

Sed
Net



GOBIERNO
DE ESPAÑA

MINISTERIO
DE CIENCIA, INNOVACIÓN
Y UNIVERSIDADES



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



Instituto de Ciencias
de la Construcción
**Eduardo
Torroja**

Healthy Sediments

14th International SedNet Conference

6–10 October 2025

Madrid, Spain

Preliminary Conference Programme



Healthy Sediments: What Are They and How Can They Be Achieved?

Sediments fulfil fundamental functions as riverbeds, aquatic habitats, and play an integral role in the biogeochemical cycles of aquatic systems. Due to their quality and quantity, sediments have key functions for indispensable ecosystem services, including important human uses of water bodies.

In line with the objectives of the European Water Framework Directive (WFD), Marine Strategy Framework Directive (MSFD), Mission Starfish 2030 (aiming to restore our oceans and waters), and the Green Deal (aiming for zero pollution), sediments must be healthy to help regenerate biodiversity, create good conditions for the provision of habitats and ecosystem services, and contribute to the good chemical and ecological status of water bodies. Water pollution causes sediments to function both as sinks and sources of pollutants. The remobilisation and transport of these polluted sediments can potentially negatively impact water quality and, consequently, the health of aquatic organisms. Additionally, activities such as mining and river regulation disrupt the natural sediment flow. To meet the objectives of European environmental policies, it is essential to achieve healthy sediments. We therefore need to define what constitutes healthy sediments and, thereafter, protect and, where needed, restore their health and balance. A strategy is needed to ensure the sustainable management and use of sediments.

In summary, healthy sediments are key to supporting life, maintaining biodiversity, enriching soil, and sustaining ecosystems. But how can the health of sediments be defined? What indicators can be used for assessment? The conference will address the critical topic of “Healthy Sediments” through six thematic sessions:

- 1. Sediment Quality and Risk Assessment**
- 2. Sediment Flows**
- 3. Nature Based Solutions and Beneficial Use**
- 4. Sediment Literacy & Citizen Science**
- 5. Data Collecting, Sharing and AI**
- 6. Sediment Management Concepts and Policy**

To register for the conference, please complete the registration form available via the following link: <https://form.jotform.com/250964471813360>.

MONDAY, 6 OCTOBER 2025

Pre-conference program

9:00 – 17:00	SedNet Working Group Meeting: Circular Economy
t.b.c.	Working Group Sediment Quality
The program for the SedNet Working Group meetings can be found on the website . If you want to join the Working Group meetings, please contact the SedNet Secretariat .	
17:00 – 18:00	Icebreaker



08:30 – 09:00		Registration	
09:00 – 10:30		Plenary opening session	
09:00 – 9:20	Welcome by the SedNet chairs Ilka Carls (Ministry of Environment of the City of Hamburg) & Henrich Röper (Hamburg Port Authority)		
09:20 – 9:40	Keynote presentation by D. Francisco Javier Sánchez Martínez (Ministry of Environment (MITECO), General Directorate for Water)		
09:40 – 10:10	Keynote presentation by Isabel Díaz (Internationalisation and Cooperation, Spanish National Research Council (CSIC))		
10:10 – 10:30	Keynote presentation (presenter t.b.c.)		
10:30 – 11:00		Coffee break & poster viewing	
		Session 1	Session 2
		SESSION: SEDIMENT QUALITY AND RISK ASSESSMENT <i>Session chairs</i> <i>Carmen Casado (Ecotox Centre Eawag-EPFL, Switzerland)</i> <i>Susanne Heise (Hamburg University of AppliedSciences, Germany)</i> <i>Elena Romano (Institute for EnvironmentalProtection and Research, Italy)</i>	SESSION: SEDIMENT FLOWS <i>Session chairs</i> <i>Jos Brils (Deltares, The Netherlands)</i> <i>Froukje Kuijk (OVAM, Belgium)</i>
11:00 – 11:05	Opening of the session		Opening of the session
11:05 – 11:25	Sediment pollution, chronic toxicity and metal bioaccumulation in freshwater macroinvertebrates from Pb/Zn mining districts <i>Leire Méndez-Fernández, University of the Basque Country</i>		Past, present and future suspended sediment transport in large German rivers <i>Thomas Hoffmann, Federal Institute of Hydrology</i>
11:25 – 11:45	Ecotoxicological assessment of river sediments downstream of a firefighting training site <i>Rébecca Beauvais, Swiss Centre for Applied Ecotoxicology</i>		Tracing gravel in the German Upper Rhine using radio acoustic transmitters – findings from a preliminary study <i>Martin Struck, Federal Waterways Engineering and Research Institute</i>
11:45 – 12:05	On the importance to test sediment toxicity in rare earth element enriched waters <i>Susanne Heise, HAW Hamburg</i>		Landscape Reading of River Systems Exploring the Geological History of Alpine Rivers <i>Lisa Schmalfuss, Institute of Hydraulic Engineering and River Research, University of Natural Resources and Life Sciences</i>
12:05 – 12:25	Emerging contaminants (ECs) in inland water sediments of the anthropogenically affected areas in Poland. A One Health perspective. <i>Pilar Ortiz Sandoval, University of Granada & AGH University of Krakow</i>		Sediment Dynamics in an Alpine River A Case Study from the Ötztal, Austrian Alps <i>Sabrina Schwarz, BOKU University</i>
12:25 – 12:40	Flash poster presentations		Flash poster presentations
	Bioessays with the European amphipod Gammarus fossarum to assess freshwater sediments toxicity <i>Cécile Luc-Rey, Biomonitoring Aquatic Environment & RiverLy - Fonctionnement des hydrosystèmes</i>		Morphological changes after sequential experimental floods the case study of the Spöl River, Switzerland <i>Maha Sheikh, University of Bern & Swiss National Park</i>
	Ammonium in marine sediments: from a confounding factor in ecotoxicological assessments to a contaminant? <i>Lorenzo Morroni, ISPRA, DISVA</i>		Influence of pre-existing bed on diluted turbidity current propagation <i>Shaheen Akhtar Wahab, Delft University of Technology</i>
	Assessment of Rare Earth Elements (REEs) Toxicity in Sediment Environments Using Caenorhabditis elegans <i>Zhenghua Wang, Hunan University of Science & Technology and Hamburg University of Applied Science</i>		Investigating Sources and Transport Dynamics of Suspended Sediments in a Mediterranean Forested Catchment <i>Diletta Chirici, University of Florence</i>

	Preliminary ecotoxicological analysis to optimize sediment quality characterization of the Ravenna Port, Italy <i>Chiara Fratini, Bioscience Research Center and University of Palermo</i>	
	Potential Ecological Risk Assessments in the Gediz Delta derived by 210Pb and 137Cs sediment dating <i>İlker Sert, Institute of Nuclear Sciences</i>	
12:40 – 14:10 Lunch		
	SESSION: SEDIMENT QUALITY AND RISK ASSESSMENT <i>continued</i>	SESSION: SEDIMENT FLOWS <i>continued</i>
14:10 – 14:30	A regional systemic approach to assess spatial distribution, transfer, exposure and remediation of wide-spread PFAS pollution in Willebroek <i>Katrien van de Wiele, Flemish Public Waste Agency</i>	Glacio-fluvial sediment connectivity: A catchment-scale perspective in a rapidly retreating glaciated area in the Austrian Alps <i>Michael Paster, BOKU University</i>
14:30 – 14:50	Study of PFAS contamination in the Garonne and its watershed <i>Quentin Dubois, University of Bordeaux</i>	Urslau case study A comparison of transport equations with long-term monitored bedload data <i>Andrea Lammer, Institute of Hydraulic Engineering and River Research</i>
14:50 – 15:10	Quantitative analysis of PFAS distribution in aqueous environmental samples of the Hungarian section of the Danube River <i>Esther Orenibi, Eötvös Loránd University</i>	Exploring the role of sediment availability in the morphological response during floods the case of the Tenetra stream (Marche, Italy) <i>Erica Guidi, University of Urbino</i>
15:10 – 15:30	The current situation with TBT in Sweden – contamination situation, sources, transport pathways and ongoing research <i>Tobias Porsbring, Swedish Geotechnical Institute</i>	Analysis of sediment transport in Ebro Delta channels to optimise the irrigation network efficiency in diverting sediment to vulnerable areas <i>Josep Coma, HAEDES</i>
15:30 – 15:45	Flash poster presentations	Flash poster presentations
	Understanding the Heavy Metal Pollution Pattern in Sediments of a Typical Small- and Medium-Sized Reservoir in China <i>Qiushi Shen, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, Nanjing, China</i>	Continuous Sediment Transfer – Restoring Sediment Continuity in impounded Waters <i>Lara Gehrmann, Hülskens Sediments GmbH</i>
	Reconstruction of historical events by studying radionuclides and chemical concentrations in a sediment core at North Cretan deep basin, Greece <i>Christos Tsabaris, Hellenic Centre for Marine Research, Institute of Oceanography</i>	Assessment of bioavailable metal/loids in metal-rich estuarine sediments using passive samplers and sequential extraction techniques <i>Carlos R Cánovas, University of Huelva</i>
	Environmental characterization for sediment management the case of the Port of Civitavecchia (Rome, Italy) <i>Cristian Mugnai, ISPRA</i>	
	Metals and phosphorus in riverine sediments from catchments under distinct environmental pressures potential availability assessment <i>Anabela Reis, Department of Geology, School of Life and Environmental Sciences, University of Trás-os-Montes e Alto Douro</i>	

	Mercury contamination from sediments to the terrestrial ecosystem. The case study of the Toce River (Northern Italy) <i>Laura Marziali, CNR-IRSA, Brugherio</i>	
15:45 – 16:15	Coffee break & poster viewing	
	SESSION: SEDIMENT QUALITY AND RISK ASSESSMENT <i>continued</i>	SESSION: SEDIMENT FLOWS <i>continued</i>
16:15 – 16:35	Long-Term Monitoring of Chemical Sediment Composition in the German Bight: Insights into Past and Future Trends and Changes <i>Anna Plass, Federal Maritime and Hydrographic Agency</i>	Sediment Transport and Metal Dynamics in an Acid Mine Drainage-Affected Estuary Insights from the Ria of Huelva <i>M Dolores Basallote, Institute of Marine Sciences of Andalusia</i>
16:35 – 16:55	The Rhône Sediment Observatory (OSR) monitoring network for suspended sediment and contaminants long-term assessment <i>Marina Coquery, INRAE</i>	Wet season sediment plume distribution across northern Australia; primary productivity and climate change. <i>Paula Cartwright, James Cook University</i>
16:55 – 17:15	Trends of per- and polyfluoroalkyl substances recorded in sedimentary archives upstream and downstream of the Lyon metropolis <i>Brice Mourier, Univ. Lyon</i>	Switch rooms
17:15 – 17:35	Coastal microplastic monitoring: Harmonized protocols for sampling and analysis <i>Danijela Joksimović, Institute of marine biology-UoM</i>	
17:35 – 18:00	Flash poster presentations	Session 3
	The NRRP Return Project: Environmental integrated monitoring plan for both traditional and emerging contaminants <i>Sarah Vercelli, University of Genoa, Casaccia Research Center, ENEA Portici Research Center</i>	SESSION: NATURE-BASED SOLUTIONS AND BENEFICIAL USE Session Chairs: Arjan Wijdeveld (Deltares, The Netherlands) Julia Gebert (Delft University of Technology, The Netherlands)
	Organic ultraviolet filters (OUVFs) in sediments of freshwater bathing areas in Southern Poland Current sink and future risk? <i>Marta Koziarska, AGH University of Krakow</i>	17:15 - 17:20 Opening session
	Historical analysis of micro plastics and heavy metals from the sediment records in İzmir Bay <i>Gunseli Yaprak, Ege University</i>	17:20 - 17:40 Beneficial use options for dredged sediments circular economy and climate change-based assessment and classifications <i>Bruno Lemièrre, monitor-env</i>
	Measurement of microplastics in sand samples taken from Azerbaijan coasts of the Caspian Sea <i>Famil Humbatov, Institute of Radiation Problems, Ministry of Science and Education of the Azerbaijan Republic</i>	17:40 - 18:00 River Works Soil-Based Programming in the River Area <i>Maria Barciela-Rial, HAN University of Applied Sciences</i>

Microplastic pollution in a special protection area
for migratory birds

*Francesca Fabrizi, Institute for Marine Biological
Resources and Biotechnology (IRBIM)*

eDNA metabarcoding for the assessment of
benthic macroinvertebrate biodiversity in
Mediterranean coastal lagoons

Maurizio Pinna, University of Salento & NBFC

18:00 – 20:00 Reception + Meet the presenters at their poster



Session 1		Session 3	
SESSION: SEDIMENT QUALITY AND RISK ASSESSMENT		SESSION: NATURE BASED SOLUTIONS AND BENEFICIAL USE	
CONTINUED		CONTINUED	
09:00 – 09:20	Emissions - The long-term memory of sediments <i>Arjan Wijdeveld, Deltares</i>	Field labs sustainable use of sediments in the Rhine Meuse delta <i>Marco Wensveen, Port of Rotterdam Authority</i>	
09:20 – 09:40	Sediment risk assessment in Europe: comparison of environmental regulations <i>Carmen Casado-Martinez, Swiss Centre for Applied Ecotoxicology</i>	Reuse of dredged sediments from hydropower reservoirs in France: Recent experiments highlighting current enablers and barriers <i>Emmanuel Branche, EDF</i>	
09:40 – 10:00	Changes in trends of the seawater column parameters and sediment elements’ concentrations from 2005 to 2024 in marinas located in the Adriatic Sea <i>Jasmina Obhodaš, Institute Ruđer Bošković</i>	Description of and criteria for nature-based solutions involving sediments that reduce erosion as well as slope instability <i>Johan Nyberg, SGI, Dept. for Natural hazards and geodata</i>	
10:00 – 10:20	Scaling complexity: novel hydraulic flume experiments on the interaction of sediments with nutrients and pollutants <i>Peter Flödl, Institute of Hydraulic Engineering and River Research</i>	LIFE NARMENA: Nature based remediation techniques for heavy metals in sediment – results of a constructed wetland in the Winterbeek site <i>Jan De Vos, ABO nv</i>	
10:20 – 10:35	Flash poster presentations	Flash poster presentations	
	The new breakwater of the Port of Genoa (Italy): a complex marine environmental monitoring strategy <i>Sonya Montini, University of Genoa</i>	Assessing the Effectiveness of Freshwater Rinsing in Reducing Salinity of Marine Dredged Sediment for Ceramic Industry Applications <i>Claudia Mc Leod, HAN University of Applied sciences</i>	
	Rock-glacier springs as key water sources for the future is trace element contamination a risk <i>Laura Marziali, IRSA-CNR, Brugherio</i>	Sustainable navigation in Malamocco-Marghera navigation channel (Venice Lagoon) <i>Sina Saremi, DHI</i>	
	Gammarus fossarum as European amphipod species for substance toxicity assessment using spiked sediment <i>Anthony Mathiron, BIOMAE</i>	Transforming Sediments into A Sustainable Material for Blocks Production <i>Hugo Ekkelenkamp, NETICS B.V</i>	
	Exploration of sediment research by water authority HHNK within its Water Framework Directive Impulse Program <i>Chantal van Drimmelen, Hoogheemraadschap Hollands Noorderkwartier</i>	Sustainable reuse of posidonia oceanica fibers and dredged marine sediments for lightweight and eco-friendly mortars <i>F.Dimunn, Politecnico di Bari</i>	
	Nuclear and related analytical techniques for environmental safety of the Russian coastline of the Black Sea: marine bottom sediments case study <i>Marina Frontasyeva, NAA and Applied Research Division of Nuclear Physics</i>	Valorization of Dredged Materials as Sustainable Construction Resources: An Overview <i>Amine el Mahdi Safhi, Østfold University College</i>	
10:35 - 11:05	Coffee break & poster viewing		

Session 1		Session 3	
SESSION: SEDIMENT QUALITY AND RISK ASSESSMENT		SESSION: NATURE BASED SOLUTIONS AND BENEFICIAL USE	
CONTINUED		CONTINUED	
11:05 – 11:25	Electrokinetic decontamination of Tributyltin (TBT) in dredged sediment <i>Marta Castellote, Eduardo Torroja Institute of Construction Sciences</i>	Soil carbon and nutrient addition from dewatered sediment application to agricultural land –benefits and synergies for dredging and Net Zero <i>Richard Lord, Net Zero Industry Innovation Centre</i>	
11:25 – 11:45	Assessing the impact of dredge disposal on different ecosystem components in the Belgian part of the North Sea <i>Stephie Seghers, Flanders Research Institute for Agriculture, Fisheries and Food</i>	Aquaforest: a Nature-based-Solutions for restoring and developing new mangrove habitats through eco-engineering <i>Maria Ibanez, Haedes</i>	
11:45 – 12:05	Tribochemical decomposition of aromatic pollutants in dredged sediment <i>Roman Nevshupa, Eduardo Torroja Institute of Construction Sciences</i>	First morphological response of a large nearshore nourishment project using fine sand, Knokke, Belgium <i>Anne-Lise Montreuil, Antea Group Belgium</i>	
12:05 – 12:25	Flash poster presentations	12:05 - 12:25 Dewatering of Dredged Sediment by Natural Solutions <i>Miguel de Lucas, Medeina Engineering</i>	
	Ostreopsis species noticed for the first time in the area of Boka Kotorska Bay (South Adriatic Sea) <i>Dragana Drakulović, University of Montenegro</i>	12:25 - 12:35 Flash poster presentations	
	Field Measurement of Greenhouse Gas Emissions and Gas Mediated Contaminant Dispersion from Fiberbanks <i>Paul Frogner-Kockum, Swedish Geotechnical Institute</i>	Enhancing Dike Safety with Ripened Dredged Sediment <i>Maria Barciela-Rial & Wouter van de Star, HAN University of Applied Sciences, Deltares, EcoShape</i>	
	Red mud: hazardous waste or secondary raw material with potential? <i>Mirza Nuhanović, University of Sarajevo</i>	Open field ripening reduces shrinkage and increases compactibility of dredged sediment <i>Julia Gebert, Delft University of Technology & Technische Universität Braunschweig</i>	
	Molecular speciation and transformation of particulate phosphorus within the fluvial suspended sediments along an agricultural catchment stream <i>David.W O’Connell, Trinity College Dublin</i>	Rheology and Settling Processes of Mud for Defining Critical Limits for Navigability in the Port of Felixstowe <i>Cornelius Ravikumar, Delft University of Technology</i>	
	The littoral wetland to be a higher phosphorus sink and internal source than the open water area in a diversion input lake <i>Cheng Liu, Chinese Academy of Sciences, Nanjing</i>		
12:25 - 12:35	Discussion		
12:35 - 14:00	Lunch		

Session 4		Session 3	
SESSION: SEDIMENT LITERACY & CITIZEN SCIENCE Session Chair: Cristina Lira (University of Lisbon, Portugal)		SESSION: NATURE BASED SOLUTIONS AND BENEFICIAL USE <i>CONTINUED</i>	
14:00 – 14:05	Opening Session	14:00 - 14:20	One Person's Medicine is another Person's Poison Carnon Valley – Metal Impacted Sediments <i>Philip Studds, Ramboll</i>
14:05 – 14:25	A Citizen Science Method Engaging non-experts in monitoring river sediment and morphological changes <i>Eva Manzenreiter, BOKU University</i>	14:20 - 14:40	Dredging project and environmental monitoring programme in the O Burgo Estuary (A Coruña, Spain) <i>Carlos Gil Villar, Demarcación de Costas de Galicia, MITECO</i>
14:25 – 14:45	Citizen Science and Macroinvertebrate Monitoring Key Learnings from the CS4Rivers Project <i>Chiara Vitillo, University of Siena</i>	14:40 - 15:00	Flash poster presentations
14:45 - 15:05	Remediation of polluted marine sediments in Bergen city harbour; a collaborative approach to environmental conservation <i>Anne Christine Knag, Agency for Urban Environment, City of Bergen</i>		In-Situ capping of contaminated sediments in Puddefjorden, Bergen Harbour, Norway, using rock materials from tunnel boring machine (TBM) <i>Bjørn Christian Kvisvik, COWI</i>
			Organic Matter Decomposition During Sediment Ripening <i>Nazeir Elnaker, Delft University of Technology</i>
			Capillary Suction Time: Assessing the Potential of a Rapid, Small-Scale Method for Determining the Material Properties of Dredged Sediment <i>Maria Barciela-Rial, HAN University of Applied Sciences</i>
			Towards carbon neutral construction using Olivine and Calcined Sediment <i>Marc Antoun, NETICS B.V</i>
			Using stable isotope technology for environmental safety and sustainable development of water resources in Georgia <i>George Melikadze, M. Nodia Institute of Geophysics, Ivane Javakhishvili Tbilisi State University</i>
			Woody plants as accumulators of toxic elements from soil <i>Marina Frontasyeva, Joint Institute for Nuclear Research</i>
15:00 - 15:30	Coffee break & poster viewing		

Session 4		Session 6	
SESSION: SEDIMENT LITERACY & CITIZEN SCIENCE CONTINUED		SESSION: SEDIMENT MANAGEMENT CONCEPTS AND POLICY Session Chairs: Carmen Kleisinger (Bundesanstalt für Gewässerkunde, Germany) Pieter de Boer (Ministry of Infrastructure and Water Management, The Netherlands)	
15:30 – 15:50	Sediment Literacy Empowering Future Generations for Sustainable Interactions with Natural Resources in an Increasingly Complex World <i>Bianca Pischke, beconpe Consulting</i>	15:30 - 15:35	Opening session
15:50 – 16:10	Dirt or no Dirt, that is the Question - Improving Citizens Sediment Literacy <i>Ivonne Stresius, Faculty of Life Science, Hamburg University of Applied Sciences</i>	15:35 - 15:55	Flanders policy continues to focus on an integrated approach of contaminated sediments : legislation and code of good practice <i>Katrien Van de Wiele, OVAM</i>
16:10 – 16:30	The Mediterranean Remediation and Innovation Hub (MEDREHUB) <i>Raffaele Vaccaro, Nisida Environment Srl</i>	15:35 - 15:55	Comparison of Freshwater Sediment Quality Guidelines (SQGs) for potentially toxic elements (PTEs) Historical Perspectives and Future Directions <i>Ahmedin Hiya, Doctoral School of Environmental Sciences, Faculty of Science, Eötvös Loránd University, Department of chemistry</i>
16:30 – 16:55	Discussion	15:35 - 15:55	Using sediment samples to assess substances in relation to the Water Framework Directive (WFD) <i>Signe Marie Ingvarsdén and Thomas Ruby Bentzen, COWI</i>
		15:35 - 15:55	Assessment of dredged sediments in the light of the WFD-EQS. Justified trouble due to advanced assessment tools <i>Henning Schroeder, Federal Institute of Hydrology</i>
16:55 - 18:00	Meet the poster presenters at their poster		
20:00 - 23:00	Conference dinner & poster award ceremony (Location t.b.c.)		



Session 5		Session 6	
SESSION: DATA COLLECTING, SHARING AND AI Session Chair: Jasmina Obhodas (Ruđer Bošković Institute, Croatia)		SESSION: SEDIMENT MANAGEMENT CONCEPTS AND POLICY <i>CONTINUED</i>	
09:30 – 09:35	Opening session	09:30 - 09:50	The sediment's role in the management of beach and recreational use of water <i>Elena Romano, ISPRA, Regione Abruzzo, ISS, ARPAE, IZS, Agenzia regionale di sanità della Toscana</i>
09:35 – 09:55	LandSeaLot: improving (also sediment dynamics) observation capacity in the land-sea interface area <i>Jos Brils, Deltares</i>	09:50 - 10:10	Spanish Framework for coastal sediment management. Regulatory conditions and impact on sediment balance <i>Ana Lloret, CEDEX, Centre for Port and Coastal Studies</i>
09:55 – 10:15	Using a web application to ensure quality-assured data entry into an open access sediment contaminant database <i>Richard Heal, Cefas</i>	10:10 - 10:30	Optimization of Sediment Restoration Through Combined Remedy and Risk Management <i>Senda Ozkan, Tetra Tech</i>
10:15 – 10:35	Introducing the Sediment Management Framework Application <i>Claire Mason, Cefas</i>	10:30 - 10:50	Flash poster presentations
			Adaptive Management for environmental aspects of dredging and reclamation projects Reactive and Pro-Active <i>Sina Saremi, DHI</i>
			Impacts of Sterilization and Organic Matter Removal on the Rheology and Settling Behavior of Fluid Mud <i>Fatemeh Chamanmotlagh, Delft University of Technology</i>
			AMORAS sediment treatment Estimate of sediment import through lock exchange at the right-bank port of Antwerp <i>Bart De Maerschalck, Flanders Hydraulics</i>
			High concentrations of certain trace metal elements in Martinique port sediments <i>Julie Droit, CEREMA</i>
10:35 - 11:05	Coffee break & poster viewing		

Session 5		Session 6	
SESSION: DATA COLLECTING, SHARING AND AI		SESSION: SEDIMENT MANAGEMENT CONCEPTS AND POLICY	
CONTINUED		CONTINUED	
11:05 – 11:25	Tools to Inform Sediment Assessment, Management, and Regulation: Book Update <i>Richard J Wenning, Wenning Environmental LLC</i>	Sediment management concept of the River Elbe (Germany) – implementation status and an example for supporting research <i>Marvin Brinke, Federal Institute of Hydrology (BfG)</i>	
11:25 – 11:45	Time-integrated sediment quality monitoring in large rivers. Temporal variations in suspended and floodplain sediments in the Drava River. <i>Samdandorj Manaljav, Doctoral School of Environmental Sciences, Faculty of Science, Eötvös Loránd University</i>	iNNO SED - Innovative Sediment Management in the Danube River Basin <i>Baranya Sándor, Budapest University of Technology and Economics</i>	
11:45 – 12:05	Suspended Sediment Load Prediction using Machine Learning models <i>Taha Hamadene, Nuclear Safety and Radiation Protection Authority</i>	DanubeSediment_Q2 - Sustainable, Integrated Transnational Sediment Quantity and Quality Management in the Danube River Basin <i>Helmut Habersack, University of Natural Resources and Life Sciences, Vienna</i>	
12:05 – 12:25	Streamlining erosion and sediment transport modelling: the ‘pywatemsedem’ package <i>Sacha Gobeyn, Fluves</i>	Data-driven approach to implement an integrated water and sediment management strategy in Flanders <i>Katrien Van de Wiele, VITO & OVAM</i>	
12:25 – 14:05	Lunch		
14:05 - 14:25	The synergistic use of bathymetric measurements and ADCP for the hydromorphological monitoring of waterways <i>Arseni Maxim, “Dunarea de Jos” University of Galati</i>	Banning the dumping of polluted sediments - The French choice <i>Xavier Dolbeau & Philippe Bataillard, EGIS & BRGM</i>	
14:25 - 14:45	Rivers do not only transport sediment: Monitoring and quantifying the instream large wood regime combining field and drone surveys and AI techniques <i>Virginia Ruiz-Villanueva, University of Bern</i>	Circular management of dredged sediments from port maintenance <i>Arash Sepehri, Delft University of Technology</i>	
14:45 - 15:00	Flash poster presentations	14:45 - 15:05 Sediment management in hydropower reservoirs on the Drava river <i>Polonca Ojsteršek, Dravske elektrarne Maribor d.o.o.</i>	
	Evaluation of a Continuous Sediment Ebullition Monitor <i>Stacy Hopkins, ExxonMobil Environmental and Property Solutions Company</i>	15:05 - 15:15 Flash poster presentations	
	On-site sediment toxicity monitoring using a field operable biosensor <i>Robert Marks, The Ben Gurion University of the Negev</i>	Exploratory Pilot Study of a Novel Remedial Dredging Technology for Removal of Contaminated Sediment <i>Martijn van Ruiten, Hydrex Research Center</i>	
	Enhancing Harmful Heavy Metal Contamination Profiling in Coastal Sediments: A Modified Geochemical Index Approach <i>Tatiana Gonzalez Cano, Korea Institute of Ocean Science and Technology, University of Science and Technology, Admiral Padilla Naval Academy of Cadets</i>	Sustainable sediment management through the use of innovative geosynthetics <i>James Philip Feest, Huesker</i>	
15:00 - 15:15	Discussion		
15:15 - 15:45	Closing session		
15:45 - 16:30	Closing Coffee Reception		



FRIDAY, 10 OCTOBER 2025

Excursion day

Program

Please note: The excursion program is subject to change and may be updated based on logistical considerations. Participation is limited and available on a first-come, first-served basis.

09:00 Departure from Madrid

10:30 Arrival at the Tagus River site and guided tour

12:30 End of the technical visit

12:30 Lunch

14:30 Guided tour of the Royal Palace

15:30 Free time / walk around the area

16:00 Return to the departure point

17:30 Approximate arrival time

Hotel recommendations

Ilunion Pio XII

Avenida de Pio XII, 77, Chamartín, 28016 Madrid

1,5 km walk to the conference location



Crisol Vía Castellana

Paseo de la Castellana, 220, Chamartín, 28046 Madrid

2,5 km walk to the conference location or with bus 107

Hotel Mirador de Chamartín

Del Arte, 14 (esquina Caleruega, 67), Ciudad Lineal, 28033 Madrid

1,8 km walk to the conference location

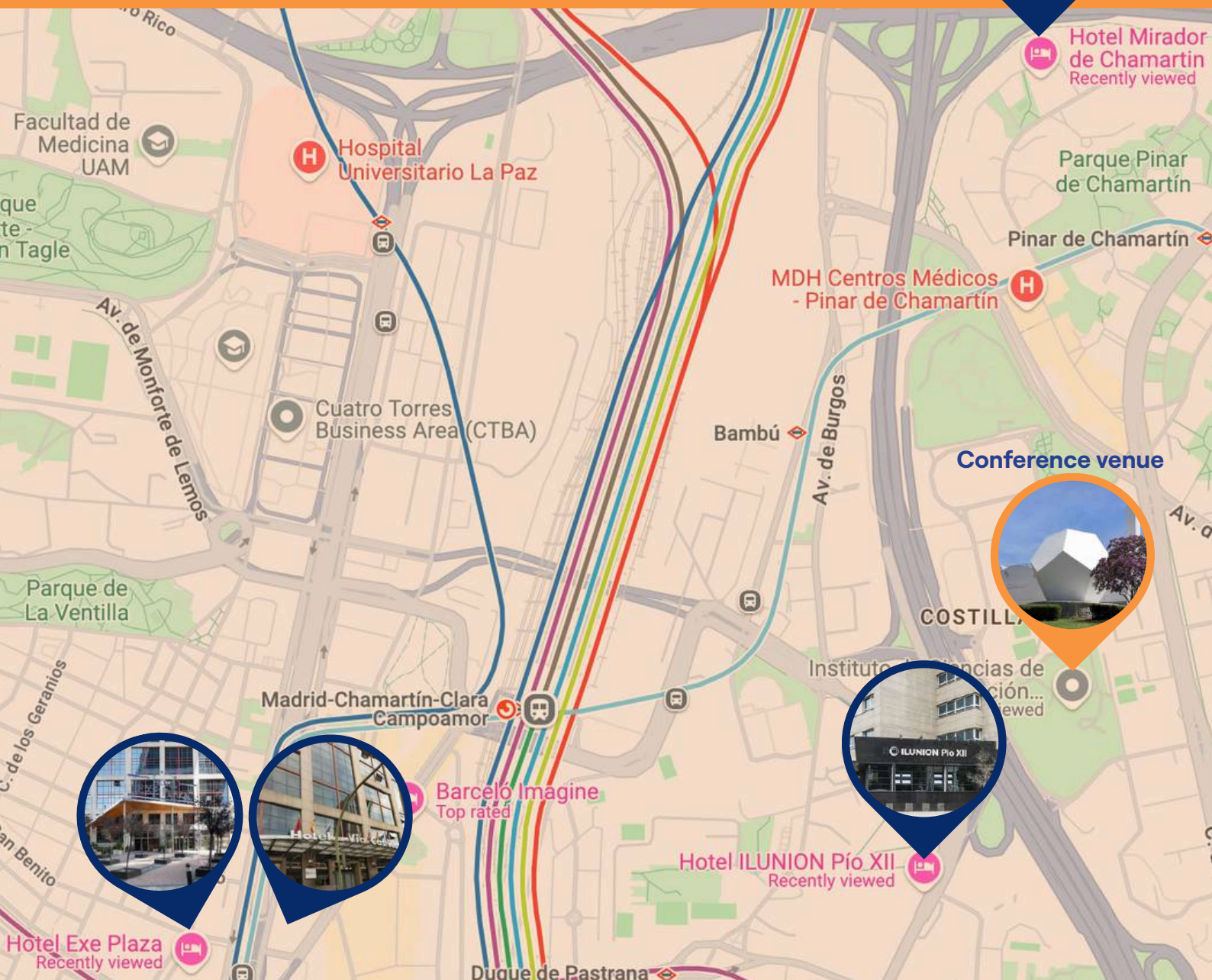


Exe Plaza

Paseo de la Castellana, 191, Tetuan, 28046 Madrid

2,5 km walk to the conference location

Hotel recommendations on the map



The nearest metro station to the Institute is Bambu, which connects directly to the center of Madrid. If you choose to stay in the city center, you can take the metro to Bambu station. From there, it is a 20-minute walk (1,3 km) to the Conference venue.

Conference Organisation

The conference is co-organised by SedNet and Instituto de Ciencias de la Construcción Eduardo Torroja- IETcc.

The Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc) is a prominent Spanish research institution dedicated to the science and technology of construction. Founded in 1934 and named after the renowned civil engineer Eduardo Torroja, the institute is part of the Spanish National Research Council (CSIC). The CSIC is Spain's largest public research institution, founded in 1939. It operates under the Ministry of Science and Innovation, conducting multidisciplinary research across physical sciences, life sciences, social sciences, and humanities. CSIC plays a key role in advancing scientific knowledge and innovation in Spain and internationally. The IETcc focuses on advancing knowledge in construction materials, structural engineering, and building technologies, with a strong emphasis on sustainability, innovation, and improving the durability and safety of built environments. Its multidisciplinary research supports the development of standards, best practices, and cutting-edge solutions in the construction industry.

Conference Venue

This conference will only be a physical event. The conference is organised at the Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc), in Madrid, Spain. Madrid, the capital of Spain, is a vibrant and historic city known for its rich cultural heritage, stunning architecture, and lively atmosphere. As the political, economic, and cultural centre of the country, Madrid is home to iconic landmarks like the Royal Palace, Prado Museum, and Puerta del Sol. The city is renowned for its bustling streets, world-class art galleries, diverse cuisine, and vibrant nightlife, offering a blend of tradition and modernity. With a population of over 3 million, Madrid is a dynamic metropolis that embodies the spirit of Spain.

The address of the conference venue is: C. de Serrano Galvache, 4, Cdad. Lineal, 28033 Madrid.

Language

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

Excursion

On the day after the conference, Friday, the 10th of October, an excursion will be organised. Details will be announced in the final conference programme.

Conference Fee

Regular fee: € 550,00 excl. VAT

Students: € 150,00 excl. VAT

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

The fee includes admission to the 3-day conference programme, social events, conference dinner on the 8th of October and an excursion on the 10th of October. Details about the social events and excursion will be provided in the final conference programme.

Registration

To register, please follow the link provided below:
<https://form.jotform.com/250964471813360>



Further Information

SedNet Secretariat,
Chayenne van Dijk

E-mail: secretariat@sednet.org

Website: www.sednet.org



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, policymaking, 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

Posters without flash poster presentation

Title	Presenter	Organisation
Spatial distribution of 40K, 137Cs, 226Ra and 238U in the coastal and shelf sediments of the western Black Sea	Krasimira Slavova	Institute of Oceanology, Bulgarian Academy of Sciences
Abrasion in nature a single particle analysis	Dorian Shire-Peterlechner	Institute of Hydraulic Engineering and River Research