

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





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 Keynote presentation:

Relevance of sediment management in the context of river basin management planning Raimund Mair, European Commission – DG Environment

09.50 - 10.20 Keynote presentation:

Small particles, big issue - sediment matters
Peter Heininger, SedNet SG & Federal Institute of Hydrology, Germany

10.20 - 11.00 Coffee break

11.00 - 12.50 SESSION "SEDIMENTS MOVING TO LAND,
AND SOIL MOVING TO WATER"

Chairpersons: Susanne Heise, SedNet SG & HAW Germany, and Arjan Wijdeveld,

11.00 - 11.30 Keynote presentation:

Soil-sediment transitions and the implications for the structure and function of restored wetlands

Kate Spencer, Queen Mary University of London, UK

SESSION "SEDIMENT QUALITY CRITERIA: DERIVATION, IMPLEMENTATION AND ENFORCEMENT"

Chairperson: Carmen Casado, SedNet SG & EAWAG-EPFL, Switzerland

11.00 - 11.10 Introduction by chairperson

11.10 - 11.30 Using a pollutionsensitive 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	Stepwise approach for the derivation of
	 linking results from innovative non- invasive PCDD/F mapping to particle bound mass flux data Patrick Jacobs, Tauw, Germany 	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 Luca Ziliani, Ramboll Environ, Italy	Sediment quality classification based on Weight of Evidence approach in the recent Italian regulation Cristian Mugnai, ISPRA, Italy
12.10 - 12.30	The effect of organic matter on shrinkage and water retention behaviour of organic dredged sediments Leon van Paassen, Arizona State University, USA	Evolution of the monitoring network of seaports to a consideration of European priority substances Julie Droit, Cerema, France
12.30 - 12.50	Discussion	Discussion
12.50 - 14.20 Lu	ınch	
CI &	ession "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).
		Eric Stern, Tipping Point Resources Group, USA
14.40 - 15.00	Remediation of urban waterways in Flanders – the Bluegreen Network and Eeklo example Goedele Vanacker, OVAM, Belgium	14.35 - 14.50 An evaluation of 15 years lowered disposal sites at sea and a perspective to the future Marco Wensveen, Port of Rotterdam Authority, NL
14.40 - 15.00 15.00 - 15.20	Flanders – the Bluegreen Network and Eeklo example	14.35 - 14.50 An evaluation of 15 years lowered disposal sites at sea and a perspective to the future Marco Wensveen, Port of Rotterdam



15.20 - 16.00 Coffee

16.00 - 16.20

Mass flux and forensic assessment using PAHs: informed remediation decision making at one of Canada's most contaminated sites

Tony Walker, Dalhousie University, Canada

16.20 - 16.40

Is the conservative turbidity limit the most environment-friendly approach? A review of the use of turbidity measurements in remediation projects

Håkon Langberg, Norwegian Geotechnical Institute, Norway

16.40 - 17.00

Capping of contaminated seabed in Norway – lessons learned Jens Laugesen, Det Norske Veritas, Norway 16.00 - 16.15 Impacts on the marine environment by long term use of a deposit site in the German Bight

Uwe Hentschke, Federal Institute of Hydrology, Germany

16.15 - 16.30 The sensitivity of softsediment habitats to dredged material dumping

Gert Van Hoey, Institute for Agricultural and Fisheries Science, Belgium

16.30 - 16.45 SEDITERRA: Guidelines for the sustainable treatment of sediments in the area of the Interreg Project "Maritime" Erwan Tessier, INSA - University of Lyon, France

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 Rosa Maria Bertolotto, ARPAL - Environmental Protection Agency of Liguria, Italy

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	Keynote presentation: 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 Marc Babut, Irstea, France
09.40 - 10.00	Biotic impact of different sediment flushing practices in Italian alpine rivers Daniele Demartini, Riverment, Italy	Organic pollutants and functional properties of benthic microbial communities in coastal lagoons (River Po delta) Annamaria Zoppini, IRSA-CNR, Italy
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) Sara Spadoni, University of Genoa, Italy

12.00 - 12.20

Uncertainty in complex three-dimensional sediment transport models: implications for management Katherine Cronin, Deltares, NL 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,

12.20 - 14.20

Lunch 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

Sirio Consani, University of Genoa, Italy

14.40 - 15.00

Sediment balance disturbed: so what and what next?
Wrap-up and discussion
Jos Brils, Deltares, NL

Silver (or lead) linings? Innovative technologies to beneficially re-use legacy contaminated marine sediments Hazel Vandeleur, University College London, Australia

15.00 - 15.20

Discussion

Discussion

Belgium

15.20 - 16.00

Coffee

16.00 - 18.00

COMBINED SESSION "TRANSBOUNDARY SEDIMENTS / INNOVATIVE MAINTENANCE OF RIVER-DELTA-SEA SYSTEMS"

Chairperson: 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> presentation:

A quantitative assessment of human interventions and climate change on the West African Sand River
Miguel Toquica, World Bank, and Alessio Giardino, Deltares, NL

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 Navigating a Changing Climate initiative; and Burton Suedel, U.S. Army Engineer Research and Development Center, USA

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



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

SI C	ESSION "USING SEDIMENTS AS A RESOURCE – EDIMENTS IN A CIRCULAR ECONOMY" hairperson: Bruno Lemière, SedNet SG BRGM, France	SESSION "POLICY FOR SEDIMENT MANAGEMENT" Chairperson: Goedele Vanacker, SedNet SG & OVAM, Belgium
09.30 - 10.00	Keynote presentation: Strategies for reusing canal sediments in the Scottish Circular Economy Richard Lord, University of Strathclyde, UK	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) Francesca Tozzi, University of Florence, Italy	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 Chiel Lauwerijssen, Tauw Group, NL	Fostering sediment issues into the policy agenda: who, how and when? Mafalda Carapuço, IPMA - Portuguese Institute for the Ocean and Atmosphere, Portugal
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 Coffee		
11.15 - 11.30	Leaching environmental assessment framework for the potential reuse of dredged sediments in concrete Tristan Lecomte, IMT Lille Douai / University of Lille, France	A protocol for assessing sediment toxicity in reservoirs before flushing Laura Marziali, 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 Jonas Marlein, Flemish Government, Belgium	The Rhone Sediment Observatory: a multi- partner platform for basic and applied research on the Rhone river valley (France) Olivier Radakovitch, Aix-Marseille University, France

11.45 - 12.00	Building of a subgrade road layer based on marine sediment with experimental monitoring Malo Le Guern, ESITC Caen, France	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 Bruno Lemière, BRGM, France	The development of a remediation action plan for a contaminated fjord in Norway, hosting a biological important submerged macrophyte meadow Marianne Olsen, Norwegian Institute for Water Research, Norway
12.15 - 12.30	Circular economy applications of dredged sediments: from pilot experiments towards fulfilling the needs of the economy and the society Arjan Wijdeveld, Deltares, NL	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 - 14.45 Reporting 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

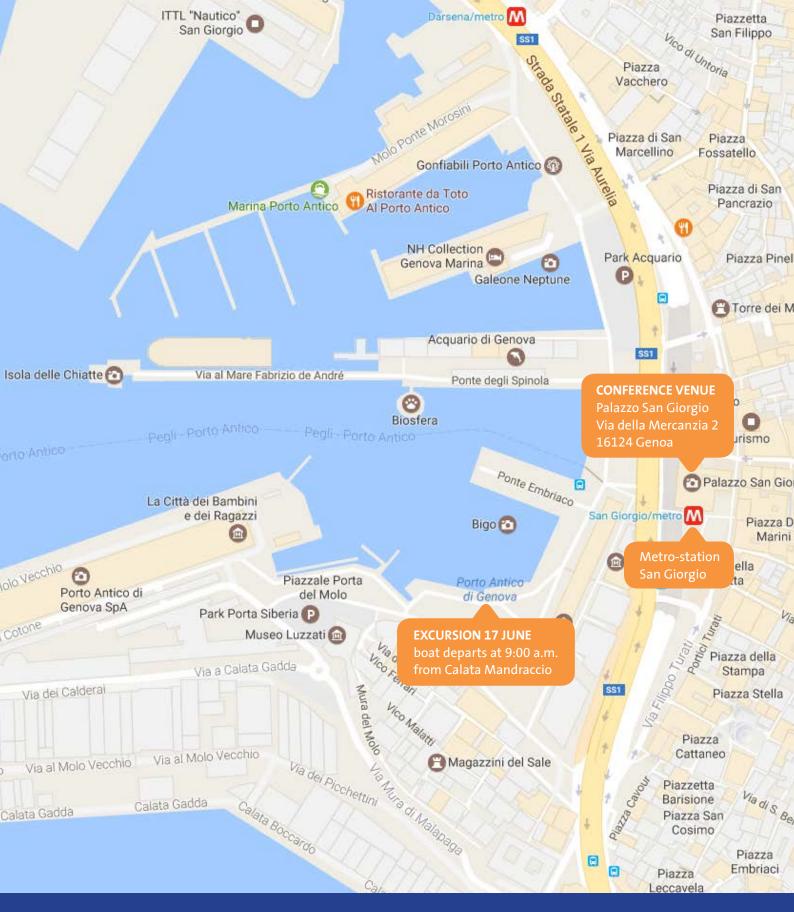
15.00 - 17.30 Parallel workshops (to be confirmed during the conference):

- Sediment quality standards
- Sediment balance
- Communication on science
- Possibly more...

Saturday 17 June 2017

08.45 - 14.00 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)



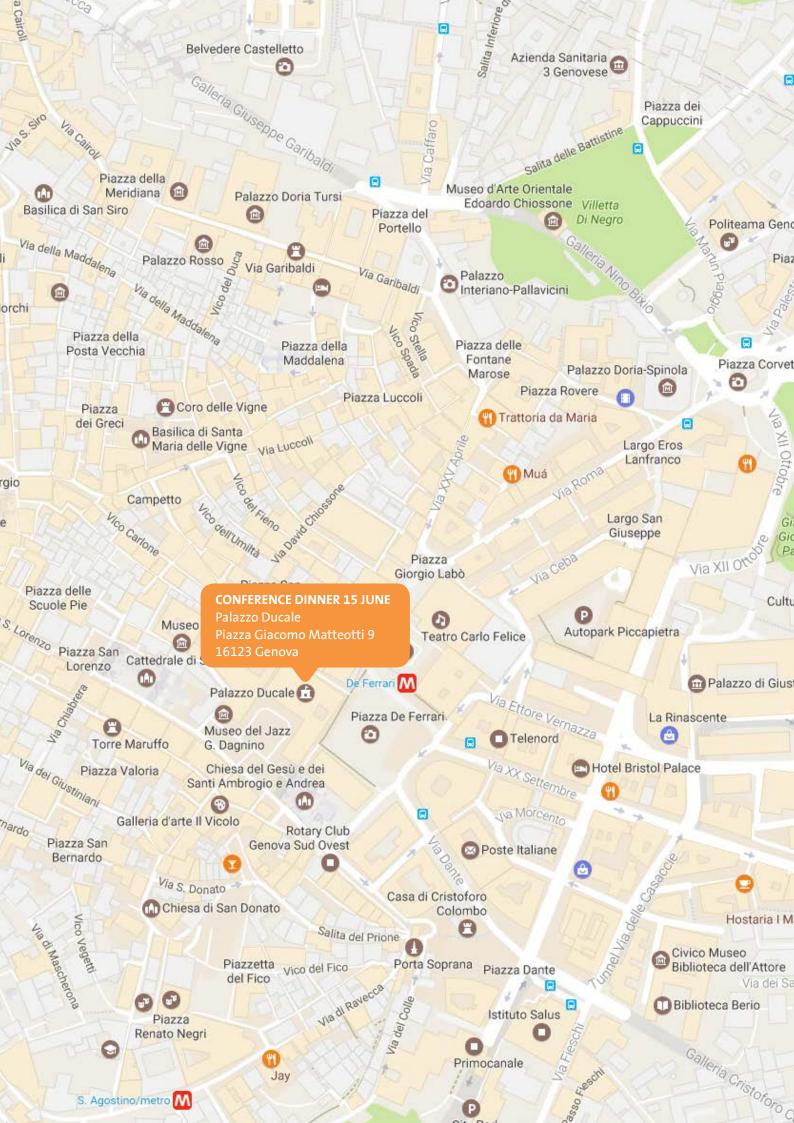
Further information:

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.

Internet: www.sednet.org