



# Annual Report 2012



**Understanding Dredging**



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Understanding Dredging

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## MESSAGE FROM THE PRESIDENT AND THE GENERAL MANAGER

Dear Reader,

We can look back with pride on a very busy and successful year in which we made important progress in engaging more members in CEDA's activities, largely through our working groups.

In 2012 one group completed its work and produced an excellent position paper on adaptation to climate change and what it means to the dredging community, contractors and manufacturers. Climate change also affects port and water authorities, policy-makers, regulators, consultants and stakeholders.



Anders Jensen,  
CEDA President



Anna Csiti,  
General Manager

Two new groups started work. One will produce an information paper on ecosystem services in the context of dredging. It will bring move the discussions from an academic level to the practical dredging level. The other is a joint effort with our sister associations WEDA and EADA. This WODA expert group on underwater sound will produce technical guidance on monitoring underwater sound and make recommendations for a procedure that will allow comparison of monitoring results worldwide.

Under the umbrella of WODA, CEDA has responsibility for Africa, Europe and the Middle East. It was therefore a big step for us to be able to present the first CEDA Dredging Days in 2012 in the Middle East – significantly broadening our geographical reach. The event was a great success with more than 170 participants mainly coming from the region.

Another noteworthy move was our return to Russia, this time co-sponsoring a dredging session at a prestigious coastal conference.

These are just a few examples of the past year's activities. You can read about many more elsewhere in this report. It's true that we have not achieved everything we had intended in 2012. The launch of CEDAwiki has been somewhat delayed, so you will still be patient for a little longer before being able to tap into our enormous collective knowledge base. It will certainly be worth the wait, though.

None of this progress would have been possible had it not been for the enormous number of knowledgeable and enthusiastic members who volunteer their time and expertise for CEDA and for the dredging community at large. We are grateful to them and equally to their organisations for making those contributions possible.

Anders Jensen  
CEDA President

Anna Csiti  
General Manager



## ABOUT CEDA

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. Strongly recommending working with nature, CEDA actively strives to contribute towards sustainable development. CEDA members are corporations, professionals and stakeholders involved in a diversity of activities related to dredging and marine construction.

### Mission

CEDA's mission is to be an independent, easy-to-access, leading platform for corporations, professionals and stakeholders involved in any kind of activity related to dredging and marine construction. Through CEDA's programmes, products and services to members, it aims to advance professional development and corporate and personal success. It fosters technological innovation and advances in best practice.

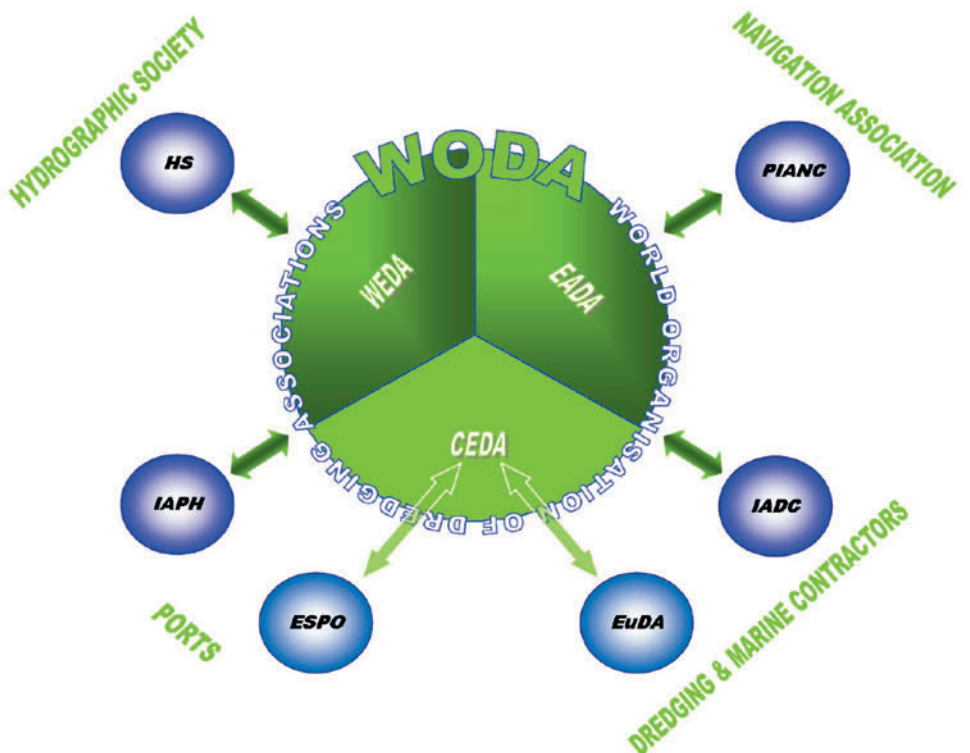
### Vision

CEDA's vision is to be essential to corporations, professionals and stakeholders in the fields of dredging and marine construction and to be universally recognised for its professional expertise and balanced, impartial views.

### Position

CEDA is part of the World Organisation of Dredging Associations (WODA) and is responsible for Europe, Africa and the Middle East. 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.

A number of international and national organisations, both professional and trade, currently operate in dredging and related fields. The graphic below shows those international organisations with which CEDA has regular contacts and co-operates on projects of common interest.



[www.dredging.org](http://www.dredging.org)

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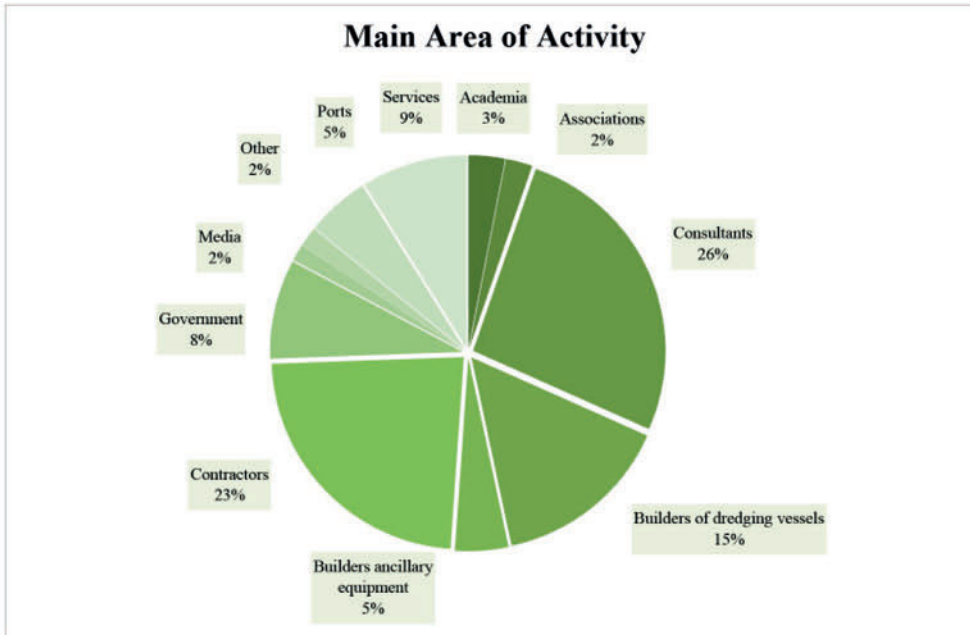
**Central Dredging Association**

Member of the World Organisation  
 of Dredging Associations, WODA



## MEMBERSHIP

One of CEDA’s distinctive strengths lies in its diverse membership. CEDA members – corporations, organisations and individuals – come from many fields and include project owners, commissioners of large infrastructure projects, dredging contractors, equipment manufacturers, consultants, academia and regulators. The graphic and list below illustrate the diversity and the geographical spread of CEDA’s members.



Members Composition of CEDA’s membership by main area of activity

### Countries of origin:



At the end of 2012, CEDA had 506 individual members including 10 students, nine starters, 41 retired members and 12 university or college lecturers. The number of individual members continues to decrease (in the previous year the number was 525).

The number of corporate members has also fallen. At the end of 2012 we had 124 corporate members, two fewer than in 2011. The CEDA African Section administered a further five corporate members in 2012, resulting in a total of 129 corporate members.

Attracting new members and retaining existing ones is a challenge. We need to put extra effort into attracting new members into our community, and all members are encouraged to be good ambassadors for CEDA.



“CEDA is driven by its volunteers.”



Member of the World Organisation of Dredging Associations, WODA



**New corporate members**

In 2012 we were delighted to welcome the following companies/organisations as new corporate members in the CEDA community:

- Antea Group, *Belgium*
- Brandmarion, *The Netherlands*
- Esco Group, *USA*
- Gulf Cobla LLC, *Abu Dhabi*
- Loggers B.V., *The Netherlands*
- MAN Diesel & Turbo SE, *Germany*
- Nautic Jobs BV, *The Netherlands*
- SOMIT S.r.l., *Italy*
- Technogenia, *France*
- Xrosswater Ltd, *USA*

**CEDA VOLUNTEERS: CEDA PILLARS**

CEDA is driven by its members, many of whom provide their time and expertise voluntarily. The growth of the association is based on their enthusiastic and dedicated work; they are the true pillars of CEDA.



## NATIONAL SECTIONS

Areas or countries with many CEDA members can set up a regional or national CEDA section to support internal networking at regional or national events. These sections are the smallest clusters through which CEDA members can become part of the wider CEDA network and, through WODA, be connected to the global network of professionals who share the same interest in dredging and marine construction. The chairpersons of these sections are CEDA ambassadors who can help newcomers swiftly and easily enter the CEDA community.

In 2012, CEDA's national sections continued offering a successful series of meetings and site visits on timely subjects that attracted plenty of attention. Altogether, CEDA's four national sections held 12 well-attended meetings/site visits/events over the year. Members can see many of the presentations on the appropriate national section pages of the CEDA website.

### African Section

Secretary

Last year was a quiet one for the African Section, and the Executive Committee reflected on the successes and challenges of the first 10 years of the section's existence. The spring meeting of the CEDA Board of Directors took place in Casablanca, Morocco, the seat of the African Section Secretariat, to give the directors the chance to hold in-depth discussions with the section. Anders Jensen, Anna Csiti and Eric Van den Eede took part in the CEDA-AS Executive Committee's meeting and talked about the section's specific needs and difficulties. The meeting looked at the ways CEDA could best support its youngest and geographically most distant section. During these discussions it became clear that there is a great need for the transfer of knowledge, in particular about cost-efficient strategies for dredging projects.

Anna Csiti  
General Manager CEDA



Khadija Legliti  
Secretary



Tarik Jakhoukh  
Chair



Two long-term members of the CEDA-AS Executive Committee (clockwise): El Housain Youzalen and Amadou Kane

### Belgian Section

#### Changes at the Executive Committee of the Belgian Section

At the beginning of 2012 Eric Van den Eede succeeded Freddy Aerts as chairman of the Belgian Section. Eric Van den Eede was a board member in the 1990s, but resigned in 1999 when he was elected as president of PIANC, a position he held until 2011.

Eric is professionally active as general manager of *Waterwegen en Zeekanaal NV*, a Flemish public agency managing a waterways network of some 600km in the Scheldt basin.

Jos Claessens, member of the Belgian Section Executive Committee, retired after a long period of stalwart service to the Belgian Section as well as on the Main Board of CEDA. Jos was instrumental in the organisation of, and support to, several activities and working groups organised by CEDA. The section paid tribute to him for all his hard work.



Christel Goetschalckx  
Secretary



Eric Van den Eede  
Chair

#### Activities in 2012

On 24 January a club evening was organised at the Flemish Institute for the Sea (VLIZ) in Ostend. Jan Mees, director of VLIZ, gave a keynote speech on the theme 'Science and the Dredging Industry'.

The second club evening took place on 8 May in Beveren, dedicated to the current-deflecting wall in the Deurganck Dock in the Port of Antwerp. Three interesting presentations dealt with the general layout of the project, the sedimentation problems in the dock and the construction of the wall.

The third and last club evening was held on 16 October, also in Beveren, focusing on 'Major European Projects in Dredging, Land Reclamation and Offshore'. Presentations were given about the London Gateway Project and also offshore works in the far east of the Russian Federation.



CEDA Board in action in Casablanca (l to r) back: Michael Costaras, Bart Verboomen, Anders Jensen, Wim Klomp, Cees van Rhee, Eric Van den Eede, Lindsay Murray, Polite Laboyrie, Khadija Legliti (guest), Abdelkebir Hmimou (guest); front: Anna Csiti, Tarik Jakhoukh, Johan Pennekamp



**Contribution to WODCON XX**

Much of the Belgian Section’s efforts were directed towards supporting the organisation of the World Dredging Congress XX, which will take place in June 2013 in Brussels.

CEDA has been drawing greatly on the local knowledge and support of its Belgian members in putting together this major event. Appropriately, most members of the Executive Committee – which has the overall responsibility for the event and held several meetings with the appointed congress organiser, Congrex – are delegated by the Belgian Section. The preparations for WODCON ensured that 2012 was a particularly busy year for the section.

The social and partner programmes, and also the technical visits, all benefited from the knowledge and expert touch of the Belgian members.

The Belgian Section is looking forward to a successful congress and hopes to be able to welcome many participants from all over the world. For more details about WODCON please see page 20.

*Eric Van den Eede*  
Chair



At the CEDA-Be meeting in October 2012 in Beveren

**British Section**

**Administration**

The CEDA British Section Committee carried out a full review and update of its Constitution with the objective of reflecting current accepted practice (there is no record of any previous review).



*Nicola Clay*  
Chair



*Cheryl Maund*  
Secretary

Changes included expanding the number of members permitted to be on the Committee to 15 as well as removing some of the constraints on time limits for member participation.

Anders Jensen, President of CEDA, attended a Committee meeting in advance of his role as guest speaker for the John Sargent Lecture. The Committee would like to thank Anders for his involvement and look forward to forging stronger links with our Danish counterparts.

The Committee welcomed the WODA Principles of Sustainable Dredging and approved them with some amendments and suggestions.

Membership continues to be an issue of concern to CEDA members in the UK. The Committee has formed a sub-group to consider this issue and prepare a report to the CEDA Main Board containing constructive and positive suggestions to address the issue.

**Events and Activities**

**Technical meetings**

Two half day technical meetings were held in 2012

- The Use of Dredged Material – Issues, Constraints and Moving Forward
- Navigation Dredging for Beginners – A Practical Introduction

*The Use of Dredged Material:* The CEDA British Section Committee held a half-day technical seminar focusing on the use of dredged material. Nicola Clay from Royal HaskoningDHV and the chair of the British Section Committee chaired the event which was broadcast live over the web. More than 30 people from a range of organisations including dredging contractors, environmental consultancies, port authorities, NGOs and government agencies attended to hear a series of presentations on the value of dredged material as a resource, how it can be used to provide benefit in environmental and engineering programmes, some of the experience that exists of using dredged material in projects and the current challenges and barriers that operators face in using dredged material. Speakers represented Cefas, RSPB, British Waters, Suffolk Estuaries, ABPmer and Bright Angel Consultants. The seminar identified a number of key messages including the disincentive to use caused by the licensing regime – a full description of the event is available on the CEDA website.

*Navigation Dredging for beginners:* The CEDA British Section Committee held a half-day free training seminar focusing on planning, consenting and carrying out navigation dredging activities in the UK. This was the first time such event was delivered in the UK by CEDA. The intention was to not only provide a training opportunity for those with an interest in dredging but also to raise the profile of CEDA in the UK industry. Payam Foroudi, from Halcrow Group Ltd and a member of the British Section Committee, chaired the event which was recorded for future web access. More than 50 people from a range of organisations including dredging contractors,



consultancies, port authorities, NGOs, regulators and government agencies attended this event. The presentations covered a brief introduction to planning and consenting requirements and implementation of marine navigational dredging projects from the clients, contractors, consultants and regulatory authorities' perspectives. The Committee proposes to refine the series of presentations and offer it to further audiences.



*The half-day training seminar attracted attendees from business to government*

### Site Visits

Two technical site visits were planned in 2012, however, both had to be cancelled due to adverse weather (snow) and conflicts with the Queen's Diamond Jubilee celebrations. Several technical visits are in preparation for 2013.

### John Sargent Lecture

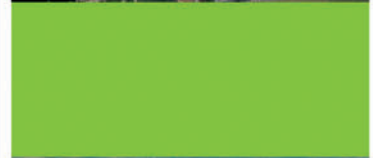
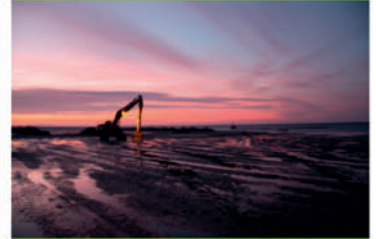
The 2012 John Sargent Lecture was delivered by Anders Jensen of DHI and President of CEDA and focussed on 'The Fixed Link Across Fehmarnbelt: Technical Solutions and the EIA Study'. The presentation was very interesting and enlightening about this major unique project. The audience of circa 30 maritime professionals asked numerous perceptive and targeted questions. The Committee would like to thank Anders Jensen for his participation.

### CEDA Input to Legislation

CEDA continues to play an active role in the development of national and European legislation that may affect the dredging industry. The UK government is introducing a new navigation dredging licensing regime and CEDA is providing advice through representation at the stakeholder events. CEDA members are also involved as part of the project team working with Government to implement the new regime. Further government initiatives relevant to CEDA in the UK include proposals to designate a large number of Marine Conservation Zones.

In the UK CEDA is the chair of the UK Water Framework Directive/Marine Strategy Framework Directive Navigation Sector Group (secretariat provided by PIANC) which provides a forum for the navigation industry and government to liaise over the progress with these pieces of legislation. CEDA is also currently hosting the CEDA Liaison Group which is using information from case studies of the use of dredged material to inform evidence-based decision-making by regulators. Key UK regulators and stakeholders are represented on this group.

Committee members have continued to play an active role in wider CEDA activities; Lindsay Murray and Michael Costaras represent the Committee on the CEDA Main Board; Andy Birchenough and Katherine Harris are involved with CEDA's Environment Commission and Katherine Harris also has a role on Young CEDA. Nicola Clay has recently stepped down from the CEDA Environment Commission.





## Future Events

In 2013 the Committee are arranging site visits to the London Gateway Port development, a capital dredging project and a beach recharge scheme. Details will be provided when the visits are confirmed. We are seeking to arrange a meeting of the CEDA Liaison Group to bring a practical focus to the discussions about using dredged material.

Discussions are ongoing with respect to the topics for two or three additional technical seminars. Currently the topics under consideration include the following:

- May rock dredging
- September: focus on issues of relevance to Scottish CEDA members
- December: dredging in sensitive areas.

## Liaison with Kindred Organisations

The Committee has continued to liaise with kindred organisations including the ICE Maritime Panel, PIANC, the Federation of Dredging Contractors, AINA, the Defra Marine Licensing Group and, of course, the CEDA Main Board. CEDA continues with its official observer roles in the London and OSPAR Conventions.

## Personnel

The new Committee members from early 2012 have established themselves during the year and all members have made a strong commitment to CEDA through attendance at meetings and leading technical seminars and events. There have been some further changes with Peter Whitehead of ABPmer and Nick Hodder of DI (now HR Wallingford) stepping down from the Committee and Daniel Leggett of DI taking up a place. On behalf of the Committee, I would like to thank both Peter and Nick for their input with particular thanks to Peter who has been a CEDA member for many years. I look forward to, and appreciate, the continued input from all Committee Members during 2013.

*Nicola Clay*  
Chair

## Dutch Section

Building on the overall mission and goal of CEDA, the Dutch Section (CEDA-NL) focuses on spreading knowledge and networking in the



*Johan Pennekamp*  
Chair



*Yvonne Duivenman*  
Secretary

dredging community of the Netherlands and its neighbours. In the past year, CEDA-NL successfully organised six meetings on themes that again proved appealing, to judge by the large number of attendees at all the events held in 2012. Two companies hosted the CEDA-NL meetings, which not only relieved the burden on CEDA's budget, but also – and more importantly – allowed these companies to present their high-technology businesses to the CEDA community.

Increasing the attendance of young professionals in the CEDA community received appropriate attention. The collaboration with adjacent branch associations, such as shipbuilders (KNVTS), offshore industry (IRO) and surveyors (HSB), made further progress and found expression in joint meetings.

## Technical Meetings

- 31 January, 'Working in Unsafe Regions' at International SOS head office, Amsterdam
- 6 March, 'Trenching for Cables, Ducts and Pipelines' in association with IRO
- 25 April, 'Innovative Dredging Installations' in association with KNVTS
- 22 May, 'Auxiliary Services in Dredging'
- 27 September, 'Innovations and Developments in Survey and Dredging' in association with HSB
- 6 November, 'Three Eye-catching Dredging Projects' at Van Oord head office, Rotterdam.

## Other Activities

The society Maintenance in Dredging, of which CEDA-NL is a co-founder, convened twice in 2012. On 4 June the theme was 'Ballast Water and Sludge' and on 5 November the focus was on 'Board Hoisting Devices'.

*Johan Pennekamp*  
Chair



100 people attended the meeting hosted by Van Oord at its brand new offices in Rotterdam



## EVENTS

### Conferences and Seminars

#### CEDA Dredging Days 2012: Virtue, Venture & Vision in the Coastal Zone

12–13 December 2012, Abu Dhabi, United Arab Emirates

From designing backhoe dredgers for dynamic loads in severe conditions to large-scale coral relocation in Jamaica, CEDA Dredging Days 2012 covered plenty of ground, both practical and academic. It broke new ground too, by being the first time this prestigious technical forum had been held in the Middle East. 'It is important for CEDA to provide these opportunities for the members in all its regions', emphasised Sergio Ooijens of IHC Merwede.

The location was highly appropriate, pointed out CEDA president Anders Jensen, for the Gulf's major coastal land reclamation schemes and the move to exploit offshore oil and gas reserves have necessitated significant dredging programmes. In addition, the need to expand the region's maritime infrastructure has prompted extensive port construction and channel deepening works – all of which were discussed in the conference.

The keynote address on the Musaffah Channel Project was delivered by Amer Al Hamadi, executive director of planning and infrastructure of the Abu Dhabi Urban Planning Council. The work, essential for Abu Dhabi's economic development, was completed in 2011 and required careful planning to minimise impacts on environmentally sensitive seagrass beds.

The keynote address dovetailed perfectly with the conference theme, 'Virtue, Venture & Vision in the Coastal Zone'. By 'Virtue', CEDA means environmental awareness, while 'Venture' refers to the commercial development of the coast to benefit the local and regional economy. The third pillar, 'Vision' is the long-term planning needed to ensure a sustainable future.

The creation of artificial islands in the Gulf region has largely been associated with housing and leisure development, but these constructions are increasingly being used as an alternative to traditional drilling rigs for drilling. Wednesday's second session was devoted to the topics of channel dredging and the creation of offshore islands, with presentations from NMDC, DEME and Worley Parsons. Mostly, these were to serve the offshore oil and gas industry, but in one case study from Abu Dhabi the island was considered to be the best way to dispose of dredged material because of the environmental benefits.

A wide-ranging academic and technical session followed, covering topics as diverse as standardisation in the dredging industry and beach formation in sensitive areas. Conference chair Prof Cees van Rhee noted in his concluding remarks: "It was very good to see the integration of disciplines", although he admitted that there was more to do.

While the conference's opening day focused on 'Ventures', the Thursday sessions discussed the 'Virtues' and 'Vision' in more detail, with presentations including 'Sustainable Development of Land Reclamations and Shorelines' and a review of the role of silt curtains in dredging projects.

Just before the conference closed, the IADC Young Authors Award was presented to Arnaud Verschelde and Dredging International, Belgium, for the paper entitled 'Erosion Behavior of a Draghead'.

No CEDA Dredging Days would be complete without an exciting programme of technical visits, and this was no exception. Delegates were able to see the Mangrove Channels environmental project, the new fishing port next to Saadiyat Island, Al Maryah Island and Abu Dhabi's Corniche Beach. National Marine Dredging Company (NMDC) provided a guided boat tour for delegates, but a select group enjoyed a thrilling view of the facilities from a helicopter.

Anders Jensen highlighted another benefit for attendees: "With 170 participants representing 53 organisations from business, government and academia and coming from 19





countries CEDA Dredging Days 2012 certainly made use of the potential for professional exchange.” It was, said one participant “a perfect conference”.

The following companies participated in the exhibition: DHI; Dredging International/MEDCO; Gulf Cobla; IHC Merwede; Liebherr; Machinefabriek L. Straatman; Marinestar; NMDC; REMU; Van Oord Middle East; Wärtsilä; Xrosswater.

CEDA is grateful to the following three CEDA member companies for their support to Dredging Days 2012: Main sponsor, National Marine Dredging Company (NMDC) Gulf Cobla from the UAE and Vuyk Engineering Rotterdam from the Netherlands. *IHS Dredging and Port Construction*, CEDA’s official magazine, was the official media partner. The Society of Engineers – UAE acted as a supporting partner.



Amer Al Hammad of the Abu Dhabi Urban Planning Council Council (UPC) delivers his keynote address



The conference was marked by plenty of interaction. Here, Mootaz Khaled of ADNOC, UAE, makes an intervention



One of the breath taking views from the helicopter – an unusual method of transport for a technical visit



An enthusiastic group is ready to sail



There was always an attentive audience



Arnaud Verschelde (l) receives the Young Authors' Award from Rene Kolman, Secretary General of IADC



**Central Dredging Association**

Member of the World Organisation of Dredging Associations, WODA



## CEDA-RSHU Dredging Session at Coastal Conference in Russia

4 October 2012, Tuapse, Russia

CEDA's involvement in the Sea Coasts conference organised by the Sea Coasts Working Group of the Russian Academy of Sciences and the Russian State Hydrometeorological University (RSHU) highlighted the co-operation between CEDA and the RSHU.

It all started when Prof Michael Shilin of RSHU attended a CEDA seminar in 2008 in Tallinn, Estonia. He seized the opportunity to suggest to general manager Anna Csiti and CEDA Environment Commission chairman Polite Laboyrie that CEDA should organise a similar event in St Petersburg. With the support of the CEDA Board and RSHU the seminar 'Eco-friendly Dredging in the Modern World' took place in 2009.

The next initiative was the translation of CEDA-IADC's book 'Environmental Aspects of Dredging', which will be published in 2013. The translation was carried out at RSHU and checked on behalf of CEDA and IADC by Dr Stanislav Verichev of IHC Merwede.

The culmination of the CEDA-RSHU co-operation was the joint session on dredging at the XXIV International Coastal Conference, 'Sea Coasts – Evolution, Ecology, Economy' that took place from 1 to 6 October at Tuapse on the Black Sea. It proved highly successful, attracting more than 100 participants from Abkhazia, Bulgaria, Estonia, Germany, the Netherlands, Spain, Turkey, Ukraine, as well as Russia.



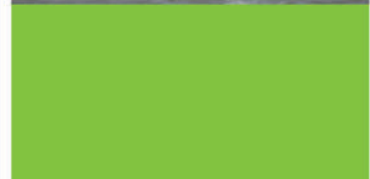
Participants came from all over Russia and from eight other countries



Dredging Session organisers (l to r) Maria Mamaeva, Michael Shilin, Anna Csiti and Polite Laboyrie

The CEDA-RSHU-sponsored dredging session presented experiences and best practice on construction of port facilities and dredging works on the Black and Baltic seas. Convened jointly by Polite Laboyrie CEDA Environment Commission Chair and Michael Shilin, was a first in the conference's history.

The session focused on construction and exploita-





tion of hydraulic engineering and dredging works in coastal areas. There were five presentations:

- ‘The Lessons Learned from Constructing the St Petersburg Flood Barrier Protection’, by Mark Bakker of Boskalis Russia, Moscow
- ‘Design and Construction Challenges of Hydraulic Engineering Structures on the Coast of Big Sochi’, by Prof Konstantin Makarov, Sochi State University
- ‘Problems of Shoreline Protection in the Imeritinskaya Valley in Big Sochi’, presented by Prof Grigory Koff, Institute of Water Problems, Moscow
- ‘Issues Relating to the Construction of New Port Facilities on the Black Sea Coast, Using Filyos Port in Turkey’ as an example, by Marijn Huysmans, Witteveen+Bos, the Netherlands
- ‘The Concept of an Eco-friendly Port at Ust-Luga’, by Maria Mamaeva, RSHU

To conclude the session, Prof Shilin announced the Russian

translation of the CEDA-IADC handbook ‘Environmental Aspects of Dredging’, which is to be published by RSHU in 2013. This generated great interest among conference participants, many of whom promptly ordered the book.

The conference proceedings have been published in two volumes and can be viewed at the CEDA Secretariat. The digital version – along with the presentations – can be downloaded from <http://2012.seacoasts.ru/content/materials>. Most papers are in Russian with an English summary.



Two CEDA speakers (l to r): Mark Bakker and Marijn Huysmans

### Environmental Aspects of Dredging Training Course

19-20 April, Delft, the Netherlands; 10-11 December 2012, Abu Dhabi, UAE

This course is based on the book of the same title, produced as a joint effort by CEDA and IADC and published by Taylor and Francis in 2008. The training was provided on two occasions in 2012:

- 19–20 April in Delft, the Netherlands, in co-operation with the Postgraduate Academic Programme (PAO) of Delft University of Technology and
- 10–11 December in Abu Dhabi, United Arab Emirates.

Compressed into two very full days, the course comprises lectures and working group sessions. Topics include an overview of the players who may become involved in dredging projects and their perspectives; the main types of dredging equipment, their environmental impacts and possible mitigation measures; and pre-dredging site investigations, monitoring and dredged material management.

In the workshops, participants work in small groups to come up with solutions for dredging projects that are similar to real-life dredging situations. These groups are put together with great care to ensure the greatest breadth of experience within each group, which maximises the learning experience. The composition of the groups in fact mirrors that of CEDA itself, so they include clients, consultants, contractors, government agencies and manufacturers.



At the course in Delft



At the course in Delft





Working group sessions are perfect for knowledge networking



Presenting the result of the group work...



...and getting feedback on it from the course leaders. Here we see (l to r) Mark van Koningsveld and Pol Hakstege

The in-depth lectures and workshops were enhanced by the up-to-date knowledge and unrivalled experience of the lecturers.

The course's content evolves continuously, keeping up with fast-changing attitudes towards the environment and its protection. One such important change is the move from a reactive to a more proactive strategy that takes environmental considerations into account at the earliest possible stage of a project. In line with that, the latest knowledge and experience of the 'working with nature' and 'building with nature' approaches have been incorporated into the lectures.

## World Dredging Congress XX – The Art of Dredging

3–7 June 2013, Brussels, Belgium

The most important event in the dredging professional's calendar, the 20th edition of WODCON, is being organised by CEDA on behalf of the World Organisation of Dredging Associations (WODA). It is being held in Brussels and runs from 3 to 7 June 2013. The Belgian capital is the ideal location because of its concentration of dredging knowhow, its highly developed maritime and fluvial infrastructure and, not least, because of the city's combination of commercial vibrancy and civilised charm. There are more details in the 'WODCON XX in a Nutshell' on page 20.

## CEDA Presentations at Events Organised by Others

In addition to organising our own events we gave presentations at the following events:

- IMO Workshop 'Protection of Urban Ports and Ocean Environment' (14–18 May, Jeju, Republic of Korea). Polite Laboyrie talked about European approaches to sustainable sediment management. He also presented the CEDA information and position papers on turbidity monitoring (2011) and on underwater sound (2011) and climate change adaptation (2012).
- Remtech Seminar: Remediation Technologies (19–21 September Ferrara, Italy). Polite Laboyrie gave a presentation entitled "CEDA's role in promoting sustainable dredging solutions".



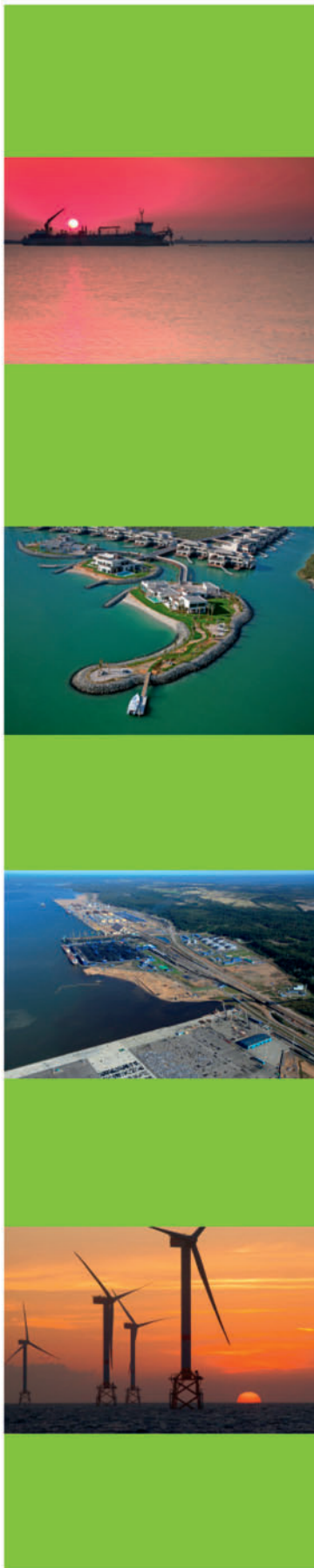
The panel of presenters at the workshop in Jeju





**Central Dredging Association**

Member of the World Organisation of Dredging Associations, WODA



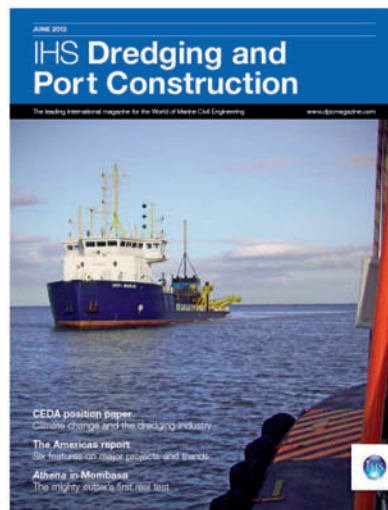
## SERVICES

In addition to providing a platform for information exchange and networking by organising conferences, seminars and training courses, CEDA offers a variety of other services to members. In particular, it publishes information both in print and online. It also makes it possible for corporate members to present themselves online, at events and in publications including white papers. With the release of the CEDA Digital Library (CDL) digital services were stepped up considerably in 2011.

## PUBLICATIONS

### CEDA's Official Magazine, IHS Dredging and Port Construction – DPC

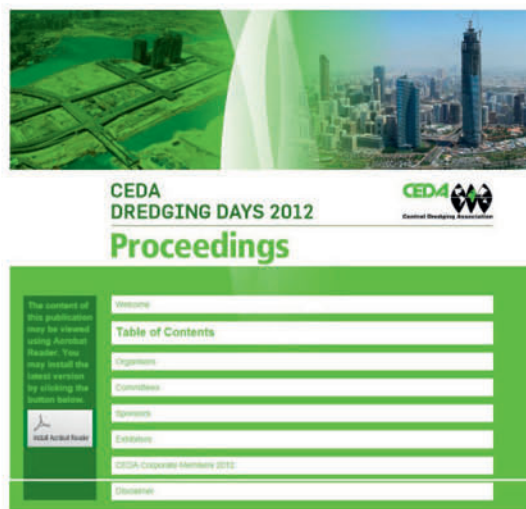
Every CEDA member receives, as a benefit of his/her membership, a subscription to *Dredging and Port Construction (DPC)*, the official magazine of CEDA. This specialised monthly publication keeps the readers informed of the latest developments in the sector and is helpful in identifying appropriate business partners. DPC also keeps readers up to date on the activities of CEDA and its sister associations, EADA and WEDA. CEDA members have access to the online version of DPC and can browse or download the archives.



*DPC keeps the readers up to date on CEDA activities*

### CEDA Dredging Days 2012 Proceedings

All papers presented at CEDA Dredging Days are published in the conference proceedings. Included papers are rigorously peer-reviewed by acknowledged international experts for relevance, timeliness and quality to ensure that academics, practitioners and decision-makers have access to the most authoritative and up-to-date information on all aspects of dredging and related fields. These proceedings are the most comprehensive source of information for the dredging industry on a broad range of associated topics, whether technical, legal or managerial.



*The proceedings of CEDA Dredging Days contain a wealth of information*

Since 2011 the CEDA Dredging Days proceedings have been included in the CEDA Digital Library, in many cases also incorporating the presentation files of the speakers. Participants and CEDA corporate members have access to these files right after the events. The popularity of these online documents is clearly demonstrated by the website's statistics.



## CEDA Position Paper: Climate Change Adaptation as it Affects the Dredging Community

Published in May 2012, this paper seeks to raise awareness, to help the dredging community prepare for the consequences of climate change, and to understand how dredging can contribute to adaptation measures.

The dredging community is made up of all those involved in any kind of activity related to dredging. This includes not only contractors and manufacturers within the dredging industry itself, but also port and water authorities, policy-makers, regulators, consultants and stakeholder groups. Geographically, this CEDA position paper focuses on north-western Europe, but other parts of the CEDA area may face similar challenges.

Climate change is now a fact. It is also now widely accepted that human activities are playing a role in the increase of greenhouse gas emissions that have accelerated global warming over the past century, although the significance of the human contribution remains a matter of debate.

The position paper highlights the main implications of climate change for dredging and discusses potential preparatory and adaptation measures in general terms. It elaborates on specific climate change issues and adaptation requirements and options in relation to three typical environments in which dredging takes place: open coasts; seaports, estuaries and access channels and inland waters. The document's authors find that innovation and flexibility will be crucial factors for successful and sustainable adaptation both in terms of technical solutions and in the regulatory context.

The position paper has been produced under the remit of the CEDA Environment Commission by a CEDA working group with members representing a wide range of expertise, disciplines and countries. It has been reviewed by experts on dredging from various professional groups.

CEDA will continue to facilitate and support the wider dredging community in meeting these challenges and delivering effective climate adaptation.

The position paper has been presented on numerous occasions including meetings of the London Convention and OSPAR Convention. It has also been reprinted by the magazines IHS Dredging and Port Construction and Port Technology International.

The document can be downloaded from the CEDA website.



*The Working Group on Climate Change during the final drafting meeting. In the picture (clockwise from left): Ida Brøker, Pol Hakstege, Braam Steijn, Lucas Lowe-Houghton, Jan Brooke, Maertens Jonas*



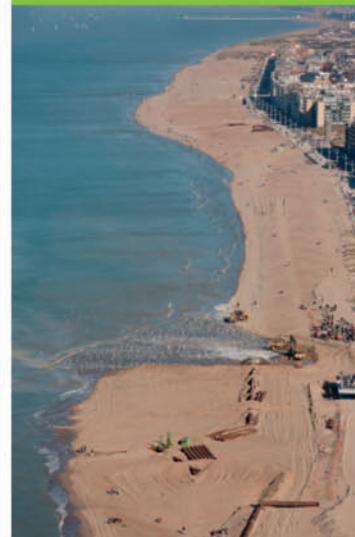
*The Sand Engine on the Dutch coast*



*Koge Bay, Denmark*



*Profile nourishment in combination with reclamation of the subtidal (submerged) beach at Koksijde Belgium for sustainable and integrated coastal defence*





### WODA Technical Guidance on Underwater Sound (in preparation)

Underwater sound has been receiving increased attention in recent years because of concerns about the effects of such sound on living organisms. In 2011 CEDA published a position paper on underwater sound in relation to dredging, which was very well received by members and international groups. As a follow-up to this work, a WODA expert group has been set up to:

- Produce further state-of-the-art review of ambient sound, dredging-induced underwater sound and its impact on aquatic biota
- Develop an underwater sound monitoring protocol/procedure.

The Expert Group met twice in 2012. The guidance document will be presented at WODCON XX in Brussels. CEDA Information Paper on Ecosystem Services and Dredging (in preparation)



*The WODA Expert Group has members from CEDA, WEDA and EADA. In the picture (l to r) Gerard van Raalte, Pim de Wit, Frank Thomsen, Christ de Jong, Martina Holtkamp*

### CEDA Information Paper on Ecosystem Services and Dredging (in preparation)

The aim of this document – to be published in June 2013 – is to explain ecosystem services (ES) and the subject's relevance to dredging and marine construction works. By doing so, it will contribute to the wider debate on the application of the ecosystem service approach from the perspective of the dredging community. This could help by moving the discussion on ES from the academic level to the practical dredging-applied level. For details by the working group chair, Pieter de Boer, please refer to the 'In the Focus' section of this report.

### CEDA Documents Reprinted by Magazines and Professional Journals

In addition to *IHS Dredging and Port Construction*, various professional magazines reprint CEDA document and conference papers or publish updates on CEDA activities on a regular basis. In 2012 the following documents or papers have been reprinted:

- CEDA Dredging Days 2011 paper by Bas Borsje et al, 'Biogeomorphological Interactions on a Nourished Tidal Flat: Lessons Learned From Building with Nature', which won the IADC Young Authors Award, was reprinted in *Terra et Aqua*
- A brief summary of the training set extension to the London Convention and its 1996 Protocol's 'Specific Guidelines for Assessment of Dredged Material' (previously known as the DMAF) was published by *Port Technology International*. The article was written by the lead author of the training set, Andy Birchenough
- The CEDA Information Paper 'Climate Change Adaptation as it Affects the Dredging Community' was published by *Port Technology International*.

#### Further

- CEDA contributed to the article 'Put in Hard Work and See the Results' in *Maritime by Holland* magazine by CEDA-NL Chair Johan Pennekamp
- An article entitled 'Voordeurbijbaggeraars is dicht, achterdeurstaatwagenwijd open' ('The Front Door of Dredging Companies is Closed the Back Door is Wide Open') from Johan Pennekamp was published in the Dutch daily newspaper for the construction industry *COBOUW* and
- An article entitled 'Understanding Dredging' by general manager Anna Csiti was published in *Hydro International*.



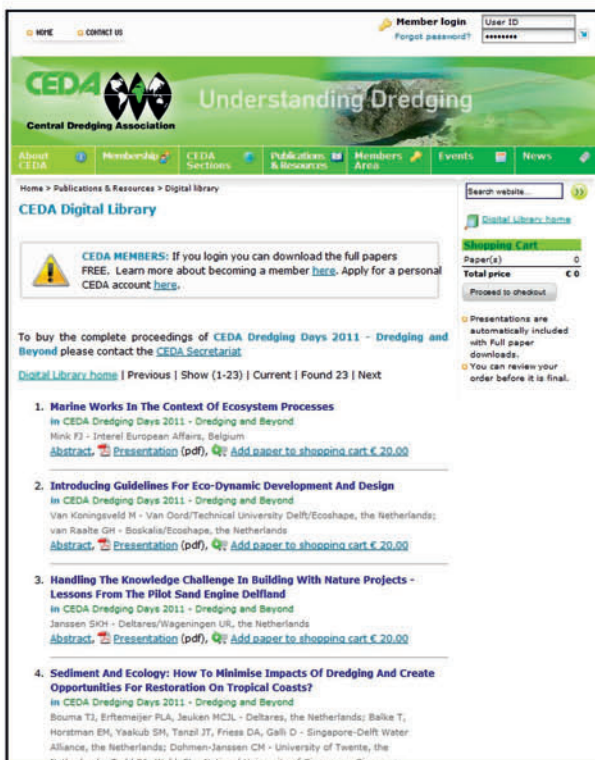
## Books with Discount for CEDA Members

We strive to make arrangements with publishing companies so that we can offer a CEDA member discount on relevant technical books. Books available at a CEDA member discount price are listed in the 'Publications and Resources' section of the CEDA website, [www.dredging.org](http://www.dredging.org).

## Digital Services

### CEDA Websites and E-newsletters

The two CEDA websites, [www.dredging.org](http://www.dredging.org) and [www.cedaconferences.org](http://www.cedaconferences.org), as well as the CEDA Newsletter, remain to be useful tools to inform members and others about CEDA's activities and to share relevant dredging knowledge and information. More and more employees of CEDA corporate members are opening personal accounts so that they can receive directly and without delay CEDA e-notices and e-newsletters even in the absence of the CEDA contact points for their organisations.



### CEDA Digital Library (CDL)

Opened in 2011, the CEDA Digital Library now contains more than 270 technical papers from CEDA conferences. All conference papers included in the CEDA Digital Library have been peer-reviewed by renowned international experts and provide high-quality technical content. For most of the papers the corresponding presentations made at the conferences can be also viewed online or downloaded, thereby bringing the content of the documents closer to the reader.

The CEDA Digital Library provides CEDA members immediate online access free of charge to a wealth of scientific and technical knowledge on a broad range of topics relating to dredging and the construction and maintenance of water-based infrastructure. Non-members can purchase the full papers for €20.00 per paper.

## Services to Corporate Members

Corporate members of CEDA have the opportunity to promote their products and services directly to the membership and to a broader audience through publishing

- Commercial white papers in the CEDA e-Newsletter and on the CEDA website and/or
- A short video on the front page of the CEDA website.

The listing of corporate members on the CEDA website, which includes hotlinks to the companies' own websites, is one of the most frequently visited pages of the CEDA website.



## IN THE FOCUS: CEDA WORKING GROUP ON ECOSYSTEM SERVICES

The concept of ecosystem services has been gaining increasing recognition as a mean to link ecosystems and development goals. The CEDA Environment Commission (CEC) decided in spring 2012 to set up a CEDA Working Group (WGES) to explore the subject in the context of dredging.



*Pieter de Boer  
Chair*

The task of the Working Group will be to prepare a CEDA information paper on ecosystem services (ES) in the context of dredging and marine construction.

The aim of the paper is to explain ecosystem services and its relevance to dredging and marine construction works and by doing so to contribute to the wider debate on the application of the ecosystem service approach from the perspective of the dredging community. This could help by bringing the discussion on ES from an academic level to a dredging-applied level.



*WEGUS members during their first meeting in Delft in July 2012 (l to r): Frederik Roose, Rob Niewkamer, Eric Mink, Michiel Smits, Jesper Dørge, Pieter de Boer, Henrich Röper, Jan Brooke*

Subjects that have been addressed are:

- Explanation of ecosystem services, ecosystem functioning and the value of ecosystem services, focussing on aquatic, coastal and marine environments
- Integration of the Ecosystem Services Approach into the planning, design, execution, monitoring and management of dredging and marine construction works to support achievement of sustainable development goals
- Reference to examples to currently available Ecosystem Service valuation-methods
- Indicators to describe the type and level of ecosystem services a project aims to deliver, and the evaluation of ecosystem functioning in terms of those indicators
- Economic considerations of ecosystem services in the context of dredging and marine construction works

The Working Group with experts from dredging companies, consultancies and water authorities held two meetings in 2012. The working papers and case-studies pointed out that there are already different methods and tools available to incorporate ES to some extent in the project design. Examples are Eco Dynamic Design (Building With Nature) and Life Cycle Assessments. The paper will explain how available tools can be used and will end with recommendations for further development of the concept of ES for dredging and marine construction. The working group aims at launching the WGES information paper at the next WODCON conference in June 2013.

For the full list of working group members please refer to page 31 in this report.

*Pieter de Boer  
Chair*





## SPECIAL FEATURE: UPDATE ON THE MARINE STRATEGY DIRECTIVE

### What has the MSNG achieved during 2012?

#### MSFD Implementation

In 2012 the main focus of the implementation of the Marine Strategy Framework Directive (MSFD) by the EU Member States (MS) has been to complete the Initial Assessment of their seas and to define Good Environmental Status (GES), including targets and indicators. As part of the implementation process each MS was required to organise a public consultation procedure. To facilitate possible participation by members of the Marine Strategy Navigation Group, MSNG, (see panel) in this consultation procedure Initial Assessment documents from the MS were made available via the CEDA website. So far 17 of the 22 MS have submitted their final Initial Assessments to the European Commission, of which two MS have only partially submitted a report or information. The MSNG is drafting an overview in which the approach of each MS to the descriptors of relevance to the MSNG will be listed. Once completed, this document will aid in the comparison of approaches to the determination of GES and associated targets between MS and across descriptors. This will enable the MSNG to decide whether follow-up is required for the descriptors of interest to the dredging and navigation sectors.



Noemi von Meijenfeldt  
Chair

In 2012 the European Commission (COM) launched a public consultation on "Marine Knowledge 2020: from seabed mapping to ocean forecasting" to understand stakeholders' opinions on options for future governance of the EU's "Marine Knowledge 2020" initiative and on the possible involvement of the private sector. MSNG contributed via an informal consultation response.

#### MSFD Workshops

Besides being present at all Marine Strategy Coordination Group (MSCG) meetings MSNG was also represented during the WG GES and WG ESA meetings held in 2012. Necessary comments were made, topics were raised, and/or alternatives were proposed. In general the MSNG is satisfied about the way our contributions were received, or how our comments were addressed by the Commission. Throughout its submissions the MSNG continues to highlight the importance of a level playing field, the consistent and not interchangeable use of pressures versus impacts and the importance of scale.

The MSNG was also present during various thematic workshops dedicated to specific topics within the MSFD. The most important one being the joint MSFD/WFD (Water Framework Directive) workshop. During this workshop Jan Brooke, chair of the WFD Navigation Task Group, WFDTG, gave a presentation on practical challenges faced by the ports and navigation sector when operating in the WFD-MSFD overlap. On several occasions the MSNG has raised the issue of existing overlaps between both Directives and stressing the importance of avoiding duplicating measures in coastal waters.

The MSNG was, therefore, happy with this initiative by the COM and their continued efforts to streamline both Directives.

Finally the MSNG made a formal submission to the thematic GES workshop on Contaminants/Eutrophication highlighting potential issues of concern to the dredging sector and participated in the thematic GES workshop on Biodiversity. MSNG intends to maintain an active, participative role in MSFD-related meetings and workshops in 2013.

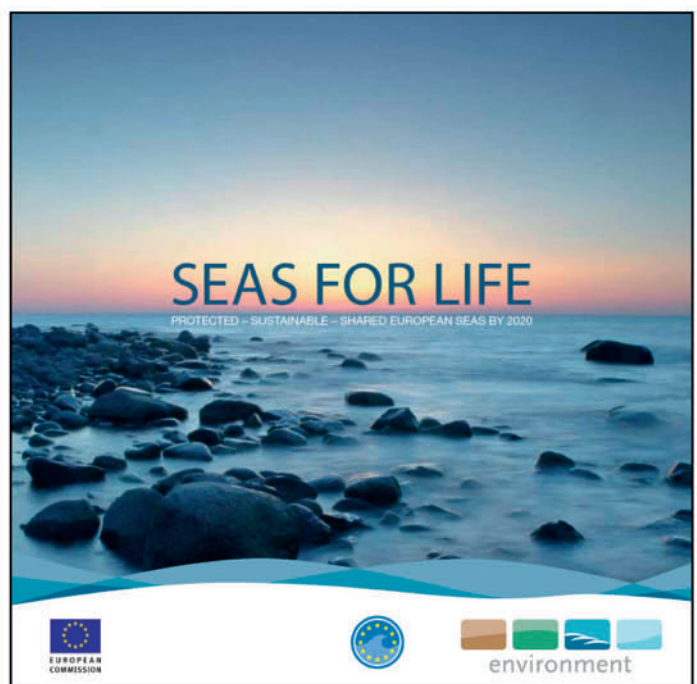
#### Publications

In February 2012 the "European Marine Strategy Framework Directive Good Environmental Status (MSFD-GES) Report of the Technical Subgroup on Underwater Noise and other forms of energy" was published. CEDA is represented on this Technical Subgroup.

The Marine Strategy Navigation Group (MSNG) is a 'thematic cluster' of nine navigation and dredging sector bodies that coordinates the responses of the participating associations to the European Commission's MSFD Common Implementation Process process based on their collective knowledge, experience and views. MSNG members include: CEDA - Central Dredging Association, EBA - European Boating Association, EBI - European Boating Industry, ECSA - European Community Shipowners Association, EuDA - European Dredging Association (Corresponding Member), ESPO - European Seaports Organisation, ICOMEA - International Council of Marine Industry Associations, ISU - International Salvage Union and PI-ANC - International Navigation Association.

MSNG is chaired by CEDA.

Noemi von Meijenfeldt  
Chair



The CEDA website contains a lot of relevant information about the MSFD such as the electronic copy of this useful introduction to the MSFD



## SPECIAL FEATURE: WODCON XX IN A NUTSHELL

Billed as “the world’s essential dredging event”, the 20th edition of WODCON is being organised by CEDA on behalf of the World Organisation of Dredging Associations (WODA), with much of the work being undertaken by the Belgian Section. The theme, ‘The Art of Dredging’, is highly appropriate to the venue, as the congress and exhibition are being held at the ultra-modern Square – Brussels Meeting Centre, in the Mount of Arts district of Brussels. The Belgian capital is dependent on that art for maintaining its access to the sea and to the network of rivers and canals that serve this part of Europe.

The core of the congress is the exceptional concentration of skills and experience distilled in the papers presented by around 120 speakers at the technical sessions. These run from Tuesday 4 June to Thursday 6 June in three parallel tracks. All the papers have been peer-reviewed and will be published in the conference proceedings, and there will ample opportunity for audience participation. The subjects range from case studies and technical improvements to dredging equipment to client-contractor relationships and dredging economics, so the sessions are sure to be lively as well as informative.



Some CEDA members of the WODCON XX Technical Papers Committee (l to r): Aneta Trajkovska, Cees van Rhee, Roberto Vidal, Anna Csiti, Johan Pennekamp, Michael Costaras and Henrich Roeper

As would be expected, the environmental aspects of dredging form the subject of many papers, as does the management of silt, sediment and slurry. Case studies are wide-ranging, reflecting the diversity of the speakers, who are drawn from all parts of the globe including Europe (with a strong Belgian flavour, of course), the USA, China and Japan.

Complementing the technical discussions will be a dredging exhibition, which allows leading companies from around the world to demonstrate their latest products and services. The exhibition area doubles as the space for refreshment breaks, so this will be a busy area for networking and doing business, as well as simply catching up with old friends.

The conviviality of the Belgian capital will certainly encourage networking too, for as well as being the political hub of the European Union and an important business and financial centre, it is renowned for its restaurants, cafés and night life. Brussels achieves the rare feat of combining small town

charm with grandeur and big city facilities.

Partners will experience that for themselves, as there is an appealing programme of outings, taking in architecture, surrealism and chocolate. The first trip, though, is to the beautiful old town of Bruges, once a centre for the lace-making industry, and now best known for its cobbled streets and picturesque canals.

The wider social schedule includes Monday evening’s ice-breaker cocktail, a splendid welcome reception in the magnificent 15th-century Town Hall and a Gala Dinner at Autoworld, which traces the history of the motor car from horse-drawn carriage to electric urban vehicles.

Something of that same broad scope is evident in the three technical visits. Delegates may choose from a boat trip down the Scheldt to learn how the Sigma Plan has evolved from a flood protection scheme into a blueprint aimed at ensuring safety, nature and accessibility along the river; a visit to the fascinating AMORAS silt dewatering and storage plant in Antwerp; and an inspection of what will be the world’s largest lock at the Deurganck dock, also in Antwerp.

WODCON XX will bring together expert representatives of manufacturers, universities, research institutes, consultants, public authorities working in the dredging, navigation, coastal and inland flood protection, deepsea mining, offshore wind energy, oil and gas production fields and providers of services such as brokers, insurers, financiers, lawyers, among many others. Special reduced-rate registration fees apply to members of CEDA, EADA and WEDA, PhDs and other students. More information is available from the appointed conference organiser, [wodcon@congrex.com](mailto:wodcon@congrex.com); tel: +32 (0)2 627 0166.

In addition to a high quality technical programme, WODCON XX will be packed with superb opportunities for networking and to enjoy the company of your peers



## COMMISSIONS

### Strategy Implementation Commission - CSIC

With the adoption of 'The Way Ahead – CEDA Strategy 2009', the Board committed to a more strategic approach to planning and implementing CEDA's activities. This keeps the focus on initiatives and actions that ensure CEDA meets the changing needs of members and remains relevant to them and to the dredging profession at large. CSIC's task is to make certain that CEDA keeps on track with this objective. The number of annual meetings it holds varies according to the tasks required. In 2012 CSIC met twice in response to the assignments from the Board.



*Hendrik Postma*

*Chair*

In 2012 CSIC reviewed compliance with the general guidelines for implementing 'CEDA Strategy 2009' and surveyed progress on the CEDA action plan for the year. The Commission developed the draft Action Plan 2013 including specific recommendations on new initiatives such as the webinars, the production of the updated version of the book 'Environmental Aspect of Dredging' and the update of the CEDA website. CSIC also made recommendations about membership development and proposed various actions. The recommendations and proposals have been considered and discussed in depth and subsequently adopted by the CEDA Board.

*Hendrik Postma*

*Chair*

### Environment Commission–CEC and CEDA's International Representation

The aim of CEDA's Environment Committee (CEC) is to generate and disseminate quality information on dredging and associated matters. It also helps develop guidelines relating to good practice and seeks to be proactive in providing expertise to policy-makers.

Practitioners are often faced with the need to make decisions in a balanced way or have to know how to handle a situation where some information is lacking (the precautionary principle). They are sometimes faced with dilemmas such as: what is more important nature or safety? The CEC tries to help with these dilemmas by providing expertise and case studies, starting discussions and producing position papers.



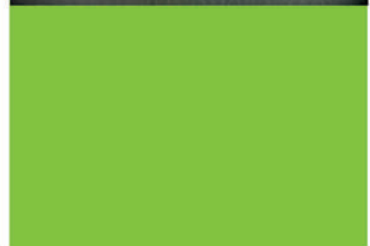
*Polite Laboyrie*

*Chair*

In 2013 we had two productive and well-attended meetings, one in the spring in Emden, Germany, hosted by the Bundesanstalt für Gewässerkunde, and one in the autumn in Copenhagen, Denmark, hosted by DHI. To make the meetings more productive the CEC introduced working sessions in a couple of subgroups, which has worked well.



*The spring meeting of CEC was hosted by the Waterways and Shipping Office of the Federal Ministry of Transport, Building and Urban Affairs in Emden, Germany (l to r): Axel Netzband, Andy Birchenough, Gerard van Raalte, Noemi von Meijenfeldt, Anna Csiti, Polite Laboyrie, Ida Bröker, Frederik Roose, Helmut Meyer, Pieter de Boer, Joël l'Her*





The CEC is fortunate to have members from Belgium, Bulgaria, Denmark, France, Germany, Italy, the Netherlands, Russia and the United Kingdom and, who are working for governments, port authorities, consultants, contractors, dredging constructors and research institutes. The background of the members is equally diverse, ranging from civil engineers and mechanical engineers to ecologists and academics. This variety ensures the committee can draw on a wide knowledge base and plentiful experience in the subject.

Making use of the experience of its members and delegates, the CEC has held discussions on a variety of subjects with bodies such as the Oslo and Paris Convention (OSPAR), the London Convention (LC) and the European Union (EU). The committee has thus been able to provide valuable experience in the form of a paper or a direct contribution from one of its members. In the case of a new subject or a subject where there are some gaps in the knowledge available, the CEC proposes setting up temporary task groups or working groups on these issues.

In the development of legislation the CEC plays an active role in the LC, OSPAR and EU policy advisory groups. The CEC works to ensure that legislation is developed based on the best available knowledge and that the mistakes of the past are not repeated. In these bodies, relevant items are new assessment guidelines for the handling of dredged material, the mitigation of underwater sound, and seafloor integrity. Discussions on what comprises a good environmental status are also current. Whenever CEC members take part in these discussions their contributions are appreciated.

It is apparent now that there is a new attitude towards the environment. It is no longer the case that a civil structure is designed and only afterwards are the effects calculated and mitigated. These days the environment and society are an integral part of the design process. Design principles such as 'building with nature', 'working with nature' and even 'engineering with nature' are being taken up globally and incorporated into new legislation and guidelines. In response to this development, the CEC is intending to develop a book as a successor to Environmental Aspects of Dredging that will be grounded in these new design principles.

Several position papers were produced in 2012. A position paper is largely the result of the interaction of several experts drawn from the CEDA dredging community – an example was the paper on 'Climate change adaptation as it affects the dredging community'. The paper proposed a range of plans and actions to ensure readiness for any possible effect of climate change. This paper was well received when it was presented at various international meetings. In 2011, after publishing a paper on underwater sound, CEC started an international WODA working group on the subject to fulfill the need for policy and science. For more details about CEC's responses to current developments of this kind, see the 'Publications' and 'In the Focus' sections of this report.

Another topic that will be subject of a forthcoming information paper is ecosystem services. The aim is to explain what ecosystem services are and show how they can be used in engineering practice.

The CEC takes a proactive approach to legislation. Because many of CEDA's members are based in Europe, the impact of European legislation is particularly important. This is why CEC is actively

*CEDA Members representing you at various international forums*



*London Convention*

*Top: Polite Laboyrie*

*Bottom: Andy Birchenough*



*OSPAR Convention  
Cor Schipper*



*EU Water Framework Directive  
Axel Netzband*



*EU Marine Strategy Directive  
Noemi von Meijenfildt*



**Central Dredging Association**

Member of the World Organisation  
of Dredging Associations, WODA



involved in the Water Framework Directive, the Waste Framework Directive and the development of environmental sediment quality standards. However, this year the committee's efforts were focused on the Marine Strategy Framework Directive,

In the London Convention last year it was the revision of the Dredged Material Assessment Guidelines that concentrated minds. The CEC's comments on behalf of CEDA and WODA were taken into serious account.

The CEC was involved in several joint events in 2012. On the Coast Expo in September, held in Ferrara, Italy, the chairman of the CEC gave a presentation on the activities of CEDA and the CEC. Also CEDA was a co-organiser of a dredging session during the International Coastal Conference in Tuapse, Russia (see page 11 in this report).

Of particular importance are the networking activities of the CEC. There were intense contacts with our sister associations WEDA and EADA and the committee was closely involved in the organisation of the Environment Session at WODCON XX in June 2013. CEC is happy to report once again the fruitful interactions and meetings with PIANC and EUDA as well as regular contact with DGE, ECOSHAPE, ICPDR and SEDNet.

The CEC continues to play a very active role within CEDA and is always looking to the future – and there are more than sufficient items on the agenda.

Polite Laboyrie  
Chair



*EU Waste Directive*

*Pieter de Boer*



*International Commission for the Protection of the Danube River (ICPDR)*





## Young CEDA

In 2012, Young CEDA concentrated on the following three main areas: activities, communication, and interaction with the CEDA Board and various CEDA Commissions.

In each of these areas, CEDA's youngest commission worked to achieve its' main objectives:

- Involve young professionals and students in CEDA
- Challenge the Board with new ideas
- Provide constructive feedback in the various CEDA Commissions
- Offer its' members (students and young professionals) a unique network in the field of dredging, representing research institutes, universities, industry, governmental authorities and consultants;
- Organize activities for Young CEDA members



Daan Rijks  
Chair

### Activities

Young CEDA organises activities such as technical excursions and seminars to involve younger members in the CEDA organization. Experiences from young professionals are presented and discussed, but Young CEDA also taps in on the extensive knowledge of the more experienced CEDA colleagues. In this way CEDA is kept alive and up-to-date. Indispensable after activity drinks offer ample opportunity to exchange ideas, gain new (technical) insights and expand networks with valuable new contacts.

#### *Seminar UK (March 2012)*

This year, Young CEDA organized a seminar in the UK with and at University of Southampton. Approximately 25 enthusiastic students attended the seminar and after an introduction on CEDA and Young CEDA in particular, they were treated to three presentations on real-time experiences in working in the dredging related industry from 3 difference young professionals representing consultants and dredging companies. Young CEDA thanks Katherine Harris and Lorraine Brown for organizing the event and of course the speakers and sponsors for making the seminar possible! More information and pictures on the Young CEDA webpage.



Students at the Young CEDA meeting at University of Southampton



Students at the Young CEDA meeting at University of Southampton

### WODCON XX

Young CEDA joined the WODCON XX committee to assist in the overall organization of this global event. One of the outcomes was the planning of a Young CEDA networking and drinks events during the WODCON days in June 2013.

#### *Excursion Amazone Harbour (Rotterdam)*

Young CEDA is jointly organizing an excursion to the Amazone Harbour port works including 1Mm<sup>3</sup> of dredging, 950m of quay demolition and 1km of quay wall construction. It also includes a unique visit to the nearby bulk terminal of EMO (Europees Massagoed- Overslagbedrijf), the largest in Europe. The excursion takes place in March 2013.

### Communication

In 2012, Young CEDA continued with its Linked-In group, posting CEDA topics and announcements reaching out to all Young CEDA members. All young CEDA members (individual or employed by CEDA member companies) are encouraged to apply for membership of the group via Linked-In and receive regular updates and information on Young CEDA activities.

Further, Young CEDA provided input for the CEDA newsletters and -website and DPC articles.

### Participation in the Board and Commissions

Young CEDA was invited to the Board meetings and provided input for various items that were discussed. Furthermore, it was involved in the CEDA commissions. Constructive involvement in the discussions aimed at launching new ideas, providing advice on involvement of younger members, representing the interests of younger members in the visions and strategies of CEDA and offering the Young CEDA network for spreading of general CEDA activities.



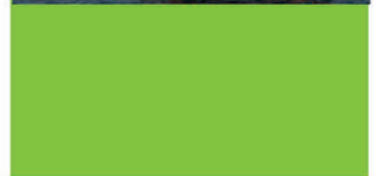
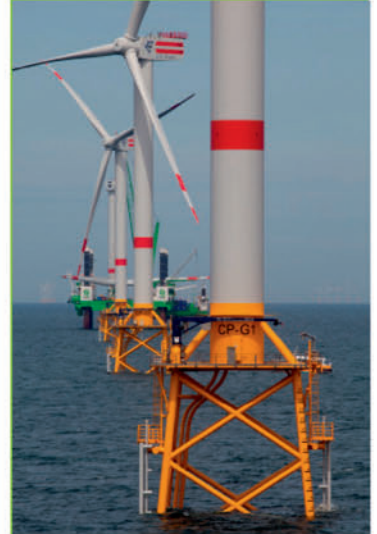
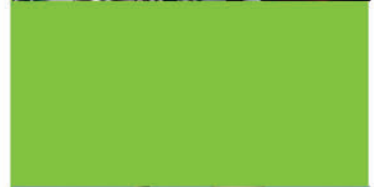
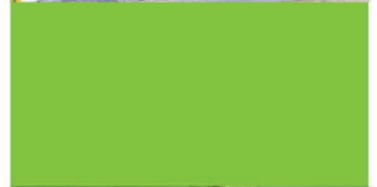
### Looking at 2013

In 2013, we will be present at the WODCON XX in Brussels and are planning on organizing a new series of excursions related to the Dredging and Marine Infrastructure Sector in the Netherlands, Belgium and Germany.

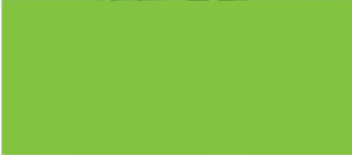
### Become a Member

Young professionals are invited to contact any Young CEDA member for more information, take a look at the dedicated Young CEDA pages by following the Young CEDA link on [www.dredging.org](http://www.dredging.org) and become member of the Young CEDA LinkedIn Group.

*Daan Rijks*  
Chair







## FINANCES

### Balance Sheet 2012 (preliminary figures\*)

Expenditures	K€	Income	K€
Office and governance	40,7	Membership Fees	
Staff	113,0	- Individual members	34,0
National sections		- Corporate members	212,0
- African Section	0,7	Interest and exchange diff.	5,2
- Belgian Section	5,1	Income events/sponsoring	36,2
- British Section	4,7		
- Netherlands Section	10,1		
Services and DPC subscriptions	25,2		
Environment Commission	3,7		
Promotion CEDA and Corp.	5,8		
Provisions	58,0		
Sundries	2,8		
<b>Total</b>	<b>269,8</b>		<b>287,4</b>
<b>Result</b>			<b>17,6</b>
<b>Reserves</b>			<b>410,2</b>

The final results will be presented at the Annual General Meeting on 7 November 2013, Ahoy, Rotterdam, the Netherlands.

## FIGURES

Individual CEDA members:	506
Corporate CEDA members:	129
National Section meetings:	11
Expenditures 2012:	€ 269 800
Budget 2012:	€ 243 892



## OBJECTIVES FOR 2013

Plans for 2013 naturally cover all our regular activities, such as the meetings of the national sections and providing independent expert advice at various international forums such as the London Convention, OSPAR and European Commission bodies. Beyond this, they include:

- Surpassing the outstanding success of WODCON XVII in Hamburg – the last one we organised – and treating the worldwide dredging community to the best WODCON ever
- Starting CEDA webinars as a further platform for CEDA facilitated knowledge-networking
- Organising a lively and interesting CEDA Forum during Europort 2013
- Updating the CEDA website and make it a one-stop source for dredging knowledge
- Designing a roadmap for the next five years in the Strategy Workshop that will strengthen CEDA's position as the foremost dredging knowledge networking platform
- Publishing the CEDA information paper on ecosystem services in the context of dredging and thereby helping to bridge the gap between theory and practice
- Publishing the WODA technical guidance document on underwater sound, which will contribute to the adoption of a global monitoring protocol/procedure enabling measurement results to be compared worldwide
- Setting up a CEDA working group to produce an information paper on adaptive approaches to dredging
- Setting up a CEDA working group to produce an information paper on monitoring procedures and analysis for compliance
- Starting work on a revised version of the book 'Environmental Aspects of Dredging'.

With these activities we continue our journey towards the vision that we set out in CEDA Strategy 2009 'The Way Ahead' and restate our commitment to strategic thinking and working. Our results last year and our strength and dynamism provide a sound foundation for a successful 2013.







## ORGANISATION

### CEDA Board of Directors

As stipulated in the statutes, CEDA is governed by the Board of Directors, which generally meets twice a year. After the election of November 2011 the Board of Directors counts 14 members from six countries. The next election will take place in November 2013. Lindsay Murray and Johan Pennekamp have been elected Vice-Presidents by the Board in April 2012.



*The second meeting of the Board in 2012 took place in Abu Dhabi and was hosted by the National Marine Dredging Company - NMDC (1 to r); back: Michael Costaras, Eric Van den Eede, Hendrik Postma, Anders Jensen, Yasser Nasser Zaghoul (guest); front: Lindsay Murray, Anna Csiti, Johan Pennekamp, Kathleen De Wit*

### CEDA Annual General Meeting

The Annual General Meeting (AGM) in 2012 took place on 16 October in Beveren-Waas, Belgium. During this AGM the President gave a brief overview of the activities and achievements of CEDA in 2011/2012, the Secretary/Treasurer presented the final figures for the year 2011 and the Audit Committee reported its findings.



*Joris Santermans presents the Audit Committee report*

### CEDA Secretariat

The day-to-day management of CEDA is carried out by a permanent secretariat based in Delft, the Netherlands. In 2012 CEDA employed two staff members with 1.63 full time equivalents: Anna Csiti, general manager and Yvonne Duivenman, administrative assistant. The main areas of work for the secretariat are (but not limited to):

- Planning, managing, executing or supporting the execution of various CEDA projects
- Overseeing, organising and assisting CEDA activities including CEDA Dredging Days, seminars and conferences
- Supporting the Board of Directors and the various CEDA commissions
- Acting as CEDA's contact point for other related organisations, individuals and national sections
- Developing and maintaining the online presence of CEDA
- Managing CEDA's financial and operational administration
- Membership administration
- Acting as the secretariat for the Dutch Section.

Apart from the central CEDA secretariat, every national section organises its own national secretariat.



## WODA Board and Secretariat

Following the rotating pattern of the organisation of WODCONS, the WODA chairmanship also rotates between the three component associations. The WODA chair and the WODA secretariat is always with the association that is organising the forthcoming WODCON. Accordingly, the current WODA chairman is the CEDA president, Anders Jensen, and the current WODA secretary general is the CEDA general manager, Anna Csiti.

## CEDA VOLUNTEERS

A word of thanks is due to all the volunteers who work for the benefit of CEDA. We pay tribute to all those silent – and sometimes not so silent – workers who give up some of their free time to contribute to CEDA's successes. In many cases, their employers allow them to do part of this work in their company's time, so we express our gratitude to those companies too.

In 2012 the (wo-)manning of CEDA's voluntary based units was as follows :

## STANDING BODIES

### Board of Directors

#### Elected members

Michael Costaras, HR Wallingford, UK  
 Kathleen De Wit, IMDC, Belgium (*Chair Communications Commission*)  
 Claudia Flecken, Hamburg Port Authority, Germany  
 Wim Klomp, Royal HaskoningDHV, the Netherlands  
 Tarik Jakhoukh, Drapor, Morocco (*Chair CEDA-Africa Executive Committee*)  
 Anders Jensen, DHI (*President*)  
 Lindsay Murray, Independent Consultant, UK (*Vice-President*)  
 Johan Pennekamp, Deltares, the Netherlands (*Vice-President, Chair CEDA-Netherlands Executive Committee*)  
 Hendrik Postma, Royal Boskalis Westminster, the Netherlands (*Chair Strategy Implementation Commission – SIC*)  
 Cees van Rhee, Delft University of Technology, the Netherlands (*Secretary/Treasurer*)  
 Jan Vandebroek, S.D.I. (DEME), France  
 Bart Verboomen, Baggerwerken Decloedt & Zn (DEME), Belgium  
 Loek Verheijen, IHC Dredgers, the Netherlands

#### Ex officio members

Polite Laboyrie, Witteveen+Bos, the Netherlands (*Chair Environment Commission - CEC*)  
 Daan Rijks, Royal Boskalis Westminster, the Netherlands (*Chair Young CEDA*)  
 Eric Van den Eede, Waterwegen en Zeekanaal (*Chair CEDA-Belgium Executive Committee*)

#### General Manager

Anna Csiti, the Netherlands

#### Alternates to board members

Klavs Bundgaard, DHI, Denmark  
 Thibault van Craen, S.D.I. (DEME), France  
 Helmut Meyer, Federal Waterways and Shipping Administration, Germany  
 Daan Rijks, Royal Boskalis Westminster  
 Dirk Roukema, Blue Pelikan, the Netherlands  
 Denis Seuryncq, Dredging International (DEME), Belgium  
 Martin van Ommen, IHC Dredgers, the Netherlands

### Environment Commission - CEC

Andrew Birchenough, Cefas, UK  
 Eric van der Blom, IHC Merwede, the Netherlands  
 Ida Brøker, DHI, Denmark  
 Nicola Clay, HR Wallingford (from July 2012 Royal HaskoningDHV), UK  
 Anna Csiti, CEDA, the Netherlands  
 Siegfried D'haene, Dredging International, Belgium

Pol Hakstege, Ministry of Infrastructure and Environment Centre for Public Works, the Netherlands

Axel Netzband, Hamburg Port Authority, Germany

Polite Laboyrie, Witteveen+Bos, the Netherlands (*Chair*)

Igor Liska, International Commission for the Protection of the Danube River, Austria

Helmut Meyer, Federal Waterways- and Shipping Administration, Germany

Olivier Piet, CETMEF, France

Gerard van Raalte, Royal Boskalis Westminster, the Netherlands

Frederik Roose, Ministry of the Flemish Community, Belgium

Michael Shilin, Russian State Hydrometeorological University, Russia

Jos Smits, IMDC, Belgium

Emmanuele Zanotto, eAmbiente, Italy

#### Corresponding Members

John Dobson, EADA, Australia

Valerie Penchev, Black Sea Coastal Association, Bulgaria

Craig Vogt, Ocean and Coastal Protection Division, USA

Shuho Yano, Mitsubishi Heavy Industries, Japan

#### Alternates to CEC members

Stefan Aarninkhof, Royal Boskalis Westminster, the Netherlands

Katherine Harris, HR Wallingford, UK

Joël L'Her, CETMEF, France

Birgit Schubert, Federal Institute of Hydrology, Germany

Heinrich Roeper, Port of Hamburg, Germany

### Strategy Implementation Commission - CSIC

Anna Csiti, CEDA, the Netherlands

Wim Klomp, Royal HaskoningDHV, the Netherlands

Polite Laboyrie, Witteveen+Bos, the Netherlands

Hendrik Postma, Royal Boskalis Westminster, the Netherlands (*Chair*)

Bart Verboomen, Baggerwerken Decloedt & Zn (DEME), Belgium

Loek Verheijen, IHC Dredgers, the Netherlands

### Communications Commission - CCC

Anna Csiti, CEDA, the Netherlands

Kathleen De Wit, IMDC, Belgium (*Chair*)

Martin van Ommen, IHC Dredgers, the Netherlands

Bart Verboomen, Baggerwerken Decloedt & Zn (DEME), Belgium

### Young CEDA

Klavs Bundgaard, DHI, Denmark

Björn Gäbe, Federal Waterways and Shipping Administration, Germany

Katherine Harris, HR Wallingford Ltd, UK



Martin van Ommen, IHC Dredgers, the Netherlands  
 Daan Rijks, Royal Boskalis Westminster, the Netherlands (*Chair*)  
 Joanne Ronald, Van Oord UK, UK  
 Joris Santermans, IMDC, Belgium  
 Denis Seuryncq, Dredging International (DEME), Belgium  
 Yi-Bin Shan, Ministry of the Flemish Community, Maritime Access, Belgium  
 Andreas Wurpts, University Hannover, Germany

#### Country representatives:

Robin Morelissen, Deltares, the Netherlands  
 Frederik Roose, Ministry of the Flemish Community, Maritime Access, Belgium

#### CEDA-Africa Executive Committee

Fogan Kodjo Adegnon, Port Authority of Lome, Togo  
 Smain Bachtarzi, Meditram, Algeria  
 Abdelhamid Frioui, Meditram, Algeria  
 Riahd Hentati, Taparura, Tunisia  
 Abdelkebir Hmimou, Drapor, Morocco  
 Tarik Jakoukh, Group World Drapor (*Chair*)  
 Amadou Kane, Port of Dakar, Senegal  
 Anouar Khalifa, Agency of Marine and Ports Commerce, Tunisia  
 Ahmed Lofti, Institution for Port Construction, Morocco  
 Ahmed Mohktar, Port of Nouakchott, Mauritania  
 Ahmed Ould Mohameden, Port of Nouadhibou, Mauritania  
 Jean Piere Oyiba, Oprag, Gabon  
 Bara Sady, Port Authority of Dakar, Senegal  
 Carlos Da Silva, Port Authority Guinea Bissau, Guinea Bissau  
 Carlos Teixeira, Hidroports, Angola  
 El Houssain Youzalen, NC2, Morocco

#### CEDA-Belgium Executive Committee

Christiaan Dekeyzer, Jan De Nul  
 Christian Demeyer, Witteveen+Bos  
 Martin Ockier, Dredging International (DEME)  
 Jos Smits, IMDC  
 Eric Van den Eede, Waterwegen en Zeekanaal (*Chair*)  
 Bart Verboomen, Baggerwerken Decloedt & Zn (DEME)

#### CEDA-Netherlands Executive Committee

Aline Arends, Ministry of Infrastructure and Environment  
 Ivar Daemen, Van Oord Dredging & Marine Contractors  
 Kees van de Graaf, Dutch Dredging  
 Dirk Roukema, Blue Pelican Associates  
 Bert Kips, IHC Beaver Dredgers  
 Bart Pröpper, Royal Boskalis Westminster  
 Johan Pennekamp, Deltares (*Chair*)  
 Loek Verheijen, IHC Dredgers

#### Alternates:

Robbert Jan Nortier, Ministry of Infrastructure and Environment  
 Robin Morelissen, Deltares

#### CEDA-United Kingdom Executive Committee

Andrew Birchenough, Cefas  
 John Brien, Harwich Haven Authority  
 Steve Challinor, Royal HaskoningDHV  
 Nicola Clay, Royal HaskoningDHV (*Chair*)  
 Michael Costaras, HR Wallingford  
 Payam Foroudi, Halcrow Group  
 Nick Hodder, HR Wallingford  
 Daniel Leggett, Dredging International  
 Lindsay Murray  
 Ian Selby, The Crown Estate  
 Colm Sheehan, Anthony Bates Partnership

Will Shields, Royal Boskalis Westminster  
 Nick Smith, British Waterways  
 John Tharme, Van Oord UK

#### Retiring from the Committee in 2012 with special thanks for their contributions were:

Bob Kidd, Westminster Dredging Co  
 Martin Maloney, Anthony Bates Partnership  
 Brian White, Royal Boskalis Westminster  
 Peter Whitehead, ABP Marine Environment Research

#### TEMPORARY COMMITTEES AND WORKING GROUPS

##### Audit Committee 2012

Arjan van Egdom, Damen Dredging Equipment, the Netherlands  
 Claus Iversen, Femern A/S, Denmark  
 Robin Morelissen, Deltares, the Netherlands)

##### Advisory Group for the EU Waste Directive

Pieter De Boer, Ministry of Infrastructure and Environment (*Chair*)  
 Axel Netzband, Port of Hamburg, Germany  
 Nick Smith, British Waterways, UK

##### CEDA Dredging Days 2012 Technical Papers and Programme Committee

Cees van Rhee, Delft University of Technology, the Netherlands (*Chair*)  
 Michael Costaras, HR Wallingford, United Kingdom  
 Anna Csiti, CEDA, the Netherlands  
 Randa Hassan, NMDC, United Arab Emirates  
 Francis Hoef, Dredging International, Belgium  
 Anders Jensen, DHI, Denmark  
 Lindsay Murray, Cefas, United Kingdom  
 Gerard van Raalte, Royal Boskalis Westminster, the Netherlands

##### CEDA Dredging Days 2012 Coordinating Committee

Anders Jensen, DHI, Denmark  
 Anna Csiti, CEDA, the Netherlands  
 Yasser Nasser Zaghoul, NMDC, United Arab Emirates

##### Editorial Board 'Environmental Aspects of Dredging' – CEDA Representatives

Nick Bray, HR Wallingford, UK (*Chair*)  
 Anna Csiti, CEDA, the Netherlands

##### Editorial Committee CEDAwiki

Andreas Wurpts, University of Hannover, Germany (*Chair*)  
 Anna Csiti, CEDA, the Netherlands  
 Tim Maddock, Van Oord Dredging & Marine Contractors NV  
 Wim Vlasblom, Prof Emeritus, Technical University, Delft

##### WODA Expert Group on Underwater Sound – WEGUS

Fabrizio Borsani, Cefas, UK  
 Douglas Clarke, US Army Engineer R & D Center, USA - WEDA  
 Frederik Goethals, Dredging International (DEME), Belgium  
 Martine Holtkamp, MTI Holland, the Netherlands  
 Christ de Jong, TNO, the Netherlands  
 Gerard van Raalte, Royal Boskalis Westminster, the Netherlands  
 Frederik Roose, Flemish Government, Maritime Access, Belgium  
 Frank Thomsen, CEFAS, UK (*Chair*)  
 Elena San Martin, ABP Mer, UK (corresponding member)  
 Philip Spadaro, Arcadis-US (from August 2012 The Intelligence-Group), USA - WEDA  
 Pim de Wit, Port of Rotterdam, the Netherlands



**WODCON XX Technical Papers Committee – CEDA region**

Andrea Barbanti, Intea, Italy  
 Amine Benali, Atlantic Dredging Maroc, Morocco  
 Pierre-Yves Belan, CETMEF, France  
 Michael Costaras, HR Wallingford, UK  
 Anna Csiti, CEDA, the Netherlands  
 Anders Jensen, DHI, Denmark  
 Johan Pennekamp, Deltares, the Netherlands  
 Henrich Röper, Hamburg Port Authority, Germany  
 Marc Sas, IMDC, Belgium  
 Roberto Vidal, Dravosa, Spain

**WODCON XX Executive Committee**

Anna Csiti, CEDA, the Netherlands  
 Chris De Keyzer, Jan De Nul, Belgium  
 Kathleen De Wit, IMDC, Belgium  
 Johan Pennekamp, Deltares, the Netherlands  
 Eric Van den Eede, Waterwegen en Zeekanaal (*Chair*)  
 Ann Wittemans, Dredging International (DEME), Belgium

**Working Group on Climate Change Adaptation as it Affects the Dredging Community**

Ida Brøker, DHI, Denmark  
 Jan Brooke, Independent Consultant, United Kingdom  
 Pol Hakstege, Ministry of Infrastructure and Environment, the Netherlands (*Chair*)  
 Marijn Huijsmans, Witteveen+Bos, the Netherlands  
 Maertens Jonas, Dredging International (DEME), Belgium  
 Lucas Lowe-Houghton, Van Oord Dredging and Marine Contractors, United Kingdom  
 Bernard Malherbe, Jan De Nul, Belgium  
 Bram Steijn, independent consultant, the Netherlands

**Working Group on Ecosystem Services**

Pieter de Boer, Ministry of Infrastructure and Environment, the Netherlands (*Chair*)  
 Jan Brooke, Jan Brooke Environmental Consultant LTD, UK  
 Jesper Dørge, DHI, Denmark  
 Rene Kolman, IADC, the Netherlands  
 Patrick Meire, University of Antwerp, Belgium  
 Erik Mink, EuDA, Belgium  
 Rob Niewkamer, Witteveen+Bos/Ecoshape, the Netherlands (until October 2012)  
 Frederik Roose, Ministry of Flemish Community, Division Maritime Access, Belgium  
 Henrich Röper, Hamburg Port Authority, Germany  
 Elisabeth Ruijgrok, Witteveen+Bos/Ecoshape, the Netherlands (from October 2012)  
 Cor Schipper, Deltares, the Netherlands  
 Michiel Smits, IMDC, Belgium

**CEDA REPRESENTATIVES ON INTERNATIONAL BODIES****IMO: London Convention (1972) and Protocol (1996)**

Andrew Birchenough, Cefas, UK  
 Polite Laboyrie, Witteveen+Bos, the Netherlands

**OSPAR Commission**

Cor Schipper, Deltares, the Netherlands  
 Marie Pendle, HR Wallingford, UK (Intersessional Correspondence Group for the Marine Strategy Framework Directive)

**International Commission for the Protection of the Danube River - ICPDR**

Vera Breitung, Federal Institute on Hydrology (BfG), Germany

**European Union: Water Framework Directive Common Implementation Strategy**

Axel Netzband, Hamburg Port Authority, Germany

**European Union: Marine Strategy Framework Directive Common Implementation Strategy**

Noemi von Meijenfildt, Witteveen+Bos, the Netherlands

Anna Csiti, CEDA, the Netherlands

Frank Thomsen, DHI, Denmark (MSFD CIS/WG GES/Technical Subgroup Underwater Noise)

**European Union: Waste Directive – H14 Working Group to Developing Criteria for distinguishing hazardous / non hazardous waste**

Georg Reifferscheid, Federal Institute on Hydrology (BfG), Germany

**Water Framework Directive Navigation Task Group - WFDNTG**

Grahame Newman, British Waterways, UK

Axel Netzband, Hamburg Port Authority, Germany

**Marine Strategy Navigation Group - MSGN**

Noemi von Meijenfildt, Witteveen+Bos, the Netherlands

Anna Csiti, CEDA, the Netherlands

Axel Netzband, Hamburg Port Authority, Germany

**PIANC Environment Commission**

Anna Csiti, CEDA, the Netherlands

Polite Laboyrie, Witteveen+Bos, the Netherlands

**PIANC Envicom WG 143 (in preparation): Screening Evaluation of Environmental Effects of Navigation and Infrastructure Projects**

Ruben Abma, Witteveen+Bos, the Netherlands

**PIANC Envicom WG 150 (in preparation): Sustainable Ports, A guidance for Port Authorities**

Daan Rijks, Royal Boskalis Westminster, the Netherlands

**PIANC Envicom WG 157: Environmental Aspects of Dredging and Port and Waterway Construction around Coastal Plant Habitats**

Matthew James Jury, DHI (S), Singapore

**PIANC Marcom WG136 (in preparation): Recommendations for Sustainable Maritime Navigation**

Steve Challinor, Royal HaskoningDHV, UK



## THANK YOU

CEDA, as a small and independent organisation, cannot exist nor survive without the support of its members, especially its corporate members. This support is not only financial in the form of membership fees and sponsorship; it is also manifested by member companies and organisations endorsing their employees' active participation in CEDA's work through their membership in various commissions, committees, task groups and so on.

The Board of Directors of CEDA wishes to express their gratitude to the following companies and organisations who through their corporate membership contributed to CEDA's work and achievements in the year 2012.





## The Corporate Members of CEDA

Members who make a major contribution to our activities for which we thank them

### ACADEMIC BODIES AND EDUCATIONAL INSTITUTES

#### Delft University of Technology

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#### Vereniging van Waterbouwers

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CEDA Contact Point: Mr. F. Heinis



### CONSULTANCIES AND RESEARCH INSTITUTES

#### Antea Group

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Web: [www.anteagroup.be](http://www.anteagroup.be)  
CEDA Contact Point: Dr. ir. Renaat De Sutter



#### Anthony Bates Partnership Dredging and Costal Consultants

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#### ARCADIS Nederland BV

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CEDA Contact Point: Mr. J. Beaver



#### BMT JFA Consultants Pty Ltd.

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Tel.: +61(0)892 427 522 - Fax: +61(0)892 427 298  
Email: [jfa@jfaconsultants.com.au](mailto:jfa@jfaconsultants.com.au)  
Web: [www.jfaconsultants.com.au](http://www.jfaconsultants.com.au)  
CEDA Contact Point: Mr. T. Green



#### Centre d'Etudes Techniques Maritimes Et Fluviales (CETMEF)

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Web: [www.cetmef.equipement.gouv.fr](http://www.cetmef.equipement.gouv.fr)  
CEDA Contact Point: Mr. O. Piet



#### Deep B.V.

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Email: [info@deepbv.nl](mailto:info@deepbv.nl)  
Web: [www.deepbv.nl](http://www.deepbv.nl)  
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#### Deltares

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Web: [www.deltares.nl](http://www.deltares.nl)  
CEDA Contact Point: Ir. J.G.S. Pennekamp



#### DEMAS Dredging Consultants B.V.

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Web: [www.demas.nl](http://www.demas.nl)  
CEDA Contact Point: Mr. K. Ooms



#### DHI

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