

Tuesday 28 September

Hall 4 (ground floor)

09:00 **OPENING CEREMONIES**
10:00 Chair: Wurpts R, Chairman WODA, President CEDA

08:50 Guests and delegates to be seated in Hall 4

09:00 **Welcome to WODCON XVII:** Wurpts R, Chairman WODA, President CEDA
Opening address: Senator Uldall G, Minister for Economic and Labour Affairs of the Free and Hanseatic City of Hamburg
Welcome to Hamburg: Dücker H P, Head of the Department of Port and River Engineering, Hamburg /State Ministry for Economic and Labour Affairs, Port and River Engineering, Germany
Welcome to Germany: Nagel R, State Secretary, Federal Ministry of Transport, Building and Housing, Germany

10:00 **COFFEE / TEA: Hall 5 & Entrance hall (ground floor)**

Hall 4 (ground floor)

Hall 6 (ground floor)

Hall 8 (1st floor)

10:30 **SESSION A1: DREDGING AND ECOLOGY**
12:30 Chair: Bergman H, Germany

SESSION B1: MORPHOLOGICAL EFFECTS OF DREDGING
Chair: Pasche E, Germany

10:30 **The fate of benthic fauna at disposal sites. A comparison of sites in German estuaries and embayments.** Leuchs H, Wetzel M A, Büttner H and Koop J H E, Germany

Study on the dredging of navigation channel in North Passage after the construction of the first stage of Yangtze Estuary Deepwater Channel Regulation Project. Zhang Hua, China

10:50 **Dredging impacts on sea turtles in the southeastern USA: A historical review of protection.** Dickerson D, Wolters M, Theriot C and Slay C, USA

Sediment dynamics in the Elbe estuary and the improvement of maintenance. Eichweber G, Germany

11:10 **Equipment and operational modifications for hopper dredges to reduce impacts on sea turtles in the southeastern USA.** Clausner J E, Dickerson D, Dasilva A and Banks G, USA

A dredging and disposal strategy for managing the Western Scheldt's morphology and ecology. Meersschaet Y M A, Parker W R, Peters J J and Plancke Y M G, Belgium

11:30 **The morphological, environmental changes and stability of the sea and riverbeds linked with harbour dredging.** Nair C K, Joseph T and Paimpillil J S, India

Relocation of dredged material in German waterways - economical, hydrological and ecological aspects. Meesenburg S, Germany

11:50 **Sand extraction in the Wadden Sea National Park (northern Germany): environmental impact and recovery.** Schuchardt B, Scholle J, Dau K and Brandt T, Germany

Environmental impacts of dredging in the Niger Delta; options for sediment relocation that will mitigate acidification and enhance natural mangrove restoration. Ohimain E, Nigeria

12:10 **Ecological perspectives of marine sand extraction in the Netherlands.** Dalfsen J A van, Phua C, Barretta M and Akker S van den, The Netherlands

Study on fine sand movement laws under co-existing wave and current conditions. Zhao Chong-jiu and Xu Jia-shuai, China

12:30 **LUNCH: Hall 5 (ground floor) & Restaurant Kranzler (1st floor)**

14:00 **SESSION A2: DREDGING IN SENSITIVE ENVIRONMENTS – PART 1**
15:20 Chair: Nella P, Australia

SESSION B2: TREATMENT OF SEDIMENTS
Chair: De Vlieger H, Belgium

14:00 **Building of the new National Opera House on contaminated sediments in Oslo Harbour, Norway.** Sivertsen A, Eggen A, Breedveld G D, Bjordal R and Hauge A, Norway

Treatment and beneficial use of dredged sediments from Port of Hamburg. Detzner H D and Knies R, Germany

14:20 **Turbid views on dredging projects.** Klis P A van der and Bogers P, The Netherlands

Soil separation method to recycle dredged sand and soil. Mineyosi T, Japan

14:40 **The environmental impact of Yantian Port Dredging Project - Phase II.** Tan X and Fang C, China

Effective utilization of sediment contaminated by heavy metals using high-pressure dehydrated purification technology. Shirakawa T, Japan

15:00 **Large-scale pilot for treatment of contaminated dredged material in The Netherlands.** Graaf W de, Steeg H van and Hakstege A L, The Netherlands

15:20 **COFFEE / TEA: Hall 5 (ground floor)**

Please note: To allow delegates to move between technical sessions the timetable will be strictly adhered to.

TECHNICAL SESSIONS

Tuesday 28 September

| | Hall 4 (ground floor) | Hall 6 (ground floor) | Hall 8 (1 st floor) |
|----------------|--|--|--------------------------------|
| 15:50 17:10 | SESSION A3: DREDGING IN SENSITIVE ENVIRONMENTS – Part 2 Chair: Welp T, USA | SESSION B3: MANAGING SEDIMENTATION Chair: Vellinga T, The Netherlands | |
| 15:50 | Dredging near live coral. Bogers P, The Netherlands and Gardner J, UK | Back-silting in deep waterways in the Yangtze Estuary. Li Wen-zheng, Tan Ze-wei and Jin Liu, China | |
| 16:10 | Dredging and coral: a decision support system for managing dredging activities in coral reef ecosystems. Bray R N and Clark S, UK | Dredging inland waterways: The environmental and financial consequences of implementing EU Directives into UK Law. Smith N A and Beckwith P R, UK | |
| 16:30 | Winter dredging of the Tracadie Two Rivers Waterway: A unique Canadian environmental window. MacKnight S, Gillis C and Losier D, Canada | Maintenance Dredging at Iffezheim barrage/river Rhine, Germany: - Dredging problems in the Upper Weir Bay of the Iffezheim Barrage. Huber J, Polschinski M and Seidenkranz U, Germany - Environmental aspects of the sediment transfer across the Iffezheim barrage, River Rhine, Germany. Köthe H, Vollmer S, Breitung V, Bergfeld T, Schöll F, Krebs F and Landwüst C, Germany - Reduction of the sedimentation at the Iffezheim barrage, River Rhine, Germany Schmidt A, Brudy-Zippelius T and Kopmann R, Germany | |
| 16:50 | Environmental risk assessment in dredging and dredged material management: results from the International Navigation Association (PIANC), work group 10. Cura J, USA; Burt T N, UK; Buceta J, Spain; Challinor S, UK; Kevelam D, The Netherlands; Manz W, Netzband A, Germany; Olin-Estes T, USA; Suzuki T, Japan; Gonzalez J, Spain | | |
| 17:10 17:40 | Annual General Meeting of CEDA | General Meeting of EADA | |
| 19:30 20:30 | Civic reception: City Hall, Rathausmarkt Coaches will run from and to: <ul style="list-style-type: none"> • Hotel Elysee and CCH (shuttle). First coach departs: 18:30 hrs. Last coach departs: 19:00 hrs. • Hotel Katholische Akademie (one return trip). Coach departs: 19:00 hrs (stops at the Renaissance Hamburg Hotel, Grosse Bleichen) Walking. For those who prefer to walk to the reception, guides will leave from the Hotel Elysee. The walk takes approximately 15 minutes. Departure: 19:00 hrs. Meeting point: Lobby of the Hotel Elysee. <ul style="list-style-type: none"> • Coaches depart from the City Hall back to the hotels: 20:45 hrs. | | |

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TECHNICAL SESSIONS

Wednesday 29 September – Environmental day

Hall 4 (ground floor)

08:30 SESSION A4: INTRODUCTION TO THE ENVIRONMENTAL DAY 10:00 Chair: Burt T N, UK

08:30 **Mind the Gap.** Burt T N, UK

Keynote

08:45 **Balanced environmental objectives and requirements in dredging projects.** Jensen A, Denmark

Thoughts from organizations

09:15 **PIANC – the work of Envicom.** Engler R, USA

09:30 **UNEP's Global Plan of Action.** Datta A, The Netherlands

09:45 **SedNet.** Vellinga T, The Netherlands

10:00 COFFE / TEA: Hall 5 (ground floor)

10:30 SESSION A5: GAPS AND REGULATIONS 12:20 Chair: Murray L, UK

Global

10:30 **The London Convention.** Vogt C, USA

Regional

10:50 **OSPAR.** Vivian C, UK

11:10 **European regulations, an overview.** Koethe H, Germany

11:30 **The EU Water Framework Directive - One year on.** Brooke J, UK

11:50 **Environmental windows and the precautionary principle: Does practice make perfect?** Clark D, USA

12:10 **Questions**

12:20 LUNCH: Hall 5 (ground floor) & Restaurant Kranzler (1st floor)

13:50 SESSION A6: GAPS AND BRIDGES – CASE STUDIES 15:10 Chair: Dobson J, Australia

13:50 **Data gaps and their resolution at a Superfund Sediment Site.** Costello M, Huls H, Hedblom E, Rogers T, USA and Kesteren W van, The Netherlands

14:10 **Managing tidal river systems.** Meire P, Belgium

14:30 **Kingston Container Terminal Channel Improvements Jamaica. Dredging of coral reefs.** Crockett V, UK

14:50 **How to go about major port developments in estuaries: learning lessons from Dibden.** Dodd A, UK

15:10 COFFE / TEA: Hall 5 (ground floor)

15:40 SESSION A7: PANEL LED DISCUSSION LEADING TO THE HAMBURG DECLARATION 17:15 Chair: Burt T N, UK

Panel members: Burt T N (CEDA, UK), Vogt C (WEDA, USA), Dobson J (EADA, Australia), Engler R (PIANC Envicom, USA) and Members of the CEDA ESC: Jensen A, Denmark; Murray L UK; Raalte G van, The Netherlands; Laboyrie P, The Netherlands; Bray R N, UK; De Vlieger H, Belgium

15:40 **Chairman's introduction.** Burt T N, UK

15:45 **Criteria for selection of parameters for control.** Jensen A, Denmark

16:00 **Selection of targets.** Murray L, UK

16:15 **Common sense monitoring.** Raalte G van, The Netherlands

16:30 **Common sense dredging.** De Vlieger H, Belgium

16:45 **A holistic approach to management of dredged material.** Laboyrie P, The Netherlands

17:00 **A philosophical look at the way we discuss the environment.** Bray R N, UK

17:15 **Signing of the Declaration ceremony**

Thursday 30 September

| | Hall 4 (ground floor) | Hall 6 (ground floor) | Hall 8 (1 st floor) |
|---|---|---|--|
| 08:30 10:30 | SESSION A8: DREDGED MATERIAL MANAGEMENT Chair: Paul J, France | SESSION B4: TRENDS IN DREDGING PRACTICES Chair: Randall R, USA | SESSION C1: DREDGING EQUIPMENT – PART 1 Chair: Ni F, China |
| 08:30 | Dredged material management: How to cope with the latest ecological, political and legislative constraints. Bergmann H, Germany | A review of capital and maintenance dredging trends in the UK. Burt T N and Murray L, UK | Efficient dredging with the underwater cutting wheel. Marburg C, Germany |
| 08:50 | 25 years dredged material policy in Hamburg. Netzband A and Werner G, Germany | Singapore: 40 years of dredging in a sensitive environment. Sun W and Burt T N, UK | Water injection dredging in estuaries characterised by sandy sediments - Experiences in the Weser estuary. Stengel T, Germany |
| 09:10 | The United States' National Dredging Team's Dredged Material Management Action Agenda for the next decade. Vogt C, Holiday B, Kim E and Madden M, USA | Keeping on the right side of Old Father Thames: Maintaining safe navigable depths in the Thames Estuary. Costaras M P and Bray R N, UK | Dredging techniques for contaminated sediment. Murota Y, Kurumada Y and Moriya N, Japan |
| 09:30 | Management and handling of contaminated sediments in The Netherlands. Laboyrie H P and Hakstege A L, The Netherlands | Evaluation of dredging activities in developing countries - overview of the Brazilian ports. Torres R and Calliari L, Brazil | Controlled submerged deposition of fine grained dredged sediment with various diffuser types. Mastbergen D R, Kesteren W G M van and Loman G J A, The Netherlands |
| 09:50 | The perspective of the Dutch-German Exchange (DGE) on sediment/dredged material management in Europe. Koethe H F, Germany and Besten P J den, The Netherlands | Dredging and dredge disposal and reuse in Ireland - a small island perspective. Harrington J R, Sutton S and Lewis A W, Ireland | Removal of a clay layer in a sand and gravel pit covering larger aggregate resources. Boor M O, The Netherlands; Ouwerkerk M R, USA and Toet V L, The Netherlands |
| 10:10 | Factors Affecting Disposal and Reuse of Contaminated Dredged Material. Otten M T, USA | The dredging market and environment. Yuan Yumin, China | Dredging and the disposal of fine sediments in a drinking-water lake. Vroege P, Cats M, Stroet R W, Hoofs R T A L and Jeroense M J, The Netherlands |
| 10:30 COFFEE / TEA: Hall 5 (ground floor) | | | |
| 11:00 12:20 | SESSION A9: MODELLING AS A PREDICTION TOOL Chair: Benali A, Morocco | SESSION B5: MEASUREMENT Chair: Bray R N, UK | SESSION C2: DREDGING EQUIPMENT – PART 2 Chair: C J Verkaik, The Netherlands |
| 11:00 | Water quality evaluation using Hydraulic Dredge Constituent Fate Modeling (HD-CFM), Bayou Rigaud, Louisiana, USA. Russo E and Mathies L, USA | Application of a new international protocol to measurement of sediment release from dredgers. Land J and Burt T N, UK and Otten H, The Netherlands | Efficient dredging: The next generation. Braadbaart J and Mourik M W, The Netherlands |
| 11:20 | Research on the effects of a scheme for sediment removal from the typical braided shoal of the middle Yangtze river. Chen Xiao-yun, Gao Kai-chun, Liu Huai-han, Huang Cheng-tao and Lu Ying, China | Real time quantification of relocated sediment using ADCP and OBS measurements. Aardoom J H and Mol J W, The Netherlands | Modern design of double wall dredge pumps. Rother M, Germany and Yousef B, The Netherlands |
| 11:40 | Transport, reactions and dynamics of heavy metals in contaminated marine sediments. O Larsen, Denmark | Density versus viscosity - A comparative study of the nautical bottom. Greiser N, Gamnitzer R, Rupp J and Wurpts R, Germany | Study on effectiveness of compressed air mixture conveyance as an assist method for cutter suction dredger Asia Maru No. 3. Iida H, Japan |
| 12:00 | Dredging in sensitive environments - Using smart models to manage costs and impacts. Fryar R, Botev I, Koskela R and Lee J, Australia | | Simple self-sinking sand bypass system. Noguchi H, Japan |
| 12:20 LUNCH: Hall 5 (ground floor) & Restaurant Kranzler (1st floor) – SPONSORED BY: IHC, The Netherlands | | | |

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TECHNICAL SESSIONS

Thursday 30 September

| | Hall 4 (ground floor) | Hall 6 (ground floor) | Hall 8 (1 st floor) |
|-------|---|--|---|
| 14:00 | SESSION A10: REMEDIAL DREDGING | SESSION B6: MANAGING DREDGING PROJECTS | SESSION C3: DREDGING EQUIPMENT: PART 3 |
| 15:40 | Chair: Mohan R, USA | Chair: Padman D, Malaysia | Chair: Vlasblom W, The Netherlands |
| 14:00 | Dredging in environmentally sensitive areas: remediation of the Chemiehaven, a heavily contaminated 'hot spot' in the Port of Rotterdam. Wit P de, The Netherlands | Piloting methodology for the management of maritime dredging operations. Gregoire P, France | Dredging equipment modifications for detection and removal of ordnance. Halkola H, Wild B, Welp T, Pollock C, Dickerson V, Brown L, Helms L, Sugiyama B and Green J, USA |
| 14:20 | Environmental dredging operations in The Netherlands : a functional approach. Chemiehaven Rotterdam and the Haringvliet Estuary. Berg N J, The Netherlands | The possible application of Formal Safety Assessment to Dredging Vessel Operations. Mink F J, Belgium | Sand load measurements in trailer suction hopper dredgers for beach and foreshore replenishments. Waard B J F de, The Netherlands |
| 14:40 | Remediation strategies for contaminated sediments in The Netherlands. Boer P de and Hakstege A L, The Netherlands | The computer-aided decision-making system for improving the working efficiency of dredgers. Tian junfeng, Gu ming, Liu reixiang and Zhu xiaoming, China | Floating breakwaters increase operating time for offshore beach nourishment dredging alternatives. Randall R and Koo B, USA |
| 15:00 | Habitat value considerations for sediment caps. Ludwig D, Barnes C, Garbaciak S Jr., Iannuzzi T and Mohan R, USA | Small scale dredging is NOT equivalent with small money. Boedt C, Narold E, Ooms K, Son C van, The Netherlands | On the conceptual design of large Cutter Suction Dredgers; Considerations for making choices. Overhagen J L van, Boor M, Kik A and Kramers C H M, The Netherlands |
| 15:20 | | Research on sediment dredging for urban eutrophic water body in Nanhu lake I (P.R. China). Zhang Yu-xi, Wang Xiao-yu, Feng Jian and Cui Bao-min, China | Seabed intervention with motion compensated grab. Maliepaard H R and Frumau J C L, The Netherlands |
| 15:40 | Visit SMM 2004 | | |
| 18:00 | Visit SMM 2004 | | |
| 19:00 | Congress dinner: Hotel Elysee, Spiegelsaal - Rothenbaumchaussee 10 | | |
| 23:00 | <p>SPONSORED BY: Department of Port and River Engineering, Hamburg /State Ministry for Economic and Labour Affairs, Germany</p> <ul style="list-style-type: none"> The coach will depart from the Hotel Katholische Akademie at 18:30. It will stop at the Renaissance Hamburg Hotel, Grosse Bleichen. Return to these hotels at 23:15. | | |

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TECHNICAL SESSIONS

Friday 1 October

| | Hall 4 (ground floor) | Hall 6 (ground floor) | Hall 8 (1 st floor) |
|----------------|--|--|---|
| 08:30 10:30 | SESSION A11: ADVANCES IN DREDGING TECHNOLOGY Chair: Rhee C van, The Netherlands | SESSION B7: CONFINED DISPOSAL FACILITIES Chair: Engler R, USA | SESSION C4: SELECTED CASE STUDIES Chair: Lin F, China |
| 08:30 | The wedge mechanism for cutting of water saturated sand at large cutting angles. Miedema S A and Frijters D D J, The Netherlands | Reclamation of dredged material and the end use of existing disposal facilities. Berger G and Hakstege A L, The Netherlands | Design and construction of an underwater bund built on dredged material in the Doeldock. De Preter H and Vandycke S, Belgium |
| 08:50 | Pipe size effect on hydraulic transport of Jumoonjin sand - Experiments in dredging test loop. Lee M S, South-Korea; Matousek V, The Netherlands; Chung C K and Lee Y N, South-Korea | Assessment of the suitability of the CDF option for the management of harbour sediment: an Italian case study. Mugnai C, Macchia S, Mela F, Ferrari S, Pilato F and Pellegrini D, Italy | Environmental monitoring of a dredging project Safer Fairways to Port of Gothenburg. Nipius K G, The Netherlands |
| 09:10 | Self excitation of concentration fluctuations in dredge pipelines. Talmon A M, The Netherlands | Influence of sediment characteristics on methane formation by dredged sediments. Gebert J, Gröngröft A, Maaß B and Köthe H, Germany | An introduction to the construction processes of the land reclamation works of Yangshan deepwater port Phase-I project. Liu Reyuan, Liu Huafeng, Tao Runli and Shi Feng, China |
| 09:30 | The development of a concept for accurate and efficient dredging at great water depths. Verheul O, Vercruyjsse P M and Miedema S A, The Netherlands | Long-term control of the effectiveness of the surface sealing system on the harbor sediment disposal site Hamburg-Francop Gröngröft A, Tresselt K, Berger C, Harms C and Maaß B, Germany | Land reclamation for the Airbus A380 site on extremely soft soils in the 'Mühlenberger Loch' within the River Elbe (Hamburg, Germany). Reiner J and Stadie R, Germany |
| 09:50 | Study on the feasibility of an active draghead for rock dredging. Sloot S F, Vlasblom W J and Gool V C van, The Netherlands | Plan for CDF 'Hollandsch Diep'. Sluijs W van der, Hakstege A L and Teulings L, The Netherlands | 1.8 million m3 beach nourishment project in Sri Lanka. Scheffer H-J, Germany; Perera H N R, Sri-Lanka; Ender K and Fröhle P, Germany |
| 10:10 | | The Ketelmeer: highly sophisticated remedial dredging. Hardeman H F, Herberg W van der and Spelt K, The Netherlands | Port 2000 - The extension of Le Havre Port in the Seine Estuary Environmental engineering accompanying and guiding the marine works Scherrer P, Galichon P and Hamm L, France; Tancre E, Bosschem E and Vandenbroeck J, Belgium |
| 10:30 | COFFEE / TEA: Hall 5 (ground floor) | | |
| | Hall 4 (ground floor) | | |
| 11:00 11:45 | CLOSING CEREMONIES Chair: Giersch D, Chairman WODCON XVII Executive Committee | | |
| | <p>Presentation of the IADC Best Paper Award: Gelder R van, President IADC Presentation of the DCA Best Paper Award: Taylor A, Chairman, WEDA Closing of WODCON XVII: Wurpts R, Chairman WODA, President CEDA</p> <p>The reins of WODA will be handed to WEDA, the organizer of WODCON XVIII</p> | | |
| 11:45 18:00 | Visit SMM 2004 | | |
| 12:00 | Departure Post Congress Tour | | |

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TECHNICAL SESSIONS

Tuesday 28 September – 1 October: Poster Papers

Foyer of Hall 4 (ground floor)

On Wednesday, 29 September, authors are requested to stand by their posters in the coffee and lunch breaks.

The research and manufacture of wear and corrosion resistance accessories of slurry pump for dredge.
Yuan Senlin and Liu Xiaofeng, China

New type of trailing suction hopper dredger with oil recovery equipment 'Hakusan'.
Noda N and Yamaguchi H, Japan

An Advanced Anti-Pollution Vessel 'KAIKI'
Okamoto H, Yabumoto N, Yano S and Yamama N, Japan

Components for dredging developments in gate valves.
Claassen L and Geer J v d, The Netherlands

Application of the technique of using sand-filled sacks in artificial lake Project.
Zhuang Huajin and Liao XianMing, China

Remediation of Tri-butyltin (TBT) contaminated sediments by means of a thermal treatment.
Goethals L, Janssens I and Ide G, Belgium

Novosol® process : Sediment stabilisation and valorisation.
Cauzzi N and Clément B, France; Kahale N and Depelsenaire G, Italy

Direct assessment of dredging impact in sensitive environments using Particle Tracking Technology.
Black K S, Athey S and Wilson P, UK and Evans D, Switzerland

Sediments contaminated with TBT : challenges, solutions & case study.
De Becker G and Eulaerts O, Belgium

Establishment of Dredging Technology Chair at Hohai University.
Ni F, China

Mobile dewatering of dredged sediments: a case study from Belfast.
Pensaert S, Belgium

Development of a strategy for maintenance dredging and relocation under the restrictions of a national park.
Manzenrieder H, Spingat F and Manzenrieder C, Germany

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