



9 November 2011
PRE-EVENT TECHNICAL VISIT



Second Announcement / Programme and Registration



CEDA DREDGING DAYS 2011

10-11 NOVEMBER

Ahoy Rotterdam, the Netherlands

DREDGING AND BEYOND
Conference and Exhibition

Organised by



Central Dredging Association

www.cedaconferences.org/dredgingdays2011

In conjunction with

EUROPORT 2011

connecting the maritime world

8-11 November 2011



INTRODUCTION TO THE CONFERENCE

Dredging is no longer a stand-alone exercise, but is rather becoming part of a broader, more integrated project realization process. The dredging industry is increasingly confronted with projects involving environmental protection, nature development, offshore energy production and mineral mining on the sea floor. We are no longer in the era of “Dredging and nothing but dredging”, we are in the century of “Dredging and beyond”. The CEDA Dredging Days 2011 will focus on two main areas where this integrated dredging approach is emerging:

- **Dredging and rock dumping for the offshore oil and gas industry and deep-sea mining**
- **Building with nature for soft and hard dredging solutions (coastal and inland)**

Combining the strengths and knowledge within the dredging profession with that within the partnering fields in the above areas presents an enormous innovative potential. CEDA Dredging Days 2011 will bring together a multidisciplinary group of experts to present the newest results of their cooperation and to discuss new requirements and opportunities for improvement.

WHO SHOULD ATTEND

The conference is aimed at practitioners, engineers and scientists representing:

- Coastal, port, water management and environmental authorities
- Dredging industry
- Oil and gas industry
- Mining industry
- Regulators
- Environmental organizations and conservation bodies.

VENUE AND DATES

CEDA Dredging Days 2011 Conference and Exhibition will be held alongside **Europort 2011 at the Ahoy Rotterdam Conference Centre (www.ahoy.nl) on 10-11 November 2011.**

An optional technical visit is organised on 9 November in the afternoon.

CEDA Dredging Days 2011 Programme

DAY 1

Thursday 10 November

SESSION 1 OPENING

- 09.00 **Opening remarks.** Anders Jensen, President CEDA, Femern Baelt, Denmark
- 09.05 **Introductory remarks.** Prof.Dr. Cees van Rhee, Chairman Technical Papers Committee, Delft University of Technology, The Netherlands
- 09.15 **Keynote address: Mining of deep-sea minerals - fundamentals and future perspectives,** Prof. Dr. Peter Halbach, Department of Earth Sciences, Free University Berlin, Germany
- 09.45 **Keynote address: Dredging opportunities in the Dutch offshore industry**
Hans P. de Boer, Managing Director, IRO, The Association of Dutch Suppliers in the Oil and Gas Industry, The Netherlands
- 10.05 **Young CEDA update.** Daan Rijks, Chairman of Young CEDA, Royal Boskalis Westminster, The Netherlands
- 10.20 **Coffee and tea**
served in the exhibition area

SESSION 2 BUILDING WITH NATURE: FROM LEGISLATION TO PRACTICE

- 10.50 **Marine works in the context of ecosystems processes**
Mink FJ, Interel European Affairs, Belgium
- 11.10 **Guidelines for ecodynamic design**
van Koningsveld M, Van Oord, The Netherlands;
van Raalte GH, Boskalis, The Netherlands
- 11.30 **Handling the knowledge challenge in building with nature projects; lessons from the pilot Sand Engine Delfland**
Janssen SKH, Deltares/Wageningen UR, The Netherlands
- 11.50 **Sediment and ecology: how to minimize impacts of dredging and create opportunities for restoration on tropical coasts?**
Bouma TJ, Jeuken MCJL and Erftemeyer PLA, Deltares, The Netherlands; Balke T, Deltares/ National University of Singapore; The Netherlands; Horstman EM, University of Twente/ National University of Singapore, The Netherlands; Dohmen-Janssen CM, University of Twente, The Netherlands; Friess DA, Galli D, Maryam S, Todd PA, Tuaibah J and Webb EL, National University Singapore, Singapore

12.10 **Lunch**

SESSION 3 DREDGING FOR THE OFFSHORE INDUSTRY

- 13.10 **Taking dredging precision to the extreme**
Osnabrugge J and Braaksma J, IHC Systems, The Netherlands
- 13.30 **Using life cycle analysis methodology to assess the sustainability of dredging equipment and its manufacturing processes**
Goncalves Castro MB, Holtkamp MJ and Ver-cruijse PM, MTI Holland, The Netherlands;
van Woerden D, IHC Beaver Dredgers, The Netherlands
- 13.50 **Installation of ADCOP offshore facilities: the ultimate combination of dredging and offshore contracting works**
Hesk P, Van Oord Offshore b.v., The Netherlands
- 14.10 **BritNed UK - Netherlands interconnector HVDC cable: pre-sweeping and rock placement to ensure accurate cable protection depths**
Vreys MMR, Tideway BV, The Netherlands
- 14.30 **Coffee and tea**
served in the exhibition area

SESSION 4 BUILDING WITH NATURE: MODELING & MONITORING

- 14.50 **Ecomorphological modeling of seabed and coastal zone**
Luijendijk AP, Tonnon PK, Ye Q and van Daltsen J, Deltares, The Netherlands
- 15.10 **Biogeomorphological interactions on a nourished tidal flat: lessons learned on building with nature**
Borsje BW, Deltares /University of Twente/ Ecoshape, The Netherlands; Ysebaert T, IMARES/NIOO-KNAW/Ecoshape, The Netherlands; de Mesel I, IMARES/Ecoshape, The Netherlands; Holzhauer H and Cronin K, Deltares/Ecoshape, The Netherlands; Hibma A, Ecoshape, The Netherlands
- 15.30 **Monitoring impact of land reclamation on siltation in an inland lake**
de Wit L and Bliet AJ, Svasek Hydraulics, The Netherlands; Frieling JH, Ingenieursbureau Amsterdam, The Netherlands
- 15.50 **Field tests and plume measurements in the Fehmarnbelt**
Bundgaard K and Brøker I, DHI, Denmark; Jensen A, Femern Baelt A/S, Denmark
- 16.10 **Coffee and tea**
served in the exhibition area

SESSION 5

CEDA ENVIRONMENT COMMISSION (CEC) IN THE SPOTLIGHT

- 16.40 **Update on the activities of CEC**
Laboyrie P, Chairman CEC, Witteveen+Bos,
The Netherlands
- 16.55 **CEDA Position Paper: Underwater sound**
Thomsen F, Chairman CEDA Working Group on
Underwater Sound, Cefas, United Kingdom
- 17.10 **CEDA Information Paper:
Climate change adaptation as it affects
the dredging community**
Hakstege P, Chairman CEDA Working Group on
Climate Change Adaptation, Ministry of Infra-
structure and Environment, The Netherlands
- 17.25 **Annual General Meeting of CEDA**
- 18.00 **CEDA Netherlands Reception**
- 19.00 **End of the day's programme**

DAY 2

Friday 11 November

SESSION 6

ACADEMIC SESSION

- 09.00 **Application of electrical resistance
tomography in a sand-slurry loop**
Talmon AM, Delft University of Technology/
Deltares, The Netherlands; Schut RA,
Delft University of Technology, The Netherlands
- 09.20 **Hydraulic transport of sediment**
Goeree JC, IHC Merwede, The Netherlands
- 09.40 **An investigation of the effects of screen
structures in the flow through and around
a silt screen**
Vu TT and Tan SK, Nanyang Technological
University, Singapore
- 10.00 **Analysis of a sediment management concept
for the Elbe Estuary by use of three-
dimensional numerical model**
Maerker C and Malcherek A, University of
the German Armed Forces Munich, Germany;
Weilbeer H, Federal Waterways Engineering
and Research Institute, Germany
- 10.20 **Analysis of dune ploughing
in coarse sediment**
Bots HCG, Offshore and Dredging Engineer,
The Netherlands; Talmon AM, TU Delft/
Deltares, The Netherlands; Sieben A, Rijkswa-
terstaat, The Netherlands
- 10.40 **Coffee and tea**
served in the exhibition area

SESSION 7

DEEP SEA MINING

- 11.10 **An experimental and numerical study to ver-
tical hydraulic transport for deep sea mining
applications**
van Wijk JM and Vercruijssse PM, MTI Holland
BV, The Netherlands; van Rhee C, TU Delft, The
Netherlands; Talmon AM, TU Delft/Deltares,
The Netherlands; Lucieer PA, IHC Merwede
DSDM, The Netherlands
- 11.30 **RoRo deep dredge system for offshore and
deep sea dredging**
Winkelman MO and van Duursen EA, Damen
Dredging Equipment, The Netherlands
- 11.50 **Hydraulic mining of coal at great water
depths**
Huijsmans MGM, Witteveen+Bos Raad-
gevende ingenieurs bv, The Netherlands
- 12.10 **Case study deep sea dredging and subsea
rock installation, Gorgon project (Australia)**
de Kok MBAM and de Ruiter K, Van Oord Off-
shore, The Netherlands
- 12.30 **Lunch**

SESSION 8

BUILDING WITH NATURE: CASE STUDIES

- 13.45 **Dredging works in the Westerschelde to
deepen the navigation channel and to create
intertidal areas**
Sas M, IMDC, Belgium
- 14.05 **Jadeweserport (JWP): construction of con-
tainer terminal in Germany under environ-
mental aspects**
Boot J and Langer J, Inros-Lackner AG, Germany
- 14.25 **Dredging in Panama and New Caledonia car-
ring for habitats from rainforest to coral reefs**
van Parys M, Schiettecatte W and Cras S, Jan
de Nul NV, Belgium
- 14.45 **Fehmarnbelt fixed link between continental
Europe and Scandinavia – Innovative tech-
nology to optimise mechanical
dredging operations**
Iversen C, Femern Baelt AS, Denmark
- 15.05 **Presentation of the IADC Best Paper Award**
Kolman R, IADC, The Netherlands
- 15.15 **Conference Chair's Closing Remarks**
van Rhee C, TU Delft, The Netherlands
- 15.30 **Farewell Drinks**

Please note: The CEDA Dredging Days 2011 Papers
Committee reserves the right to adjust or change the
programme as necessary.

ACADEMIC SESSION

CEDA has created the "Academic Session" within the technical programme of CEDA Dredging Days 2011 as part of its continued support of students and young professionals. University and college students and young professionals do not have to adhere to the conference themes and can present papers on any subject matter related to dredging.

IADC AWARD

The International Association of Dredging Companies (IADC) Award for a contribution to the literature on dredging will be presented for the best paper of the conference by an author under 35 years of age.

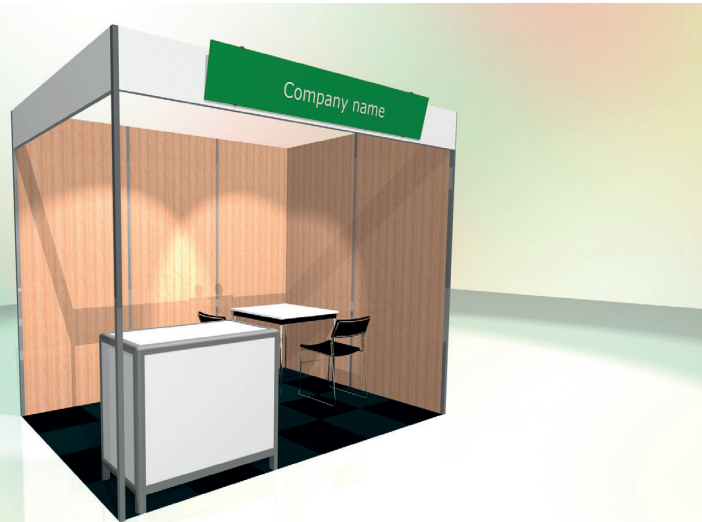
CONFERENCE PROCEEDINGS

All papers will be peer reviewed and published in the Conference Proceedings on a CD-ROM that will be available to all registered delegates at the start of the conference. Additional copies of the CD-ROM may be ordered at an extra cost (€ 95.00 for CEDA/EADA/WEDA members and € 129.00 for non-members; prices do not include packing and postage).

CEDA members will be able to download the proceedings free of charge from the CEDA Digital Library (to be operational later in 2011).

OFFICIAL LANGUAGE

English will be the official language of the conference.



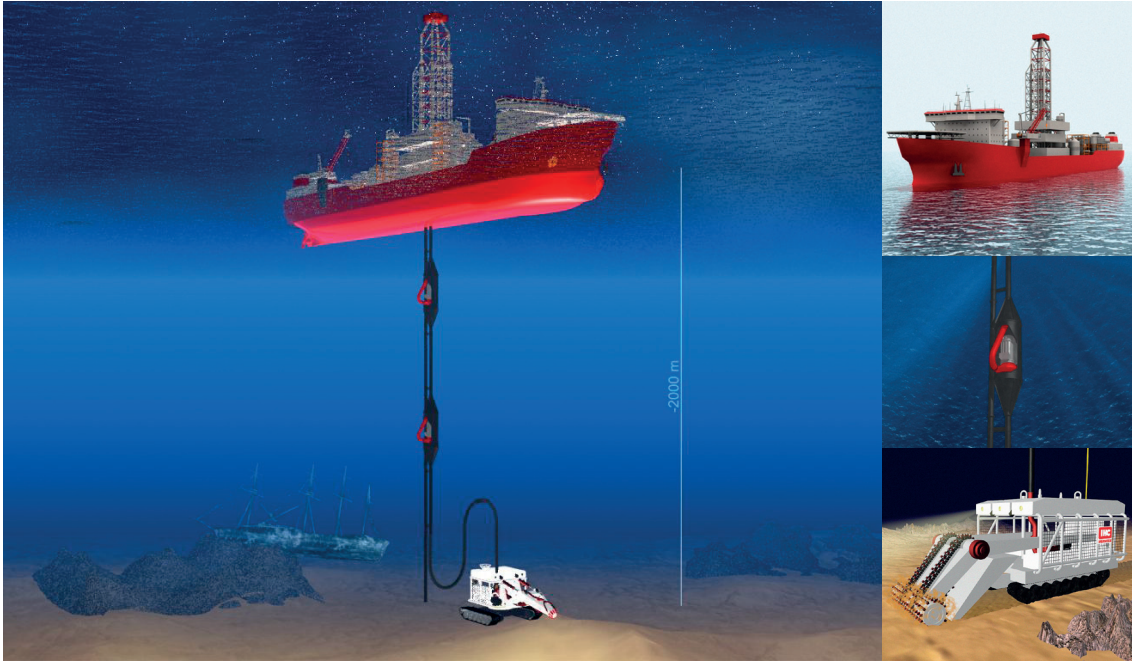
DREDGING EXHIBITION

To complement the conference, a technical exhibition will be located in the area adjacent to the technical session room. Coffee and tea in the session breaks are served in the exhibition area. The CEDA Netherlands Reception and the Farewell Drinks will also take place here. The central location of the exhibition area will provide organizations with an excellent opportunity to present their products and services to a select and focused group of international experts and decision-makers. The exhibition will be open to conference delegates throughout the conference on 10-11 November 2011.

The standard 6m² (2x3 m) stand fee is € 2,700.00 (excl. VAT). Corporate members of CEDA are offered a discount fee (30% discount) of € 1,900.00 (excl. VAT). The booking fee includes a fascia board (30 cm high) with company name, one table (80x80 cm), two chairs, one basic electrical outlet (220 V), two spotlights, two exhibition staff registrations (including lunch and refreshments during breaks) and company information (maximum 100 words) in the conference programme booklet. Only exhibition staff registered for the conference will be admitted to the technical sessions (please refer to the registration form.) The exhibition booth staff will be invited to the reception on Thursday evening and to the Farewell Drink on Friday afternoon.

Only a limited number of stands remain available at the time this brochure goes to press. Reservation of the exhibition booth should be made online on the conference website.

To request information please contact the CEDA Secretariat
(T: +31 15 2682575, ceda@dredging.org)



TECHNICAL VISIT

Wednesday, 9 November 2011
13.00 – 18.00 hours

IHC Merwede combines centuries of experience in dredging, mining and offshore technology to create technical innovations for customers. By continuous development of new technology the company seeks to meet the requirements of companies operating in the mining and offshore energy industries that are responding to the growing need for resources such as marine minerals and creating infrastructures in deep waters. Therefore, it is most appropriate for CEDA Dredging Days 2011 –with dredging for the offshore oil and gas industry and deep sea mining amongst the main topics– to include a visit to IHC Merwede hosted by its Deep Sea Dredging & Mining Unit in the programme.

The technical visit will take place on the shipyard in Kinderdijk. The aim is to ensure that participants will benefit the most from the visit. Participants will have the opportunity to visit the slipway where the construction of vessels takes place. If possible, a tour will also be made on one of the ships being constructed.

Participants will be given an insight to OceanfLORE, the joint venture between IHC Merwede and DEME for developing deep-sea mining activities. IHC Merwede will be responsible for the development and con-

struction of technical solutions, while DEME will be responsible for operations. OceanfLORE will provide services on basis of a cost per ton already known in the dredging industry, lowering the entry barrier of an ocean mining venture.

You must register for the tour in advance (please refer to the registration form). There is an extra charge for participation: € 50.00 (excl. VAT).

Please note: The number of places is limited to a maximum 50 persons and places will be allocated on a first-come-first-serve basis.

The coach will depart from Intell Hotels Rotterdam Centre (Schiedamsedijk 140, Rotterdam) at 13.00 hours and will return to the same hotel at approximately 18.00 hours. Please check the conference's website for up-to-date information. Participants registering for the visit will receive detailed joining instructions from the Conference Secretariat.

EUROPORT 2011
connecting the maritime world

The CEDA Dredging Days 2011 is being held in conjunction with Europort 2011, one of the world's most diverse maritime exhibitions, and taking place at Ahoy Rotterdam from 8-11 November. For further information please visit: www.europort.nl

STUDENT PROGRAMME 2011

The aim of this new CEDA initiative is to enable promising students to attend CEDA Dredging Days 2011. Under this programme CEDA offers a considerable number of free registrations to graduate and post-graduate students. These free registrations will be granted to students who have shown great affinity with dredging technology within their study. Organised and co-ordinated by Young CEDA, some 20 European universities and institutions of higher professional education will be offered three free registrations each.

Those students who haven't been accepted for the Student Programme 2011 can still attend CEDA Dredging Days 2011 at a significantly reduced rate of € 150.00 (excl. VAT).



CEDA NETHERLANDS RECEPTION

Thursday, 10 November 2011, 18.00 – 19.00 hours

This reception will follow the Annual General Meeting of CEDA on 10 November and will take place in the foyer of the Technical Session Room where

the Dredging Exhibition is located. Dredging Days delegates, exhibitors and partners and all CEDA members will be invited (Europort 2011 will be open until 22.00 hours on this evening).

ACCOMPANYING PERSONS' PROGRAMME

Thursday, 10 November 2011, 08.45 – 17.15 hours
The Hague; Binnenhof and Mauritshuis

Half an hour away from Rotterdam, on the North Sea coast, you find a unique city. Not only the residence of the nation's royal head of state and the government, but also the world's city of justice and peace: The Hague. In addition, The Hague has been synonymous with world class painting for centuries.

The programme includes a visit to the Binnenhof, the political centre of The Netherlands, as well as the Mauritshuis Museum (www.mauritshuis.nl) and Pulchri Studio (www.pulchri.nl), both famous for their fabulous art. The day will be ended with shopping in "The Passage", the only remaining example in Holland in this type of covered shopping streets, popular in major European and American cities in the second half of the 19th century.

We will meet at the Manhattan Hotel at 08.45 and take the 09.02 train to The Hague. We will be back in Rotterdam at 17.15 hours.

The participation fee for this tour is € 55.00 (excl. VAT). It includes a return train ticket to The Hague, lunch, coffee, entrance fees and guide.



Further information on the tour, including the timetable, is available at: cedaconferences.org/dredgingdays2011

HOTEL ACCOMMODATION

Delegates and guests to CEDA Dredging Days 2011 are responsible for their own hotel bookings, but blocks of rooms have been reserved by CEDA at special conference rates in the hotels shown below. Please make your reservation directly by contacting the hotel of your choice using the appropriate Group Code. Please note that after the indicated cut off dates the hotels can no longer guarantee the availability of rooms.

For low-budget accommodation reservations please contact:

Rotterdam Tourist Information

T +31 (0)10-271 0120
F + 31 (0)10 271 0128
info@rotterdam.info
www.rotterdam.info/hotel

Note: Breakfast is included for all but the Savoy, which charges € 16,50 per person per day.

Important: Reservations should be made in good time, as there will be many visitors in Rotterdam during the EUROPORT 2011 week.

HOTEL		RATE PER NIGHT	CUT OFF DATE	GROUP CODE	RESERVATION
NH Atlanta Rotterdam	4 ★	Single € 189 Double € 208	7 August	CEDA2011 Block 2	Online at: nh-hotels.com/events/en/event-detail/6998/ceda_block_2.html
Eden Savoy	4 ★	Single € 125 Double	26 September	GF600	Reservation form on: cedaconferences.org
Inntel Hotels Rotterdam Centre	4 ★	Single € 245 Double € 270 € 16,50	1 October	CEDA2011	Online at: inntelhotels.nl Click "Members" (in the right top corner)
H2otel	3 ★	Single € 70 Double € 70–120	8 September	CEDA2011	E-mail to: info@h2otel.nl

REGISTRATION

FEES (EXCL. VAT: 19%)

DELEGATE/SPEAKER

• CEDA/EADA/WEDA member*	€ 495.00
• Non-member	€ 650.00
• Speaker/PhD student	€ 325.00
• Student (undergraduate)**	€ 150.00
• Technical visit	€ 50.00

ACCOMPANYING PERSON

• Guided Tour The Hague	€ 55.00
• Technical visit	€ 50.00

* All individual members and employees of corporate members of CEDA are eligible for registration at the member's rate.

** Student Registration is only accepted on receipt of letter of endorsement and a copy of the student card.

The conference fee for delegates and speakers includes all conference sessions, documentation, dredging exhibition, lunch, refreshments, CEDA Netherlands Reception on Thursday and entrance to Europort 2011.

WAYS TO REGISTER

- Register online at www.cedaconferences.org/dredgingdays2011
- E-mail copy of registration form to sylvia@mintenprojectmanagement.nl
- Send registration form by post to CEDA Dredging Days 2011, c/o Minten Projectmanagement, P.O. Box 12107, 3004 GC Rotterdam, The Netherlands



SPONSORSHIP

Sponsorship opportunities still exist.

For information please contact Sylvia Minten at the Conference Secretariat.

TECHNICAL PAPERS COMMITTEE

Cees van Rhee (Chairman),

Delft University of Technology, The Netherlands

Anna Csiti, **CEDA, The Netherlands**

Ronald van der Hout, **Van Oord Dredging & Marine Contractors, The Netherlands**

Claus Iversen, **Femern Baelt A/S, Denmark**

Bernard Malherbe, **Jan De Nul, Belgium**

Johan Pennekamp, **Deltares, The Netherlands**

Daan Rijks, **Royal Boskalis Westminster, The Netherlands**

Dirk Roukema, **Blue Pelican Associates,**

The Netherlands

Henrich Röper, **Hamburg Port Authority, Germany**

Marc Sas, **IMDC, Belgium**

Marc Vandenbroeck, **DEME, Belgium**

Jort van Wijk, **IHC, The Netherlands**

COORDINATION

Anders Jensen, President CEDA, **Denmark**

Anna Csiti, General Manager CEDA, **The Netherlands**

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Central Dredging Association

The Central Dredging Association (CEDA) is an internationally recognised independent professional association. It is an easy-to-access leading platform for the exchange of knowledge and an authoritative reference point for impartial technical information. CEDA actively strives to contribute towards sustainable development by strongly recommending working with nature. CEDA members are corporations, professionals and stakeholders involved in a diversity of activities related to dredging and marine construction. CEDA represents the common interest of all fields related to dredging and marine construction and does not promote the interest of any particular industry sector or organization.

For more information visit: www.dredging.org





CEDA DREDGING DAYS

CEDA's trademark conference, CEDA Dredging Days, has established itself as the foremost international dredging conference in the CEDA region (Europe, Africa and the Middle East). It is a well-known and valued forum for leading researchers and industry experts to discuss dredging challenges, solutions, and experiences. Traditionally organised biennially in conjunction with the Europort Maritime exhibition, the conference is held at Ahoy Rotterdam, in Rotterdam, The Netherlands (until 2003 at the RAI in Amsterdam). In addition to the biennial CEDA Dredging Days, CEDA or its Regional or National Sections organize conferences at a variety of locations.

**Since CEDA was established in 1978,
the following CEDA Dredging Days
have been held:**

1980	Amsterdam	Suppliers to the dredging industry
1983	Amsterdam	Instrumentation and control of dredging processes
1985	Amsterdam	Electric and hydraulic drives onboard dredging equipment
1987	Amsterdam	Dredging aspects of immersed tube tunnels and trenching
1988	Hamburg	Environmentally acceptable methods of dredging
1989	Amsterdam	Aggregate dredging
1991	Amsterdam	Accessible harbours
1993	Amsterdam	Experience of the application of research results to dredging practice
1997	Amsterdam	New developments in dredging equipment and technology
1999	Amsterdam	Dredging challenged
2001	Amsterdam	Dredging seen
2002	Casablanca	Dredging without boundaries
2003	Amsterdam	Specialist dredging techniques inspiring dredging solutions
2005	Rotterdam	Dredging: The extremes
2006	Tangiers	Protection of the coastline "Dredging and sustainable development"
2007	Rotterdam	The day after we stop dredging - Dredging for infrastructure and public welfare
2008	Antwerp	Dredging facing sustainability
2009	Rotterdam	Dredging tools for the future

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