe

Mark Nielsen (Ramboll, Global Site Solutions Practice Leader) Marco Falconi (ISPRA, Remtech Europe)

14:40 Introduction of the Chairs

Aldo Trezzi (Ramboll, Europe Site Solutions Practice Leader), Christiane Wermeille (FOEN, Remtech Europe)

Support: Arianna Pantano (Ramboll)

Presentations

14:45 Session Launch

Mark Nielsen (Ramboll)

14:55 Sustainability Assessment for Remediation

Jarno Laitinen (Ramboll)

15.15 SURE by Ramboll – a worked example of a sustainability assessment of 3 remedial options

Richard Bewley (Ramboll)

15.45 Case Example - Comparison of PlumeStop and Pump-and-treat

Gitte Lemming Søndergaard (Ramboll)

16: 00 Global views and upcoming ITRC guidance

Christopher Ritchie (Ramboll)

16:10 Panel discussion moderated by chairs

16:25 Closing Remarks

Mark Nielsen (Ramboll)

16:30 End of the training

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REMTECH Europe

SESSION 15

PFAS, remediating the forever chemical

22 SEPTEMBER WEDNESDAY

17.00 – 19.30 CEST (Central European Summer Time)

Opening

- 17:00** Welcome and introduction from the Chairs
Stephanie Fiorenza (ASTM International), Wouter Gevaerts (Nicole Europe) Edith Martinez Guerra (US Army Corps of Engineers)

Presentations

- 17:05** Early PFOA breakthrough in a GAC pilot system: A presentation of the available data and hypotheses of what may be happening
Jeffrey Lewis (ECT2), Daniel Eriksson (Tyrens), Anna Norberg (Gästrikevatten)
- 17:20** Case study – sustainable remediation of PFAS impacts at an active fire training ground using passive, cost effective methods
Andrew Sullivan, Rachael Wall, Jonathan Medd, Anna De Fina (Golder Associates)
- 17:35** Surface Active Foam Fractionation (SAFF): Effective PFAS removal from water using only air
Helena Hinrichsen (Envytech) Peter Murphy (OPEC Systems)
- 17:50** In-situ and on-site remediation of PFAS – contaminated soil
Stephan Hüttmann, Anja Wilken (Sensatec), Debora Reinke, Harald Oeder (private)
- 18:05** The use of colloidal activated carbon to treat PFAS in a fractured rock aquifer
Risk McGregor (In Situ Remediation Services)
- 18.20** Compound-specific stable isotope analysis to determine sources and sinks of PFAS
Kevin Kuntze (Isodetect), Lin Qian, Steffen Kümmel, Katrin Mackenzie, Anett Georgi (Helmholtz-Zentrum für Umweltforschung - UFZ), Anko Fischer (Isodetect)
- 18.35** Assessing and mitigating PFAS sampling bias
Jennifer A Field, Trever Schwichtenberg (Oregon State University) Dorin Bogdan (private), Rula Deeb (private) Bill DiGuseppi, Amanda Struse (JACOBS), Deena Drennen, Elisabeth Hawley, Dung Nguyen, Charles Schaefer (private)
- 18.50** Application of lysimetry as a practical solution to accurately assess PFAS transport within unsaturated vadose zone soils
Hunter Anderson (SERDP-ESTCP, Air Force Civil Engineer Center (AFCEC))

19:05 Panel discussion moderated by chairs

19:30 End of the session



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SESSION 16

Microplastics and sediments: two main threats for ports and coastal areas

23 SEPTEMBER THURSDAY

09.00 – 11.00 CEST (Central European Summer Time)

Opening

09:00 Welcome and introduction from the Chairs
Tiziana Murgia (Assoporti) Wouter Gevaerts (Nicole Europe) Ravi Naidu (CRC Care)

Presentations

09:10 Top 10 environmental priorities of Europe's ports
Valter Selén (ESPO)

09:25 Coastal microplastics abundance and distribution: a case study of selected beaches in Malaysian islands
Fauziah Shahul Hamid (University of Malaya)

09:40 Effects of bio-based plastics on microorganisms in fresh and sea waters
Nhung H.A. Nguyen, Marlita Marlita, Alena Ševců (Technical University of Liberec)

09:55 Remediation resilience under a changing climate
Giovanni Marsilio, Emanuele Bobbio, Cristian Villata, Chiastellaro Rodolfo, Jean Pierre Davit (Golder)

10:10 The application of native clay-supported green nano zero-valent iron and its performance on removal of metals from polluted sediment
Nataša Slijepčević, Dragana Tomašević Pilipović, Đurđa Kerkez, Jelena Beljin, Dunja Rađenović, Jovana Jokić, Slaven Tenodi (University of Novi Sad)

10:25 Innovative Chemical Treatment of TBT (Tributyltin) -Impacted Marine Sediments: A Bench Scale Study
George A. Ivey (Ivey International), Claudio Sandrone (BAW)

10:40 Panel discussion moderated by chairs

11:00 End of the session



SESSION 17

SUSTAINATHON



Sustainability the road to global value

23-24 SEPTEMBER 2021

From 14.00 (23 September) to 14.00 (24 September) CEST – 24 HOURS

In collaboration with



Parlamento europeo



7 REASONS TO ATTEND

RELISH the progress being made towards one, more or all of the 17 UN SDGs by different countries.

ENJOY the variety of approaches and methods being used to deliver and monitor progress on individual targets for specific SDGs.

MANAGE your participation to fit with other commitments over the 24 hours – attend as little or as much of Sustainathon as you want.

TAKE AWAY inspiration and ideas that you can apply in your country, on your projects for your stakeholders.

EXPERIENCE the presentations at a time that suits you – whether you attend live or follow the recorded presentations when it is more convenient for your time zone.

CHAT online with other like-minded practitioners from around the world – during and after the event.

HONOUR those sharing their hard won experience – even if we cannot give them a warm round of applause

For the broadcast link **log in** <https://remtech.meeters.space> with a valid email

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Some of the 72 confirmed speakers

Chairs: Paul Nathanail (CABERNET), Marco Falconi (ISPRA), Nicola Harries (CL:AIRE), Natalia Rodriguez Eugenio (FAO)

SUSTAINATHON



Sustainability the road to global value

REMTECH
Europe

	Fabio Massimo Castaldo (EU)	Sustainability perspectives from the EU Parliament
	Sanoi Boev (TJ)	Achievements and further plans of Tajikistan in implementing SDG 6
	Shikha Basin (IN)	Enhancing access to sustainable cooling, enhancing SDG implementation
	Stefanos Fotiou (GR)	SDGs and food
	Taissyia Marmontova (KZ)	Women in public administration of Kazakhstan: possibilities and specifics
	Marat Narbayev (KZ)	How Kazakhstan is working to achieve SDG 6
	Madhav Belbase (NP)	Nepal's SDG achievements
	Sisira Withannachi (LK)	Water quality governance at the local challenges - Sri Lanka
	Gary Grossman (AZ)	Sustainability Azerbaijan and Central Asia: Views of Policy for SDG #6
	Iustina Popescu (RO)	SDG implementation status in Romania and proposals for a faster achievement
	Samvel Sahakyan (AM)	The conservation of sulphurous gas emissions and their application for the reclamation of alkaline soils, as an integrated solution for environmental improvement and the achievement of Sustainable Development Goals
	Olcay Unver (TR)	Turkey's sustainability agenda and good practices in efficient water management
	Eric De Deckere (BE)	How Cefic is dealing with the SDGs
	Maha Hanna (SY)	Management of natural resources in order to achieve the SDGs in Syria
	Co Molenaar (NL)	Application of SDGs in the Netherlands
	Julian Tuccillo (AG)	Sustainable Organizational Development in Buenos Aires city
	Kristina Rabe	Networking for better implementation
	Vesna Tunguz (BA)	How agricultural resources may help in applying SDG 15 in Bosnia H
	Charafat Afailal (MA)	Efforts of Morocco in achieving UN SDGs
	Alfonso Rodriguez (CO)	ASGM - Recovery Mercury from contaminated Tailings and Restoration Areas in Colombia and Peru
	Camila Shibata (BR)	Innovation in the contaminated land market and contributions to SDGs 9,10 and 13
	Colin Herron (SE)	SDG 6.5 monitoring as a platform for advancing on the water-related SDGs
	Sol Ortiz García (MX)	The agricultural sector in Mexico and its contribution to the SDGs
	Terrence P. Long (CA)	Underwater munitions are a grave threat to achieving SDG 13 and SDG 14
	Leila Schein (AG)	Application of SDGs in Argentina
	Bapon Fakruddin (NZ)	Alec Tang (NZ)
	Shawn Shiaun-Wu Chang (TW)	Nino Chikovani (GE)
	Zafarjon Abdukarimovich Jabbarov (UZ)	Alaa El-Bably (EG)
	Hanitriniaina Razafindrahanta (MG)	Victor H. Sumo (LR)
	Ms 'M'aseeiso Hlongwane Mr. Polao Moepi (LS)	M.Jibrin (NG)
	Dagoberto Rodriguez Lozano (CU)	María Malgor Coussirat (AR)
	Barbara Maco (US)	Stella Karnis (CA)
	Gonzalo Flores Roca (PE)	Carlo Linkevievius Pereira (UN)



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REMTECH Europe SESSION 18

Aeriforms and vapor intrusion: measures and models

23 SEPTEMBER THURSDAY

11.30 – 13.30 CEST (Central European Summer Time)

Opening

11:30 Welcome and Introduction from the Chairs
Frank Swartjes (RIVM), Antonella Vecchio (ISPRA) Thomas Aspray (Scotland Contaminated Land Forum)

Presentations

- 11:35** Gas flux at the soil-atmosphere interface with an automated flux chamber
Marian Momtbrun Isabelle Delsarte, Grégory Cohen, Olivier Atteia (Bordeaux INP)
- 11:50** Vapor intrusion screening tools for the evaluation of the source to building exclusion distance at petroleum contaminated sites
Iason Verginelli, Renato Baciocchi (Tor Vergata University)
- 12:05** Developing an effective Vapor Intrusion Mitigation System (VIMS) operations, maintenance and monitoring plan (OM&M)
Thomas E. Hatton (Clean Vapor)
- 12.20** Review of the evolution of Vapor Intrusion and expected future trends
Laurie Chilcote, Craig Cox (Cox-Colvin & Associates)
- 12.35** Overcoming shortcomings of traditional Vapor Intrusion sampling approaches via continuous automated monitoring and response
Blayne Hartman (Hartman Environmental Geoscience), Mark Kram (Groundswell Technologies), Tom Wuyts (Terra Engineering & Consultancy, part of Group Van Vooren)
- 12.50** Vapor Intrusion risk evaluation using automated continuous chemical and physical parameter monitoring
Blayne Hartman (Hartman Environmental Geoscience), Mark Kram (Groundswell Technologies), Tom Wuyts (Terra Engineering & Consultancy, part of Group Van Vooren)
- 13:05** Panel discussion moderated by chairs
- 13:30** End of the session



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REMTECH Europe

SESSION 19

Groundwater remediation in difficult conditions

23 SEPTEMBER THURSDAY

11.30 – 13.30 CEST (Central European Summer Time)

Opening

11:30 Welcome and Introduction from the Chairs

Deyi Hou (Tsinghua University) Piotr Wojda (JRC-European Commission) Dawit Bekele (CRC Care)

Presentations

11:35 Improved in situ remediation of a high velocity anisotropic aquifer using polymers – Pilot scale results

Iheb Bouzid (Université de Bourgogne Franche-Comté), Julien Maire, Antoine Joubert (SERPOL), Nicolas Fatin-Rouge (Université de Poitiers), Fabien Laurent and Mathias Broquaire (Solvay)

11:50 Same VOCs very different outcomes lessons learned from two groundwater remediation sites
Craig Cox (Cox-Colvin & Associates)

12:05 Feasibility tests for the remediation of an Hexavalent Chromium contamination by chemical reduction

Christophe Barnier, David Sette (Golder France)

12.20 A Polyhydroxy butyrate (PHB)/Biochar bioreactor to remove Trichloroethylene from contaminated water: a Coupled Adsorption and Biodegradation approach

Marta M. Rossi, Fabiano Andreini, Paolo Caruso, Neda Amanat, Marco Petrangeli Papini (Sapienza University)

12.35 DNAPLs of chlorinated compounds in fractured media: mass-transfer and mass-assessment

Sofia Visitacion-Carrillo, N. Fatin-Rouge (Université de Poitiers), H. Davarzani, S. Colombano (BRGM)

12.50 Evaluation of 5 years operation of a Funnel and ZVI Gate system for a containment of a VOC's and chromium VI contamination

Julien Matha, Thierry Gisbert (Arcadis France), Wouter Gevaerts (Arcadis Europe)

13.05 Remediation of chlorinated and fluorinated organic contaminants

Michelle Crimi (SERDP-ESTCP, Clarkson University)

13.20 Panel discussion moderated by chairs

13:30 End of the session



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SESSION 20

State of the art of contaminated site management in Brazil

23 SEPTEMBER THURSDAY
14.30 – 19.00 CEST (Central European Summer Time)

Opening

- 14:30** Welcome from AESAS and Remtech Europe
Thiago Gomes (PRESIDENT of AESAS) Marco Falconi (ISPRA, Remtech Europe)
- 14:40** Introduction of the Chairs
Ana Paula Queiroz (AESAS), Dietmar Mueller (COMMON FORUM, Remtech Europe)

Presentations

- 14:45** Management of Contaminated Sites in Brazil
Ana Paula Queiroz (AESAS)
- 15:30** High Resolution Investigation Tools in Brazil
Bernd Seelhorst (AESAS)
- 16:30** *Coffee break*
- 17:00** Remediation Techniques Applied in the Brazilian Scenario
Thiago Gomes (AESAS)
- 17:45** Site Rehabilitation and Reuse in Brazil
Paulo Santos (AESAS)
- 18:45** Panel discussion moderated by chairs
- 19:00** End of the training

To reserve your seat and for the Certificate, **register here** <https://forms.gle/Yy5hBLnzX2qngWcS8>

REMTECH Europe SESSION 21

River environment: managing impacts from different sources

24 SEPTEMBER FRIDAY

09.00 – 11.00 CEST (Central European Summer Time)

Opening

09:00 Welcome and introduction from the Chairs

Pavlos Tyrologou (European Federation of Geologists) Wouter Gevaerts (Nicole Europe) Guido Paliaga (CNR)

Presentations

09:05 Investigating Micro-plastic Pollution in Surface Water of an Urban River: A Case Study of Ganga Ghat along Patna, Bihar

Aakansha Kumari, Sunil Kumar Gupta (Indian Institute of Technology (Indian School of Mines))

09:20 Biochar-supported nZVI for heavy metal removal from river sediment

Dragana Tomašević Pilipović, Nataša Slijepčević, Đurđa Kerkez, Jelena Beljin, Božo Dalmacija, Anita Leovac Maćerak (University of Novi Sad)

09:35 Animal burrowing: a sustainable solution

Silvia Bassini, Bartolomeo Megna, Margherita Zimbaro, Alessandra Nocilla (Università di Brescia), Agnese Bassi, Alessandro Rosso, Cinzia Alessandrini (AIPo)

09:50 Investigation of effective parameters on Kashafrood river restoration using SWOT analysis

Abbas Ali Ghezelsfloo, Nahal Rashedi (Islamic Azad University of Mashhad)

10:05 TUPIX Sensor-to-Wallet Solution for Environmental Monitoring & Management

Daniel Lipschits (Biosfera Foundation)

10:20 Photoactivity of powdered titanium dioxide (TiO₂) in Lindane degradation

Mila Ilić, Ognjen Došen, Jelena Milić, Jelena Avdalović, Tatjana Šolević Knudsen, Nikoleta Lugonja and Nenad Radić (University of Belgrade)

10:35 Competitive adsorption of VOCs and lignin-derived phenolic compounds on zeolites

Luisa Pasti, Annalisa Martucci, Maura Mancinelli, Martina Milani, Tatiana Chenet (UniFe)

10:50 Panel discussion moderated by chairs

11:00 End of the session



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REMTECH Europe

SESSION 22

Wastewater and sewer sludge, handling the last link in the chain

24 SEPTEMBER FRIDAY

11.30 – 13.30 CEST (Central European Summer Time)

Opening

11:30 Welcome and Introduction from the Chairs

Piotr Wojda (JRC-European Commission) Jussi Reinikainen (SYKE), Kine Martinsen (Ministry of Environment, Norway), Baran Bozoglu (ClimateChange Policy Association, Turkey)

Presentations

11:35 Research on microbial community composition of a biological trickling filter to remove odorous gas

Wang Qiu Li, Synthia Wong (Shang Hai Bioscience)

11:50 Microalgae remove nitrogen, phosphorus, and also escherichia coli load from urban wastewater streams

Sara Demaria (Terra&Acqua Tech Laboratory), Costanza Baldisserotto, Michele Maglie, Roberta Marchesini, Lorenzo Ferroni (University of Ferrara), Linda Benetti, Marcello Zanella (Hera), Simonetta Pancaldi (University of Ferrara)

12:05 Blue Water

Manlio Rossini, Marco Botta, Gianluca D'Aquila (ENI Rewind)

12.20 Degradation of Alachlor by UV-C activated peroxymonosulfate treatment: kinetics and water matrices effects

Tajana Simetić, Jelena Molnar Jazić, Irina Jevrosimov, Aleksandra Tubić, Snežana Maletić, Srđan Rončević, Jasmina Agbaba (University of Novi Sad)

12.35 Pedology in support of the legislation on the use of sewage sludge: a case study in Emilia-Romagna Region

Nazaria Marchi (Regione Emilia Romagna)

12.50 Tritium and gamma-emitting radioisotopes in wastewater

Chiara Telloli, Alberto Ubaldini, Stefano Salvi, Antonietta Rizzo (ENEA)

13.05 The use of nature-based solutions for circular management and reuse of oily produced water in the oil and gas industry

Alexandros Stefanakis (Technical University of Crete)

13.20 Panel discussion moderated by chairs

13:30 End of the session



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REMTECH
Europe

SESSION 23

Wastewater control and seawater quality: it is possible to do it acting differently?

24 SEPTEMBER FRIDAY

14.30 – 19.00 CEST (Central European Summer Time)

Opening

14:30 Welcome from AdSWiM and Remtech Europe

Sabina Susmel (Università degli Studi Udine_AdSWiM project) Marco Falconi (ISPRA, Remtech Europe)

14:45 Welcome from the chairs

Sabina Susmel (Università degli Studi Udine_AdSWiM project) Marvin Unger (SERDP-ESTCP, Remtech Europe)

Presentations

15:00 Biosensors for environmental analysis: Trends and perspectives

Ilaria Palchetti (Università degli Studi Firenze)

15:45 Algae based biosensors and total toxicity

Viviana Scognamiglio (IC-CNR-Rome_AdSWiM project)

16.15 *Coffee break*

16.30 Molecular tools for new insights into the microbiology of treated sewage and consequences on coastal seawaters

Viviana Fonti (OGS-Trieste_AdSWiM project)

17.00 Depuration plant, Wastewater and Adriatic Sea: experiences in Interreg IT-HR projects (VIK/PHI-Zadar/CAFC/ACA)

Božidar Čapalija, Jadranka Šangulin, Nicola De Bortoli, Giovanna Brandelli (AdSWiM-Watercare)

17:45 Intervention of the participant suggestions on analytes of interest and / or emerging problems

18.15 Conclusions

19:00 End of the session

To reserve your seat and for the Certificate, **register here** <https://forms.gle/mvTELbnKXZr4S6cs5>

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
































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TIME ZONES	Mon 20 Sept Room A	Mon 20 Sept Room B	Tue 21 Sept Room A	Tue 21 Sept Room B	Wed 22 Sept Room A
 CEST 09:00-11:00  CST 15:00-17:00  IST 12:30-14:30  EDT 03:00-05:00  BRT 04:00-06:00	 From policy talking to industry actions: Zero Pollution for Soil 1		Bioremediation and phyto-remediation 5		Soil remediation: can we deal in a sustainable way? 11
 CEST 11:30-13:30  CST 17:30-19:30  IST 15:00-17:00  EDT 05:30-07:30  BRT 06:30-08:30			Oil and hydrocarbons impacted sites 6	HRSC High Resolution Site Characterization 7	DNAPL and chlorinated compounds: optimize the process to achieve the target 12
 CEST 14:30-16:30  CST 20:30-22:30  IST 18:00-20:00  EDT 08:30-10:30  BRT 09:30-11:30	 US Army Corps of Engineers ® PFAS: characterization, environmental impact, remediation strategies 2	Sustainable management of contaminated sites 3	 ASTM STANDARDS: PFAS, Sediment and Climate Resilience 8	Innovative, digital and smart characterization techniques tools 9	 Current Approaches for Vapor Intrusion Site Investigation and Mitigation 13
 CEST 17:00-19:00  CST 23:00-01:00  IST 20:30-22:30  EDT 11:00-13:00  BRT 12:00-14:00		Waste tailings and acid mine drainage: challenges for Mining Sites 4		Circular Economy: how to apply it in the context of the next Generation EU 10	

TIME ZONES	Wed 22 Sept Room B	Thu 23 Sept Room A	Thu 23 Sept Room B	Fri 24 Sept Room A	Fri 24 Sept Room B
 CEST 09:00-11:00  CST 15:00-17:00  IST 12:30-14:30  EDT 03:00-05:00  BRT 04:00-06:00		Microplastics and sediments: two main threats for ports and coastal areas 		  Sustainability the road to global value Sustainathon	River environment: managing impacts from different sources 
 CEST 11:30-13:30  CST 17:30-19:30  IST 15:00-17:00  EDT 05:30-07:30  BRT 06:30-08:30			Aeriforms and vapor intrusion: measures and models 	Groundwater remediation in difficult conditions 	Sustainathon (24 hours from 14:00 CEST to 14:00 CEST) 
 CEST 14:30-16:30  CST 20:30-22:30  IST 18:00-20:00  EDT 08:30-10:30  BRT 09:30-11:30	 Sustainability assessment for a more sustainable remediation 	  Sustainability the road to global value Sustainathon (24 hours from 14:00 CEST to 14:00 CEST) 	 State of the art of contaminated sites in Brazil 	 Wastewater control and seawater quality: it is possible to do it acting differently? 	
 CEST 17:00-19:00  CST 23:00-01:00  IST 20:30-22:30  EDT 11:00-13:00  BRT 12:00-14:00	PFAS, remediating the forever chemical 