Alluvial and Deep Sea Mining

Advances in the Modeling of Vertical Hydraulic Transport by a Continuum Approach
Wijk, van J, MTI Holland B.V, Rhee van C, Delft University of Technology, Talmon A M, Deltares, the Netherlands;

Cutting through Hard Rock-Like Materials, a Review of the Process
Helmons R L J and Miedema S A, Delft University of Technology, the Netherlands;

Decision Making in Deep Sea Mineral Exploration - Current Practice and Existing Gaps
Wambeke T, Benndorf J and Buxton M, Delft University of Technology, Alvarez Grima M, IHC Merwede (MTI Holland), the Netherlands;

Porosity Calculation in Discrete Element Modeling of Sand Cutting Process
Chen X and Miedema S A, Offshore and Dredging Engineering, Delft University of Technology, the Netherlands;

Reduction of Energy Consumption when Using a Grab for Deep-Sea Mining Operations
Kuiper R J and Frumau J C L, SeaTools BV, Miedema S A and van Rhee C, Delft University of Technology, the Netherlands;

System Design for Sustainable Phosphate Mining Operations at the Chatham Rise

Environmental Issues

3D CFD Investigation into Pulsing as Mechanism to Cause Dredging Surface Plumes
De Wit L and Van Rhee C, TU Delft, the Netherlands;

A Critical Review of Lessons Learned after Nearly 3 Decades of Environmental Dredging in the USA
Doody J P, Gardner R, Mohan R, Anchor QEA, LLC, USA;

A Method for Identifying New Offshore Dredging Disposal Sites Based on Environmental Sensitivity
Harris K, HR Wallingford, United Kingdom;

Advantages, Benefits and Lessons of Regional Monitoring – A Case Study from the English Channel
Langman R and Lowe S, MarineSpace Ltd, United Kingdom;

Building with Nature Works!
van Raalte G, Vergeer T and Hof D, Royal Boskalis Westminster N.V., the Netherlands;
Carbon Neutrality? Blue Carbon Provides Opportunities for the Dredging Industry
Sansoglou P, European Dredging Association, Mink F, Interel European Affairs, Belgium, van der Klis P, Van Oord, the Netherlands;

Characteristics of Wastes Found during Dredging of Nakdong River in South Korea
Kim Y, Kang S W, Yoo D, Korea Institute of Construction Technology, Lee W, Kumoh Waterways Institute of Technology, South Korea;

Development of a Numerical Modelling Module for Dredging and Dumping in the COHERENS Software
Martens C, Flemish Government - Department of Mobility and Public Works, Breugem A and van Holland G, IMDC, Luyten P, MUMM, Rocabado I, Antea Group, Belgium;

Dredging and the Management of Historical Wrecks Through the Use of Exclusion Zones
Gribble J, Sea Change Heritage Consultants Limited, Lloyd Jones D, MarineSpace Ltd, Leather S W, PMSS, United Kingdom;

Dredging Works in the Westerschelde to Deepen the Navigation Channel and to Create Ecologically Valuable Areas; Status After 3 Years of Monitoring
Beirinckx K, Maritime Access Division, Flemish Government, Depreiter D and Sas M, Int. Marine & Dredging Consultants IMDC, Belgium, Like G J, Rijkswaterstaat, the Netherlands;

Environmental Dredging of Chromium Contaminated Sediments at Valdemarsvik, Sweden
Nollet H, DEME, Belgium;

Environmental Dredging Project “Remediation Ketelmeer-West” in the Ijsselmeer - the Netherlands
Dekker J S G, de Vries & van de Wiel, The Netherlands;

Environmental Monitoring and Control of Sediments around Dredging and Reclamation Works, Thames UK
Leggett D J and Read K Dredging International UK, Black K, Partrac, United Kingdom;

Far-Field and Long-Term Dispersion of Released Dredged Material
van Kessel T and van Maren B, Deltares, the Netherlands;

Flanders Bays: Smart Beach & Dune Nourishments to Achieve an Integrated and Sustainable Reinstatement of Beach Barrier Systems
Malherbe B, Jan De Nul Group Belgium, Defloor D, DEME, Belgium; Fordeyn J, Jan De Nul, the Netherlands;

Harbor Deepening in the Port of New York / New Jersey and the Value of Biological Monitoring
Wilber D, Bowhead Information Services, Gallo J and Alcoba C, U.S. Army Corps of Engineers, USA;

Historical Developments in the Scheldt Estuary and Interaction with Dredging Works
Taal M, Deltares, Cleveringa J, Arcadis, The Netherlands; Sas M, Int. Marine & Dredging Consultants IMDC, Belgium;

Impact of Human Interventions on Estuarine Dynamics: Towards a Regime Shift in the Scheldt?
Winterwerp H, Deltares, the Netherlands;
Installing Deep Water Artificial Fishing Reef Blocks
Yamamoto K, Tomac Corporation, Japan;

Measuring the Dredging Source Term: Methodologies in the Acquisition and Analysis of Field Datasets
Taylor J A, Lee M W and Middlemiss D S, HR Wallingford Ltd, United Kingdom;

Modeling Plume from Pipeline Discharge of Dredged Material
Kim S C, Schroeder P R, Gerald T, Lackey T and Gailani J, US Army Corps of Engineers, Engineer Research and Development Center, USA;

Monitoring of Dredger Plumes Using Multibeam Echosounder
Brett C, Lee M, Dearnaley M and Taylor J, HR Wallingford, United Kingdom;

Monitoring System of the Environmental Quality of the Sediments Derived from Dredging Activity
Moraes e Sousa M E S and Fialho G O, GARTA/COPPE/UFRJ, Brazil;

Numerical Study of the Transport of Resuspended Dredged Sediment Near Coral Reefs at Apra Harbor, Guam
Lackey T, Gailani J, King D, Shafer D and Richmond R, US Army Corps Engineer Research and Development Center, USA;

Physical Modelling of Influence Factors on Overflow Plume Behaviour
Decrop B and Sas M, IMDC, De Mulder T, Hydraulics Laboratory, Ghent University, Toorman E, Hydraulics Laboratory, Catholic University Leuven, Belgium;

Port of Lisbon Maintenance Dredging in a Sensitive Environmental System
Sá Pereira T and Silveira Ramos R, Port of Lisbon Authority, Portugal;

Randle Reef Remediation, Hamilton Harbor, Canada - Status Update
Santiago R, Graham M, Hartman E and An S J, Environment Canada, Canada;

Regime Shifts in Muddy Estuaries: Tidal Response to River Deepening and Embanking
Winterwerp J C, Delft University of Technology, Wang Z B, Deltares, the Netherlands;

Technology and Performance Associated with Environmental Sediment Dredging in the Northern Part of Taihu Lake,
Wang Q, Yang J and Li Z, CCCC Tianjin Drdeging Co. Ltd, China;

The Building with Nature Approach to Sediment Management in the Netherlands
Tonnon P K and Luijendijk A, Deltares, Mulder J, Deltares & University of Twente, the Netherlands;

The Design of Marine Monitoring Studies for Dredging Works: Principles and Practice
Lee M W, Dearnaley M P and Taylor J A, HR Wallingford, United Kingdom;

The UK Marine Aggregate Regional Environmental Assessment – an Effective Model for Regionalised Dredging Areas Worldwide?
Lloyd Jones D and Reach I, MarineSpace Ltd, Powell M, South Coast GIS Ltd, United Kingdom;
The Use of Encapsulated Sand Elements for Beach Protection
Zengerink E and ter Harmsel M, TenCate Geosynthetics, the Netherlands; Koffler A, Albert Koffler, France;

Understanding Palaeolandsapes – Effective Heritage Management for Dredging
Lloyd Jones D, MarineSpace Ltd, Gribble J, Sea Change Ltd, Leather S, PMSS Ltd, United Kingdom;

Use of Bioremediation as a Pre-Dredge Treatment of Natural and Man-Made Bodies of Water to Reduce Organic Sediments
Elliott R, MacDonald Bedford, LLC and SEEK Enterprises Inc., Krupka M and Dent D, Ecological Laboratories Inc., USA;

Wrecks and Unexploded Ordnance: Potential Synergies in Pre-Dredge Seabed Assessment
Gribble J, Sea Change Heritage Consultants Ltd, Lloyd Jones D, MarineSpace Ltd, Leather S W, PMSS, United Kingdom;

YH Bay Clean-Up Project Involving Marine Sediments in Busan, South Korea
Kim S H, Choi K Y, Kim K and Hong G H, Korea Institute of Ocean Science & Technology, South Korea

Management and Economics

An Overall Applicable General Strategy for Optimizing Maintenance Dredging Works, a Case Study for the Port of Bayonne
De Wit K, IMDC, Belgium, Fages S, Conseil Régional Aquitaine, France;

Dealing with Price Fluctuations in Dredging Contracts
Roukema D C, Blue Pelican Associates BV, the Netherlands, Kinlan D G, Kinlan Consulting Pty Ltd, Australia;

Development, Implementation and Results of Cutter Suction Dredger Operator Competence and Certification System (DOCS)
Zhou L Y, Guangzhou Dredging Company, China; Ooijens S C, Beaver Dredgers, IHC Merwede, Roosendaal L A and Shi W, Training Institute for Dredging, the Netherlands;

Research on Dredging & Silt Reduction for the three Georges Reservoirs Backwater Area and the Utilization of the Silt Resource
Hu X, Hubai Changjiang Dredging Engineering Co. Ltd., China;

Research, Development and Application of a Portable Dredging Measuring System
Sun J and Shi Y, Nanjing Fairway Management, China;

Study and Application for High-Precision Excavation by a Grab Dredger
Cao X B, Chen L and Liu G S, CCC Guangzhou Dredging Co. Ltd, China;

Study on Creation of a Standardized Dredging Fleet and its Operating Practice
Xiao D and Wen J, CCC Guangzhou Dredging Co Ltd., China;

The Application of Three Dimensional Geological Modeling in a Dredging Project
Wang Y, CCCC Tianjin Dredging Co Ltd, China;
Management of Sediments

20 Years from Nuts and Bolts to a Sustainable Management of Contaminated Sediment - European Overview
Callaert B, Envisan (Jan De Nul Group), Belgium, Boeri C, Jan De Nul Italia SpA, Italy, Glaser D, Envisan France SAS, France;

Application of Fine Grained Organic Dredged Materials in Dike Construction – Results from Laboratory and Large Scale Field Tests
Cantré S, Nitschke E, Große A K and Saathoff F, Universität Rostock, Henneberg M, Steinbeis Transferzentrum Angewandte Landschaftsplanung, Germany;

Challenge of a 10,000m distant Discharge of Sand-- Embodiment for Management of a 8527 Cutter Suction Dredger
Liu Z, Xu Z and Duan X, CCC Guangzhou Dredging Co. Ltd, China;

Challenges of Sediment Management in the Port of Hamburg
Röper H and Netzband A, Hamburg Port Authority, Germany;

Development of Preliminary Pier I v Capex and Opex Dredging Plan
Vale Ponta Da Madeira Export Facility, Sao Luis
Delaure S, W.F.Baird & Associates Ltd., Oman; Nairn R, Dibajnia M and Qimiao L, Baird, Canada; Fournier C P, Baird, Chile;

Dredged - Material Disposal along Interior Rivers of the United States - Contributions to the Recovery of a Federally Listed Bird Species
Fischer R and Lott C, US Army Corps of Engineers, Engineer Research and Development Center, USA;

Dredging and Sediment Treatment for City Reservoirs
Fan G, CCCC Guangzhou Dredging Co.Ltd., China;

Dredging for Flood Management in River Systems: Opportunities and Dilemmas
Hakstege P, Rijkswaterstaat Centre for Infrastructure, Ministry of Infrastructure and Environment, the Netherlands;

High Speed Dewatering of Ultra-fine Sediments
Hodges M and Shobrook C, Genesis Water, Inc., USA;

Human Health Risk Assessment Guidance for Dredging and Dumping at Sea of Marine and Estuarine Sediments
Droit J, CETMEF, Bataille T, Port Autonome de Guadeloupe, Delouis A, GEODE / GPM Nantes Saint Nazaire, France;

Integrated Assessment of Sediment and Biota Quality: a Case Study in an Italian Lagoon
Carere M, Cicero M R, Lacchetti I, Scenati R, Beccaloni E, Italian Institute of Health, Italy;

Investigation and Implementation of Sediment Remediation at the An-Shun Remediation Site, Tainan City, Taiwan
Land Reclamation Using a Mixture of Dredged Soil and Converter Slag
Matsumoto A, Penta-Ocean Construction Co.Ltd., Japan;

Mobile Waterbased Treatment of Contaminated Sediments in the Walloon Region
Dawir M and Van Renterghem B, Envisan NV, Belgium;

Monitoring the Contribution of a Pilot Shoreface Nourishment to the Maintenance of Coastal Safety in Belgium
Delgado R, Dan S and Verwaest T, Flanders Hydraulics Research, Trouw K and De Wolf P, Agency for Maritime and Coastal Affairs, Belgium;

Morphologic Management of Dredged Material: Impact on Large Scale Tidal Dynamics and Meso Scale Ecology
Dam G, Svasek, Cleveringa J, Arcadis, Kuijper K, Deltares, the Netherlands; Plancke Y, Flanders Hydraulics, Belgium;

Settling Characteristics of the Dredged Sediments from the Four Major Rivers Restoration Project in South Korea
Kim Y, Ahn K Y, Kim S, Korea Institute of Construction Technology, Lee W, Kumoh Waterways Institute of Technology, South Korea;

Slurry Transport Software Development for Optimization of the Dredging Process
Wu Y, CCCC Tianjin Dredging Co Ltd, China;

Solindus Experimental Dredged Sludge Treatment Platform: A Versatile Solution for Sediment Treatment and Clay Flocculation
Couturier F and Duchadeau A, SNF, France; Brequel H, Gineys N and Urbain F CTP-EMRA, Belgium;

Soil Decontamination and Soil Volume Reduction Technologies for Benthic Sediment in Lakes
Enomoto T, Toyo Construction Co.Ltd., Japan;

Soil Washing Techniques for Sediment Dewatering and Sand Recycling
Pensaert S, DEME, Belgium;

The AMORAS Project: Dewatering and Reuse of the Antwerp Port Sediments

The Art of Screening: Effectiveness of Silt Screens
van der Goot F and Rijks D, Boskalis, de Wit L, Svasek Hydraulics, Radermacher M, Delft University of Technology, the Netherlands;

The Expansion of the Botlek Tank Terminal Area: a Sustainable Solution in the Port of Rotterdam
Laenen K and Broos E, Port of Rotterdam, Jumelet D, de Schutter I and Plate S, De Vries & van de Wiel, Kust- & Oeverwerken, the Netherlands;

Towards a Comprehensive Design for Silt Screens in Open Configuration – from the Hydraulics Perspective
Vu T T, Nanyang Technological University, Singapore;

**Turbidity Caused by Spillage from Dredging/Mining Transverse Axis Cutter**
Sarkar M and Bose N, Australia Maritime College, University of Tasmania, Chai S, School of Health Sciences, Uni of Ballarat, Australia; Dowling K, SAIPEM, United Kingdom;

**Use of Fibers Waste in Sediments Stabilization/Solidification**
Levacher D, Liang Y and Khadraoui S, Caen University, France;

**Using Waste Products as Building Material for Landfill Closure and Construction of a Sediment Treatment Plant**
Pallemans I, Van Zele S and Nachtergaele K, Envisan, Belgium;

**Working with Nature: Applying the Philosophy to Maintenance Dredging**
Brooke J, Jan Brooke Environmental Consultant Ltd, United Kingdom;

### Methods, Equipment & Techniques

**20 Years of Large Scale Sediment Treatment at the METHA-Plant, Hamburg**
Detzner H D, Hamburg Port Authority, Germany;

**A Head Loss Model for Slurry Transport Based on Energy Considerations**
Miedema S, Delft University of Technology, Netherlands, Ramsdell R C, Great Lakes Dredge & Dock Company, United States;

**A New Type of High Soft Foundation Processing Equipment and Associated Technology**
Li J, CCCC Tianjin Dredging Co Ltd, China;

**A Pinpoint Underwater Grab Bucket Navigation System (PUGNAVI) Applied to Restoration Work for the Tohoku Earthquake**
Fujiyama E, Shinko Construction Co.Ltd., Japan;

**A Study on the Standard Operation of the Cutter Suction Dredger in a Dredging Project**
Gao W, Li D and Liu H, CCCC Tianjin Dredging Co Ltd, Tian J, China Comunication Institute Co. Ltd, Li X, Tianjin Normal University, China;
A Validated Tool for Evaluating the Design and Predicting the Workability of Dredgers
Hannot S D A and Los J G, MTI Holland, Kruiswijk A B and Spaendonk B A W, IHC Dredgers, Krijger A C L, IHC Beaver Dredgers, the Netherlands;

An Application of Mobile Typer Grab Bucket Barging Method for Cutter Suction Dredger in Channel Rock Dredging Engineering
Cheng C, Shi J, CCCC Tianjin Dredging Co. Ltd, China;

An Overview of Theories Describing Head Losses in Slurry Transport
Ramsdell R, Great Lakes Dredge & Dock Company, USA, Sape M, Delft University of Technology, the Netherlands;

Application of 200 M³ Large Grab Dredger to Soil with Complicated Properties
Wang X, CCCC Guangzhou Dredging Co.Ltd., China;

Aquapuncture: Adaptation & Optimal Use of Inland Waterways and their Waterfronts
Waterman R, Ministry of Infrastructure & Environment, Brouwer J A, Soeters van Eldonk Architects, the Netherlands;

Constructing the Shields Curve Part C: Cohesion by Silt, Hjulström, Sundborg
Miedema S, Delft University of Technology, the Netherlands;

Construction of a Perimeter Bund Using the PM-CLAY Method
Saitoh T, Tao Corporation, Japan;

Design and Construction of Artificial Island of Satah Al Razboot Oil Field
Vinck K, Mol A, Dredging International, Belgium, Carnevale S, SIDRA, Italy;

Development of a Plough-Shaped Tooth
Qiming L, CCCC Key Laboratory of Dredging, Shanghai, Feng L, CCCC Shanghai Dredging Co. Ltd, China;

Developments in Mining Equipment and Pumps for Subsea Deposits
Kapusniak S, Specialist Machine Developments, Winkelman M, Damen Dredging Equipment, the Netherlands;

Discussion on the LNG Application in Dredging and the Development Prospects in the Field
Wang J and Dong B, Kunlun Energy Investmant, Shangdong Co. Ltd, China;

Estimating Production and Booster Pump Location for Long Distance Pumping
Randall R, Yeh P and Augur C, Texas A&M University, USA;

Experimental Study on Applying Hydrocyclone for Improving the Construction Efficiency of Trailing Suction Hopper Dredger
Zhao T, CCCC Key Laboratory of Dredging, Shanghai, Lin F, CCCC Shanghai Dredging Co. Ltd, Jiang J, Shanghai Waterway Engineering Dredging & Consulting Co. Ltd, China;

Half a Century of Changing the Design of a Dredger: Market Pull or Technology Push?
de Bruijn A, de Graaff P C, Verkaik C J and de Groot J W, IHC Beaver Dredgers, the Netherlands;

How Much Does the Current Deflecting Wall Reduce Sedimentation in Deurganckdok, Port Of Antwerp
Decrop B and Sas M, Int. Marine & Dredging Consultants IMDC, Roose F, Maritime Access Division, Flemish Governemnet, Belgium;

Improving the Capacity of Altamira Port (Mexico) by Dredging
Verdugo I, Iribarren J R and Cal C B, Siport21, Spain;

Innovative Free Fall Sediment Profiler for Preparing and Evaluating Dredging Works and Determining the Nautical Depth
Geirnaert K, Staelens P and Deprez S, dotOcean NV, Belgium

Latest Developments in Dredge Pump Technology
Bugdayci H H, IHC Parts & Services B.V., Grinwis H and Munts E, MTI Holland BV, the Netherlands;

Less Is More: Optimizing Manpower and Reducing Fuel Consumption while Increasing Dredging Production
Osnabrugge J and van den Bergh P M, IHC Systems, the Netherlands;

Maintenance Dredging in Ponta da Madeira Maritime Terminal
Gagladiano de Moraes D and Loureiro Monteiro R F, Vale, S.A., Brazil;

Maintenance Dredging of the Highly Polluted, Industrial Canal Ghent-Terneuzen towards a Cleaner Environment with Maximum Re-Use of Treated Materials
Pallemans I, Pynaert K, Van Zele S and Nachtergaele K, Envisan, Belgium;

Model for Estimating Bucket Dredging Residuals
Hayes D, University of Nevada, Las Vegas, Tiwari P K, University of Louisiana at Lafayette, USA;

Monitoring and Control System for Dredging Works – 10 Years of Experiences in the Port of Hamburg
Jonas C, Voigt J and Martensen C, Hamburg Port Authority, Germany;

Monitoring the Consolidation Process of Mud from Different European Ports in a Test Facility by Using a Sediment Profiler
Geirnaert K, Staelens P and Deprez S, dotOcean NV, Belgium;

Numerical Simulation of the Current Drag Forces on the Hull of a Cutter Suction Dredger
Xu L, Engineering Research Centre, Dredging Technology, Hebai University, Zhang P, Ni F, Zhao L, Gu L, Jiang S and Li H, Hohai University, China;

Numerical Simulation of Hydrodynamical Behaviour of Sand Water Mixtures
Goeree J C, TUDelft/MTIHolland, van Rhee C, TUDelft, the Netherlands;

Numerical Simulation of Motion Trajectory of Sediment Particles in Dredge Pump
Guojun H, CCCC Key Laboratory of Dredging, Shanghai, Ji A J, Shanghai Waterway Engineering Design & Consulting Co.Ltd., Guo L Y, Shanghai Jiaotong University, China;

Numerical Simulation of Sand-Water Two-Phase Flow and the Performance Prediction of a Dredge Pump
Ni F, Engineering Research Centre, Dredging Technology, Hebai University, Xu L, NI Y and Wang H, Hohai University, China;

On Self-Emptying at High Discharge Mixture Densities
de Nijs M, Van Oord, The Netherlands;

**Optimizing Drive Train Design for TSHD's Using Dynamic Simulation Models**

**Process Nemeau**
Mancioppi L and Dhervilly P, Sedigate, Levacher D, University of Caen, France;

**Provision for Geologic Investigation in Capital Waterway Dredging Engineering in China and Its Peculiarities**
Dafu C, Ming B, Huaihan L, Jun Z Z, Wei X, Qinhua L and Lijia S, Chiangjiang Waterway Planning Design & Research Institute, China;

**Rebirth of the Izmir Bay (Turkey) by Dredging**
Gokdeniz N, The Metropolitan Municipality of Izmir, Turkey;

**Restratification in Hydraulic Transport: Is It a Bend Effect?**
van Fulpen M L, Brouwers R J P and Talmon A M, Delft University of Technology, Faculty 3Me, the Netherlands;

**Significant Reduction in Dredging Costs Using a Non-Nuclear Density and Mass Flow Meter for Slurries with or without Entrained Gas**
Batey R, Sciam Worldwide, USA;

**Simulation of Flow Behavior of Particle-Laden Flow through a Dredging Pump**
Konijn B and Kruyt N P, University of Twente, the Netherlands;

**Solution for Low Frequency Vibrations on Cutter Suction Dredgers which Occur while Cutting into Hard Soils and Rock**
van Ramshorst D J, LOGGERS BV, de Bruijn A, IHC Merwede, de Bruin R, van Oord, the Netherlands;

**Study on Combined Dredging Concept for a Twin-Hull Trailing Suction Dredger with Self-Propelled Barges**
Yang Z, China Dredging Association CHIDA, Liu H S, Marine Design & Research Institute of China, Feng F, CCCC Shanghai Dredging Co Ltd, Fei L, Marine Dredging Research Institute, China;

**Study of Fine Slim Loading Characteristics for a TSHD Based on CFD**
Yang Z and Qin L, CCCC Tianjin Dredging Co.Ltd., Li Z and Gao W, CCCC Tianjin Port and Waterway Research Institute, China;

**Successfull Approach to ‘Keep the Sediment Navigable’ in Port of Delfzijl**
Kamphuis J, Groningen Seaports, Meinsma R, Wiertsema & Partners, the Netherlands;

**The Realization of a Current Deflecting Wall in Estuarine Conditions (Salinity Gradients) to Reduce Sedimentation in the Tidal Deurganckdok, Port Of Antwerp**
Roose F and Meersschaut Y, Maritime Access Division, Flemish Governement, Sas M, Int. Marine & Dredging Consultants IMDC, Belgium;

**The Use of Engineered Sediments for the Construction of a Compartment Dike in the Controlled Flooding Area Vlassenbroek**
Van Renterghem B and Vermeersch T, Jan De Nul Group, Van Nederkassel J and Joos P, Envisan NV, Quaeyhaegens H, Waterwegen en Zeekanaal NV, Belgium;
Towards a Faster and Cleaner Fairway Maintenance of Dutch Rivers
Talmon A, Deltares, Sieben J, Rijkswaterstaat, the Netherlands;

Tremie / Diffuser Application for Controlled Disposal of Course and Fine Sediments
Sittoni L, van Kesteren W, Talmon A, Deltares, the Netherlands;

TSHD Mud Pump - Working Condition Analysis

Regulatory Issues

Connecting Client and Contractor Is an Art in Dredging!
Schouten G, Dutch Marine Engineering B.V., the Netherlands;

Dredged Sediment Management in Italy
Peres F, B&P Avvocati, Italy;

Licensing Navigation Dredging - Developing a Proportionate, Risk-Based Approach
Basford K and Clay N, Royal HaskoningDHV, Birchenough A, Cefas, United Kingdom;

Marine Aggregate Dredging in a Natura 2000 European Marine Site – In-Combination Effects with a New Industry
Reach I S and Lloyd Jones D, MarineSpace Ltd, United Kingdom;

The Impact of the Scheldt Treaties on Dredging and Disposal Management
Meersschaut Y, Maritime Access Division, Flemish Government, Belgium;

Welp T, U.S. Army Engineer Research & Development Center, USA;