

Second  
Announcement  
**PROGRAMME  
AND REGISTRATION**

Marine, Estuarine, Freshwater Environments

# CEDA DREDGING DAYS 2017

## Conference and Exhibition

### Sustainable Dredging - Continued Benefits

**9-10 November 2017**  
Ahoy Rotterdam, the Netherlands

In conjunction with

**EUROPORT**  
exhibition for  
maritime technology  
7-10 November 2017  
Rotterdam Ahoy



Organised by



Central Dredging Association

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**8 November:**  
Pre-event  
technical visit

[www.cedaconferences.org/dredgingdays2017](http://www.cedaconferences.org/dredgingdays2017)

 #dredgingdays

**9 November:**  
Guided networking  
breakfast

# INTRODUCTION TO THE CONFERENCE

CEDA Dredging Days is CEDA's trademark event and it is the primary international dredging conference in the CEDA region since many years. It is widely considered as an invaluable forum for leading researchers and industry experts to discuss and share dredging challenges, solutions and experiences.



## THE THEME

For hundreds of years dredgers have been used to shape and manipulate the interface between land and water in order to support a variety of human activities. The list is long and includes navigation, coastal protection, flood risk management, water body restoration and remediation, as well as residential, commercial, agricultural and hydro-power development.

Dredging in marine, estuarine and freshwater environments affects the ecosystem and its associated services to nature and humanity either in a positive or in a negative manner. New insights in the natural processes, in the potential impacts and benefits and new, adapted methods and technologies allow the modern dredging industry to provide sustainable solutions for developing and maintaining essential infrastructure, while securing the continuity of ecosystem services.

CEDA Dredging Days 2017 aims to demonstrate the sustainable character of modern dredging projects.

## WHO SHOULD ATTEND

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

- Ports, coastal, water management and environmental authorities
- Environmental organisations and conservation bodies
- Knowledge institutes and universities
- Consultancies
- Dredging companies
- Manufacturers

## VENUE AND DATES

CEDA Dredging Days 2017 Conference and Exhibition will be held at **Ahoy Rotterdam, Rotterdam, the Netherlands on 9-10 November 2017.**

The programme includes an optional technical visit on 8 November in the afternoon and an optional guided networking breakfast on 9 November.

# PROGRAMME

## DAY 1 - THURSDAY 9 NOVEMBER

**07:00 Registration desk open**

**07:45 BREAK-ICE-FAST – GUIDED NETWORKING BREAKFAST**  
(additional fee)

This light-hearted and fun session will offer participants the opportunity to quickly make the acquaintance of a number of fellow participants and share ideas on a variety of issues.

**09:30 SESSION 1 – OPENING AND KEYNOTE SPEECHES**

**Chair:** Cees van Rhee – Delft University of Technology, the Netherlands

**Opening remarks:** Polite Laboyrie, President CEDA – Witteveen+Bos, the Netherlands

**Introduction:** Prof. Dr. Cees van Rhee, Technical Papers and Programme Committee Chairman – Delft University of Technology, the Netherlands

**Keynote address:** Frank Verhoeven, President IADC – International Association of Dredging Companies, the Netherlands

**Featured presentation: CEDA's check list for successful dredging management**

Kathleen De Wit, on behalf of CEDA Dredging Management Commission (DMC) – IMDC, Belgium

**10:30 Coffee and tea served in the exhibition area**

**11:00 SESSION 2 – ENVIRONMENT AND MONITORING**

**Chair:** Renaat De Sutter – Antea Group, Belgium

**Assessment of siltation processes and implementation of nautical depth in the port of Cochin, India**

Ferket B, Heredia Gomez M, Rocabado I and De Sutter R – Antea Group, Belgium; Van Hoestenbergh T – Fluves, Belgium; Kwee J and Werner C – Stema Systems, the Netherlands; Verwilligen J, Vos S and Vantorre M – Flanders Hydraulics Research, Belgium; Nair P, Lamba P, Sharma S and Marthi S – IIC Technologies, India

**A method for monitoring and control of spill during dredging operations**

Lumborg U and Saremi S – DHI, Denmark; Lauridsen P – Rohde Nielsen, Denmark

**Potential sources and magnitude of errors associated with the measurement of suspended sediment concentration**

Crossouard NA, Taylor JA and Lee MW – HR Wallingford, United Kingdom

**Modelling and monitoring of dredged sediment dispersal Brightlingsea UK**

Coulet W and Manning W – Exo Environmental, United Kingdom; Rotsaert M and Wit L de – Svasek Hydraulics, the Netherlands

**12:30 Lunch served in the exhibition area**

**13:45 SESSION 3 – ACADEMIC SESSION**

**Chair:** Bernard Malherbe – Jan De Nul, Belgium

**Pipeline floatation due to wave-induced liquefaction of trench backfill material**

Baelus L, Szengel V, Breughem A and Tavallali A – IMDC, Belgium

**One dimensional modeling of transport and sedimentation inside a hopper**

Boone J and Nijs MAJ de – Van Oord Dredging and Marine Contractors, the Netherlands

**Simulating turbidity plumes with OpenFOAM**

Grunsven F van, Keetels GH and Rhee C van – Delft University of Technology, the Netherlands

**Lock exchange experiments with particle-driven gravity currents**

Stovers R and Goeree JC – Delft University of Technology/ IHCMTI/Royal IHC, the Netherlands; Rhee C van – Delft University of Technology, the Netherlands

**15:15 Coffee and tea served in the exhibition area**

**15:45 SESSION 4 – DEVELOPMENTS IN INSTRUMENTATION**

**Chair:** Henrich Röper – Hamburg Port Authority, Germany

**Non-radioactive slurry density measurement for inland dredgers**

Zych KS and Osnabrugge J – IHC Systems, the Netherlands

**Integrated approach to monitor water dynamics with drones**

Raymaekers D, De Keukelaere L, Knaeps E, Strackx G and Verstappen T – VITO, Belgium; De Crop B and Bollen M – IMDC, Belgium

**Innovative spill measurement for wirecrane and excavator dredging**

Stuifbergen HG – Teledyne Marine, the Netherlands

## ACADEMIC SESSION

The 'Academic Session', a special session within the technical programme of CEDA Dredging Days 2017, is part of CEDA's continued support of young professionals. University and college students and young professionals do not have to adhere to the conference theme and can present papers on any subject matter related to dredging.



## DAY 2 - FRIDAY 10 NOVEMBER

### 15:45 SESSION 4 – DEVELOPMENTS IN INSTRUMENTATION (continued)

**Deployment and field evaluation of a non-nuclear densitometer, based on electrical resistance tomography**  
Hazineh W, McCormack D, Primrose K, Qiu C and Wei K – Industrial Tomography Systems, United Kingdom

### 17:15 PRESENTATION OF THE CEDA-IADC BOOK 'DREDGING FOR SUSTAINABLE INFRASTRUCTURE'

Polite Laboyrie, Chairman of the Editorial Advisory Board – Witteveen+Bos, the Netherlands

### 17:30 CEDA ANNUAL GENERAL MEETING

### 18:00 CEDA NETHERLANDS RECEPTION

## RECEPTION

**Thursday 9 November, 18:00 – 19:00 hours**

The traditional CEDA Netherlands reception will take place in the foyer of the conference room; a relaxing opportunity for delegates to meet, make new contacts and catch up with old friends.



## IADC AWARD

The International Association of Dredging Companies' (IADC) Young Authors Award will be presented to an author under 35 years of age for the best conference paper.

## CONFERENCE PROCEEDINGS

All papers will be peer reviewed and published in the conference proceedings, which are included in the Conference Proceedings Citation Index. The proceedings will be distributed to all registered delegates at the start of the conference.

## OFFICIAL LANGUAGE

English will be the official language of the conference.

### 08:00 Registration desk open

### 09:00 SESSION 5 – INTERACTIVE SESSION: CONTRACTUAL PROBLEMS, AND HOW TO AVOID THEM OCCURRING

**Mediator:** Mike Van der Vijver – MindMeeting, the Netherlands

The interactive session uses an engaging theoretical case study incorporating issues and problems which are commonly experienced in dredging and offshore projects.

Designed to be accessible and beneficial to all parties to a contract (owner, contractor, subcontractor/supplier and engineer/designer) the session will draw together the combined experience of both the expert panel and the attendees, each of whom will bring their unique insight, problems and solutions to some of the most pressing, relevant and commercially important aspects of the delivery of a dredging project currently being faced on real schemes.

The session is organised by CEDA's new Dredging Management Commission.

#### Expert panel:

- Kathleen De Wit, Operational Head Offshore, Dredging & Environment Department, IMDC, Belgium
- Claus Iversen, Construction Manager, D&R and Marine Works, Femern A/S, Denmark
- André van Hassent, Assetmanager Ports and Fairways, Port of Rotterdam, the Netherlands
- Charles Wilsoncroft, Director, Knowles, United Kingdom
- Johny Van Acker, Area Manager Baltic States, Poland and Special Renewable Energy Projects North-Europe, DEMA, Belgium
- Bert Visser, Cost Engineer, Ministry of Infrastructure and the Environment, Rijkswaterstaat, the Netherlands

For more details please refer to page 5 in this brochure.

### 10:30 Coffee and tea served in the exhibition area

### 11:00 SESSION 6 – SUSTAINABLE WORKING METHOD AND EQUIPMENT

**Chair:** Dirk Roukema – Blue Pelican Associates, the Netherlands

#### A novel approach to determine dredge pump NPSHr in field conditions

Slager K – Damen Dredging Equipment, the Netherlands

#### New approach of a double walled pump house

Duursen EA van and Winkelman MO – Damen Dredging Equipment, the Netherlands; Tijssen M – Damen Shipyards Gorinchem, the Netherlands

#### Dredging the Hugli estuary: creative solutions through client, consultant and contractor engagement

Kirkpatrick R – HR Wallingford, United Kingdom

#### Using CFD to develop new drag heads

Spaendonk BAW van, Kuypers RHA, Bijvoet ECJ and Blom EC van der – Royal IHC, the Netherlands

**12:30 Lunch, sponsored by Royal IHC, served in the exhibition area**



### **13:30 SESSION 7 – YOUNG CEDA PITCH TALKS**

**Chair:** Peter de Looze – Hal Maritiem, the Netherlands

Young CEDA will be hosting a pitch talks session; a dynamic series of 7/8 short and sharp presentations on the overall theme of the conference. The pitch talks aim to provide students and young professionals a platform to present their ongoing work, expose their ideas to a broad expert audience and get immediate feedback and inspiration.



**14:30 Coffee and tea served in the exhibition area**

### **15:00 SESSION 8 – INNOVATIVE SOLUTIONS**

**Chair:** Niels Borgers – Witteveen+Bos, the Netherlands

#### **Renovation of a controlled flood area in the Scheldt estuary using dredged material from the Durme river**

Ratinckx P and Van Rompaey M – IMDC, Belgium; Boone C – Engie TRACTEBEL, Belgium; Quaeyhaegens H – Waterwegen en Zeekanaal, Belgium

#### **Complex dredging near heavy-duty deep sea quay wall**

Broos EJ - Port of Rotterdam, the Netherlands; Putteman J – SBE Engineering Consultants, Belgium

#### **The living lab for mud: integrated sediment management based on building with nature concepts**

Eekelen EMM van – EcoShape/Van Oord Dredging and Marine Contractors, the Netherlands; Sittoni L – EcoShape/Deltares, the Netherlands; Goot F van der – EcoShape/Royal Boskalis Westminster, the Netherlands; Nieboer HE – EcoShape/Witteveen+Bos, the Netherlands

### **16:10 PRESENTATION OF THE IADC YOUNG AUTHORS' AWARD**

René Kolman, Secretary General IADC – International Association of Dredging Companies, the Netherlands

### **16:15 CONFERENCE CHAIR'S CLOSING REMARKS**

Prof. Dr. Cees van Rhee, Chairman Technical Papers and Programme Committee – Delft University of Technology, the Netherlands

**16:25 Farewell drinks**

*The CEDA Dredging Days 2017 Technical Papers and Programme Committee reserves the right to adjust or change the programme if necessary.*

## **INTERACTIVE SESSION**

### **Contractual problems, and how to avoid them occurring**

Following the highly successful interactive session at the 2015 Dredging Days, CEDA's new Dredging Management Commission will be hosting a new session this year.

The industry faces ever increasing risks and constraints including in respect of contracting, risk allocation, tightening margins and general contract and commercial management. These factors, amongst others, often result in an increase in commercial risk and uncertainty for contracting parties, frequently manifesting as unforeseen expenditure on one or each side of a contracting relationship. The focus for this year's event is therefore related to contractual problems and, critically, how to avoid them occurring.

The interactive session uses an engaging theoretical case study incorporating issues and problems which are commonly experienced in dredging and offshore projects. Teams of participants will debate and evaluate the causes and cures of such problems. These evaluation forums will be carried out, discussed with and reflected on by a team of industry experts who, along with the participants, will explore and identify aspects of contracting best practice and procedure.

Designed to be accessible and beneficial to all parties to a contract (owner, contractor, subcontractor/supplier and engineer/designer) the session will draw together the combined experience of both the expert panel and the attendees, each of whom will bring their unique insight, problems and solutions to some of the most pressing, relevant and commercially important aspects of the delivery of a dredging project currently being faced on real schemes.

The interactive session will be suitable for all levels of seniority and experience, giving valuable developmental markers for those early in their career, while assisting in providing practical and effective advice and assistance to those in more senior roles who have responsibility for contract placing, contract administration and project management.

CEDA welcomes and invites all to join and participate in what is expected to be a popular and highly anticipated new interactive session at the 2017 Dredging Days in Rotterdam.



## TECHNICAL VISIT

Wednesday 8 November 2017, 12:00 – 17:00 hours

On Wednesday afternoon, 8 November, a technical visit will be organised to a site of interest to those attending the conference.

Decision about this will be made and details will be announced in July 2017. Participants have to register for the tour in advance. The registration fee is € 50 excluding VAT.

The coach will depart from Rotterdam at 12:00 hours and will return at approximately 17:00 hours. Please check the conference's website for up-to-date information. Participants registering for the technical visit will receive detailed joining instructions from the Conference Secretariat.



## STUDENT PROGRAMME

The CEDA Dredging Days student programme is a highly successful initiative that enables promising students to attend the conference and exhibition. Under this programme CEDA offers 70 free registrations to graduate and post-graduate students. These are granted to students who have shown great affinity with dredging technology within their studies.

The free registrations are organised and co-ordinated by Young CEDA, and over 20 European universities and institutions of higher professional education will be offered three to four each.

Those students who are not eligible for the student programme 2017 can still attend CEDA Dredging Days 2017 at a significantly reduced rate of € 125. Students who would like to participate in the programme, and whose universities may not have been approached by Young CEDA, are advised to contact the Young CEDA Chair, Peter de Looze, at [youngceda@dredging.org](mailto:youngceda@dredging.org).



## YOUNG CEDA SOCIAL EVENTS

As always, the social events will be an important part of the Young CEDA programme during Dredging Days 2017. They help to ensure that students and young professionals attending the conference have plenty of opportunities to meet their peers and spend some relaxed time with each other. A networking event for students and young professionals is scheduled for Wednesday 8 November as an icebreaker for the conference. There will also be a Young CEDA lunch before the pitch talks session on Friday. More details will be announced later.

## ABOUT YOUNG CEDA

Young CEDA represents youthful CEDA members and give them easy access to a unique network of young professionals in the field of dredging (research institutes, universities, industry, governmental authorities and consultants). Young CEDA provides members with plenty of opportunities to exchange ideas, gain new technical insights, interact with older or more experienced fellow dredging enthusiasts and colleagues and expand networks with valuable new contacts to enhance their careers. And finally Young CEDA members aim to have fun!!



# REGISTRATION

## FEES

• Members of CEDA, EADA and WEDA*	€ 605
• Non-members	€ 780
• Speakers and PhD students	€ 370
• Students (undergraduate)**	€ 125
• Technical visit	€ 50
• Break-Ice-Fast breakfast session	€ 20

The above fees are exclusive of the additional VAT (21%)

\* 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.

Register online at  
[www.cedaconferences.org/dredgingdays2017](http://www.cedaconferences.org/dredgingdays2017)

## ACCOMMODATION AND TRAVEL

Delegates and guests are responsible for their own hotel bookings. Blocks of hotel rooms have been reserved at special Europort rates in a variety of hotels. For details and to make a reservation please go to the conference website.

**Important:** reservations should be made in good time, as there will be many visitors in Rotterdam during the Europort 2017 week.

## EUROPORT 2017

CEDA Dredging Days 2017 are held in association with EUROPORT 2017, exhibition for maritime technology, which will be held at Ahoy Rotterdam from 7-10 November 2017. For further information please visit: [www.europort.nl](http://www.europort.nl).

# DREDGING EXHIBITION

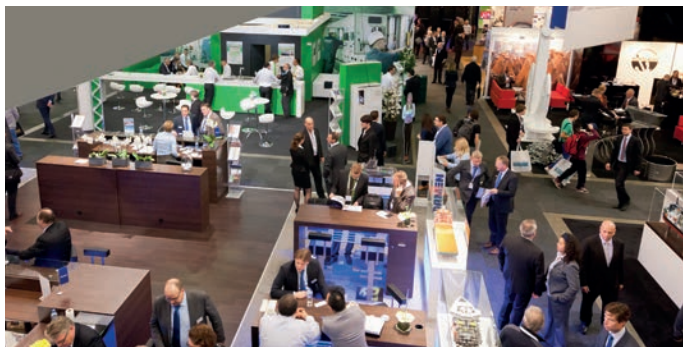
To complement the conference, a technical exhibition will be located in the area adjacent to the technical session room. The central location of the exhibition area will provide organisations with an excellent opportunity to present their products and services to a select and focused group of international experts and decision makers. The exhibition will be open throughout the conference on 9-10 November 2017.



The standard 6m<sup>2</sup> (2x3 m) stand fee is € 2 700 (excl. VAT). Corporate members of CEDA are offered a discount fee (30% discount) of € 1 900 (excl. VAT). The booking fee will include 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 and on the conference website. Only exhibition staff registered for the conference will be admitted to the technical sessions (please refer to the online registration form). The exhibition booth staff will be invited to the reception on Thursday evening and to the farewell drinks on Friday afternoon. Space is limited and will be assigned on a first come first served basis. For more information please contact the Conference Secretariat or visit the conference website.

## SPONSORSHIP

Sponsorship of CEDA Dredging Days 2017 will give direct exposure to the world-wide dredging community. For information and a personalised sponsorship proposal please contact the Conference Secretariat.



## ABOUT CEDA

CEDA is an established authority and the leading independent forum for the professional dredging community and associated industries in Europe, Africa and the Middle-East. It represents dredging professionals and organisations from government, academia and business in the region and fosters and promotes the understanding and advancement of dredging to the wider community. Drawing on the collective knowledge of its members, and as an impartial body, CEDA regularly gives expert advice to government and international regulatory bodies.

CEDA members are representatives of consultancies, research and educational institutions, port authorities, government agencies, dredging contractors, designers and builders of dredging vessels, suppliers of ancillary equipment and organisations providing a whole range of related services.

CEDA is part of the World Organisation of Dredging Associations (WODA). CEDA's two sister associations, WEDA (Western Dredging Association) and EADA (Eastern Dredging Association), serve the Americas and Asia, Australia and the Pacific region respectively.



## TECHNICAL PAPERS AND PROGRAMME COMMITTEE

**Cees van Rhee**, Delft University of Technology, the Netherlands (chair)

**Niels Borgers**, Witteveen+Bos, Young CEDA, the Netherlands

**Vera Breitung**, Federal Institute of Hydrology, Germany

**Anna Csiti**, CEDA, the Netherlands

**Renaat De Sutter**, Antea Group, Belgium

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

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

**Dirk Roukema**, Blue Pelican Associates, the Netherlands

**Nick Smith**, Canal & River Trust, United Kingdom

**Mark Winkelman**, Damen Dredging Equipment, the Netherlands

## COORDINATING COMMITTEE

**Polite Laboyrie**, CEDA, Witteveen+Bos, the Netherlands

**Anna Csiti**, CEDA, the Netherlands



UNDERSTANDING DREDGING

## ENQUIRIES

**Sylvia Minten**

**CEDA Dredging Days 2017 Conference Secretariat**

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