Provisional Programme
International Conference and Exhibition

19, 20, 21 September 2018, FERRARA (North East ITALY)
www.remtechexpo.com
GENERAL PROGRAMME

19 SEPTEMBER WEDNESDAY 12.30 – PAVILION 3
RemTech Expo Opening Ceremony

19 SEPTEMBER WEDNESDAY 14.00 - 19.30 – PALAZZO TASSONI (OFF EVENT)
Getting together Meeting
(Reserved to subscribed attendees - download the program)
Poster Session is available all days at the FerraraFiere venue – PAVILION 3

20 SEPTEMBER THURSDAY 9.30 - 12.30

Opening Session: Regulatory Framework and best practices for risk management – BLUE ROOM
Coordinators: Scientific Committee RemTech Europe
Plenary session and Opening by Italian Special Commissioner for the Site Restoration after illegal dumping Gen. Giuseppe Vadala
Speakers presentations and Round table discussions with panellist speakers

20 SEPTEMBER THURSDAY 14.30 - 17.30

Session 2: Innovative Methods and Technologies – BLUE ROOM
Coordinators: Scientific Committee RemTech Europe
Speakers presentations and Round table discussions with panellist speakers
RemTech Europe 2018 “Live Demonstrations” * - EXTERNAL AREA
Poster Session is available all days at the FerraraFiere venue – PAVILION 3

21 SETTEMBRE VENERDI’ 9.00 - 13.00

Session 3: Sustainable soil and groundwater remediation – A ROOM
Coordinators: Scientific Committee RemTech Europe
Speakers presentations and Round table discussions with panellist speakers
Poster Session is available all days at the FerraraFiere venue – PAVILION 3
Closure session, Conclusions and Instant Report by RemTech Europe Scientific Committee
Getting together Meeting – Artistic experience

**Wednesday 19 September 2018**

2.00 p.m. to 7.30 p.m

**PALAZZO TASSONI** Via della Ghiara n. 36, Ferrara

**2.00 p.m.** Welcome to Getting Together Meeting

**2.15 p.m.** Indoor experience and photography course “Through the streets of Ferrara” by Arch. Laura Abbruzzese, in collaboration with the University of Ferrara, Architecture Department

**3.30 p.m.** Outdoor experience and photography guided tour by Arch. Laura Abbruzzese* Plenary discussion and pictures selection * you will use your own camera or smartphone

**7.30 p.m.** “Through the streets of the World” National Photography Exhibition Opening Ceremony “Through the streets of Ferrara” Pictures Projections Parallel Session Getting together Cocktail and Greetings by the Major of Ferrara
Thursday 20 September 2018
9.00-9.30 - Registration

Opening Session: Regulation, Management Approaches, Financing and Best Practices
Chaired by Ana Paya Perez (Joint Research Centre)

9.30-9.45 - Introduction and greetings

9.45-10.00 - Status of Local Soil Contamination in Europe and outlook
Ana Payá Pérez, Joint Research Centre JRC-Ispra (Italy), European Commission

10.00-10.15 - Harmonization of human health-based risk assessment tools revisited
Frank A Swartjes, National Institute of Human Health and the Environment (RIVM) The Netherlands

10.15-10.30 - 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
Jarno Laitinen, Centre for Economic Development, Transport and the Environment- Finland

10.30-10.45 - How to obtain the most economical solution and create political willingness to solve the EU and global problem of HCH-waste from Lindane production? - An old problem in need of innovative and sustainable approaches
Vijgen John, International HCH & Pesticides Association, Holte, DK-2840, Denmark

Session 1: Regulation, Management Approaches, Financing and Best Practices
Chaired by Frank Swartjes (RIVM-The Netherlands) and Jussi Reinikainen (Finnish Environment Institute (SYKE))

11.00-11.15 POSIDON PCP: POlluted SIte DecontaminatiON Pre-Commercial public Procurement action
Sara Bedin (European Expert on Innovation Public Procurement). Area Science Park Trieste (Italy)

11.15-11.30 UN Environment supports Serbian Environmental Protection Agency in the management of contaminated sites
Filippo Montalbetti (UNEP), Dragana Vidojevic (SEPA), Michele Fratini (ISPRA)
11.30-11.45 - LAND STEWARDSHIP, Investing in the Natural, Societal and Economical capital of Industrial Land
Claudio Albano, NICOLE Network for Industrially Co-ordinated Sustainable Land Management in Europe

11.45-12.00 - In-situ source zone remediation using electrical resistance heating on a project site – near Troyes, France
Miles Stumbaugh, TRS Europe

12.00-12.15 - Comparison Of Different Approaches For Removal Of PFC/PFAS In Water
Jurgen Buhl, Geologist, Cornelisen Umwelttechnologie GmbH, Essen, Germany (Stand by)

12.15-12.30 – Integrated multidisciplinary approach for reusing mining waste as resource
Girolamo Belardi\textsuperscript{a}, Daniela Guglietta\textsuperscript{a}, Francesca Trapasso\textsuperscript{a}, Rosamaria Salvatori\textsuperscript{b}, Barbara Casentini\textsuperscript{c}, Shalini Dhyani\textsuperscript{d}, Nihar Sahoo\textsuperscript{d}, Paras Pujari\textsuperscript{d} and Parikshit Verma\textsuperscript{d\&e}
\textsuperscript{a}Institute of Environmental Geology and Geoengineering, Italian National Research Council, Montelibretti, Rome, Italy

12.30-13.00 - Round table discussion by Ana Paya Perez (JRC), Frank Swarties and Jussi Reinikainen with panelist speakers

LUNCH TIME

Poster Session is available all days at the FerraraFiere (PAV.3)
Session 2: Innovative Technologies in site characterization and site remediation
Chaired by Mike Summersgill (CL:AIRE) and Claudio Albano (NICOLE)

14.30 -14.45 - Enhanced Reductive Dechlorination – Methods for Process Control and Comparison of in-situ- remediation projects of DNAPL sites with and without active hydraulic management
Stephan Hüttmann, Sensatec GmbH, Kiel/Berlin - Germany

14.45-15.00 – Spin® injection: a solution for accurate injection of reagents in heterogeneous soils
Jeroen Vandenbruwane, Injectis BVBA, Belgium

15.00-15.15 - GeoForm: an innovative biogeochemical Treatment of CVOCs
Scott Steffi, PeroxyChem LLC

15.15-15.30 - Innovative Use of Standard Analytical Data Sets from a Comingled Groundwater Plume Setting to Locate Source Areas, Define Plume Boundaries, and Monitor Remediation Progress
Craig A. Cox, Cox-Colvin & Associates, Inc. Plain City, Ohio, USA

15:30-15:45 - Assessment of a new foam-based technology for enhanced reagent delivery in unsaturated anisotropic hydrocarbon-contaminated soils
Nicolas Fatin-Rouge University of Bourgogne Franche-Comté. Institute UTINAM (UMR CNRS 6213)
Team "Nanosciences, Contaminants, Membranes". France

15:45-16:00 Innovative passive sampling technology for improved groundwater and surface water monitoring
Hubert de Jonge, Peter B. Mortensen, EUROFINS Environment Denmark

16.00-16.15 Evaluation of a Potential Dredging Disposal Site: The case of Rio de Janeiro Port
Monique de Farias Marins1, Uirá Cavalcante Oliveira2 Marcelo Pompermeyer de Almeida3, Ministry of Transport, Ports and Civil Aviation - National Secretariat of Ports - Department of Port Infrastructure and Environmental Management Centro Empresarial VARIG- Brasília

16.15-16.30 New PFAS Treatment Technology DE-FLUOROTM
Rick Parkman (AECOM, Manchester, Shangtao Liang, Ph.D. (AECOM, Atlanta, USA , Rachael Casson (AECOM, Sydney, AU

16.30-16.45 The use of Geosynthetic cementitious composite mats (GCCM's: the case of Pongo Mine (Alaska) and Athens (Greece)
Darren Hughes, Concrete Canvas Ltd

16.45-17.15 Round table discussion chaired by Mike Summersgill (CL:AIRE) and with panellist speakers
PARALLEL SESSION AND LIVE DEMONSTRATIONS
Campus of Ferrara Fiere From 14:30 to 17:30

With the active participation of Companies: BAW, I FLUX, SGM Geologia & Ambiente, Petroltecnica, Syndial, Vaporpin

Opening
14:15 Meeting of attendants and companies involved at the entrance of FerraraFiere
Marco Falconi - ISPRA

14:30 Geoprobe drilling and 2-inch piezometer installation
Marco Lupi (SGM Geologia), Mario Sunseri (SGM Ingegneria)

15:00 Technologies “No Man Entry” for remediation of Underground Storage Tanks. Technological evolution and new prototypes: Bruco 3.0 and Camaleonte
Gianlorenzo Minarini (Petroltecnica)

15:30 Surfactant enhanced remediation of soil and groundwater
Bud Ivey (Ivey), Claudio Sandrone (BAW)

16:00 Application of passive samplers to soils and sediments
Luciano Zaninetta (Syndial), Raffaella Borrelli (ENI)

16:30 Application of iFLUX Samplers
Tim Op ’t Eyndt, (iFLUX)

17:00 Temporary and permanent installation of Vapor Pin in concrete and asphalt
Laurie Chilcote (Vapor Pin Enterprise)

17:30 Questions and answers session

17:45 Live Demonstrations closure

In case of bad weather conditions, this session may be postponed to Friday 21st, morning starting from 9:30 a.m.

Poster Session is available all days at the FerraraFiere (PAV.3)
Friday 21st September 2018 (9h30–13h30)

Session 3: Sustainable remediation and innovative technologies
Chaired by Rolf Kettler (Swiss Federal Environment Agency BAFU), Paul Nathanail (Land Quality Management Ltd & INSPIRATION4EU) and Elena Bradiakova (SAZP)

9:00-9:15- Finding ways to implement sustainability in remediation through procurement. Experiences from stakeholder engagement in a complex multisite ‘design-build’ tender for CHC contaminated urban groundwater remediation
Jarno Laitinen, Centre for Economic Development-, Transport and the Environment- Finland

9:15-9:30 - ISO 18504 on sustainable remediation
Paul Nathanail (Land Quality Management Ltd & INSPIRATION4EU)

9:30-9:45 - Approach on soil pollution by fluorine and possible soil remediation technologies
Jozef Kobza, National Agricultural and Food Centre - Soil Science and Conservation Research Institute Bratislava

9:45-10.00 - Testing the phytotechnology with Miscanthusxgiganteus at the military contaminated sites: field stage
Valentina Pidlisnyuk, Jan Evangelista Purkyne University, Czech Republic

10:00-10.15 - EHC Plus: Securing rapid contaminant reduction and accelerated bioremediation using an activated carbon based injectable reagent
Scott Steffl, Alberto Leombruni, Michael Mueller - PeroxyChem LLC

10:15-10:30 - Use of an existing surface water fire-fighting basin at a chemical facility as a sustainable nature-based improvement to a large groundwater containment system.
Nicoletta Cavaleri, Olivier Maurer, CH2M HILL Srl, Italy

Session 4: Innovative technologies for decontamination of groundwater and sediments
Chaired by Prof. Nicola Fatin – Rouge Université de Bourgogne, France with Prof. Grzegorz Malina AGH University of Science and Technology Krakow (Poland)

10.30-10.45 - Innovative Colloidal Zero Valent Iron for effective In Situ Groundwater Remediation
John Freim, Regenesis, California, USA.

10.45-11.00 - Enhanced Sparging Technology using Surfactant and Foam for Groundwater Remediation
Julien Maire, University of Bourgogne Franche-Comté, FRANCE

11:00 -11:15 - Organic Pollution in the Aquatic Environment Caused by Environmental Burdens from the Chemika and Gumon Plants in the Area of the Former Apollo Refinery in Bratislava (Slovakia): An evaluation and assessment of the monitoring results.
Nora Jantáková, Department of Hydrogeology, Faculty of Natural Sciences, Comenius University in Bratislava (Slovakia)
11.15-11.30 The new generation of autonomous data logger: WiSens
Goulven Prud’homme, NKE Instrumentation, Lorient, France

11:30 – 11:45 Application of Nanoremediation for Groundwater Decontamination: A Case study at a former industrial facility contaminated by chlorinated solvents
J. Bosch, J. Bruns, H. Noll, E. Brunetti, INTRAPORE, Essen, Germany

11.45-12:00 - New Antimethanogenic Reagents (AMRs)
Jim Mueller, Greg Booth, Claudio Sandrone, Bernd Rehm, Angela Hassell, Kevin Baker Jim Mueller
Provectus Environmental Products, Inc

12.00 -12:15 - Surfactant Enhanced Extraction to Expedite Remediation of a Carbon Tetrachloride Source Zone at an Active Grain Elevator Facility
George (Bud) Ivey, Claudio Sandrone, Eric Dulle, Ivey International Inc. Surrey, BC, Canada

12.15-12:30 -Microbial Database Percentile Rankings and Stable Isotope Probing to Evaluate MNA
Sam Rosolina, Microbial Insights, Inc., Knoxville, Tennessee, USA

12:30 -13.00 - Round table discussion chaired by Rolf Kettler (Swiss Federal Environment Agency BAFU), Paul Nathanail (Land Quality Management Ltd & INSPIRATION4EU), Dietmar Müller Grabherr (Environment Agency Austria and COMMON FORUM), with panelist speakers

13:00 - Conclusions by Ana Paya Perez - Joint Research Centre JRC

Poster Session is available all days at the FerraraFiere (PAV.3)
The posters will be displayed during all three conference days. The organizers intend to organize poster discussions on Thursday morning (10.45-11.00) with a limited number of poster authors. The decision of having poster discussions will depend on the poster authors registered for the conference. During the poster discussions, the selected poster authors will be near their posters, and explain briefly the main findings. There will be a discussion with the poster authors and delegates facilitated by a discussion leader. At the conference, delegates and poster authors can submit issues they would like to discuss during the poster discussions.

Advancements to the EZVI Technology: Optimization of Biotic and Abiotic Processes and Improved Implementability for in situ DNAPL Destruction
Jim Mueller, Greg Booth (Provectus Environmental Products, Inc - Freeport, IL) Claudio Sandrone (BAW s.r.l. – Manta (CN) - Italy) Bernd Rehm, Angela Hassell, Kevin Baker (ReSolution Partners, LLC - Madison, WI) John Haselow (Redox-Tech, LLC – Cary, NC) Kevin Finneran (Clemson University – Clemson, SC)

Integrated multidisciplinary approach for reusing mining waste as resource.
Girolamo Belardi, Institute of Environmental Geology and Geoengineering, Italian National Research Council, Montelibretti, Rome, Italy

Remediation of weathered oil contaminated soil generated from oil refinery of Kuwait National Petroleum Company (KNPC)
Dr.Meshari Almutairi, Kuwait City

Qualitative and Quantitative Composition of the Phytoplankton and the Zooplankton of Debar Lake in Macedonia
Katerina Belichovska, Daniela Belichovska, Suzana Duraku, Faculty of Agricultural Sciences and Food, Ss. Cyril and Methodius University in Skopje, Republic of Macedonia

Physical and Chemical Characteristics of the Perlite from Macedonia and their Usage for Improving the Properties of the Soil
Vesna Markoska, Petar Petrov, Daniela Belichovska, Bojan Mitrovski Faculty of Environmental Resources Management, MIT University in Skopje, Republic of Macedonia

The transport of dangerous goods and road traffic safety in the Republic of Macedonia
Kire Babanoski, Faculty of security studies MIT University – Skopje, Republic of Macedonia

A field comparison of a novel rain measurement system based on earth-to-satellite microwave links at the urban scale
M. Colli(1), A. Caridi(2)M.Stagnaro(3,4), D. D. Caviglia(1,2), A. Delucchi(2), L.G. Lanza(3,4), (1) University of Genova, Dep. of Electrical, Electronics and Telecommunication Engineering and Naval Architecture (DITEN), Genoa, Italy,
The effect of amendments to the productivity of Miscanthus × giganteus grown at the post-mining land in Ukraine
Kharitonov Mykola, Pidlisnyuk Valentine, Stefanovska Tatyana *, Babenko Mihaylo, Martynova Nadiad, Rula Irina, National University of Life & Environmental Sciences, Kyiv, Ukraine

The Impact of Soil Fertility and Effective Microorganisms on the Soybean Yield (Glycine Max L. Merrill) in Gevgelija Region
Petar Petrov, Lenka Cvetanovka, Faculty of Natural Sciences and Mathematics, Institute of Biology – Skopje Republic of Macedonia

GreenerSites Project - Test of an environmental friendly and cost effective way to provide the capping.
Erika Rizzo, Marta Citron, Autorità di Sistema Portuale del Mare Adriatico Settentrionale - North Adriatic Sea Port Authority. Santa Marta, Venezia, Italy.

The increasing the fertility and productivity of dark chestnut soils in rice irrigation systems
Morozov O.V., Vorozov V.V., Polukhov A.J. Kherson State Agricultural University, Ukraine

Formation of fertility and productivity indices of reclaimed soils under conditions of regional climate change (on the example of Kherson region)
Morozov O.V., Vorozov V.V., Beznitska N.V. Kherson State Agricultural University, Ukraine

Remediation Effect of Different Fractions of Humic Substances
Perelomov Leonid, Perelomova Irina, Chilachava Kakhaber, Shvikin Andrey, Atroshchenko Yury - Tula State Pedagogical University, Lenin Avenue, 125, Tula, Russia

The Efficiency Of Heavy Metals Adsorption By Goethite In The Presence Of Organic Substances
Perelomova Irina, Perelomov Leonid, Violante Antonio-Tula State University, Lenin Avenue, 92, Tula, Russia

Microbiological Quality Of Commercial Fish Feeds
Daniela Belichovska, Bojan Mitrovski, Petar Petrov, Vesna Markoska, Faculty of Environmental Resources Management, MIT University in Skopje, Republic of Macedonia

Properties And Heavy Metal Concentrations of Soils From The Mitidja Plain, Algeria
Abdelkader Laribi a, d, Charles Shand b, Renate Wendler b, Brahim Mouhouche c, Gilles Colinet d, b The James Hutton Institute, Aberdeen, UK, c Rural Engineering Department, Ecole Nationale Supérieure d’Agronomie (ENSA), El Harrach, Algiers, Algeria. University of Liège, Gembloux Agro Bio-Tech, BIOSE Dpt, Gembloux, Belgium.

Features of Formation of Humus Condition of Soils Under Different Cultivation Systems
Morozov O.V., Isachenko S.O., Kherson State Agricultural University, Ukraine

Use of Local Vaccumbinary Departments For Chemical Melioration Of Solar Soils
R.O.Babushkina, Kherson State Agricultural University, Ukraine
The number and weight of earthworms as an indicator of the biological state of soils in the conditions of drilling and hydrocarbon extraction
D.O. Semenov, A.I. Fateev, K.B. Smirnova, A.M. Shemet, O.V. Kucheravenko, National Scientific Center Institute for Soil Science and Agrochemistry Research, Kharkiv, Ukraine

The impact of perennially rice growing on the soil salt regime
Dudchenko K., Institute of rice NAAS, Ukraine

Microbiological Analysis Of Fish Pond Water
Bojan Mitrovski, Daniela Belichovska, Petar Petrov, Vesna Markoska, Faculty of Environmental Resources Management, MIT University in Skopje, Republic of Macedonia

Pollution of Croatian Mediterranean soil with sulfur from high-S coal: soil and coal sulfur speciation (XANES) and soil bioremediation (bacterial biomass)
Gordana Medunić1*, Iva Božičević Mihalić2,3, Magdalena Janeš1, Giuliana Aquilanti2, Mateusz Czyzycki2, Asha Lata Singh4, Prakash K. Singh4, Shweta Rai4
1 University of Zagreb, Faculty of Science, Department of Geology, Zagreb, Croatia, 2 Elettra, Trieste, Italy, 3 Ruđer Bošković Institute, Zagreb, Croatia, 4 Banaras Hindu University, Varanasi, India

Is radiochemistry the solution to most micropollutants removal problems?
Andrea G. Capodaglio. Dept. of Civil Engineering & Architecture- University of Pavia, Italy