Programme

Sediments on the move

10th International SedNet Conference Venue: Palazzo San Giorgio Via della Mercanzia 2 16124 Genoa, Italy

Co-organized by DISTAV - University of Genoa, Italy Hosted/sponsored by the Port Authority of Genoa



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14-17 June 2017

with pre-conference sessions on 13 June 2017

Tuesday 13 June 2017

14.30 - 17.30

Pre-conference sessions of Italian EU projects SEDITERRA and SE.D.RI.PORT

17.30 - 19.00 Icebreaker

Start registration SedNet conference

Wednesday 14 June 2017

08.30 - 09.00 Registration		
09.00 - 10.20 PLENARY OPENING SESSION Chairperson: Marc Eisma, chairman SedNet & Port of Rotterdam Authority, NL		
 09.00 - 09.20 Welcome by Marc Eisma, chairman SedNet & Port of Rotterdam Authority, NL by Marco Capello, University of Genoa, co-organizer SedNet conference 		
09.20 - 09.50 <u>Keynote presentation:</u> Relevance of sediment management in the context of river basin management planning <i>Raimund Mair, European Commission – DG Environment</i>		
09.50 - 10.20 <u>Keynote presentation:</u> Small particles, big issue - sediment matters <i>Peter Heininger, SedNet SG & Federal Institute of Hydrology, Germany</i>		
10.20 - 11.00 Coffee break		
11.00 - 12.50SESSION "SEDIMENTS MOVING TO LAND, AND SOIL MOVING TO WATER" Chairpersons: Susanne Heise, SedNet SG & HAW Germany, and Arjan Wijdeveld, Deltares, NL	SESSION "SEDIMENT QUALITY CRITERIA: DERIVATION, IMPLEMENTATION AND ENFORCEMENT" Chairperson: Carmen Casado, SedNet SG & EAWAG-EPFL, Switzerland	
11.00 - 11.30Keynote presentation: Soil-sediment transitions and the implications for the structure and function of restored wetlands Kate Spencer, Queen Mary University of London, UK	11.00 - 11.10 Introduction by chairperson	
	11.10 - 11.30 Using a pollution- sensitive biotic indicator to assess the predictive ability of Sediment Quality Guidelines (SQGs) for fine sediments Marvin Brinke, Federal Institute of Hydrology, Germany	

11.30 - 11.50	Between floodplain soil and river bed – linking results from innovative non- invasive PCDD/F mapping to particle bound mass flux data Patrick Jacobs, Tauw, Germany	Stepwise approach for the derivation of sediment quality criteria at different spatial scales: case study of mercury contamination in river basins from North Spain Leire Méndez Fernández, University of the Basque Country, Spain
11.50 - 12.10	A multi-criteria approach supporting the investigation of a floodplain potentially contaminated by pesticides <i>Luca Ziliani, Ramboll Environ, Italy</i>	Sediment quality classification based on Weight of Evidence approach in the recent Italian regulation <i>Cristian Mugnai, ISPRA, Italy</i>
12.10 - 12.30	The effect of organic matter on shrinkage and water retention behaviour of organic dredged sediments <i>Leon van Paassen, Arizona State University,</i> <i>USA</i>	Evolution of the monitoring network of seaports to a consideration of European priority substances <i>Julie Droit, Cerema, France</i>
12.30 - 12.50	Discussion	Discussion
12.50 - 14.20 Lu	inch	
CI &	SSION "EFFECTS OF REMEDIAL MEASURES" nairperson: Pieter de Boer, SedNet SG Ministry of Infrastructure and nvironment, NL	SESSION "DISPOSAL OF SEDIMENTS AT SEA" Chairperson: Edward Van Keer, SedNet SG & Flemish Government, Belgium
14.20 - 14.40	Long term effect of sediment remediation - mechanisms of failure and success based on case studies Arne Pettersen, Norwegian Geotechnical Institute, Norway	14.20 - 14.35 Alternatives to aquatic placement applying regional sediment manufacturing to innovative stabilization for brownfields beneficial use. Presentation of Pneumatic Flow Tube Mixing (PFTM). <i>Eric Stern, Tipping Point Resources Group, USA</i>
14.40 - 15.00	Remediation of urban waterways in Flanders – the Bluegreen Network and Eeklo example <i>Goedele Vanacker, OVAM, Belgium</i>	14.35 - 14.50 An evaluation of 15 years lowered disposal sites at sea and a perspective to the future <i>Marco Wensveen, Port of Rotterdam</i> <i>Authority, NL</i>
15.00 - 15.20	Design of a large-scale remediation approach of a heavy polluted river - a balance between remediation, ecological value and practical limits	14.50 - 15.05 Metal fluxes from a sea deposit site for mine tailings Morten Schaanning, NIVA - Norwegian Institute for Water Research, Norway
	Annemie Boden, Antea Group, Belgium	15.05 - 15.20 Effects of the disposal of dredged sediments on river bed volumes and morphological structures <i>Axel Winterscheid, Federal Institute of Hydrology, Germany</i>



15.20 - 16.00 Coffee	
16.00 - 16.20 Mass flux and forensic assessm using PAHs: informed remediat decision making at one of Cana contaminated sites <i>Tony Walker, Dalhousie Univers</i>	ion environment by long term use of a deposit ada's most site in the German Bight <i>Uwe Hentschke, Federal Institute of</i>
16.20 - 16.40 Is the conservative turbidity lime environment-friendly approach of the use of turbidity measure remediation projects Håkon Langberg, Norwegian Ge	n? A review dumping ments in Gert Van Hoey, Institute for Agricultural and Fisheries Science, Belgium eotechnical
Institute, Norway 16.40 - 17.00 Capping of contaminated seabe Norway – lessons learned Jens Laugesen, Det Norske Verit	the sustainable treatment of sediments in the area of the Interreg Project "Maritime" <i>Erwan Tessier, INSA - University of Lyon,</i>
	16.45 - 17.00 SE.D.RI.PORT: Sand accumulation and management of dredging activities in port areas. An integrated multidisciplinary approach to planning and monitoring <i>Rosa Maria Bertolotto, ARPAL -</i> <i>Environmental Protection Agency of</i> <i>Liguria, Italy</i>
17.00 - 17.20 Discussion	17.00 - 17.20 Discussion

17.30 - 19.30

Welcome reception and poster session

Thursday 15 June 2017

C	ESSION "SEDIMENT BALANCE" hairperson: Jos Brils, edNet SG & Deltares, NL	SESSION "SEDIMENT QUALITY" Chairpersons: Elena Romano, SedNet SG & ISPRA, Italy, and Benoit Ferrari, SedNet SG & EAWAG-EPFL, Switzerland
09.00 - 09.10	Welcome and introduction to the session by session chairman	09.00 - 09.20 Sediment management for a living river - the Lahn River case Alexandra Brinke, Federal Institute of Hydrology, Germany
09.10 - 09.40	<u>Keynote presentation:</u> Challenges, impacts, and management opportunities for sediment in large river basins Mathias Kondolf, University of California Berkeley, USA	09.20 - 09.40 Looking for an appropriate monitoring design for Water Framework Directive priority substances targeting biota <i>Marc Babut, Irstea, France</i>
09.40 - 10.00	Biotic impact of different sediment flushing practices in Italian alpine rivers <i>Daniele Demartini, Riverment, Italy</i>	Organic pollutants and functional properties of benthic microbial communities in coastal lagoons (River Po delta) <i>Annamaria Zoppini, IRSA-CNR, Italy</i>
10.00 - 10.20	Uncertainty assessment on erosion of cohesive sediment in the Upper Rhine: Implications for sediment management Thomas Hoffmann/Gudrun Hillebrand, Federal Institute of Hydrology, Germany	Development of a quality triad assessment method for brackish sediments in Flanders Kristine De Schamphelaere, University of Antwerp, Belgium
10.20 - 11.00 Coffe	ee	
11.00 - 11.20	Implications of spatial distribution of suspended sediment concentrations on reservoir management, case study Iffezheim Gudrun Hillebrand, Federal Institute of Hydrology, Germany	The use of meiofauna in freshwater sediment assessments: community responses to contamination Arne Hägerbäumer, University of Bielefeld, Germany
11.20 - 11.40	Regaining sediments: the Orba River lower reach bank erosions (NW Italy) Andrea Mandarino, University of Genova, Italy	Preliminary evaluation of metal contamination in benthic fishes of the Gulf of Tigullio (north-western Italy) Anna Reboa, University of Genoa, Italy
11.40 - 12.00	Assessment of Vistula delta cone development under sediment deficit conditions (Poland) Michal Habel, Kazimierz Wielki University, Poland	Microplastic characterisation in fluvial and marine sediments: the case of the Gulf of Tigullio (north-western Italy) <i>Sara Spadoni, University of Genoa, Italy</i>

12.00 - 12.20	Uncertainty in complex three-dimensional sediment transport models: implications for management <i>Katherine Cronin, Deltares, NL</i>	Impact of marine traffic and dredging activities on resuspension and release of contaminants from sediments in the Port of Antwerp Hanne Hetjens, University of Antwerp, Belgium
12.20 - 14.20 Lunc	h and poster session	
14.20 - 14.40	The imperative of sediment management concepts in River Basin Management Plans Stefan Vollmer/Axel Winterscheid, Federal Institute of Hydrology, Germany	Identification of the different sources of contaminants in the metal impacted Gromolo Torrent and related marine sediments <i>Sirio Consani, University of Genoa, Italy</i>
14.40 - 15.00	Sediment balance disturbed: so what and what next? Wrap-up and discussion <i>Jos Brils, Deltares, NL</i>	Silver (or lead) linings? Innovative technologies to beneficially re-use legacy contaminated marine sediments <i>Hazel Vandeleur, University College London,</i> <i>Australia</i>
15.00 - 15.20	Discussion	Discussion
15.20 - 16.00 Coffee		
SI Ri C	OMBINED SESSION "TRANSBOUNDARY EDIMENTS / INNOVATIVE MAINTENANCE OF IVER-DELTA-SEA SYSTEMS" hairperson: Henrich Röper, SedNet SG Hamburg Port Authority, Germany	SESSION "CLIMATE CHANGE; PIANC AND SEDNET THINK CLIMATE!" Chairperson: Jasmina Obhodas, SedNet SG & Ruder Boskovic Institute, Croatia
16.00 - 16.20	Recent incident putting an international river basin under pressure - Historically high PCB-concentrations on the move Ilka Carls, Ministry of Environment and Energy, Germany	16.00 - 16.30 <u>Duo-Keynote</u> <u>presentation:</u> A quantitative assessment of human interventions and climate change on the West African Sand River <i>Miguel Toquica, World Bank, and Alessio</i> <i>Giardino, Deltares, NL</i>
16.20 - 16.40	How much suspended particulate matter enters long-term in-channel storage? Stephan Dietrich/Axel Winterscheid, Federal Institute of Hydrology, Germany	16.30 - 17.00 Navigating a Changing Climate: the role of sediment management in climate change mitigation and adaptation Jan Brooke, Jan Brooke Environmental Consultant Ltd and Focal Point, PIANC-led
16.40 - 17.00	Relevance of moving recent and historic upstream contaminants for Hamburgs dredging strategy and the North Sea Henrich Röper, Hamburg Port Authority, Germany	Navigating a Changing Climate initiative; and Burton Suedel, U.S. Army Engineer Research and Development Center, USA



17.00 - 17.20	Confined Disposal Facility Slufter: a perfect solution for contaminated sediment in Northwest Europe <i>Ronald Rutgers, Port of Rotterdam</i> <i>Authority, NL</i>	Contamination of sediments in the Elbe estuary and its sensitivity to climate change <i>Carmen Kleisinger, Federal Institute of</i> <i>Hydrology, Germany</i>
17.20 - 17.40	The Living Lab for Mud: integrated sediment management based on Building with Nature concepts <i>Luca Sittoni, Ecoshape / Deltares, NL</i>	Long term hydrodynamics and sediment transport model under future climate change scenario <i>Sara Ceccon, Ramboll Environ, Italy</i>
17.40 - 18.00	Discussion	The Elbe gives, the Elbe takes Flood events probably relocated backwater sediments Susanne Heise, Hamburg University of Applied Sciences, Germany

20.00 - 22.30 Conference dinner in Palazzo Ducale, Piazza Giacomo Matteotti

Friday 16 June 2017

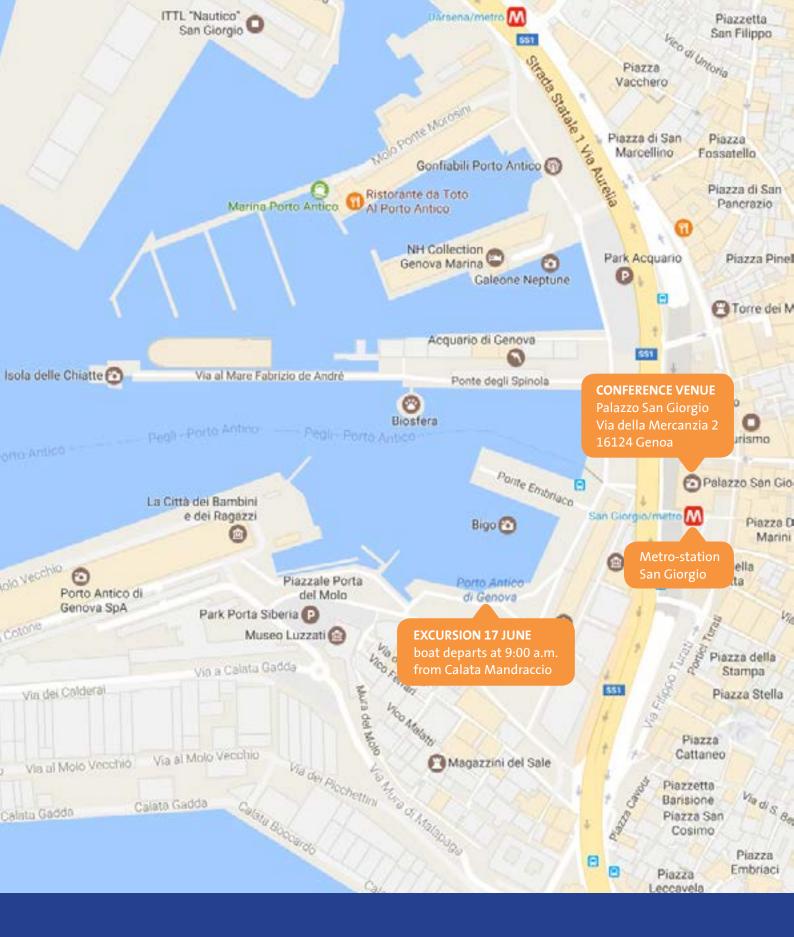
SE Cl	ESSION "USING SEDIMENTS AS A RESOURCE – EDIMENTS IN A CIRCULAR ECONOMY" hairperson: Bruno Lemière, SedNet SG BRGM, France	SESSION "POLICY FOR SEDIMENT MANAGEMENT" Chairperson: Goede Vanacker, SedNet SG & OVAM, Belgium
09.30 - 10.00	<u>Keynote presentation:</u> Strategies for reusing canal sediments in the Scottish Circular Economy <i>Richard Lord, University of Strathclyde, UK</i>	09.30 - 09.45 Sediment quality guidelines in Belgium: approach and implementation Johnny Teuchies, University of Antwerp, Belgium
		09.45 - 10.00 Who should pay for sediment cleanup? Philip Spadaro, TIG Environmental, USA
10.00 - 10.15	Remediated marine dredged sediments as growing media for agricultural activities: first results from the Hortised project (LIFE14 ENV/IT/000113) <i>Francesca Tozzi, University of Florence, Italy</i>	Stakeholder value-linked assessment of remedial options: Portland Harbor Superfund Site Sustainability Project (PHSP) Sabine Apitz, SEA Environmental Decisions Ltd., UK
10.15 - 10.30	Let's synergize and really start building with nature! Three examples of sediment reuse in The Netherlands <i>Chiel Lauwerijssen, Tauw Group, NL</i>	Fostering sediment issues into the policy agenda: who, how and when? <i>Mafalda Carapuço, IPMA - Portuguese</i> <i>Institute for the Ocean and Atmosphere,</i> <i>Portugal</i>
10.30 - 10.45	Water Authority Schieland and the Krimpenerwaard, NL, Preventing land subsidence: Using Sediment As a Resource (USAR) Guido Verweij, HHSK - Water Authority Schieland and the Krimpenerwaard, NL	A risk assessment evaluation to prioritize contaminated sediment sites Licia Guzzella, CNR IRSA, Water Research Institute, Italy
10.45 - 11.15 Coffe	ee	
11.15 - 11.30	Leaching environmental assessment framework for the potential reuse of dredged sediments in concrete <i>Tristan Lecomte, IMT Lille Douai / University</i> of Lille, France	A protocol for assessing sediment toxicity in reservoirs before flushing <i>Laura Marziali,</i> CNR IRSA, Water Research Institute, Italy
11.30 - 11.45	BIND-AMOR: flash-calcined dredging sediments of the AMORAS mechanical dewatering plant as cement substitute <i>Jonas Marlein, Flemish Government,</i> <i>Belgium</i>	The Rhone Sediment Observatory: a multi- partner platform for basic and applied research on the Rhone river valley (France) <i>Olivier Radakovitch, Aix-Marseille</i> <i>University, France</i>

11.45 - 12.00	Building of a subgrade road layer based on marine sediment with experimental monitoring <i>Malo Le Guern, ESITC Caen, France</i>	Developing an evidence base for in situ contaminated sediment hazards in England Ian Dennis, Royal HaskoningDHV, UK
12.00 - 12.15	GeDSeT, understanding sediment contamination and behaviour to facilitate its reuse and contribution to the circular economy of minerals <i>Bruno Lemière, BRGM, France</i>	The development of a remediation action plan for a contaminated fjord in Norway, hosting a biological important submerged macrophyte meadow <i>Marianne Olsen, Norwegian Institute for</i> <i>Water Research, Norway</i>
12.15 - 12.30	Circular economy applications of dredged sediments: from pilot experiments towards fulfilling the needs of the economy and the society <i>Arjan Wijdeveld, Deltares, NL</i>	12.15 - 13.00 Discussion
12.30 - 13.00	Discussion	
13.00 - 14.00 Lunch		
14.00 - 15.00 PLENARY CLOSING SESSION Chairperson: Marc Eisma, chairman SedNet & Port of Rotterdam Authority, NL		
14.00 - 14.45Reporting back on conference sessions by session chairpersons		
14.45 - 15.00 Policy brief / SedNet Round Table Discussion Henrich Röper, SedNet SG & Hamburg Port Authority, Germany		
15.00 - 17.30 PARALLEL WORKSHOPS		
15.00 - 17.30	 Parallel workshops (to be confirmed during the Sediment quality standards Sediment balance Communication on science Possibly more 	ne conference):

Saturday 17 June 2017

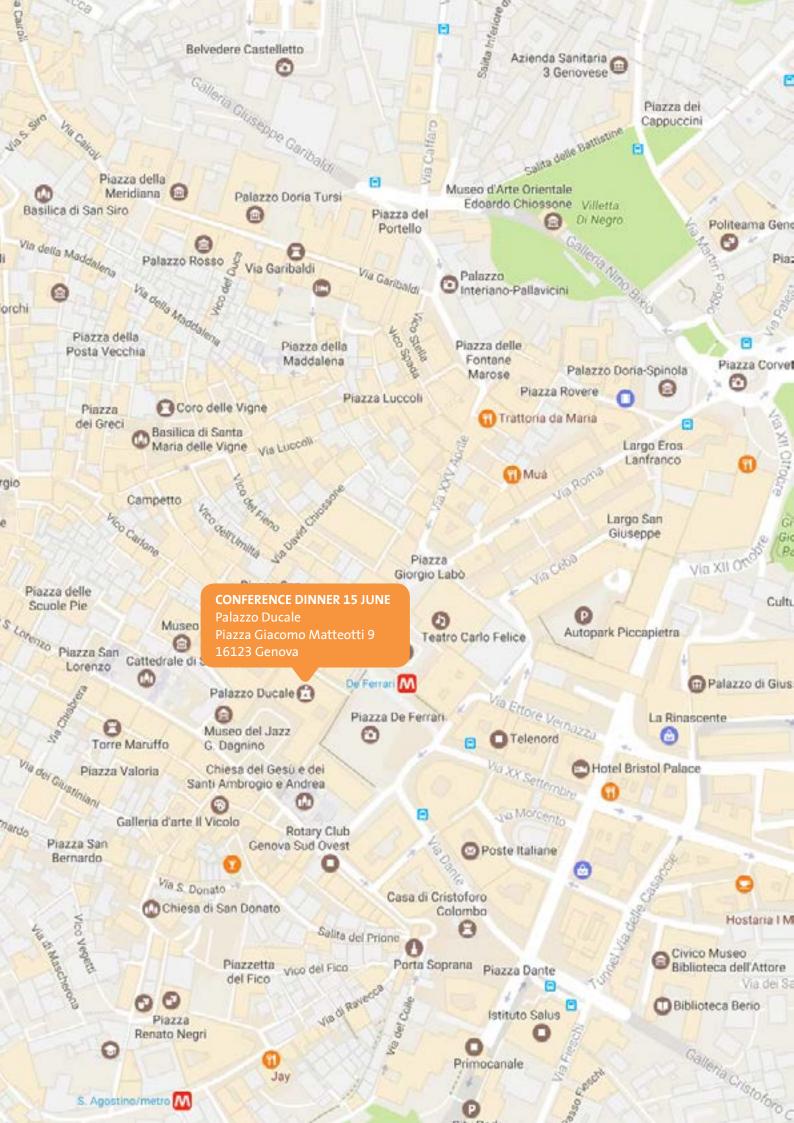


Excursion by boat to the Protected Marine Area of Portofino, including visit to the Old Monastery / San Fruttuoso. Departure at 09.00 a.m. from Calata Mandraccio (in front of Palazzo San Giorgio)



Further information: You will find background information on the conference themes on: http://sednet.org/wp-content/uploads/2016/10/Call-for-abstracts-SedNet-Genoa.pdf

Practical information such as hotel accommodation, a small map of Genoa, travel to Genoa, and how to register to the conference on : http://sednet.org/events/sednet-conference-2017



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SedNet is the European network which aims to incorporate sediment issues and knowledge into European strategies to support the achievement of good environmental status and to develop new tools for sediment management. Its focus is on all sediment quality and quantity issues at the river basin scale, ranging from freshwater to estuarine and marine sediments. SedNet brings together experts from science, administration, industry and consultants. It interacts with the various networks in Europe that operate at national or international level or that focus on specific fields (such as science, policy making, sediment management, industry, education). Special attention was devoted in recent years to the integration of sediment management in the WFD implementation process, and particularly in the River Basin Management Plans.

For further information about SedNet see www.sednet.org

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