

Ferrara Fiere Congressi



20-22 September 2017

## REMTECH EXPO

*Remediation of contaminated sites, Land Management and  
Reclamation*

*Ferrara, 20-22 September 2017*





## **Programme 2017**

### **SEPTEMBER 20 - Wednesday - 9.30 - 12.30**

**General States on the reclamation of contaminated sites**

Coordinators: Paola Ficco, Marco Petrangeli Papini, Luca Marchesi

**Meeting (invitation) of the EIONET working group**

**I Session - Green chemistry: the use of natural esters in power transformers**

Coordinators: Massimo Pompili, Simona Berardi, Marco Falconi

**I Session - Radioactive Waste in Italy: Management, Problems, Prospects**

Coordination by: AIRP

**Official Presentation and Press Conference of RIGENERA CITY: Urban Regeneration and Social Housing**

Coordination by: RemTech Expo and ACER

**Tape Cutting - Graduation Awards Ceremony**

### **20 SEPTEMBER - Wednesday - 14.30 - 18.30**

**National Conference of Contaminated Water Industry**

Coordinators: Donatella Giacometti, Alessandra Pellegrini



**Contaminated water reclamation technologies**

Coordinators: Mentore Vaccari, Gianni Andreottola, Giovanni Beretta



**II Session - Green chemistry: the use of natural esters in power transformers**

Coordinators: Massimo Pompili, Simona Berardi, Marco Falconi

**II Session - Radioactive Waste in Italy: Management, Problems, Prospects**

Coordination by: AIRP

**Implementation and management of controlled landfills: surveys and controls**

Coordination by: AGI-ALGI



## **Workshop on Sino-Italian International, Intelligent, Integrated Platform for Environmental Technology 3iPet Italy Platform**

Coordinator: Patrizia Bianconi

### **20 SEPTEMBER - Wednesday 20.00 - 22.30**

#### **Sustainability and Territory from the knowledge of environmental and natural hazards to valorisation**

*Event Out Exhibition in Ferrara Chamber of Commerce (Largo Castello, 10)*

### **SEPTEMBER 21 - Thursday - 9.30 - 12.30**

#### **Conference of the National System for the Protection of the Environment**

Coordinator: Luca Marchesi

#### **Innovative characterization technologies and background values**

Coordinators: Marco Falconi, Marco Roverati, Luca Marchesi, Guido Paliaga, Laura Balocchi, Daniele Montecchio



#### **Criminal proceedings for environmental offenses: specialized technical advice and evaluation of scientific evidence**

Coordinator: Franco Andretta

#### **RemTech Europe International Conference**

Coordinators: Ana Paya Perez

### **21 SEPTEMBER - Thursday - 14.30 - 18.30**

#### **Contaminated soil reclamation technologies**

Coordinators: Federico Vagliasindi, Mariarosaria Boni, Carlo Collivignarelli



#### **Circular Economy and Urban Regeneration**

Coordinators: Jean Pierre David, Lorella Dall'Olio

#### **Application of phytoplankton for reclamation / reclamation and reclamation of contaminated sediments and foams**

Coordinator: Andrea Sconocchia

#### **The activities of monitoring and environmental protection of marine-coastal and port areas on the Site of National Interest**

Coordinators: Aurelio Caligiore, Laura d'Aprile



## OICE Conference "Reflections on the new Legislative Decree 104/2017 on EIA"

Coordinator: Francesco Ventura



## RemTech Europe International Conference

Coordinatore: Ana Paya Perez

### 22 SEPTEMBER - Friday - 9.30-12.30

## Conference of the Bicameral Commission on Waste Cycle - 2 sub-sections

Coordinator: Alessandro Bratti

## Health and Environmental Risk Analysis

Coordinators: Renato Baciocchi, Maria Chiara Zanetti



## Sustainability of bonifications

Coordinators: Igor Villani, Ana Paya Perez

## RemTech School - Widespread Contamination and Back Diffusion

Coordinators: Marco Petrangeli Papini, Rajandrea Sethi

### 22 SEPTEMBER - Friday from 14.30 to 18.30

## Asbestos management: technical and legislative proposals

Coordinator : Sergio Clarelli

## Environmental Communication Event

Coordinators: Luca Marchesi, Caterina Ferri, Giovanni Paone

## National Chemical Board meeting

Coordinator: Mauro Bocciarelli



## Innovative reagents in contaminated site reclamation

Coordinators: Rajandrea Sethi, Mariachiara Zanetti



Wednesday 20 September 2017, 9: 30-13.15

**GENERAL STATES ON REMEDIATION OF CONTAMINATED SITES**

*Coordinators of the conference:*

*Marco Falconi - ISPRA, Marco Roverati - Arpae, Luca Marchesi - SNPA & AssoARPA*

*Guido Paliaga - Regional Order of Geologists of Liguria-Laura Balocchi – ARPAT*

**Opening**

Greetings and introduction

*Igor Villani – Remtech , Luca Marchesi – SNPA & AssoARPA, Marco Petrangeli Papini – University of Rome La Sapienza, Paola Ficco – Chairman*

**ROUND TABLE**

**Alessandro Bratti** President Parliamentary Commission on Inquiry into Illicit activities related to waste cycle and on related environmental crimes

**Laura D'Aprile** Ministry of the Environment and the Protection of the Territory and the Sea -

**Luca Marchesi** Vice President SNPA – DG ARPA FVG

**Giuseppe Bortone** DG ARPAE Emilia Romagna

**Marco Petrangeli Papini** University Rome La Sapienza

**Vincenzo Maria Larocca** Syndial

**Stefano Ciafani** Legambiente

**Lamberto D'Andrea** Nucleco A.p.A.

**Luigi Ciarrocchi** ENI Spa (\*)

Discussion

12.45 Closing

(\*) to be confirmed



Wednesday 20th September 2017 - 9.00 - 18.00

**GREEN CHEMISTRY: THE USE OF NATURAL ESTERS IN POWER TRANSFORMERS**

Coordinators: Massimo Pompili, Simona Berardi, Marco Falconi

SAVE THE DATE



SAPIENZA  
UNIVERSITÀ DI ROMA

GIORNATA DI STUDIO

**IMPIEGO DEGLI ESTERI NATURALI NEI  
TRASFORMATORI DI POTENZA: RIDUZIONE  
DEI RISCHI AMBIENTALI E D'INCENDIO**

Mercoledì 20 settembre 2017, ore 9.00

Presso RemTech Expo  
Via della Fiera 11, Ferrara





Wednesday 20th September 2017 - 9.00 - 18.00

**AIRP Conference**

**RADIOACTIVE WASTE IN ITALY: MANAGEMENT, PROBLEMS AND PERSPECTIVES**

Registration of participants

Greetings from Authorities and Organizers

**Technical Reports**

Radioactive waste in Italy, **Lamberto Matteocci** ISPRA

National Radioactive Waste Deposit, **Fabio Chiaravalli** SOGIN

Integrated Services for the Management of Non-Electro-Nuclear Waste Radio  
**Nadia Cherubini** ENEA

**10:45 – 11:15 Coffee break**

Operational safety examples of contaminated sites

**Alessandro Dodaro** Nucleco

Managing of radioactive waste produced by medical accelerators

**Carlo Bergamaschi** Campoverde

Operativity in the management of radioactive waste: from industry, medicine and research to  
NORM / TENORM, finds and interventions

**Giacomo Zambelli** Protex

Criticality in the classification of radioactive waste for transport

**Franco Cioce**

**13:15 – 14:45 Lunch Break**

**Round Table with the Bicameral Commission illegal waste disposal**

**Alessandro Bratti** President Bicameral Commission wasteful waste disposal

**Stefano Vignaroli** Vice President Bicameral Commission wasteful waste disposal

**Roberto Mezzanotte** Consultant Bicameral Commission wasteful waste disposal

**Questions and debate**

**18:00 Conclusions**





**Wednesday 20 September 2017 - 14.30-18.00**

## **FOCUS INDUSTRY & ENVIRONMENT**

Coordinators Giacometti, Pellegrini, Sconocchia

### **Opening**

Welcome and introduction on the subject

**Donatella Giacometti** Unione Petrolifera , **Alessandra Pellegrini** Federchimica, **Andrea Sconocchia** Arpa Umbria

The revision of technical annexes of on remediation of contaminated sites within the Italian “Code of the environment” and the upcoming decree on soil for agriculture

**Laura D’Aprile** Ministry of the Environment and the Protection of the Territory and the Sea

The IED baseline report and the national rules on contaminated sites

**Andrea Sconocchia** ARPA Umbria

The new italian rules on soil and rocks from excavation activities: an update and some guidelines for the operators.

**Luna Maldì, Nicola Bentivoglio** Golder Associates

The role of bankruptcy curators in remediation of contaminated sites

**Soraya Barati** University of Rome La Sapienza

The outcomes of “Nicole 2017 - Network for Industrially Co-ordinated Sustainable Land Management in Europe”

**Claudio Albano** NICOLE

The contribution of ecological risk in the definition of remediation targets

**Renato Baciocchi** University of Tor Vergata

The new EIA and the reclamation of new industrial sites

**ambiente sc**

### **FOCUS ON PETROL STATIONS**

Risk assessment on Petrol stations with flux chamber: an innovative approach

**Francesco Ioppolo** Arcadis

In situ remediation technologies applied to petrol stations

**Federica Morlacchi, Dionisio Marco** , Ecological Service Center

### **Debate and conclusions**





Wednesday 20 September 2017 - 14:30 - 18:00

**CONTAMINATED WATER RECLAMATION TECHNOLOGIES**

*Coordinators of the conference:*

*Mentore Vaccari – Gianni Andreottola – Giovanni Beretta*

**Opening**

**Greeting and introduction**

**Mentore Vaccari** University of Brescia, **Gianni Andreottola** Università of Trento, **Giovanni Beretta** Università of Milan

10 minutes Interventions

**Interventions**

15 years of in-situ thermal remediation in Europe - Lessons Learnt

**James Baldock** ERM UK

Integrated chemical-physical remediation technology (SEOR and ISCO) applied to a site contaminated by hydrocarbons

**Guido Piepoli** ASTC Remediation

Active Geosynthetic Composites for subaqueous capping

**Kristof Thimm** Huesker

Assessment And Optimization Design Of A Combined Injection And Abstraction Hydraulic Containment System With The Application Of Numerical Groundwater Modelling

**Elena Leale** AECOM

Presentation title: GRAFYSORBER®, graphene-based adsorbent material for the treatment of water contaminated by hydrocarbons and organic pollutants

**Annalisa Pola, Valerio Giugliano**, Directa Plus

Combining Persulfate, In Situ Ferrate Generation and Enhanced Bioremediation for Safer, More Effective Remedial Actions

**Jim Mueller** Provectus Environmental Products, Inc, **Kevin Finneran** Clemson University, **Ramona Darlington** Battelle and **Michael Scalzi** IET



Technical Evaluation of Real Case Studies - A Method for Assessing the Performance of In Situ Bioremediation

**Paola Gorla, Marcello Carboni** Regenesis

Combined adsorption / biodegradation process in situ chlorinated solvents contaminated by in situ water from the process study to the realization Full scale. AV Station of Bologna

**Marco Petrangeli Papini** University of Rome La Sapienza

Application in the field of ELSTM microemulsion for the treatment of aquifers contaminated by chlorinated solvents and Chrome VI: Italian experiences

**Alberto Leombruni, Mike Mueller, Alan G. Seech** PeroxyChem LLC (USA)

Cadmium removal from contaminated water through biochar and biochar batterizzato  
**M. Boni, A. Chiavola, A. Antonucci, S. Marzeddu**, University of Rome La Sapienza, **E. Di Mattia**, Università of Tuscia (tbc)

Application of the biosparging for the rehabilitation of a contaminated percolated aquifer: treatment tests

**Limoli, G. Andreottola**, University of Trento (tbc)

## Conclusions

Discussions

Closing



Wednesday 20 September 2017 - 14:30 - 18:00

**THE ROLE OF INQUIRIES AND CONTROLS IN THE REALIZATION**

**AND MANAGEMENT OF CONTROLLED LANDFILLS**

*Coordinators of the conference: Nicola Moraci – AGI, Donatella Pingitore – ALIG*

**Opening**

Greeting and introduction

**Relations**

Investigations in the optimum location and project of controlled landfills

**Erio Pasqualini** Politecnica University of the Marche

Investigations and controls during the construction of landfills

**Quintilio Napoleoni** University of Rome La Sapienza

The management and control of controlled landfills during cultivation, closure and post-closure

**Massimo Grisolia** University of Rome La Sapienza

Investigations on the expansion and safety of existing landfill

**Stefano Veggì** AGI Association

**Conclusions**

Discussion

Closing



**Thursday 21 September 2017- 14.30 - 18.30**

**CONFERENCE OF THE NATIONAL SYSTEM FOR THE PROTECTION OF THE ENVIRONMENT**

*Coordinator: Luca Marchesi*

WORK IN PROGRESS



Thursday 21 September 2017 - 9:15-13.30

**INNOVATIVE CHARACTERIZATION TECHNOLOGIES AND BACKGROUND VALUES**

*Coordinators of the conference: Marco Falconi - ISPRA, Marco Roverati – Arpae Luca Marchesi – SNPA & AssoARPA, Guido Paliaga – Ordine Regionale dei Geologi della Liguria, Laura Balocchi – ARPAT, Daniele Montecchio – IRSA CNR*

**Opening**

**Igor Villani** RemTech, **Marco Falconi** ISPRA, **Marco Roverati** ARPAE, **Luca Marchesi** SNPA & AssoARPA, **Guido Paliaga** Ordine Regionale dei Geologi della Liguria, **Laura Balocchi** ARPAT, **Daniele Montecchio** IRSA CNR

Presentations (10 minutes each)

Analisi su multiple linee di evidenza per la corretta caratterizzazione di un sito con presenza di prodotto in fase separata (“Inapl”): individuazione del pennacchio e delle dinamiche di comportamento in condizioni confinate e non confinate

**Nicola Bentivoglio, Anna De Fina**, Golder Associates

Semi-Quantitative High Resolution Site Characterization Techniques for Phase II Due Diligence Audits

**Pieter Dijkshoorn** ERM Brussels

Comparison among MIP e traditional technologies for characterization of hydrocarbons contaminated sites

**Claudio Carusi, Isadora Mariani** Mares Italia

Laser fluorescence & Co. – experiences throughout Europe

**Eugen Martac** Fugro Consult GmbH, Claudio Sandrone BAW Environmental

Drone-mounted technologies for sampling and/or detecting the Real Time three dimensional extent of contamination

**Rocco Laudato, Angelo Fienga** SKY4APPS

Polluted waters and soils: what about their toxicity before and after remediation treatment?

**Guido Persoone**, Ghent University, Belgium; MicroBioTests Inc.



Passive samplers in long-term monitoring: principles and first application of Snap Sampler in Italy  
**Claudio Sandrone** BAW, **Marco Petrangeli Papini** La Sapienza, **Sandy Britt**, ProHydro Inc.

Technical feasibility for achieving low detection limits using thermal desorption: application to passive air samplers

**Laurent Vasse, Sylvain Choquet, Julien Breton** BIOCHEMIE LAB in collaborazione con Eurofins France

PFAS - Enhanced Analytical techniques for better site characterization

**Paul Gribble** ALS Global

PFAS assessment in soil and groundwater: comparison of new technologies for an inclusive analysis of PFAS including precursors

**Ian Ross, Jeffrey McDonough, Jake Hurst, Jonathan Miles, Erika Houtz, Jeff Burdick** Arcadis UK and Arcadis USA

Background value guidelines – Activity of WG19 of National Environmental Protection System (aka SNPA)

**Maurizio Guerra** & various authors ISPRA, ARPA

Characterization and background evaluation of military operational areas

**Antonino Mannino, Ferdinando Spagnolo, Domenico la Candia** SMD, Stato Maggiore della Difesa

Diffuse pollution of organochlorinated compounds in the urban areas of Faenza (Italy)

**Alessandro Gargini**, University of Bologna

Background values in soil of Persistent Organic Pollutants (POPs) in Brescia (Italy)

**Massimiliano Confalonieri, Marco Ciccarelli, Enrico Alberico** ARPA Lombardia

## ABSTRACT

## Conclusions

## Discussion

## Closing



Thursday, 21 September, 2017 - 10.00 - 13.30

**CRIMINAL PROCEEDINGS FOR ENVIRONMENTAL OFFENSES: SPECIALIZED TECHNICAL ADVICE  
AND EVALUATION OF SCIENTIFIC EVIDENCE**

Greetings and Introduction

**Francesco Andretta** President Assoreca

**Luca Scanavini** Vice President of the Emilia and Romagna Chemistry Order

Moderator: **Giuseppe Rossi**, President Accredia

Relations between Scientific and Judicial Knowledge in Criminal Proceedings for Environmental

**Angelo Merlin** Vice President Assoreca

The contribution of the technical advisor in the criminal proceedings for environmental crimes

**Fabio Colombo** Ramboll-Environ, Councilor Assoreca

Explanation of scientific questions in criminal proceedings for environmental crimes

**Gianni Andreottola** Università of Trento

The judicial investigation tools in complex environmental related events

**Massimiliano Corsaro** Maggiore nei Carabinieri, Commander of the Environmental Protection of Milan

The courage to understand. A case law. Pieve Vergonte (Italy)

**Michele Bianco** - Head of Legal Criminal Law, HSE, Syndial, Upstream and Sustainability, Eni

**Conclusions**

Discussion

Closing





Thursday, 21 September 2017- 14.30 - 18.30

**CONTAMINATED SOIL RECLAMATION TECHNOLOGIES**

*Coordinators of the conference:*

*Maria Rosaria Boni – La Sapienza University of Rome, Carlo Collivignarelli – University of Brescia, Federico Vagliasindi – University of Catania*

**Opening**

**Maria Rosaria Boni**, *La Sapienza University of Rome*, **Carlo Collivignarelli** *University of Brescia*  
**Federico G.A. Vagliasindi** *University of Catania*

**Interventions**

Health reclamation from hydrocarbons in a refinery. A "treatment train" applied for phases, systemic and innovative.

**Mulana M., Bossi C., Loddo V.** Sartec

Bioremediation: a natural phenomenon and the associated multifactorial equation to make it sustainable

**Righini Luigi** HERAmbiente S.p.A.

Recovery of contaminated sites and urban planning

**Tira M., Bertocchi C., Bellini R.** Ordine degli Ingegneri di Brescia

The beech plant for the immobilization of heavy metals in contaminated soil: preliminary tests

**Boni M.R., Chiavola A., Antonucci A., Marzeddu S.** *La Sapienza University of Rome* –

**Di Mattia E.** *University of Tuscia*

Reclamation of soil contaminated by IPA through microwave thermal treatments: kinetics and mechanisms of contaminants removal.

**Falciglia P.P., De Guidi G., Catalfo A., Vagliasindi F.G.A.** *University of Catania*

Bioremediation of soil containing TPH

**Alberto Leombruni** PeroxyChem

**Conclusions**

Discussion and Closing



**Thursday 21 September 2017 - 14.30-18.30**

Conference program on the subject:

**CIRCULAR ECONOMY AND URBAN RIGENERATION**

*Coordinators:*

Lorella Dall'Olio – Municipality of Ferrara , Jean Pierre Davit - AUDIS

Reclamation of the contaminated sites in the planning of the Lombardy region

**Sergio Varisco** Regione Lombardia

Brownfield: interdisciplinary aspects in the economic revitalization

**Claudia Ferrari** Emilia Romagna Region

Reclamation and urban regeneration (provisional title)

Municipality of Ferrara

The ecosystem effects of the reclamation of dismantled urban areas

**Marco Marcatili** NOMISMA

Abandoned areas and buildings - Reclamation and recovery To re-create value

Milano e Lombardia Region

The decommissioning of industrial plants in a circular economy

**Mariangela Venco** Syndial (Eni)

The environmental challenge and the new railway line AV / AC Treviglio – Brescia (Italy)

Consorzio CEPAV DUE

Ferrara Site : Waste Management

**Claudio Mingozi** LyondellBasell

System of handling of excavation materials

A cura di SGM S.r.l.

**Debate and Closure**



**Thursday 21 September 2017 - 14.30-16.15**

Programme of the conference on the subject :

**APPLICATION OF PHYTOPLANKTON FOR RECLAMATION / RECLAMATION AND RECLAMATION OF  
CONTAMINATED SEDIMENTS AND FOAMS**

*Coordinator: Andrea Sconocchia*

**Opening**

Introduction to the management of contaminated sediments and surface foams

**Andrea Sconocchia** Arpa Umbria, **Paolo De Angelis** DIBAF UNITUS

Bioremediation for the reclamation of contaminated areas and energy enhancement of biomass

**Valeria Ancona** IRSA-CNR

Reuse of remediated sediments in agriculture: the results of LIFE CLEANSED and HORTISED projects

**Giancarlo Renella** Department of Agro-Food Production Sciences and Of the Environment DISPAA

Possible application of *Chrysopogon zizanioides* in surface water contaminated by Boro

**Maria Grazia Scialoja** ARPAE

Fitodisidratazione di fanghi confinati in un bacino artificiale: un approccio sostenibile alla gestione di bacini contaminati

**Dario Liberati** DIBAF UNITUS

Rehabilitation of a heavy metal contaminated riverbeds by phytoextraction technique

**Angel Faz Cano** Research Unit Sustainable Use, Management and Reclamation of Soil and Water – GARSA Technical University of Cartagena

**Closure**



Thursday 21 of September 2017 – 14.00-18.00

**THE ACTIVITIES OF MONITORING AND ENVIRONMENTAL PROTECTION OF MARINE-COASTAL  
AND PORT AREAS ON THE SITES OF NATIONAL INTEREST**

*Coordinators:* Amm. Aurelio Caligiore, Laura D'Aprile

IN COLLABORATION WITH



**Opening**

Greetings and introduction

**Amm. Aurelio Caligiore** Head of the Marine Department

**Laura D'Aprile** Manager Reclamation Division MATTM (Ministry of Environment)

The activities of control and monitoring on the National Interest Sites located in the coastal area set up by the Port Authorities - Coast Guard. The experience on S.I.N. of Trieste

**Aurelio Caligiore** Head of the Marine Department

**Fabio Poletto** Head of Operations Unit of the Trieste Port Authority

The application experience of the Port of Taranto in the realization of strategic works in the area SIN

**Sergio Prete** President Ionio Sea Port Authority

**Break**

Monitoring of sediment dredging within SIN: from field experiences to DM 172/2016

**Antonella Ausili, Elena Romano** ISPRA

The experience of SNPA in the application of the Decrees of the Ministry of the Environment n.172 and 173 of 15 July 2016

**Giuseppe Bortone** Director ARPAE

**Debate and Conclusions**



**Giovedì 21 Settembre 2017  
16.45 – 18.30**

**CONVEGNO OICE**

**OICE CONFERENCE "REFLECTIONS ON THE NEW LEGISLATIVE DECREE 104/2017 ON EIA"**

Moderator **Francesco Ventura**

WORK IN PROGRESS



CHAMBER OF DEPUTIES – SENATE OF THE REPUBLIC

*Parliamentary Commission on Inquiry into Illicit activities related to  
waste cycle and on related environmental crimes*

**Friday 22 September 2017- 9:30 -11:30**

**POLLUTION BY PERFLUOROALKYL SUBSTANCES (PFAS)**

**IN SOME AREAS OF THE VENETO REGION**

***The Commission report***

**Introduction: On. Alessandro Bratti** President of the Commission

***Interventions***

**Dr. Francesco Castellano** Magistrate, Commission Adviser

**Prof. Gianluca Maria Farinola** Adviser to the Commission

*Speaker to be defined*, Ministry of the Environment and the protection of the territory and the sea

**Luca Zaia** President of the Veneto Region

**Dr. Nicola Dell'Acqua** General Director of ARPA Veneto

**Debate**

Are planned speeches by members of the Commission

**Conclusions: On. Alessandro Bratti** President of the Commissione



CHAMBER OF DEPUTIES – SENATE OF THE REPUBLIC

*Parliamentary Commission on Inquiry into Illicit activities related to waste cycle and  
on related environmental crimes*

**Friday 22 September 2017 - 11:30 - 13:30**

**ENVIRONMENTAL QUESTIONS CONNECTED TO PROSPECTING, PRODUCING AND TRANSPORTING  
HYDROCARBONS IN BASILICATA**

***The Commission report***

**Introduction: On. Alessandro Bratti** President of the Commission

***Interventions***

**Dr. Giuseppe Battarino** Adviser to the Commission

**Dr. Franco Roberti** National Anti-Mafia Prosecutor

**Dr. Claudio Descalzi** Managing Director of ENI

**Marcello Pittella** President of Basilicata Region

**Dr. Edmondo Iannicelli** General Director of ARPA Basilicata

**Debate**

Are planned speeches by members of the Commission

**Conclusions: On. Alessandro Bratti** President of the Commission





**Friday 22 September 2017, 09:30 - 13:30**

**HEALTH AND ENVIRONMENTAL RISK ANALYSIS**

Opening

**Renato Baciocchi** University of Rome "Tor Vergata", **Mariachiara Zanetti** Polytechnic of Turin

**Presentations**

Risk assessment and protection measure for workers: critical issues and perspectives

**Simona Berardi, Elisabetta Bemporad, Alessandro Ledda** INAIL

Exposure in environments of life: diffused contamination

**Eleonora Beccaloni, Federica Scaini** ISS

Integrated Innovative Characterization Approach For The Development Of Tier III Human Health Risk Assessment

**Francesca Motta** AECOM

PE-based passive samplers for monitoring of soil (gas) and sediments

**Luciano Zaninetta** Syndial, **Raffaella Borrelli, Alessandro Oldani, Fabio Vago** Eni, Renewable Energy & Environmental R&D, **Philip Gschwend, John McFarlane** MIT, **Iason Verginelli, Renato Baciocchi** University of Rome "Tor Vergata"

The issue of analytical data validation for HHRA

**Luca Spinelli** Thearen

Risk assessment and environmental monitoring for prevention of workers risk: a case study

**Laura Bretti e Mariachiara Zanetti** Polytechnic of Turin

Critical issues in the application of risk assessment to hydrocarbon contaminated sites.

**Natasa Lazovic**, Planeta EConsulting

Approaches for assessing LNAPL natural attenuation

**Julio Zimbron**

Study of interaction of gaseous pollutants to the atmosphere ground interface - for the definition of a method of monitoring and critical assessment of the guidelines. The case of VOC in the site of Maserada sul Piave (Treviso-Italy)

Copernico Srl

**Discussion - Closing of the conference**



Friday 22nd September 2017 (9h30 a.m – 1h30 p.m.)

**Workshop on sustainable remediation of contaminated sites:  
what's new in Europe?**

In collaboration with





Venerdì 22 Settembre 2017, 09:30 - 13:30

REMTECH TRAINING SCHOOL

V EDIZIONE

**"Aging of sources in DNAPL contaminated sites:**

**characterization methods and remediation strategies"**

Coordinators: Prof. Marco Petrangeli Papini, Prof. Rajandrea Sethi, Dott.ssa Silvia Paparella

First part

Introduction and general concepts (09:30 – 11:00)

Aging of secondary contamination sources and back-diffusion phenomena in sites contaminated by DNAPLs

**Marco Petrangeli Papini** University of Rome "La Sapienza"

"14 Compartment Model "as a tool for predicting the effectiveness of remediation operations at sites contaminated by chlorinated solvents: results from the project "Analysis and promotion of new reclamation and characterization technologies for contaminated sites" of the Lombardy Region

**Mauro Majone** University of Rome "La Sapienza"

Techniques for the characterization of "historically" contaminated sites

**Prof. Rajandrea Sethi** Polytechnic of Turin

Second Part

Examples in the characterization, reclamation and management of sites historically contaminated by DNAPLs

High Resolution Site Characterization: Examples from the application of Membrane Interface Probe (MIP) and Laser Induced Fluorescence (LIF-UVOST)

**Eugene Martac** Fugro Consult GmbH, **Claudio Sandrone** BAW



Examples of application of combined adsorption biodegradation processes in the management of persistent contamination plumes

**Marcello Carboni, Paola Gorla** Regenesis

Advanced technologies for source remediation at sites historically contaminated by chlorinated solvents: case studies

**Alberto Leombruni, Mike Mueller** PeroxyChem



**22 September 2017- 14:00 - 18:00**

**ASBESTOS MANAGEMENT: TECHNICAL AND LEGISLATIVE PROPOSAL**

*Coordinator:*

*Sergio Clarelli - ASSOAMIANTO, Milan*

**Opening**

14:30 Greetings and Introduction

***Sergio Clarelli*** ASSOAMIANTO, Milano

**Interventi**

The state of the art of innovative disposal of asbestos: technical solutions and regulatory proposals

***Sergio Clarelli*** ASSOAMIANTO, Milan

Presentation of the Draft Law No. 2602 for the reorganization of asbestos legislation in a single text

***Camilla Fabbri*** Senate of the Italian Republic - Investigation Commission on Workplace Accidents - First Signatory of Draft Law No. 2602)

Asbestos 2.0 Project - Asbestos in Surface designed for Reconstruction of School Buildings - Pilot Phase

***Marco Staderini*** SOGESID S.P.A. - Company in-house of the Italian Ministry of the Environment and the Protection of the Territory and Sea and of the Ministry of Infrastructure

Remediation of a site contaminated by asbestos: the case study of the Ex-Fibronit area of Bari

*Polytechnic of Bari*

**Conclusions**

Debate

**18:15 Closing**



Friday, 22 September 2017 - 14.30-18.30

**ENVIRONMENTAL COMMUNICATION**

**Environmental protection: the role and responsibilities of journalism**

**14:30 Participants' registration**

Welcome

Moderator: **Monica D'Ambrosio**, journalist RiciclaTv

Science and communication, how to improve environmental governance

**Giancarlo Naldi**, Director Ecoscienza

Giornalismo and publishing, winning weapons to communicate with the Environment

**Roberto Cavallo** President AICA, International Association for Environmental Communication

The role of communication in the environmental protection system

**Luca Marchesi** General Director ARPA Friuli Venezia Giulia Region and Council of the National Environmental Protection System. Environmental Sustainability

Environmental Sustainability: The Value of Institutional Communication

**Valentina Caroli** Centro Idea Municipality of Ferrara

Information and Transparency: Sogin's Media Relations activity

**Marco Sabatini Scalmati** Head of Media Relations Sogin, State Company for the Demolition of Nuclear Installations and Radioactive Waste

Communication and Awareness: The Case MaresQ8

**Carmela Neffat** Communication e Marketing MaresQ8

The infographic of the technical report

**Francesco Bertelloni**, ambiente sc

Raccontare l'ambiente con le immagini: il compito e il valore della fotografia

**Giovanni Paone** Editore RiciclaTv (testata web video) e ceo founder Maidiremedia (Agenzia di comunicazione ambientale)

**18.00 Conclusions**



**Friday, 22 September 2017 - 14.00-18.00**

**NATIONAL CHEMICAL BOARD EVENT**

**ROLE OF CHEMISTRY IN ENVIRONMENTAL BONIFICATIONS**

**14.00 Introduction**

**Mauro Bocciarelli** National Chemists Council

**Greetings and presentation of the afternoon session**

**Raffaella Raffaelli** President Interprovincial Order of the Chemists of Emilia Romagna

**The Chemical and The characterization of environmental matrices: Certain pollutant identification**

President National Chemical Board or its delegate

**Agregates arising from the treatment-recovery of inertia and environmental matrices: new proposal of eco-compatibility assessment of the eluate**

Expert of the Order of the Chemists of Parma And Piacenza

**Certification of sampling and analysis in environmental matrices**

**Federico Pecoraro** Accredia (tbc)

**Preliminary technical evaluations and field physical chemical activities for the characterization of environmental matrices**

Referent of the National Chemistry Council

**Completion of metals in the characterization of environmental matrices**

Expert of the Chemical Order of Pavia

**Innovative methods for the removal of contaminants emerging from environmental matrices**

**Luisa Pasti** University of Ferrara

**Management and communication of environmental risk**

**Luca Scanavini**, Vice-President Interprovincial Order of Chemists of Emilia Romagna

**Conclusions**

**Mauro Bocciarelli** National Chemical Council





Friday, 22 September 2017 - 14.00-18.00

**INNOVATIVE REAGENTS IN CONTAMINATED SITE RECLAMATION**

Coordinators: Rajandrea Sethi, Mariachiara Zanetti

Innovative products for the remediation of groundwater

**Lorenzo Sacchetti** Carus Europe

innovative reagents for the remediation of groundwater

**Alberto Leombruni** Peroxychem

Use of Reagents Innovative in Reclamation of Contaminated Sites

**Claudio Sandrone, Andrea Campi** BAW, Provectus

Replacement of a P & T barrier with a passive Liquid Activated Carbon barrier to reach and maintain CSCs at the border - An Italian case study

**Marcello Carboni, Paola Gorla** Regenesi

Nanotune: controlled injection of reactive colloids in groundwater

**Rajandrea Sethi, Carlo Bianco, Tiziana Tosco** Polytechnic of Turin

**Discussion and round table**