



Sed Net



Sediment continuum: applying an integrated management approach

Preliminary conference program

13th International SedNet Conference
Faculty of Sciences of the University of Lisbon, Lisbon, Portugal

Co-organised by Faculty of Sciences of the University of Lisbon and
Instituto Dom Luiz

6 - 8 September 2023



**Ciências
ULisboa**



**INSTITUTO
DOM LUIZ**

SedNet.org
Secretariat@SedNet.org

Background

Sediments are ubiquitously found in different settings, from upland streams, industrialised waterways, floodplains, estuaries, coastal zones to offshore waters. Sediments present different characteristics, some inherited from their origin and other acquired along the transport and deposition. These characteristics are naturally interlinked as sediment travels from the catchment to the open sea. The natural flow of sediments from mountainous regions to the ocean is strongly impacted by anthropogenic activities along its journey, both in terms of the quantity that is transported and the quality of transporting waters. Sediment distribution and quality is not only impacted by direct human influence but also indirectly by changes in weather features and climate patterns. Changes in the natural sediment dynamics can lead to issues, such as sediment starvation or excessive accumulation, and is often the concern of river basin and coastal managers. Historical or emerging contaminants may also hinder management of these areas, and there's a growing need for integrated approaches and tailored solutions.

At the 2023 SedNet conference “Sediment continuum: applying an integrated management approach”, we invite abstracts for a series of sessions aiming to explore different challenges and proposed solutions related to this theme. Among other topics, we explicitly welcome case studies from practice that preferably engaged stakeholders and that included how policies and plans were developed for the range of interlinked issues experienced along the continuous journey of sediment from upland to the depositions sites. This includes how to quantify and manage sediment movement, how to assess sediment quality, sediment health and ecosystem service provision, how excess sediment can be re-used, etc. Special attention will also be given to challenges posed by anthropogenic influences, resource exploitation and climate change, and how we can truly apply an integrated management approach that enables the sediment continuum.

We have 5 thematic sessions:

1. Sediment quality guidance and sediment quality assessment.

This session also includes the topics 'Sediment health: what is it and how to achieve it?' and 'Zero pollution in the soil-sediment-water nexus'.

2. Circular economy - sediment as a resource.

3. Sediment in coastal and marine management.

4. Climate change and sediments: direct and indirect consequences and opportunities.

5. Sediment management concepts and sediment policy.

This session also includes the topic of 'Sediment literacy'.

To start your registration, please follow the link below:

<https://express.converia.de/frontend/index.php?sub=1146>

E-mail: secretariat@sednet.org

Website: www.sednet.org



TUESDAY, 5 SEPTEMBER 2023

Pre-conference program

t.b.c	SedNet Working Group meetings
t.b.c	Workshop 'Measurements and good practice on sediment management: challenges and opportunities for Portugal'
20:00 – 22:00	Ice breaker & registration

WEDNESDAY, 6 SEPTEMBER 2023

Conference day 1

8:30 – 9:00	Registration	
09:00 – 10:30	Plenary opening session: <ul style="list-style-type: none"> • Opening by chairman • Key note presentation about Sediment Management in Portugal (t.b.c.) • Key note presentation on the WFD CIS sediment guidance document (t.b.c.) ↗ 	
	Room 1	Room 2
10:30 – 12:00	SESSION 'SEDIMENT QUALITY GUIDANCE AND SEDIMENT QUALITY ASSESSMENT'	SESSION 'CIRCULAR ECONOMY - SEDIMENT AS A RESOURCE'
12:00 – 14:00	Lunch	
14:00 – 17:30	SESSION 'SEDIMENT QUALITY GUIDANCE AND SEDIMENT QUALITY ASSESSMENT' <i>continued</i>	SESSION 'CIRCULAR ECONOMY - SEDIMENT AS A RESOURCE' <i>continued</i>
17:30 – 20:00	Reception & poster presentations Meet the poster presenters at their poster	

THURSDAY, 7 SEPTEMBER 2023

Conference day 2

	Room 1	Room 2
09:00 – 12:00	SESSION 'SEDIMENT QUALITY GUIDANCE AND SEDIMENT QUALITY ASSESSMENT' <i>continued</i>	SESSION 'CIRCULAR ECONOMY - SEDIMENT AS A RESOURCE' <i>continued</i>
12:00 – 14:00	Lunch	
14:00 – 17:00	SESSION 'SEDIMENT MANAGEMENT CONCEPTS AND SEDIMENT POLICY'	SESSION 'SEDIMENT IN COASTAL AND MARINE MANAGEMENT'
17:00 – 18:00	Poster presentations Meet the presenters at their poster	
20:00 – 23:00	Conference Dinner	

FRIDAY, 8 SEPTEMBER 2023

Conference day 3

Room 1		Room 2
09:00 – 12:00	SESSION 'SEDIMENT MANAGEMENT CONCEPTS AND SEDIMENT POLICY' <i>continued</i>	SESSION 'CLIMATE CHANGE AND SEDIMENTS: DIRECT AND INDIRECT CONSEQUENCES AND OPPORTUNITIES'
12:00 – 14:00	Lunch	
14:00 – 15:00	SESSION 'SEDIMENT MANAGEMENT CONCEPTS AND SEDIMENT POLICY' <i>continued</i>	SESSION 'CLIMATE CHANGE AND SEDIMENTS: DIRECT AND INDIRECT CONSEQUENCES AND OPPORTUNITIES' <i>continued</i>
15:00 – 16:00	Plenary Closing Session	
16:00 – 17:00	Goodbye drink	

SATURDAY, 9 SEPTEMBER 2023

Excursion

Program t.b.c.
Departure from Lisbon centre
1st stop - Port of Lisbon
2nd stop - Crismina Dune Field
3rd stop - Lunch at Cascais city center
4th stop - Cascais beaches
Arrive at Lisbon centre



Conference Organisation

The conference is organised by SedNet, the Instituto Dom Luiz and the Faculty of Sciences of the University of Lisbon.

Instituto Dom Luiz (IDL) is an Associated Laboratory that focuses on the use of quantitative science to unravel Earth dynamics and to respond to major societal challenges posed by Climate Change, sustainable use of Earth and Energy Resources, and exposure to Natural Hazards. As a fully-integrated Earth System Science Institute – with over 100 integrated members – IDL produces internationally-relevant science that directly contributes to a vast range of public policies and initiatives, or that is upstream to numerous applications at national and European level. IDL manages state-of-the-art laboratories and research in Geophysics, Geochemistry, Geology, Renewable Energy, High Performance Computing facilities and hosts doctoral programs in Earth System Science and Sustainable Energy. IDL research lines combines analytical studies, data analysis, observational activities, and modelling.

Faculty of Sciences of the University of Lisbon (FCUL) was created in 1911, rooted in the Polytechnic School (1837-1911), and is an integral unit of the University of Lisbon, the largest and most prestigious university in Portugal. As an institution of creation, transmission, and diffusion of scientific and technological knowledge, FCUL promotes a culture of permanent learning, valuing critical thinking and intellectual autonomy. Its mission is research and teaching, and the transfer of knowledge and innovation in the areas of exact-, natural sciences and techno-sciences, as well as the dissemination and sharing of cultures, stimulating a permanent opening to the civil society

The local organization committee consists of: Cristina Ponte Lira (Coordinator), Maria da Conceição Freitas, Rui Taborda, Célia Lee, Ana Nobre Silva, Fátima Valverde, Ana Bastos and Daniel Pais..

Conference Venue

This conference will only be a physical event. The conference is organised at the campus of the Faculty of Sciences of the University of Lisbon, located in Campo Grande, Lisbon. Lisbon is the capital and the largest city of Portugal, and the second-oldest European capital city. Lisbon has a rich historic past, from Roman occupation, to Moors and the city was established as Portuguese in 1147. Bathed by the river Tagus and very close to the Atlantic Ocean, Lisbon has a long history with the sea. The Mediterranean climate makes it an ideal place to visit all year round, allowing to fully enjoy the contrasting history, culture, and food.



Hotel recommendations (1/2)

5-9 September 2023

SANA Metropolitan Hotel ****

This hotel provides a special rates for attendees of the conference.*

Please follow the booking process as indicated below:

- Contact the reservation center via email: reservas@sanahotels.com
- Indicate the special code "SedNet" or "Conference at University of Lisbon"
- Dates: 5-8 September 2023
- Room rates:
 - Standard room single occupancy: 150,00€
 - Standard room double occupancy: 170,00€
- City tax: 2,00€ per person per night
- The rates above include 6% VAT, buffet breakfast at the hotel's restaurant, internet wi-fi and access to the Gym (24h)
- The reservation center is aware of the conditions and agreement and confirms subject to availability



Address

R. Soeiro Pereira Gomes 2, 1600-198 Lisboa, Portugal

Location

1,8 kilometers walk from the university (23 minutes)
7 kilometers from the airport.



Address

Avenida 5 de Outubro 197, 1050-054 Lisboa, Portugal

Location

1,9 kilometers walk from the university (24 minutes)
6,2 kilometers from the airport.

VIP Grand Lisboa Hotel & Spa *****

This hotel provides a special rates for attendees of the conference.*

Please follow the booking process as indicated below:

- Please make your reservation through the hotel's website: www.viphotels.com
- Code: SEDNET
- Dates: 4-10 September 2023
- Room rates:
 - 148,00 / 160,00 €
- City tax: 2,00€ per person per night
- The rates above include 6% VAT and buffet breakfast
- Deadline for reservation 04th August 2023
- The reservation center is aware of the conditions and agreement and confirms subject to availability

Hotel recommendations (2/2)

5-9 September 2023

Radisson Blu Hotel, Lisbon ****

Address

Av Marechal Craveiro Lopes 390, Lisbon, 1749-009, Portugal

Location

600-meter walk from the University (8 minutes)
3 kilometers from Humberto Delgado Airport (LIS).



Hotel NH Lisboa Campo Grande ****

Address

Campo Grande 7, 1700-087 Lisboa, Portugal

Location

1,1 km walk from the university (13 minutes)
5 kilometers from the airport.



VIP Executive Entrecampos Hotel & Conference ****

Address

Avenida 5 de Outubro, 295, 1600-035 Lisboa, Portugal

Location

1,3 kilometers walk from the university (17 minutes)
5,5 kilometers from the airport.





Q.TA DO
LAMBERT

Radisson Blu Hotel,
Lisbon

Campo Grande M

Faculty of Sciences of the
University of Lisbon
Campo Grande 016, 1749-
016 Lisboa, Portugal

SÃO JOÃO
DE BRITO

ALVALADE

Alvalade M

Hotel NH Lisboa
Campo Grande

SANA Metropolitan
Hotel

VIP Executive
Entrecampos
Hotel & Conference

BAIRRO
DO REGO

CAMPO
PEQUENO

Campo Pequeno M

VIP Grand Lisboa
Hotel & Spa

Praça de Espanha M

Av. Calouste Gulbenkian

AZUL

Av. João Crisóstomo

Saldanha M

São Sebastião M

8

Language

The conference language will be English. No translation facilities will be provided.

Conference fee

Regular fee: 500 euro, excl. VAT

Students: 200 euro, excl. VAT

If a student has submitted an abstract that has been selected for oral presentation, then his/her fee is waived.

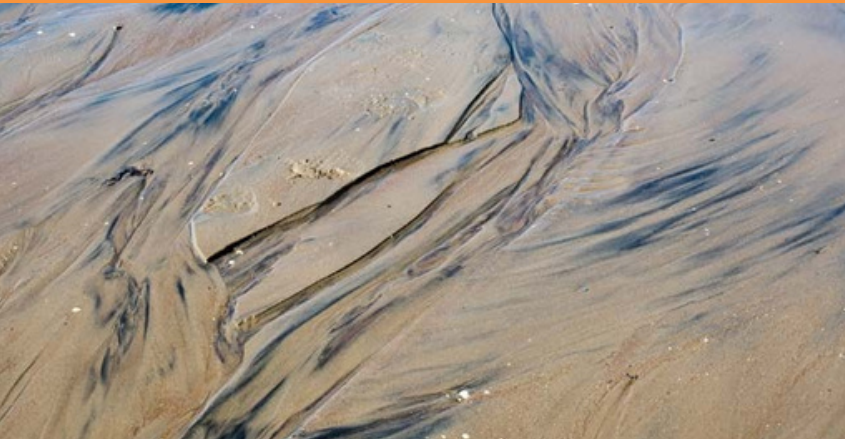
The fee includes admission to the 3-day conference program, social events, conference dinner on the 7th of September and an excursion on the 9th of September.

Registration

The registrations will open on 19 May 2023.

Registration and payment is organized via the platform of Converia. To start your registration, please follow the link below:

<https://express.converia.de/frontend/index.php?sub=1146>



Further Information

SedNet Secretariat, Chayenne van Dijk

E-mail: secretariat@sednet.org

Website: www.sednet.org

Sed Net



SedNet is the European network which aims to incorporate sediment issues and knowledge into European strategies to support the achievement of good environmental status or potential and to develop new tools for sediment management. Its focus is on all sediment quality and quantity issues at the river-sea system scale, ranging from freshwater to estuarine and marine sediments. SedNet brings together sediment professionals from science, administration, industry and consultancy. 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 Water Framework Directive implementation process, and particularly in the River Basin Management Plans.

For more information about SedNet visit the website: www.sednet.org

Appendix

List of presentations per session *(the titles are not in order)*

Session 'Sediment quality guidance and sediment quality assessment' - Presentations

Title	Presenter
Revising sediment quality guidelines to reflect current scientific understanding of chemical interactions in sediment with ecosystems	Richard J Wenning, Montrose Environmental Solutions
Spatial variability of organic matter quality and metal reactivity in the port of Rotterdam sediments	Guangnan Wu, Royal Netherlands Institute for Sea Research
The importance of reviewing the Portuguese legislation for the assessment and management of dredged materials: The case of butyltin compounds	Mário Mil-Homens, IPMA
REE Contaminated Sediment Causes Avoidance Behaviour of <i>D. magna</i> and <i>C. elegans</i>	Chantal K. E. van Drimmelen, Hamburg University of Applied Science
Sediment quality assessment at small streams affected by different types of anthropogenic pressures	M. Carmen Casado-Martinez, Swiss Centre for Applied Ecotoxicology
Assessing sediment toxicity in reservoirs before flushing: developing a protocol for freshwater in Italy	Laura Marziali, Water Research Institute (CNR-IRSA) (Italy)
Improving risk assessment of dredging activities by passive sampling	Sabine Schäfer, German Federal Institute of Hydrology
Fingerprinting and environmental assessment on river-reservoir sediments of the Conca Basin based on geochemical data	Simone Toller, University of Bologna
Applying environmental geochemical monitoring of fluvial sediments using unique automated and passive sampling in the Danube Basin	Zsófia Kovács, University of Pannoni
Monitoring of microplastics in port sediments. Evaluation of different analytical methods.	Droit Julie, CEREMA eau
A conceptual model for enabling sustainable management of soil-sediment-water ecosystems in support of European policy	Jos Brils, Deltares
Targeting mercury bioremediation of marine sediments by using omics and culture-driven approaches	L. Alonso-Sáez, BRTA (Spain)
Soil erosion and associated pollution and siltation compromise the food, water energy and security nexus. A river basin study case in central Chile.	Claudio Bravo-Linares, Universidad Austral de Chile
Long-term fate and remediation of microplastics in subarctic lake sediments in the experimental lakes area (ELA), Canada	Hannah Vonberg, Dalhousie University

Session 'Sediment quality guidance and sediment quality assessment' - Flash presentations

Title abstract	Presenter
Impact of Rare Earth Elements on the growth and photosynthetic efficiency in <i>Myriophyllum aquaticum</i>	Isidora Gjata, Dipartimento di Bioscienz
Geochronology and historical records of heavy metals in the marine sediments from western part of Black Sea Coastal Area, Varna/Bulgaria	Günseli Yaprak, Ege University
Nuclear and related analytical techniques in sedimentology	Marina Frontasyeva, Joint Institute for Nuclear Research
Multiple lines of evidence approach to assess the quality of sediments in canals of the Rhône valley in Switzerland (Poster)	Rébecca Beauvais, Swiss Centre for Applied Ecotoxicology
Comparative assessment of the ¹³⁷ Cs distribution in Bulgarian Black Sea coastal and shelf sediments	Tzvetana Nonova, Institute for Nuclear Research and Nuclear Energy, Bulgaria
Spatial distribution of ⁴⁰ K, ¹³⁷ Cs, ²²⁶ Ra and ²³⁸ U in the coastal and shelf sediments of the western Black Sea	Krasimira Slavova, Institute of Oceanology, Bulgaria
Different rivers, common problems – Linking chemical and ecological status in polluted sediments of three different European river basins	Sebastian Höss, Ecossa
Sediment Status in Europe: Frameworks, Standards and Approaches, Synthesis of Expanded Review	Sabine E Apitz, SEA Environmental Decisions Ltd.
Assessing Microbial Quality of Polluted Marine and Soil Sediments with Advanced in Situ Monitoring Tools	Heinrich Eisenmann, Isodetect GmbH
Environmental characterization addressed to port sediment management: two case studies in the central Tyrrhenian sea (Italy)	Cristian Mugnai, ISPRA
Overview of sediment quality and quantity over two decades - Case study of the Great Bačka Canal (Republic of Serbia)	Dragana Tomašević Pilipović, University of Novi Sad
Bioactive contaminants in coastal sediments of Italy: two case studies	Jasmin Rauseo, Institute of Polar Sciences
French and Norwegian sediment quality guidelines comparison - case study in the NE Adriatic Sea, Croatia	Jadranka Pelikan, University of Zagreb
Historical contribution of sediments to a hydropower reservoir: a case study in central Chile	William H. Blake, University of Plymouth
Nuclear and related analytical techniques in sedimentology	Marina Frontasyeva, Joint Institute for Nuclear Research

Session 'Sediment quality guidance and sediment quality assessment' - Posters

Title abstract	Presenter
Valorization of chestnut shell for the removal of heavy metals under real conditions	Mirza Nuhanović, University of Sarajevo
Variability of Fallout Radionuclides in River Channels: Implications for Sediment Residence Time Estimations	Enrique Munoz-Arcos, University of Plymouth
Comparing sediment heavy metal concentrations in Italian harbors with the Environmental Quality Standards	Elena Romano, Italian Institute for Environmental Protection and Research
Contamination and Risk Assessment of Heavy Metals in surface sediments of the Montenegrin coast	To be confirmed

Session 'Circular economy – sediment as a resource' - Presentations

Title abstract	Presenter
Sediment management in a circular economy	Pieter de Boer, Rijkswaterstaat
Social, Economic and Environmental Analyses for Sediment Reuse Applications	Joe Harrington, Munster Technological University
Beneficial use of sediments for our future: compared pathways for taking profit of them as resources for new challenges	Bruno Lemière, BRGM
A PFAS mass balance– impact on the sediment (re)use policy	Arjan Wijdeveld, Deltares
Reuse of Metal Impacted River Sediments	Philip Studds, Ramboll UK
Landfilling and soil conditioning of dredged sediments: evaluation throughout a life cycle assessment	Laura Ferrans, Linnaeus University
Bankbusters: A Nature-based Solution engineered tidal marsh river banks, beneficially re-using soft dredged sediments	Sterckx Tomas, DEME-group
Converting fiber sediment to hydrochar - new technology to eliminate landfilling and extract energy when remediating fiberbanks	Anna-Karin Dahlberg, Swedish University of Agricultural Sciences
Lessons from pilot-scale sediment reuse projects on the Scottish canal network.	Keith Torrance, University of Strathclyde
Exploring unconventional approaches to sediments decontamination	Roman Nevshupa, Eduardo Torroja Institute of Construction Science
A management of port sediment in a Working with Nature context to achieve a zero residues generation	García Barroso, Tecnoambiente. S.L.U. C/Newton
Twenty-years forecast of coastline evolution on sandy coastal stretches in mainland Portugal	Diogo Mendes, HAEDES
Review of microplastics removal techniques: challenges and opportunities focused in the experimental lakes area (ELA), Canada	Celia Konowe, Dalhousie University
Agricultural soil recovery using dredged fluvial sediments: Mont-Cenis hydropower plant experiment as a success to be replicated	Emmanuel Branche, EDF Hydro
Towards an integrated and circular management of dredged sediments: HAROPA PORT Rouen as a transforming force in the territory	Benjamin Constant, Neo-Eco
Phytoremediation of dredged sediments polluted with mineral oil, naphthalene and PAHs	Dirk Dubin, bio2clean

Session 'Circular economy – sediment as a resource' - Flash poster presentations

Title abstract	Presenter
A mobile & continuous granulometric classification & dehydration pilot to improve sediment reuse strategies. Case studies & results interpretation	Tristan Debuigne, IXSANE
Beneficial Reuse Of Any Dredged Sediment Environmental Assessment Tool (BROADSEAT)- An open access tool for circular economy optioneering	Richard Lord, University of Strathclyde
Stabilized in situ sediment as material used for experimental coastal protection and habitat restoration measures	Jakub Borovec, Biology Centre CAS
Nature-based geotextile tubes: a new circular and nature-friendly solution for the dewatering of dredged material	Jip Koster, NETICS BV
Re-use of dredged sediments for sustainable mangrove forests development	Maria Ibanez, Haedes
Beneficial reuse of sediments as secondary raw materials for construction sector	Walid Maherzi, IMT Nord Europe
Desalination of dredged sediments for circular reuse to raise agricultural peatlands	Maria Barciela-Rial, HAN University of Applied Sciences
Sediment management in Lake Trakošćan, Croatia - an example of the social and economic aspects of sediment long-term impacts	Dijana Oskorus, University of Zagreb
Valorization of sediments for the construction of flood protection dikes	Selma Bellara, IMT Nord Europe
Application of GEOWALL® dike revetment elements made from dredged materials	Hugo Ekkelenkamp, NETICS BV
Sand sourcing from dredge disposal grounds for nature-based solutions	Lars Kint, Royal Belgian Institute of Natural Sciences
WODA working group on Reservoir Dredging	Polite Laboyrie, CEDA

Session 'Sediment in coastal and marine management' - Presentations

Title abstract	Presenter
The WoE approach applied to the sediments characterization to the lagoon environment: the Venice Lagoon case	Maurizio Ferla, ISPRA
The impact of damming in sediment delivery to coastal zones – case of mainland Portugal	Rafael Braz, Faculdade de Ciências da Universidade de Lisboa
Managing sediments in the Wadden Sea and the role of the research programme BenO Wadden Sea	Jurre de Vries, Executive Agency of the ministry of infrastructure and water management (RWS)
Testing Conditioning Methods for Maintenance Dredging in Ports	Alex Kirichek, Delft University of Technology
Decadal evolution of an intensely nourished coast	Sebastian Dan, Flanders Hydraulics Research
Effects of Re-circulation on Sediment Properties: A Case Study in the Seaport Emden	Fatemeh Chamanmotlagh, Delft University of Technology

Session 'Sediment in coastal and marine management' - Flash poster presentations

Title abstract	Presenter
The new breakwater of the Port of Genoa: monitoring and reuse of the dredged sediments	Marco Capello, University of Genoa
Evolution of submerged large transversal bedforms in a shallow nearshore area along a macrotidal sandy coast	Montreuil Anne-Lise, Antea Group Belgium
Determination of uranium and thorium concentrations in sediment samples from Azerbaijan sector of Caspian Sea	F.Y. Humbatov, Institute of Radiation Problems
The Impact of Contaminated Sediment in the Estuaries of Elbe and Odra	Safia El Toum, Hamburg University of Applied Sciences
Enhanced bioremediation of contaminated sediments in coastal areas of exindustrial sites	Ludovic Grade, IDRABEL Idrabel SPRL
(Re-) Evaluating the Role of Microbes for Fluid Mud Rheology and Settling	Julia Gebert, Delft University of Technology
Sedimentologic influence of torrent check dam systems on shoreline changes in semi-arid mediterranean area: a sub-regional analysis in Calabria (Southern Italy)	Prof. Giuseppe Bombino, University Mediterranea of Reggio Calabria
Environmental life cycle assessment of the innovative ejectors plant technology for sediment management in harbours	Marco Pellegrini, University of Bologna

Session 'Climate change and sediments: direct and indirect consequences and opportunities' - Presentations

Title abstract	Presenter
Fixing Failures or Re-thinking Futures? From Resilient Remedies to Resilient Land-and Water-Scapes	Sabine E Apitz, SEA Environmental Decisions Ltd.
Contaminated Sediment and Climate Change – Sediment Desiccation, The Unthought About Hazard for Caps and MNR	Philip Spadaro, TIG Environmental
Towards net-zero sediment management of inland waterways – comparing embedded and embodied carbon emissions for dredging and reuse scenarios	Richard Lord, University of Strathclyde
The impact on sedimentation in case the Adriatic Sea becomes meromictic due to global climate change	Jasmina Obhodas, Ruđer Bošković Institute
Climate Change Impacts on the Sediment Structure in the Hamburg Port -Challenges and Opportunities: Use of Fluid Mud for Navigational Aspects-	Nino Ohle, Hamburg Port Authority
Port Sediments as Carbon Sink and Source	Julia Gebert, Delft University of Technology
Occurrence and distribution of PCBs, old and new pesticides in marine sediments of Kongsfjorden (Svalbard, Norway)	Tanita Pescatore, Institute of Polar Sciences
Residual sand and mud transport in the Scheldt estuary derived from the sediment balance	Bart De Maerschallck, Flanders Hydraulics
Impact of climate change scenarios on sediment load assessments	Ewa Szalińska, AGH University of Science and Technology
Mapping and quantifying methane emissions from contaminated fibrous sediment	Alizée P. Lehoux, Uppsala University

Session 'Climate change and sediments: direct and indirect consequences and opportunities' - Flash poster presentations

Title abstract	Presenter
Pharmaceuticals and personal care products in the Kongsfjorden sediments	Francesca Spataro, Institute of Polar Science
Measurement of gas-mediated contaminant fluxes and gas composition using in situ methods	Paul Frogner-Kockum, Swedish Geotechnical Institute
Sediments, creating a vibrant estuarine habitat to protect the Scheldt hinterland against flooding & a sound sediment management guides rehabilitation of Fort Sint-Filips from black spot to green spot along the river Scheldt	Huygens Marc, DEME-group

Session 'Climate change and sediments: direct and indirect consequences and opportunities' - Posters

Title abstract	Presenter
Depth profiles of anthropogenic contaminants in a sediment core collected in Kongsfjorden (Svalbard, Norway)	Sara Giansiracusa, University Ca' Foscari of Venice

Session 'Sediment management concepts and sediment policy' - Presentations

Title abstract	Presenter
Sediment remediation pays off: Socio-economic analysis and cost disproportionality of measures using the example of the Elbe river basin	Ilka Carls, Ministry of Environment, Climate, Energy and Agriculture Free and Hanseatic City of Hamburg
Moving the Needle: Beneficial Use of Contaminated Sediments in the United States	D.W. Moore, USACE-ERDC
Sustainable port maintenance strategies - trade-offs between dredging cost and port call efficiency	Arash Sepehri, Delft University of Technology
Exploring the remediation of contaminated sediments	Wim Clymans, VITO-Flemish Institute for Technological Research
A nation-wide survey of polluted sediments in Sweden	Clara Neuschütz, Swedish Environmental Protection Agency
Towards sustainable sediment management and estuary functioning of the Upper Sea Scheldt based on a state of the art modelling approach	Joachim Vansteenkiste, IMDC (Belgium)
Fifty years of shallowing former sand- and gravel pits in the Netherlands: from win-win opportunity to major headache.	Wouter Klein Koerkamp, Open University
A new methodology for prioritisation and initial investigation of contaminated sediment in Sweden	Henrik Bengtsson, Swedish Geotechnical Institute
The fluvial sediment quality monitoring in the context of the implementation of 2030 Agenda in Portugal: a study in N Portugal	Anabela Reis, University of Trás-os-Montes e Alto Douro
Integrated beneficial sediment management in practice	Sittoni Luca, SIDRA
River Tyne Confined Disposal Facility (CDF): Case Study of the Journey from Drivers to Realisation?	Dr. Campbell Geo. Fleming, EnviroCentre Ltd.
Rhône Sediment Management Master Plan between Geneva and Mediterranean Sea in order to achieve good ecological status	Frederic Laval, Ginger BURGEAP

Session 'Sediment management concepts and sediment policy' - Presentations continued

Title abstract	Presenter
Policy solutions for management of contaminated sediments in the EU	Raffaele Vaccaro, Nisida Environment
Sustainable dam siltation management, a pragmatic approach to enhancing water security in South Africa	Lesego Gaegane, Water Research Commission
System dynamic plan as a comparison framework and decision model for the competent authority	Jos Wiegers, Rijkswaterstaat
Sediment Management for the Tidal Elbe - between the poles of science and politics	Boris Hochfeld, Hamburg Port Authority AöR
"Once upon a time ... a beach sand grain": a bed-time story and scientific outreach activity for toddlers to increase sediment literacy	Cristina Lira, University of Lisbon

Session 'Sediment management concepts and sediment policy' - Flash poster presentations

Title abstract	Presenter
Long-term investigation of the morphological development of groyne fields on the two waterways Elbe and Upper Rhine	Elise Lifschitz, German Federal Waterways Engineering and Research Institute (BAW)
Development of a knowledge platform on sediment in Sweden	Clara Neuschütz, Swedish EPA
Monitoring bedload transport: designing a sediment observatory for the Nalón River (Asturias, NW Spain)	E Fernández-Iglesias, Universidad de Oviedo