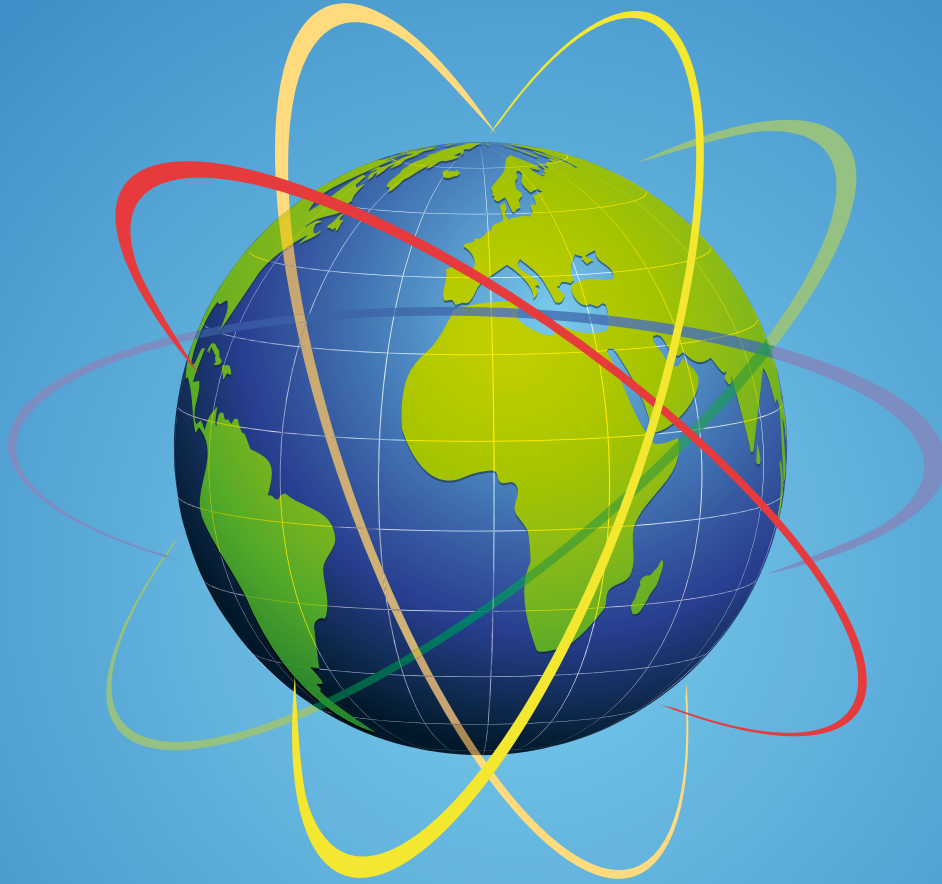


OFFICIAL PROGRAM



September 17-19, 2014 Ferrara Exhibition Centre

The 3rd International Conference on: **SUSTAINABLE REMEDIATION 2014**

Cooperating International Partner Organisations:



Promoting Italian organizations:



sustrem2014.com

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Rik LANTZ, Sullivan (USA)

Barbara MACO, Wactor & Wick LPP (USA)

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Paul NATHANAIL, University of Nottingham (UK)

Garry Smith, SuRF ANZ / Geosyntec (Australia)

Jonathan SMITH, SuRF-UK / Shell Global Solutions (UK)

Hans SLENDERS, NICOLE / SuRF NL / Arcadis (Netherlands)

Alan THOMAS, NICOLE / ERM (UK)

The 3rd International Conference on: **SUSTAINABLE REMEDICATION 2014**



September 17-19, 2014 Ferrara Exhibition Centre

17 September - Wednesday: Castello Estense
Sala degli Stemmi - Via Largo Castello, 1

INTRODUCTION Claudio Albano, Reconnet-SuRF Italy / CH2MHILL, (Italy) Silvia Paparella, Reconnet-SuRF Italy / Fiere Ferrara, (Italy)		
2.00 pm OPENING WITH GREETINGS FROM AUTHORITIES Tiziano Tagliani - Ferrara Mayor, Laura D'Aprile - Italian Ministry of Environment		
Theme 1 CONCEPTUAL FRAMING CHAIRPERSONS: Marco Falconi RECONnet-SuRF Italy / ISPRA (Inst. Envir. Protection & Research, Italy), Paul Nathanail, University of Nottingham (UK)	2.40 pm	169 - "Urban Land Management 2064 – sustainable brownfield reuse matters" C. Paul Natanail (University of Nottingham & FP7_HOMBRE), Hans Van Du-jine (Deltares & FP7_HOMBRE Maaikje Blauw Deltares & FP7_HOMBRE), Katja Wendler (Dechema & FP7_HOMBRE)
	3.00 pm	151 - "Implementing Sustainable Remediation – Evolution of Policy Frameworks towards a Fourth Generation of Legislation" Gernot Doberl (Environment Agency Austria), Dietmar Muller-Grabherr (Environment Agency Austria)
	3.20 pm	146 - "A Review of the Legislative and Regulatory Basis for Sustainable Remediation in the European Union and United Kingdom" Steven Tan (URS Infrastructure & Environment UK Ltd), Rick Parkman (URS Infrastructure & Environment UK Ltd), Richard Bewley (URS Infrastructure & Environment UK Ltd), Paul Bardos (r3 Environmental Technology Ltd)
	3.40 pm	184 - "How 'sustainable' is Sustainable Remediation?" Reanne Ridsdale Debora (University of Saskatchewan, Saskatoon, Canada)
	4.00 pm	152 - "Flanders integrates sustainable soil remediation into other policies" Griet Van Gestel (OVAM), Tim Caers (OVAM), Ellen Luyten (OVAM), Johan Ceenaeme (OVAM)
	4.20 pm	139 - "Efficiency Gains through use of Combined Remedies – principles and examples" Jeremy Birnstingl (Regenesis Ltd), Alberto Leombruni (Regenesis Ltd)
4.40 pm COFFEE BREAK (10')		
Theme 1 CONCEPTUAL FRAMING Focus on International SuRF CHAIRPERSON: Dietmar Müller-Grabherr, Environment Agency (Austria) - common Forum	4.50 pm	187 - "The role of risk assessment in sustainable remediation a UK perspective" Alan Thomas (ERM), Jane Oakeshott (ERM)
	5.10 pm	132 - "Sustainable Remediation Progress in Taiwan: Framework, Tools and Case Studies" Colin S. Chen (National Kaohsiung Normal University), Hao-Chun Hung (Soil and Groundwater Remediation Fund Management Board, Environmental Protection Administration), Bing-Nan Wang (SINOTECH Environmental Technology Ltd), Tsai-Wen Chiang
	5.30 pm	123 - "Achievements and Future of the Organization" Amanda McNally (SURF/AECOM), Dave Woodward (AECOM SURF US)
5.50 pm	177 - "Launching Sustainable Remediation Forum at Italian National level - opportunities and challenges" Claudio Albano (CH2MHILL), Alessandro Battaglia (ERM), Camila Guzman (Golder Associates), Jean Pierre Davit (Golder Associates)	
CHAIRPERSON: Nicola Harries, CL:AIRE (Contaminated Land: Applications in Real Environments, UK)	6.10 - 6.40 pm	International SuRF Panel Round Table

18 September - Thursday: Ferrara Fiere e Congressi

Via della Fiera, 11

PARALLEL SESSIONS 1: Thursday Morning			
W A T E R R O O M	WORKSHOP CHAIRPERSON: Carlos Pachon, US EPA (Office of Superfund Remediation and Tech. Innovation, USA)	9.00 am WORKSHOP: "Implementing Remedies with a Lower Environmental Footprint: Recent Developments"	
		11.00 am COFFEE BREAK (20')	
	Theme 3 "GREENING" REMEDIATION CHAIRPERSON: Alan Thomas, NICOLE / ERM (UK)		11.20 am 116 - "A multi-criteria method for assessing the sustainability of remediation alternatives" Gitte Lemming (Technical University of Denmark), Morten Bondgaard (Central Denmark Region), Philip J. Binning (Technical University of Denmark), Kasper Rüegg (Central Denmark Region)
			11.40 am 115 - "Using innovative geotextile structures and vegetation as an in-situ technique to bioremediate heavy metal contaminated sediments in the Wormerand Jisperwater area, The Netherlands" Chiel Lauwerijssen (Tauf Group), Paul Stook (Tauf Group), Gustav Egbring (Tauf Group)
			12.00 am 143 - "Sustainability Helps Tip the Balance for Selecting Novel Technologies: A Case Study Selecting STAR for a Coal Tar DNAPL Site" Gavin Grant (Savron), David Major (Savron), Grant Scholes (Savron), Matt Vanderkooy (Geosyntec Consultants)
			12.20 am 108 - "Greening remediation eco-efficient technologies and opportunities from synergy" Paul Bardos (University of Brighton, r3 Environmental Technology Ltd), Andy Cundy (University of Brighton), Kene Onwubuya (University of Brighton) and others
			12.40 am 157 - "Assessment of sustainable sulfur remediation and reuse at remote location" Alberto Cazzaniga (Golder Associates S.r.l.), Jean Pierre Davit (Golder Associates S.r.l.)
		1.00 - 1.20 pm 114 - "The natural catch" Tobias Praamstra (Tauf BV)	
PARALLEL SESSION 2: Thursday Morning			
WORKSHOP CHAIRPERSON: Paul Bardos, r3 environmental technology ltd / University of Brighton (UK)	9.00 am WORKSHOP: "The World Café Nanoremediation: hope or fear from the Sustainability Perspective?"		
	11.00 am COFFEE BREAK AND POSTER SESSION (20')		
WORKSHOP CHAIRPERSON: Barbara Maco, Wactor & Wick LPP (USA)	11.20 am WORKSHOP: "Sustainable remediation and Redevelopment Case Studies State of the art"		
	1.20 - 2.00 pm LUNCH (40')		
PAV. 6			
PARALLEL SESSION 1: Thursday afternoon			
W A T E R R O O M		2.00 pm 106 - "Co-Composting of Hydrocarbons Impacted Soil" Eric Bergeron (Golder Associated Ltd)	
		2.20 pm 109 - "The sustainability evaluation of an innovative technique of S/S evaluated through comparative LCA" Petra Scanferla (Consorzio Venezia Ricerche), Roberto Pellay (Mapintec)	
	Theme 3 "GREENING" REMEDIATION CHAIRPERSONS: Alessandro Nardella, Eni HSEQ (Italy) Gary Smith, SuRF ANZ / Geosyntec (Australia)		2.40 pm 161 - "Development of a national tool for assessing the environmental footprint of cleanup technologies in the framework of the green remediation approach" Andrea Forni (Libero professionista), Flavia Polli (Università degli Studi di Roma "Tor Vergata"), Roberto Riberti (ARPA Emilia Romagna), Marco Falconi (ISPRA)
			3.00 pm 129 - "Integrating Sustainable In-Situ Thermal and Biological Treatment" James Baldok (ERM) Alan Thomas (ERM), Simon Tillotson (ERM), Jay Dablow (ERM)
			3.20 pm 140 - "Tools, tips and tricks of the trade for more sustainable soil use" Claire Dickinson (AECOM), Hilary Allen (AECOM), David Ridout (AECOM)
			3.40 pm 155 - "Fusina Treatment Wetland - From Remediation to Sustainable Water Management" Claudio Albano (CH2MHILL), Jim Bays (CH2MHILL), Oliviero Trebbi (SIFA), Paolo Zanocco (Studio Altieri S.p.A)
			4.00 pm 178 - "Sustainable Integrated Dismantling, Remediation and Redevelopment of an Industrial site in Brazil" Paola Barreto (DuPont), Olivier Maurer (CH2MHILL), Laís Trento (DuPont), Paloma Carvalho (DuPont)
		4.20 pm COFFEE BREAK AND POSTER SESSION (20')	

Theme 4

CASE STUDIES

CHAIRPERSONS:

Mengfang Chen, SITE REM / CECDADI (China)
Hans Slenders, NICOLE / SuRF NL / Arcadis
(Netherland)

4.40 pm	166 - "Technology trains in the framework of the holistic management of brownfield regeneration" Renato Baciocchi (Università degli Studi di Roma Tor Vergata), Oriana Capobianco (Università degli Studi di Roma "Tor Vergata"), Giulia Costa (Università degli Studi di Roma "Tor Vergata"), Martijn Smit (Wageningen University)
5.00 pm	126 - "Apply Green Remediation principles in a soil remediation project - Case study from Kuwait " Bedanga Bordoloi (TERI Etali Sarmah)
5.20 pm	112 - "Economic value of sustainable soil management, policy based (national) case study for the Netherlands" Mark in 't Veld (Tauw bv)
5.40 pm	154 - "Development Corporation Queen Elizabeth Olympic Park, Inception to Legacy" Steve Davies (London Legacy)
6.00 - 6.20 pm	133 - "Eco-efficient risk management of a creosote contaminated site" Pirjo Tuomi (Golder Associates), Oy Hannu Hautakangas (Golder Associates Oy, Antti Kari (Senate Properties), Heikki Laakso (Golder Associates Oy)

PARALLEL SESSION 2: Thursday afternoon

Theme 2

TOOLS, METRICS AND INDICATORS

CHAIRPERSONS:

Rik Lantz, Sullivan (USA)
Lorenzo Sacchetti Reconnet-SuRF Italy /
CARUS (Italy)

2.00 pm	165 - "Government of Canada's Sustainability Decision Support Tool (SDST) for Site Remediation" Robert Noel de Tilly (Golder Associates), Sébastien Yelle (Travaux Publics et Services Gouvernementaux Canada (TPSGC))
2.20 pm	149 - "Sustainability Appraisal Methods: importance of input data consistency and reliability and monitoring during execution" Claudio Albano (CH2MHILL), BiancaMaria Cazzaniga (CH2MHILL)
2.40 pm	183 - "Remediation of gasoline service stations: sustainability assessment of Excavation and Disposal, Multi phase-extraction, Bioventing and Soil Vapor Extraction" Ambrosini Paolo (SAIPEM), Lanari C., Patata L., Crimi G., Ragni P., Schillaci P. (SAIPEM, RISAMB department, ECOAP department)
3.00 pm	127 - "The search for a sustainable remediation methodology in Australia and New Zealand" John Hunt (Thiess Services), Garry Smith (SuRF ANZ (Chairman) and Geosyntec)
3.20 pm	176 - "SCORE: Sustainable Choice Of REmediation at Contaminated Sites" Lars Rosen (Chalmers University of Technology), Pär-Erik Back (Swedish Geotechnical Institute), Tore Söderqvist (Enveco Environmental Economics Consultancy), Jenny Norrman Chalmers (University of Technology)
3.40 pm	167 - "Comparative Analysis of Environmental Impacts Utilizing SimaPro and SiteWise – LCA of Four Remediation Scenarios" Alessandro Battaglia (ERM Italia), Giorgio Bianchi (Syndial), Fabio Iraldo (Università Bocconi), Carla Corlatti (ERM Italia)
4.00 pm	134 - "Sustainability Appraisal of Revegetation Options for Mine Remediation in Northern Canada" Elizaveta Petelina (Saskatchewan Research Council), David Sanscartier (Saskatchewan Research Council), Susan MacWilliam (Saskatchewan Research Council), Reanne Ridsdale (University of Saskatchewan)
4.20 pm	COFFEE BREAK AND POSTER SESSION (10')
4.30 pm	124 - "Development and Application of GSRx: a Green and Sustainable Remediation Best Management Practices Program and Tool" Amanda McNally (AECOM), Scott McDonough (AECOM), Dave Woodward (AECOM)
4.50 pm	113 - "Use of social and economic indicators for the selection of sustainable site remediation options" Valérie Cappuyus (KU Leuven Glenn), Van Passen (KU Leuven)
5.10 pm	168 - "Sustainability assessment between remediation alternatives of an industrial site" Giorgio Bianchi (Syndial SpA), Luciano Zaninetta (Syndial SpA)
5.30 pm	141 - "Comparison of Four Environmental Footprint Assessment Tools: Can You Have Confidence in the Results?" Paul Favara (CH2M HILL)
5.50 pm	145 - "The risks for workers during remediation as an element of sustainability" Elisabetta Bemporad (INAIL (Ricerca)), Simona Berardi (INAIL (Ricerca)), Emma Incocciati (INAIL (CONTARP))
6.10 pm	179 - "Use of SuRF-UK Indicators to Evaluate Remediation Alternatives for a Chlorinated Solvent Plume in Northern Ireland" Jim Day (CH2M HILL), Paul Favara (CH2M HILL)
6.30 - 6.50 pm	189 - "Geostatistical study supporting cost-effective remediation of a site with historical lead impact" Maarten Cuyper (Environmental Resources Management), Annelies Jacobs (Environmental Resources Management), Perrine Martin (Environmental Resources Management), Nicolas Jeannee (Geovariances)

Theme 2

TOOLS, METRICS AND INDICATORS

CHAIRPERSON:

Benoit Bourque, Golder Associated / SuRF Canada

19 September - Friday: Ferrara Fiere e Congressi

Via della Fiera, 11

W A T E R R O O M	<h2>Theme 4</h2> <p>CASE STUDIES</p> <p>CHAIRPERSONS: Gary Smith, SuRF ANZ / Geosyntec (Australia) Colin Chen, SuRF Taiwan (Taiwan)</p>	9.00 am	101 - "The Present State of Contaminated Sites in Taiwan and Their Potential Benefits of Redevelopment" Wan-Ying Tsai, Yu-Jen Chung, Ying-Shin Chen (Sinotech Engineering Consultants Inc.), Hung-Teh Tsai (Soil and Groundwater Pollution Remediation Fund Management Board, Environmental Protection Administration, R.O.C.)
		9.20 am	162 - "Remediating former chemical manufacturing sites" Louis Pang, Chris Taylor-King (Celtic Technologies Ltd), Peter Fitch (RAMBOLL)
		9.40 am	171 - "Quantification of the environmental footprint of two alternative approaches for the wastewater treatment by applying LCA: revamping of an existing plant and construction of a new plant" Erika Germiniani (AECOM Italy), Luca Zampori (Politecnico di Milano), Giovanni Dotelli (Politecnico di Milano), Giorgio Bianchi (Syndial)
		10.00 am	138 - "Embedding Sustainability at National Grid" Matthew Pearce (National Grid)
		10.40 am	130 - " Sustainable Gas Powered In-situ Thermal Desorption to Remediate PCBs in Low Permeability Soils at a facility in Spain" James Baldok (ERM), Maria Mantecon (ERM) Almodena Villanueva (ERM), Jay Dablow (ERM)
		11.00 am	COFFEE BREAK AND POSTER SESSION (20')
		11.20 am	125 - "Use of spent mushroom substrate (<i>Agaricus bisporus</i>) in bioremediation of historically contaminated soil: impact on microbial community and PAH removal" Carlos Garcia Delgado (Department of Agricultural Chemistry and Food Sciences, University Autónoma of Madrid), Alessandro D'Annibale (Department for Innovation in Biological, Agro-Food and Forest systems (DIBAF), University of Tuscia), Maurizio Petruccioli (Department for Innovation in Biological, Agro-Food and Forest systems (DIBAF), University of Tuscia, Viterbo), Enrique Eymar (Department of Agricultural Chemistry and Food Sciences, University Autónoma of Madrid)
		11.40 am	144 - "Full-scale Design and Implementation of the STAR Technology at a Coal Tar-Impacted Site." Gavin Grant (Savron), David Major (Savron), Grant Scholes (Savron), Len deVlaming (Geosyntec Consultants)
		12.00 am	158 - "Sustainable remediation assessment of boron impacted groundwater" Angela Giudice (Golder Associates S.r.l.), Anna De Fina (Golder Associates S.r.l.), Pierpaolo Curatolo (Golder Associates S.r.l.), Jean Pierre Davit (Golder Associates S.r.l.)
		12.20 am	181 - "Miscanthus giganteus: a promising perennial grass for a sustainable phytomanagement of contaminated sites in Northern France" Bertrand Pourrut (LGCgE - Groupe ISA - University of Lille), Florian Nsanganwimana (LGCgE - Groupe ISA - University of Lille), Christophe Waterlot (LGCgE - Groupe ISA - University of Lille), Francis Douay (LGCgE - Groupe ISA - University of Lille)
	Poster presentations	12.40 am	BEST POSTER PRESENTATION
	CHAIRPERSON: Renato Baciocchi, RECONnet / University of Rome Tor Vergata (Italy)		
PAV. 6		1.00 pm	LUNCH (40')
W A T E R R O O M	<h2>Theme 5</h2> <p>STAKEHOLDER INVOLVEMENT</p> <p>CHAIRPERSON: Paul Bardos, r3 environmental technology ltd / University of Brighton (UK)</p>	2.00 pm	131 - "Sustainable Coal Mine Reclamation Project, Vila Funil, Sideropolis, Santa Catarina State, Brazil" Olivier Maurer (CH2MHILL), Sander Eskes (Companhia Siderúrgica Nacional), James Polz (Companhia Siderúrgica Nacional), Robert Kleinmann (CH2MHILL)
		2.20 pm	172 - "Timbre Information System for Brownfield Regeneration: the result of a participative approach" Erika Rizzo (University Ca' Foscari Venice), Lisa Pizzol (University Ca' Foscari Venice), Elisa Giubilato (University Ca' Foscari Venice), Andrea Critto (University Ca' Foscari Venice), Antonio Marcomini (University Ca' Foscari Venice)
		2.40 pm	122 - "Lessons Learned in GSR Program Development" Amanda McNally (AECOM), Dave Woodward (AECOM)
		3.00 pm	160 - "Comparison and benchmarking of stakeholder engagement approaches: Environmental Site Impact Assessment (ESIA) vs Sustainable Remediation (SR) projects, from case studies" Alberto Sambartolomè (ERM Italia SpA), Andrea Iosia (ERM Italia SpA)
			Final round table and closing
	CHAIRPERSONS: Andrea Barbanti, Reconnet-SuRF Italy / InTeA, Italy Claudio Albano, Reconnet-SuRF Italy / CH2MHILL, Italy		

