

SedNet

Conference program

5th International SedNet conference 27th-29th May 2008 Oslo, Norway

Urban Sediment Management and Port Redevelopment & Sediment in River Basin Management Plans

Hosted and co-organised by NGI Oslo, Norway

Sediment in rivers, harbours and marine coastal zones in urban areas is often historically contaminated. Contamination originates from industrial activities, dockyard and harbour operations as well as discharges of municipal wastewater and urban surface water run-off. This 'legacy of the past' complicates the redevelopment of harbour areas and the waterfront of cities for housing or commercial purposes. A proper sediment management strategy is required that takes into account environmental risks associated with contaminated sediment as well as the identification of appropriate remediation options for use in the urban environment. Furthermore, European legislation increasingly requires the involvement of stakeholders, who may have conflicting viewpoints and concerns. How to manage such complexity? What challenges with regard to the management of contaminated sediments have been met and what experiences gained in port redevelopment cases in urban areas?

This will be the topic for the first half of the SedNet Conference.

The second half of the conference will be dedicated to the state-of-the-art on sediment management in river basin management planning. What recent, scientific sediment related findings may (or should) find their way into river basin management plans or their future updates? Presentations are scheduled from, amongst others, ongoing, major EC projects, such as MODELKEY and RISKBASE. Also a report back will be given of the 4th SedNet Conference on sediment management as essential element of River Basin Management Plans, which took place in Venice in 2006. What are recent developments in European River Basins, are sediments considered in management plans? What are the experiences and challenges? Are there needs towards European policy?

Posters

A poster session, divided in 7 areas, will be open during coffee and lunch breaks.

EC Best Paper 2008 Award

The Environment Commission (EC) of the Central Dredging Association, CEDA, will present its 2008 Award for a contribution to the literature on dredging and environment at the SedNet conference. CEDA EC has established this award to stimulate the dissemination of good quality information related to dredging and the environment, including technical, regulatory and managerial aspects of dredging operations and dredged material management. The Prize is 1000 Euro in cash and the publication of the full paper in Dredging and Port Construction Magazine.





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Day 1	Tuesday 27th May 200	8
	Managing Contaminate	ed Sediments
08:30 - 09:30	Registration	
09:30 - 10:00	Opening and welcome Axel Netzband, Hamburg Port Authority, Germ Ellen Hambro, Director of the Norwegian Pollu	
	Introduction/Setting the scene Chairman: Axel Netzband, Hamburg Port Authorit	y, Germany / chairman SedNet
10:00 - 10:40	Challenges in remediation of contaminated sedim Gijs Breedveld, Norwegian Geotechnical Institute	
10:40 - 11:05	Lessons about sediment management learned from case studies: Result of the meetings of DGE-plus Piet den Besten, Centre for Water Management, The Netherlands	
11:05 - 11:30	The Oslo Harbour Remediation Project Torild Jørgensen, Oslo Port Authority, Norway	
11:30 - 11:45	Discussion	
11:45 - 12:15	Opening poster session	
12:15 - 13:30	Lunch and poster session	
	Parallel sessions	
	Surveys	Solutions
	Chairman: Aivo Lepland, Geological Survey of Norway	Chairman: Audun Hauge, Norwegian Geotechnical Institute
13:30 - 13:50	A comparison of environmental sedimentology in four harbours (Bergen, Göteborg, Ventspils and Port San Luis) Rodney Stevens, Göteborg University, Sweden	Capping for management of contaminated sediments and dredging residuals Tom Borrowman on behalf of Carlos E. Ruiz, US Army Eng. Research & Development, USA
13:50 - 14:10	Innovative use of remote sensing in combination with chemical borehole data results in superior insights in the spread of contaminated sediments Fred de Haan, Waternet, The Netherlands	Opticap, thin layer capping of sediments using reactive and non-reactive materials; field studies Gerard Cornelissen, Norwegian Geotechnical Institute, Norway
14:10 - 14:30	PCB-anomalies in the sediments of the harbour basin of Zadar (Croatia) as a consequence of	Design and implementation of an erosion protection barrier for mercury-contaminated

sediments at Tollare

Andrew Petsonk, WSP Environmental, Sweden

war action and/or industrial contamination

Martin Kralik, Umweltbundesamt, Austria



Poster sessions, divided in 7 areas, open during all breaks:

- 1. Urban sediment management
- 2. Surveys

Reception Oslo City

18:00 - 20:00

- 3. Solutions
- 4. Case studies
- 5. Sediment quality and risk
- 6. Emerging issues





10:00 - 10:20

11:00 - 11:20

11:40 - 12:00

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Day 2	Wednesday 28th May 2008
	Managing Contaminated Sediments - continued
00.00 00.05	Opening and welcome to day 2

09:00 - 09:05 Opening and welcome to day 2

Gijs Breedveld, Norwegian Geotechnical Institute, Norway

09:05 - 09:40 In-place treatment of persistent contaminants in sediments: through addition of activated carbon sorbent. *Richard G. Luthy, Stanford University, USA*

Parallel Sessions

Case Studies

Chairman: Marc Eisma, Port of Rotterdam Authority, the Netherlands

Dumped ammunition - an environmental problem for sediment management?

Jens Laugesen, Det Norske Veritas, Norway

Management of metal contaminated sediments in Sorfjorden, West Norway - an internationally known site Jens Skei, Norwegian Institute for Water Research, Norway

Thea Foss Waterway Remediation Project:
An example of the risk-based, multi-technology approach to contaminated sediment management
Philip A. Spadaro, Arcadis US Inc, USA

10:40 - 11:00 Coffee break / poster session

Research, Norway

Norway

The Norwegian Grenland fjord dioxin story sediment remedial options and consequences
Kristoffer Naes, Norwegian Institute for Water

Innovative methods to determine efficiency of

Espen Eek, Norwegian Geotechnical Institute,

remediation by sediment capping

Including contaminant budget principles in the monitoring program for sediment remediation efforts in Oslo harbour, Norway

Amy Oen, Norwegian Geotechnical Institute,

Norway

Sediment Quality Standards & Triad (SQS/SQT)

Chairman: Piet den Besten, Centre for Water Management, the Netherlands

The Water Framework Directive and setting Environmental Quality Standards (EQS) for priority substance in sediments Dorien ten Hulscher, Centre for Water Management, the Netherlands

Overview of the recommendations of WG-EG-EQS concerning environmental quality standards for metals in sediments Katrien Delbeke, Eurocopper, Denmark

Environmental Quality Standards for (organic) priority substances in sediments: the Water Framework Directive challenging science, and vice versa

Marc Babut, Cemagref, France

Development of sediment quality criteria in Norway

Torgeir Bakke, Norwegian Institute for Water Research, Norway

The use of the Sediment Quality Triad for quality assessment of freshwater sediments in Northern Spain

Pilar Rodriguez, University of Basque Country,

Spain

Discussion



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12.00 - 12.45

Poster session

19-45 - 13-30

Lunch and poster session

Parallel Sessions

Emerging Issues

Chairman: Jos Brils, Deltares, the Netherlands

13:30 - 13:50

Sediment management and stakeholder involvement

Michael Mery, Tomales Bay

Watershed Council, USA

13-50 - 14-10

Sustainable urban and environmental management restoration applications using sediment treatment systems with beneficial use *Eric A. Stern, US Environmental Protection Agency, USA*

14:10 - 14:30

Valuing the benefits of remediating contaminated marine sediments - a case study from Grenlandsfjorden, Norway David N. Barton, Norwegian Institute for Water Research, Norway

14:30 - 14:50

4:50 - 15:10

Coffee break / poster session

Sediment management from a resilience perspective

Adriaan Slob, TNO, The Netherlands

15:10 - 15:30

A systems' approach to water(soil) management: resilience as a challenge to organizations and innovation processes *Gerald Jan Ellen, TNO, The Netherlands*

5:30 - 16:00

Discussion and closure day 2

Cruise in Oslo fjord

17:00 - 20:00

20:00 - 23:00

23:00 - 23:30

Dinner at Holmen Fjord hotel Back by bus to Oslo city centre

Science for River Basin Management

Chairperson: Susanne Heise, BIS TU Hamburg-Harburg, Germany

Origins and causes of river basin sediment degradation and available remediation and mitigation options (RISKBASE) Corinne Merly, BRGM, France

Marching forward or flying blind? Ensuring that sediment management strategies and frameworks meet our objectives Sabine E. Apitz, SEA Environmental Decisions Ltd., UK

A decision-making methodology for the management of dredged sediments on the basis of chemical and toxicological data Alexandra Katsiri, Dept. of Water Resources and Environment – NTUA, Greece

Are polluted sediments a source of contaminants for the water column? Philippe Bataillard, BRGM, France

Impact of shape and land use on sedimentation in green flood retention reservoirs

Sven Wurms, University of Stuttgart, Germany

Discussion and closure day 2

Poster sessions, divided in 7 areas, open during all breaks:

- 1. Urban sediment management
- 2. Surveys
- 3. Solutions
- 4. Case studies
- 5. Sediment quality and risk
- 6. Emerging issues
- 7. River Basin Management





Day 3	Thursday 29th May 2008
	River Basin Management
09:00 - 09:05	Opening and welcome to day 3 Peter Heininger, Federal Institute of Hydrology, Germany
09:05 - 09:40	Global geochemical mapping and the particle bound flux of major world rivers Rolf Tore Ottesen, Geological Survey of Norway, Norway
	Fundamentals Chairman: Peter Heininger, Federal Institute of Hydrology, Germany
09:40 - 10:00	Sustainable management of sediment resources: Sediment management at the river basin scale Philip N. Owens, University of Northern British Columbia, Canada
10:00 - 10:20	Where River Basin Management meets the European Marine Strategy Diana Slijkerman, IMARES, The Netherlands
10:20 - 10:40	Risk assessment in risk-based management of European river basins Michaela Hein, Helmholtz Centre for Environmental Research – UFZ, Germany
10:40 - 11:00	Coffee break / poster session
	River Basin case studies Chairman: Hans-Peter Nachtnebel, University of Vienna, Austria
11:00 - 11:20	Management of sediment quality and quantity in the Danube River Basin Igor Liska, International Commission for the Protection of the Danube River (ICPDR), Austria
11:20 - 11:40	Recent developments in the ICPR sediment management activities in the Rhine basin Martin Keller, Federal Institute of Hydrology, Germany
11:40 - 12:00	A basin-wide analysis identifying areas of risk in the Elbe watershed Susanne Heise, BIS/TU Hamburg-Harburg, Germany
12:00 - 12:20	Sediment transport in Norwegian rivers and antropogenic impacts. Case studies of importance to sediment management plans Jim Bogen, Norwegian Water Resources and Energy Administration, Norway
12:20 - 13:30	Lunch and poster session
	Aspects of sediment quality Chairman: Igor Liska, ICPDR, Austria
13:30 - 13:50	Sediment in the urban Mersey river basin, northwest UK: implications for basin-scale management and sustainability Kevin G. Taylor, Manchester Metropolitan University, UK
13:50 - 14:10	From monitoring to measures: Historical contaminated sediments in the Elbe river basin Ulrich Förstner, TU Hamburg-Harburg, Germany



Poster sessions, divided in 7 areas, open during all breaks:

Anders Jensen of the Environment Commission of CEDA

- 1. Urban sediment management
- 2. Surveys
- 3. Solutions
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EC Best Paper 2008 Award

Closure and adjourn

7. River Basin Management

Friday 30th May 2008: Extra workshop 'Sustainable Sediment Management'

organised by the Dutch project-team of 'Living with Sediments'

On Friday 30th May 2008 the 'Living with Sediments' project team organises an extra session that will focus on a system approach to sustainable sediment management. To make this system approach more clear the perspective will be used of the concept of resilience, which is 'the capacity of a system, like a society or an ecosystem, to deal with change and continue to develop'. In this context, 'a resilience perspective provides a new way of addressing and analysing issues of governance and management of social-ecological systems'.

For more information on the concept see the website of the Stockholm Resilience Centre: http://www.stockholmresilience.su.se/).

Venue of this event is NGI, Sognsveien 72, Oslo.

For detailed workshop contents and/or registration for this workshop we refer to the separate program on www.sednet.org



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The fee for participation is:

- SedNet conference 27th-29th May 2008: Euro 300
- Workshop "Living with Sediments" on 30th May 2008:
 - * for participants of the SedNet conference: Euro 50
 - * for others: Euro 100

The fees include coffee/tea breaks, lunches, reception on day 1, excursion to the Oslo fjord and conference dinner on day 2. VAT is not included. The conference fee must be paid to the SedNet Secretariat upon receipt of an invoice.

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Piet den Besten, Centre for Water Management, The Netherlands Gijs Breedveld, Norwegian Geotechnical Institute, Norway Jos Brils, Deltares, The Netherlands Marc Eisma, Port of Rotterdam Authority, The Netherlands Audun Hauge, Norwegian Geotechnical Institute, Norway Susanne Heise, TU Hamburg-Harburg, Germany Peter Heininger, Federal Institute of Hydrology, Germany Igor Liska, ICPDR, Austria Hans-Peter Nachtnebel, University of Vienna, Austria Axel Netzband, Hamburg Port Authority, Germany Sue White, Cranfield University, UK

For more information please contact SedNet Secretariat: internet www.sednet.org

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Reception at the Oslo City Hall on 27 May 2008 from: 18:00 - 20:00 hrs.