



# Annual Report 2013



**Central Dredging Association**

## Understanding Dredging

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



# Annual Report



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## MESSAGE FROM THE PRESIDENT AND THE GENERAL MANAGER



Anders Jensen, CEDA  
President



Anna Csiti,  
General Manager

Dear Reader,

Last year was incredibly busy and very successful for us, and it was also a year when we passed a number of important milestones.

The highlight of 2013 was the memorable and very successful **WODCON XX** that we organised for the worldwide dredging community. Attended by 474 delegates from 31 countries, the congress featured 95 peer-reviewed technical presentations. These presentations, along with the exhibition and the technical visits, were testament to the innovation and creativity of the dredging sector. The social

and partner programmes were of the highest quality. Our host city, Brussels, the congress centre and the venues for the social functions were all exemplary. We were delighted by the enthusiastic feedback we received from the participants, who were liberal in their use of the words “magnificent”, “amazing” and “fantastic”. Organising WODCON XX was a demanding task and meant a lot of work for many people, but there is absolutely no doubt that it was worth the effort.

We celebrated this, our 20th, WODCON with a short slide show highlighting scenes from 46 years of WODCONs, going all the way back to WODCON I in 1967 in New York, together with major projects and memorable technological achievements.

WODCON XX also marked the adoption of the WODA Principles of Sustainable Dredging, a statement on 21st-century dredging practice agreed by CEDA, EADA and WEDA, the three associations that form WODA. The principles capture the common values to which each association subscribes, emphasising the need to work in harmony with natural processes and the site-specific characteristics of ecosystems. With these principles, our organisations can demonstrate that their driving force is achieving goals for the environment and for prosperity by promoting and organising active collaboration, exchange of views and use of the best available knowledge.

Less than five months after WODCON ended we staged our next international event, **CEDA Forum 2013**. It covered two important specialist subjects: working under exotic circumstances, with a focus on the Arctic, and the lessons learned from designing and executing large marine infrastructure projects in compliance with the EU Habitats Directive. Many members had been asking for more discussion time, so the Forum was designed to engage delegates and maximise the sharing of knowledge. The case-led workshop in which delegates worked in small groups proved a real hit. This was an experiment and a most successful one. We will certainly repeat the format in the future.

We published two significant papers: **WODA Technical Guidance on Underwater Sound in Relation to Dredging** and the **CEDA Information Paper on Ecosystem Services and Dredging and Marine Construction**. They were produced by international groups whose members, scientists and practitioners, encompass a broad spectrum of expertise, representing knowledge institutes, government, manufacturers, ports and contractors. These documents summarise state-of-the-art knowledge, offer key recommendations and are essential reading on their respective subjects.



*Another exciting project that we started.....*

Last year we started a programme of **webinars** so that distant members could participate in knowledge-sharing. A combination of 'web' and 'seminar', the word webinar represents a very specific kind of session. Participants can attend a webinar right at their desk, without needing to travel. They can engage with the speaker by typing questions into a question box and can view the recorded event at any time. We were thrilled to learn that 15 university students in St Petersburg, Russia, came together in the classroom to follow one of the webinars. This is exactly what we had in mind when we started this programme. In light of some very encouraging feedback we will pursue this programme with even more vigour.

Five years ago the CEDA Board of Directors adopted **CEDA Strategy 2009**, dubbed 'The way ahead'. This new commitment to strategic planning helps us focus on actions and initiatives that ensure we can grow, develop and stay relevant while remaining fiscally sound. At a brainstorming strategy workshop last year we started work on designing CEDA's strategy for the next five years. The workshop delivered many interesting ideas and in 2014 we will crystallise and convert them into a strategy.

Another exciting project that we started in the past year is the creation of a **new book on sustainable dredging**. We will do this in collaboration with the International Association of Dredging Companies (IADC), just as we did with the book *Environmental Aspects of Dredging* published in 2008. Although we are going to build on the 2008 work, the new book will be more than just an update. It will have a different scope, a revised structure and fresh content, reflecting our current knowledge and understanding.

Much more happened in the year that we can look back on with pride, as you will discover in this report. We would like to mention some particular milestones, however. Heading the list below is an event that was celebrated with an interesting round table discussion on topical subjects with prominent figures of the dredging community on the panel; the others were also cause for celebration.

- The 25th anniversary of the Belgian Section
- The 50th meeting of the CEDA Environment Commission
- The 35th anniversary of CEDA

Finally, we thank the many CEDA members who kindly volunteered their time - worth many thousands of valuable engineering hours - and who worked with enthusiasm and dedication on various committees and task groups or as technical representatives of our association. Thanks are also due to their employers, who endorsed their work for CEDA.

*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.

**CEDA Secretariat**  
Visiting and postal address:  
Radex Building  
Rotterdamseweg 183c  
2629 HD Delft  
The Netherlands

Phone: +31 (0)15 268 2575  
Fax: +31(0)15 268 2576  
ceda@dredging.org  
www.dredging.org



Member of the World Organisation  
of Dredging Associations, WODA

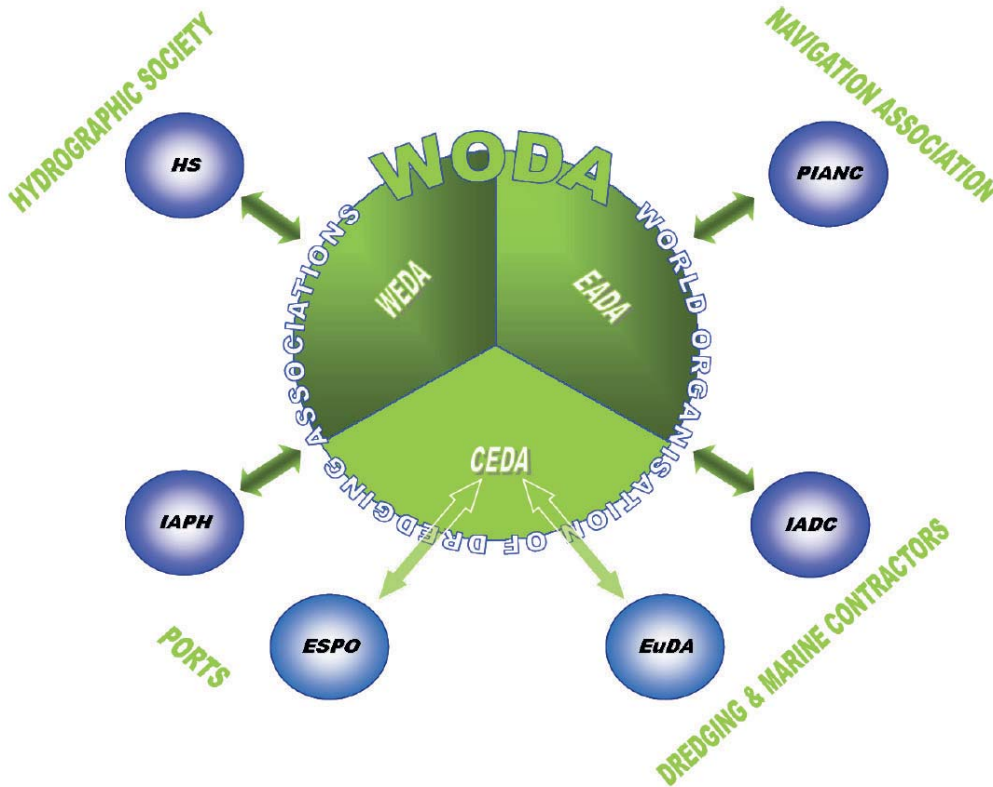
**Vision**

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, 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.

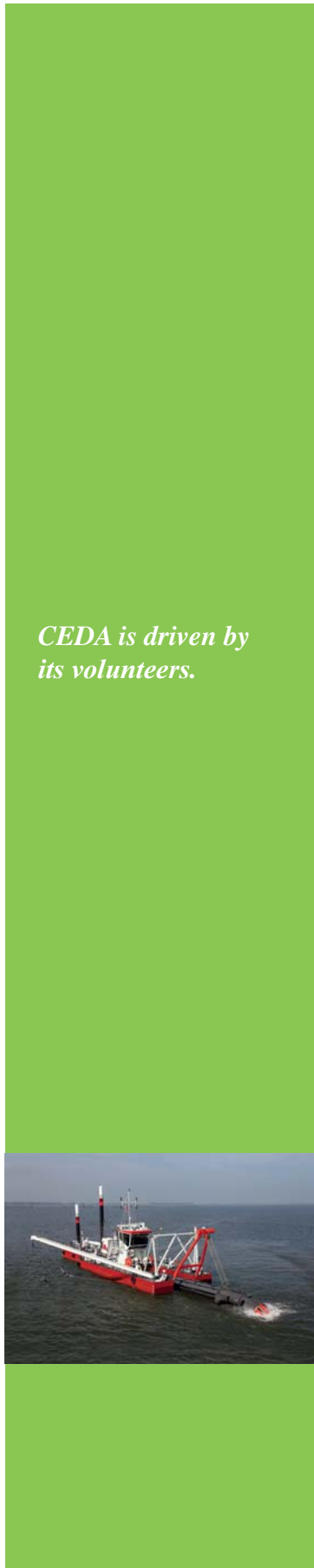


**MEMBERSHIP**

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, academics and regulators. The graphic and list on the next page illustrate the diversity and the geographical spread of CEDA’s members.



*CEDA members are active in many diverse fields.*

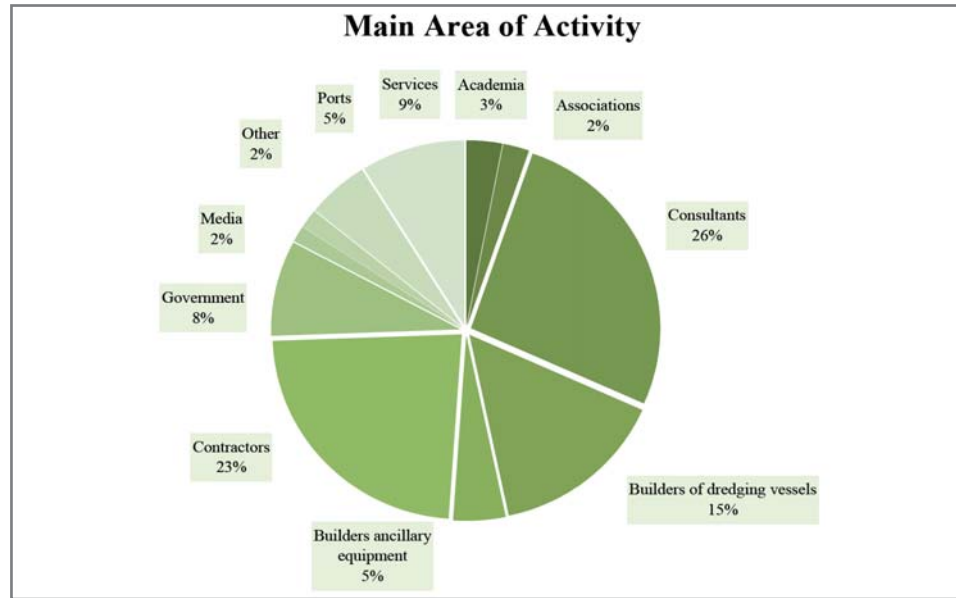


*CEDA is driven by its volunteers.*



**Central Dredging Association**

Member of the World Organisation of Dredging Associations, WODA



### Countries of origin



At the end of 2013, CEDA had 488 individual members, including 10 students, 9 starters, 36 retired members and 12 university or college lecturers. The number of individual members continues to decrease (in the previous year there were 506).

The number of corporate members has also fallen. At the end of 2013 we had 122 corporate members, two fewer than in 2012. The CEDA African Section added five more corporate members in 2013, resulting in a total of 133 corporate members.

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



**New corporate members**

In 2013 we were delighted to welcome the following companies/organisations as new corporate members in the CEDA community:

- Asicon, Division of Astron NV, *Belgium*
- Bradken, *UK*
- Russian State Hydrometeorological University RSHU, *Russian Federation*
- Dredge Yard, *The Netherlands*
- Gareloch Support Services BV, *The Netherlands*
- LLC Eco-Express-Service, *Russian Federation*
- Remu Oy, *Finland*
- TrustLube, *The Netherlands*



**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.

*CEDA volunteers:  
CEDA pillars*

**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 become part of the CEDA community.

In 2013, CEDA’s national sections continued to offer a successful series of meetings and site visits on topical subjects. Altogether, CEDA’s four national sections held a number of well-attended meetings, site visits and events over the year. Members can see many of the presentations on the appropriate national section pages of the CEDA website.

**African Section**



*Tarik Jakhoukh  
Chair*



*Khadija Legliti  
Secretary*

During 2013 the African Section chair, Tarik Jakhoukh, took interim retirement from office. During the CEDA Board meeting in November, Abdelamid Mimouni, President of Group World Drapor, the company that hosts the African Section Secretariat, confirmed that he was interested in taking on the chairmanship of the section and will stand for election at the African Section’s annual general meeting in April 2014.





*Abdelamid Mimouni (Group World Drapor) gives an update on the African Section to the CEDA Board in November 2013*

The CEDA Board conducted a detailed discussion about the status and future of the section. It has become clear that while there is a great need for the transfer of knowledge, in particular about cost-efficient strategies for dredging, the large geographic area and differences in language present considerable challenges. To eliminate the language barrier and make operations easier, the CEDA Board recommended that the geographical coverage of the current African Section be adjusted so that it concentrates on the French-speaking part of Africa. The section will have to be renamed to reflect this change. Efforts will be made to support the setting up of a regional section to serve the needs of dredging professionals in the English-speaking African countries.

*Anna Csiti  
General Manager CEDA*

## Belgian Section



*Eric Van den Eede  
Chair*



*Christel Goetschalckx  
Secretary*

## General Assembly

On 16 October the Belgian Section organised a general assembly to approve the updated rules and regulations that govern the internal operations. These are complementary to the general bylaws of CEDA. From now on, members of the executive committee have a mandate of four years that can be renewed. Every two years, half of the committee will resign to allow new members to be recruited.

During the general assembly Renaat De Sutter from Antea Group was confirmed as a new committee member.

## WODCON XX

The main event of 2013 was the 20th WODCON, organised with the support of the Belgian Section in Brussels. Between 3 and 7 June a total of 474 individuals came from 31 countries to participate in a highly appreciated technical and social programme. The technical programme included about 100 presentations organised in two or three parallel tracks.

One of the highlights was the reception at Brussels Town Hall. It included a guided tour of this magnificent building, which embodies the rich history of this city, once capital of the duchy of Brabant and now of the kingdom of Belgium and of the European Union. The event was equalled only by the closing banquet at Auto World, a museum of old-timers from the very beginning of the auto industry until the 1960s.

To encourage maximum participation, the fee was fixed at a reasonable level, but still the financial result was encouraging thanks to the higher than expected sponsorship and the fully booked exhibition. Read more about WODCON XX on page XX of this report.

## CEDA-Belgium 25 years

In 1988, under the initiative of the then chairmen Robert Simoen and Jean-Jacques Decloedt, the decision was taken to create a Belgian Section of CEDA. Until then, the Belgian members belonged to the Dutch Section.

The Belgian Section has proved a great success over the past quarter of a century, so it was decided to commemorate this anniversary with a special event. Not only all the Belgian and Dutch members were invited, but also more than 500 individuals from dredging-related companies, administrations and ports, in order to promote CEDA within these circles and to attract new members.

An academic session was organised at the Bijloke in Ghent. This medieval hospital has lately been transformed into a concert and conference centre. Over 200 participants attended a programme consisting of two round tables, a reception and a dinner. Eminent experts from the dredging community and the scientific world debated the future of the dredging industry and how the dredging industry can meet the challenges posed by climate change.



The panel at the 25th anniversary round table (l to r): Wim de Wilder (VRT), Bernard Malherbe (Jan De Nul), Freddy Aerts (Ministry of Flemish Community, Division Maritime Access), Marc Van Den Broeck (DEME), Kathleen De Wit (IMDC) and Ward De Broe (Port of Antwerp)



Over 200 people participated in the two round table discussions

**New Year reception**

On 29 January the traditional New Year reception was organised in Ostend at the Flemish Institute for the Sea. The reception was preceded by a keynote speech by Johan Vande Lanotte, vice-prime-minister of Belgium, who also has responsibility for the North Sea. He gave a very interesting presentation about the special plan for the Belgian part of the North Sea, which was at the time being submitted to public consultation. This plan is of particular importance for the dredging and offshore industries because it defines the zones where dredged material can be relocated, wind farms can be constructed and sand and gravel can be extracted.

**Actions for 2014**

CEDA-Belgium is as usual planning three events in 2014, one of which will be held in co-operation with the Belgian PIANC Section. Efforts to attract new members will continue.

*Eric Van den Eede*  
Chair

**British Section**



*Nicola Cay*  
Chair



*Cheryl Maund*  
Secretary

**Overview**

2013 was a year of consolidation for the CEDA British Section Committee. We changed our name to CEDA UK to appeal to a wider audience beyond London and the south east and to be inclusive to the regions.

The Committee has sought to strengthen its links with the ICE by placing a representative on The ICE Maritime Panel and with PIANC through sharing minutes and potentially co-badging appropriate events or seminars.





**Events and Activities**

Two half day technical meetings were held in 2013

- Rock dredging
- Dredging for the offshore industries

The first half-day technical seminar of 2013 focussed on rock dredging. The event was chaired by Will Shields of Boskalis and was broadcast live over the web. The event was technical in content and of considerable interest to the approximately 30 attendees from a range of organisations including dredging contractors and engineering consultants.

The event encompassed aspects of site investigation, rock pre-treatment, types of equipment for removal and environmental monitoring. Peter Verhoef, Senior Engineering Geologist with Boskalis discussed the various requirements of ground investigation with respect to techniques and results required in order to ascertain the most efficient and appropriate method of rock dredging. Gordon Steel from Rockall (a specialist subsidiary of Boskalis) described the various methods of underwater drilling and blasting of rock as pre-treatment prior to dredging. Esther Dijkgraaf, Van Oord Production Specialist for backhoes and backacter dredgers, focused on the Ichthys project in Australia where she has been involved in dredging of rock with a number of dipper dredgers and a cutter suction dredger. Tim Mason, Senior Consultant with Subacoustech Environmental Limited, explained the types of potential impacts on the marine wildlife with a specific focus on dredging, as well as the basis to the criteria they use and the tools they have to assess to them. Marc Van Den Broeck. Head of Research, Methods, Production and Engineering Department at DEME presented on the Deepening and Widening of the Panama Canal – direct hard rock dredging with cutter suction dredger and drilling & blasting techniques.

**Dredging for the offshore industries**

In December CEDA UK hosted a technical seminar about dredging for the offshore industries. The seminar was very well supported with 45 attendees – an excellent outcome for CEDA UK. The seminar theme highlighted that dredging is playing an increasingly important role in the development of the offshore industries with dredging companies and the energy industry recognising the key role this technology can play. Dredging has long been used in the oil and gas industry with specialised plant designed for rock placement on pipelines and currently considerable interest is focussed on the role of dredging for gravity based foundations for offshore wind farms. The seminar brought together speakers with expertise across these industries with Paul Hesk, Van Oord, explaining how dredging is used in oil and gas activities. John Sewell of Marine Minerals Ltd introduced his tin mining project off the North Cornwall coast. Bambang Sampurno, Fugro, highlighted the importance of survey techniques in the offshore environment and Nick Everington of The Crown Estate introduced the Crown’s role in offshore mineral activity. Discussion continued during the tea break and after the event as attendees networked and made new contacts.

**Site Visits**

A technical site visit was organised to DP World’s London Gateway Port. 26 visitors joined the CEDA UK visit and heard presentations from DP World and DEME about the progress and challenges associated with the project. Attendees were pleased to receive a tour of the site and to have the opportunity to watch the dredged material being pumped ashore.



*At the London Gateway Port*



Member of the World Organisation of Dredging Associations, WODA



*Ronny Simons (Dredging International) and Marcus Pearson DP World share their insights about this landmark project*

### **John Sargent Lecture**

The 2013 John Sargent Lecture was delivered by Bridget Rosewell of Volterra Partners and focussed on the topical subject in the UK ‘Why and what is a Thames Estuary Airport?’ Bridget explained that the UK’s future economic success will closely depend on its aviation capability and its ability to support aviation growth in a market leading way. The existing configuration of London’s airports appears to be inadequate even at current levels of demand, let alone as it increases. Capacity utilisation is at the maximum and the evolving market supports larger and larger airports around the world. The requirement will continue to change and aviation will need to offer flexibility. However, airports are also long term investments which need to look far ahead. Bridget highlighted that although many people have suggested going East to provide aviation capacity, not many have thought through all the different issues involved, whether of hydrology, airport design, accessibility for people and planes, regeneration and finance. Bridget described the project she was leading and how it met the aviation capacity requirements.

The presentation was very interesting and enlightening about this major unique project. The audience of circa 33 professionals asked numerous perceptive and targeted questions. The Committee would like to thank Bridget Rosewell for her 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 in April 2014 and CEDA has provided advice through representation at the stakeholder events. CEDA members were 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 included the designation of the first tranche of Marine Conservation Zones – notably MCZs affecting several port areas were not included in the first tranche of designations.

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. Nick Smith represents CEDA in discussions with Defra on inland dredgings.

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.

### **Future Events**

In 2014 the Committee is arranging a site visit to the Liverpool 2 Port development (dredging and reclamation), potentially to the Sand Motor in the Netherlands and also a boat trip in the Thames Estuary taking in the numerous major developments in the area. Details will be provided when the visits are confirmed.

We are rejuvenating the CEDA Liaison Group by bringing in The Crown Estate to bring a commercial and practical focus to the discussions about using dredged material.



*Taking its cue from the overall mission*

The 2014 John Sargent Lecture will be given by Andrew Bowen, Director of Engineering and Marcus Pearson, Environment Manager at DP World. Andrew and Marcus will tell the story of London Gateway Port from conception to opening and into the future.

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

- May: Port development and dredging in Scotland
- September: Legislation review and update
- December: TBC.

**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**

There have been no formal changes to the composition of the CEDA UK Committee in 2013. Nick Everington of The Crown Estate has attended meetings as an alternate to Ian Selby and has made an excellent contribution. All members have made a strong Commitment to CEDA through attendance at meetings and leading technical seminars and events. I would like to thank the Committee members for their continued dedication to CEDA and enthusiasm for our activities. I look forward to, and appreciate, the continued input from all Committee Members during 2014.

*Nicola Clay*  
Chair

**Dutch Section**



*Johan Pennekamp*  
Chair



*Yvonne Duivenman*  
Secretary

Taking its cue from the overall mission and goal of CEDA, the Dutch Section (CEDA-NL) focuses on disseminating knowledge and acting as a platform for networking in the Dutch and adjacent dredging communities.

In 2013 CEDA-NL organised ‘just’ five meetings instead of the normal six. The November meeting dropped from the schedule because of CEDA’s involvement in the Europort Exhibition, which was transformed into the CEDA Forum. The themes chosen for the meetings again proved appealing and all the meetings were well attended.

We were able to find two organisations, Deltares and the Port of Rotterdam, to host CEDA-NL’s meetings. Not only did this relieve the CEDA budget, but more importantly it brought the CEDA community close to their businesses.



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Speakers at the evening on Building with Nature at Deltares (1 to r): Stefan Aarninkhof (EcoShape), Walter Jacobs (Boskalis), Martin Baptist (IMARES & Van Hall Larenstein), Huib de Vriend (EcoShape & Delft University of Technology) and Johan Pennekamp (Deltares) evening chair



Christ de Jong (TNO) talks to a packed room at the World Port Centre in Rotterdam about measuring underwater sound

We continued to work on increasing the attendance and involvement of young professionals in the CEDA community, and these efforts proved fruitful as growing numbers were welcomed each time. The collaboration with adjacent branch associations, shipbuilders (KNVTS) and offshore industry (IRO) was extended and culminated in joint meetings.

The CEDA-NL meetings covered the following topics:

- 22 January: ‘Building with Nature: recently, now and future’, at Deltares Head Office, Delft
- 6 March: ‘Working in the Arctic’, in association with IRO
- 25 April: ‘Backhoe dredge Alberto Alemán Zubieta’, in association with KNVTS
- 16 May: ‘Maintenance/clean-up dredging in the River Vecht’
- 26 September: ‘Survey underwater sound’, at the World Port Centre, Rotterdam.

The organisation Maintenance in Dredging, of which CEDA-NL is one of the founders, convened three times in 2013 and discussed the following: 11 March: ‘Sustainable dilemmas’; 10 June: ‘Vibrations onboard – shocking’; and 4 November: ‘Gluing and repair actually, why do we still weld?’

Johan Pennekamp  
Chair



*We continued to work on increasing the attendance and involvement*

*A wide spectrum of products and activities on show*

## EVENTS

### Conferences and seminars

#### World Dredging Congress XX – The Art of Dredging

3-7 June 2013, Brussels, Belgium

The 20th edition of the World Dredging Congress and Exhibition, also known as WODCON XX, took place on 3-7 June 2013 at the Square – Brussels Meeting Centre in Brussels, Belgium. We were pleased to organise this event for the World Organisation of Dredging Associations, WODA, as one of its constituent associations.

The congress drew a huge number of participants. Over the four days delegates were able to meet 474 colleagues from 31 countries, attend and listen to 95 technical presentations and two keynotes, take part in three networking events (not counting lunches and coffee breaks), join three technical tours and visit more than 45 exhibition stands.

On Tuesday 4 June, during the opening ceremony, the Flemish Minister of Mobility and Public Works, Mrs Hilde Crevits, officially welcomed delegates to the Congress and gave a speech about the role of dredging in the current developments in the region.

To celebrate the occasion of the 20th edition of WODCON, delegates took a trip down memory lane, viewing a short video covering a 46-year time-span from WODCON I in 1967 in New York to WODCON XX. As the faces and moments of past WODCONs were briefly revisited, the video underscored the extraordinary development of dredging technology over the past half century. The opening ceremony ended with an amazing performance by Belgian singing group Laïs, a nice surprise for everyone.

#### An exceptional concentration of knowledge and experience

The core of the congress, the technical programme, began with the presentations of two excellent keynotes. First, David McGillewie, deputy chief engineer of Transnet National Ports Authority of South Africa, spoke about forthcoming capital dredging works in his country's ports. He was followed by Rogelio A Gordon, head of dredging operations of the Panama Canal Authority, who provided an overview of the Panama Canal expansion and its far-reaching effects on economy and trade.

In the technical sessions that continued through three days, running in two or three parallel tracks, experts from all over the world presented around 95 peer-reviewed technical papers. The speakers addressed the design and execution of dredging projects and tools from mathematical models to machines – a combination of knowledge, understanding and skill. The basic headings included the following:

- Alluvial and deepsea mining
- Methods, equipment and techniques
- Environmental issues, covering dredging with nature, assessment and monitoring, and remedial dredging
- Management of clean and contaminated sediment
- Management and economics
- Regulatory issues.

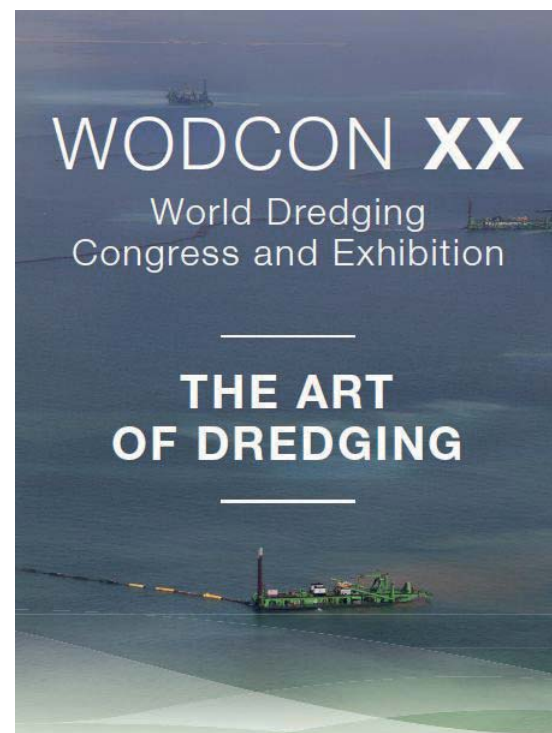
The congress programme also included a highly interactive session, The Dredging Debate, during which participants were challenged to consider and to take a stance on some of the today's hot dredging topics.

#### A wide spectrum of products and activities on show

The exhibition hall – dubbed the living room of WODCON XX – was where delegates gathered between the technical sessions. Leading international companies from around the globe were on hand to showcase a wide variety of products and activities, including dredgers and mining vessels of all sizes, equipment, software for oceanographic services, satellite-based positioning systems, rubber hoses, winches and steering gear, dredging instrumentation and automation systems, offshore marine engineering, vessel repairs, hydrographic and geotechnical surveying, and measuring and monitoring systems.

#### Enticing social programme

In the evenings enticing social programmes offered further opportunities for networking, relaxing and having a good time with friends. On Monday 3 June, at the Ice-Breaker in the exhibition area, delegates got their first taste of Belgium through taking part in the cheese and beer discovery tour. The next evening delegates enjoyed the cocktail at the exquisite Brussels City Hall reception, where some took a tour around the magnificent rooms of the historical building. On Wednesday, delegates and guests were invited to the gala dinner at a major Brussels attraction, Autoworld, where the successful congress and the 20th anniversary of WODCON were duly celebrated with





**WODCON XX moments**



*WODA directors and executives, keynote Speakers and distinguished guests, minutes before opening of WODCON XX*



*Hilde Crevits, Flemish Minister of Mobility and Public Works on the role of dredging in Belgium*



*WODCON's home - The spectacular Square*



**WODCON XX moments**



*Cutting the WODCON 20th anniversary cake (l-r) Anders Jensen, Chairman of WODA, President CEDA (DHI) and Eric Van den Eede, Chairman of the WODCON XX Executive Committee, member of the CEDA Board (Waterwegen en Zeekanaal)*



### WODCON XX moments



Great opportunity for networking



Prof. Cees van Rhee, Chairman of the Technical Papers Committee (Delft University of Technology) introduces the congress programme



Gala-dinner: Great time with friends



City Hall: Welcome Reception at the prestigious City Hall



WODCON's living room



Gala dinner at Autoworld: Welcome drinks amongst beautiful cars



During WODCON 95 technical papers were presented and discussed. In the picture: Sape Miedema (Delft University of Technology)

**Exhibitors**

ASICON, a division of  
 ASTRON | Alfa Laval  
 Benelux BV | AML  
 Oceanographic | Aqua  
 Vision BV | AQUAMEC  
 LTD - WATERMASTER  
 | Brusselle Enterprises |  
 Cable Arm | Changjiang  
 Waterway Bureau |  
 China Communications  
 Construction Company |  
 Damen Dredging Equipment  
 - Damen Shipyards |  
 Deltares | Denialink | DHI  
 | dotOcean | Eddelbüttel +  
 Schneider GmbH | Fugro  
 Satellite Positioning B.V. |  
 GEOxyz | Global Industrial  
 Supply Co Ltd | Holland  
 Marine Technologies | HR  
 Wallingford | IADC | IHC  
 Merwede | Indusign NV  
 | Jiangsu Huaxia Heavy  
 Industry Co | Machinefabriek  
 L. Straatman | National  
 Marine Dredging Company  
 | Nortek | Observator  
 Instruments | PROLEC LTD  
 | Redwise Maritime Services  
 | REMU Oy | Seatools  
 | Shanghai XinGeGang  
 Wear Resistant Compound  
 Materials | Shijiazhuang  
 Kingda Pump Industry Group  
 Co | SHIJIAZHUANG  
 MUYUAN INDUSTRY &  
 TRADE CO., LTD | Stema  
 Systems | Teledyne RESON  
 | Terrastar | The Japan  
 Workvessel Association |  
 | Tianjin Puyou Mech. & Elec.  
 Equipment | Trimble | Van  
 Oord Dredging & Marine  
 Contractors | Vosta LMG B.V

a birthday cake.

**Informative and enjoyable partner and technical tours**

While delegates were working, their partners had a wonderful time taking in the historical and cultural sights of Brussels and Bruges – one of the prettiest towns of northern Europe and creating and tasting their own chocolate bars.

On Friday, after three days of an intensive schedule of presentations, interested delegates could get a close-up view of one of three landmark projects: the Deurganck Dock Lock, the AMORAS mechanical silt dewatering plant or the Sigma flood protection plan.

**Paper Awards**

To encourage the highest standards in research and presentations two awards for papers were presented at WODCON XX:

- The Young Authors Award, by the International Association of Dredging Companies (IADC) with a €1,000 cash prize, was presented for the paper The art of screening: effectiveness of silt screens by Max Radermacher, Delft University of Technology; Fokko van der Goot and Daan Rijks, Boskalis; and Lynyrd de Wit, Svasek Hydraulics, the Netherlands
- The Best Paper Award offered by Dredging Contractors of America (DCA), worth \$500, was given for the paper Far-field and long-term dispersion of released dredged material by Thijs van Kessel and Bas van Maren, Deltares, the Netherlands.

CEDA is grateful to all the speakers and session chairs, the members of the Executive and Technical Papers Committees and also the sponsors and exhibitors for the support they gave to WODCON XX. The presentations and the full papers are available (free of charge to CEDA members) in the CEDA Digital Library on [www.dredging.org](http://www.dredging.org). A large selection of photos and the anniversary video can be viewed on [www.wodcon.org](http://www.wodcon.org).

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## CEDA Forum 2013: Dredging in a Changing World an ‘experiment’ worth following up

7 November 2013, Rotterdam, the Netherlands

We rang the changes with our Forum during Europort this year.

After WODCON XX we saw our presence at Europort 2013 as the perfect opportunity to organise an event that allowed more interaction and networking, giving delegates the chance to engage fully with each other and with the content. We did this in response to requests from many of our members for more discussion time at our events.

All the elements, from the announcement fliers to the meeting room setup and, most importantly, the programme design, were geared towards bringing this experience to delegates while maximising knowledge-sharing.

The Forum’s main components were two workshops, each looking at an important specialist subject.

### Exotic circumstances

The morning workshop, ‘Working under exotic circumstances’, considered the safety issues and challenges facing those who have to work in remote, hostile areas. Content was focused on working in the Arctic. Chaired by Johan Pennekamp, of Deltares, who is also chairman of the Netherlands Section of CEDA, the workshop started with engaging, eye-opening presentations by three speakers, each an international expert on their subject:



*Engaging on a different level*

- ‘Vigorously embracing safety with NINA’, Wilfred Haaijer, SHE-Q manager, Boskalis, the Netherlands, covering supported safety awareness throughout the company
- ‘Icy waters opportunities and obstacles in the Arctic’, Sebastian Villyn, maritime risk analyst, Control Risks, United Kingdom, covering safety risks
- ‘Extreme remote health care’, Ryan Copeland, regional medical director, International SOS Northern Europe, United Kingdom, covering health risks.

After the speakers set the scene, delegates were put to work in small, mixed groups on fictitious but highly realistic cases around a dredging operation in the icy waters of the unforgiving Arctic.

As the dredger made its way to its destination - a port under construction - various incidents occurred on board. Participants had to find solutions to the safety and risk issues that arose, taking the roles of captain of the dredger or operations director at the dredging company’s European head office.

The safety and risk issues ranged from an accident that resulted in a crew member suffering a dislocated shoulder to a severely injured activist falling into the icy water while trying to board the vessel from a Zodiac. Sound effects helped to make the experience more realistic. As was demonstrated by the solutions the participants proposed - some of them with angles that surprised even the experts - this setup has great potential for learning. It is excellent for networking and, on top of that, it is fun!

Wrapping up the session, it was concluded that a safety culture has to be founded on three pillars: open communication, equal perception and trust, and that safety conduct and safety awareness go hand in hand, as do risk avoidance and risk awareness.



*The animated announcement flier of the morning workshop*



*Questions, contributions kept coming in... Pictured: Johan Pennekamp (Deltares) workshop chair*



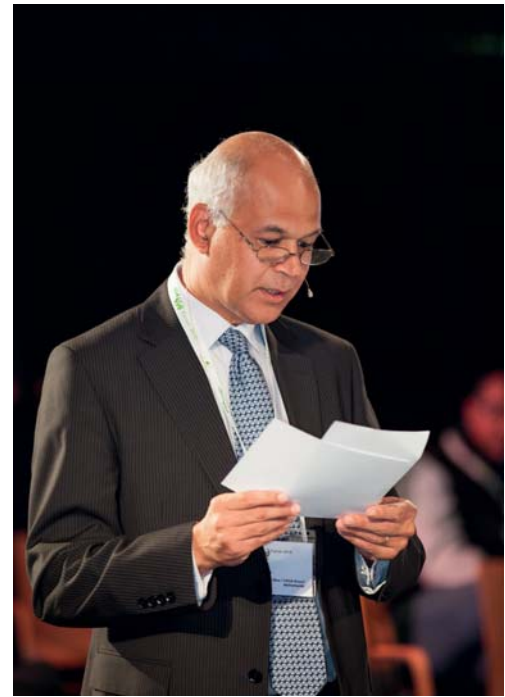
**Lessons learned with the Habitats Directive**

The topic of the afternoon workshop was ‘Large marine infrastructure projects and the EU Habitats Directive: lessons learned’.

This workshop was chaired by Polite Laboyrie of Witteveen+Bos Consulting Engineers; he is also chairman of the CEDA Environment Commission.

The five speakers all have in-depth knowledge of and extensive experience with the Habitats Directive. The speakers were carefully selected to represent the entire spectrum of players, which ensured that all relevant perspectives were represented. The line-up included the regulator, the project owner, the dredging contractor and the consultant with a background in engineering, biology and ecology. The subjects and the speakers were as follows:

- ‘The EU Habitats Directive and uncertainties case study of the Scheldt estuary deepening’, Stefaan Ides, research engineer, Port of Antwerp, Belgium
- Habitats Directive and infrastructure developments’, Francois Kremer, policy co-ordinator Habitats Directive, European Commission DG Environment, Belgium
- ‘Maintenance dredging in the Ems and Natura 2000’, Erik Mink, senior adviser, EuDA, Belgium
- ‘Balancing the provision of infrastructure enhancements against their environmental cost’, Lindsay Jane Seiderer, managing director, Marine Ecological Surveys Limited, United Kingdom
- ‘Enhancing fish habitats in ports’, Guus Kruitwagen, ecologist, Witteveen+Bos Consulting Engineers, the Netherlands.



*Polite Laboyrie of Witteveen+Bos, workshop chair wraps up the sessions reading out the participants’ notes about the key lessons learned*

The presentations were followed by a lively discussion, which was joined by Bart Geenen, freshwater expert at the World Wide Fund for Nature (WWF), the Netherlands.

This open exchange between members of the speaker panel and the audience ranged over a wide variety of issues, such as the need for and use of environmental regulation to balance the interests of economy and nature, and the strength and weaknesses of the Birds and Habitats Directives and whether it is time for its revision. Are unforeseen costs and delays inherent to projects that are likely to have negative impacts on a Natura 2000 site or are there ways of avoiding them? Can the ‘Working with Nature’ philosophy help? Can we learn from the Habitats Directive to avoid the same mistakes with the Water Framework Directive? Do the member states make best use of the flexibility offered by the Habitats Directive? And of course there was much more.

At the end, participants were asked to write down the most important lesson they had learned during the workshop. Among the lessons cited were:

- Evaluating environmental effects requires the ad hoc ascertainment of national uncertainties
- Focus more on ecosystem services and ecological objectives rather than setting tight, inflexible objectives of ideals.



*From left: Francois Kremer (European Commissions DG Environment) listening to comments on his talk about the Habitats Directive and Bart Geenen (World Wide Fund for Nature) who joined the panel discussions.*

A detailed report about this workshop will be published in due course by the CEDA Environment Commission.



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“This is an experiment and we made you pay for it,” joked Johan Pennekamp at the beginning of the morning workshop. “We embarked on this experiment in response to CEDA members wanting more interaction at our events,” explained Anders Jensen, CEDA president. “We can say with confidence that the experiment has worked well. We have learned a lot and we will certainly see more opportunities for structured engagement in our future events,” he added.

The programme of workshops was complemented by table-top displays. The day ended with the always popular CEDA Netherlands Reception.

The presentations and a set of selected photographs are available at [www.cedaconferences.org/cedaforum](http://www.cedaconferences.org/cedaforum)



The presentations were followed by a lively discussion. Here two of the speakers (l-r): Stefaan Ides (Port of Antwerp) and Lindsay Jane Seiderer (Marine Ecological Surveys Limited)

### Sponsors

Event:



### Exhibitors

Control Risks | Fugro/Marinestar | IHC Merwede | International SOS Northern Europe | NMDC | Van Oord | VOSTA LMG | Wärtsilä

Technical visit and Reception:





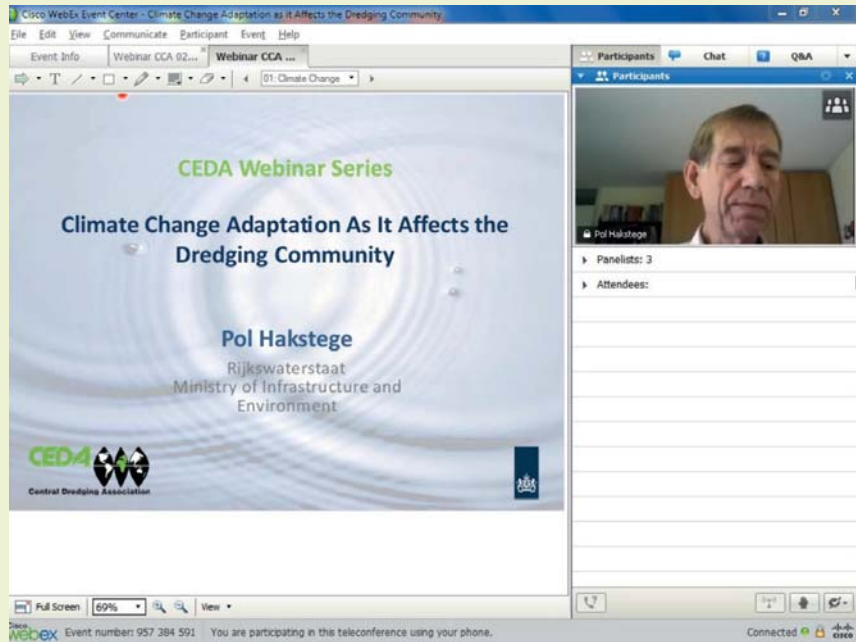
### CEDA webinars

CEDA’s region, comprising Europe, Africa and the Middle East, is geographically large. To include distant members in knowledge transfer and exchange we introduced a webinar programme in 2013, presenting two webinars.

We started in April, when Dr Frank Thomsen, senior marine mammal and underwater sound scientist of DHI, Denmark, who was also chairing the WODA Expert Group on Underwater Sound, presented a webinar entitled ‘Underwater sound in relation to dredging’. Of the 134 people who signed up, the webinar was followed in real time from 77 computers. By the end of the year the webinar was watched on demand on 323 occasions, 148 times on the Webex platform on which it was recorded and 175 times on YouTube.

The second webinar was presented in October by Pol Hakstege, technical manager at Rijkswaterstaat, Ministry of Infrastructure and Environment, the Netherlands, also chairman of the CEDA Working Group on Climate Change Adaptation. Pol presented the result of the working group entitled ‘Climate change adaptation as it affects the dredging community’. For this webinar 87 people signed up and it was followed in real time from 43 computers. By the end of the year the webinar had been watched on demand on 53 occasions, 33 times on the Webex platform and 20 times on YouTube.

From feedback received we learned that on several occasions people have watched the webinars real-time in small groups, so the actual numbers are higher than those mentioned above. We were particularly pleased by the news coming from the Russian State Hydrometeorological University in St Petersburg that, thanks to Professor Michael Shilin, a group of 15 students from Lithuania and Spain and a guest associate professor from Lithuania watched the webinar together in a dedicated classroom. We hope to see more such initiatives in the future.



Pol Hakstege (Ministry of Infrastructure & Environment) presents the webinar on the role of dredging in adapting to climate change

**Underwater sound and dredging**

CEDA Publication Paper - 7 November 2011

**Underwater Sound In Relation To Dredging**

The Central Dredging Association is committed to environmentally responsible management of dredging activities and the paper – produced by the CEDA Environment Committee – seeks to define those parties responsible about sound produced by dredging.

Dredging is a sector that is subject to the impact assessment, the recording of activities from a sea, river or lake bed and the handling and transport of the material obtained and other in-plant activities. Dredging is commonly used for:

- Construction and maintenance of ports and waterways, ditches and other infrastructure
- Reduction of sea level
- Flood and storm protection and erosion control by maintaining river flow and the resulting bed level
- Extraction of mineral resources from underwater deposits, particularly sand and gravel, or provide raw materials for the construction industry, and
- Environmental remediation of contaminated sediments.

This dredging provides many benefits to society with the goal of environmentally development while protecting natural resource and quality of life.

**Objectives:**

The main objective of this paper is to:

1. Increase the awareness of sound as a topic for the sector
2. Develop a clear and concise overview of the current state of knowledge of the dredging sector
3. Identify what is known about potential effects of dredging activity
4. Identify options for managing dredging related sound, and
5. Provide conclusions and an outline of future areas of research.

**Effects Of Sound On Aquatic Life**

What is sound? It can be described as a vibrating wave in which particles of the medium are forced together and then apart. This motion depends on pressure that propagates with the wave of sound.

The speed of sound in water is more than four times faster than in air and vibrations in air reach far in water compared to in air. This wave is a clear medium for sound propagation.

Sound can be described in terms of frequency, which is measured in decibels (dB), pitch or frequency (Hz) and its behavior and their duration in seconds or milliseconds.

**Source of underwater sound:** Both the natural environment and man can produce underwater sound. Natural sources of sound can be windwaves of nature like the disturbance range of beachball, whales or the snapping of diving. Wind, rain, waves, and surface vehicles and planes create all sources to produce sound in bodies of water.

Human induced sound comes from construction of marine infrastructure (including dredging) and industrial activities, such as drilling or aggregate extraction (including dredging) dredging activities using various types of vessels, professional construction areas, marine systems, and a variety of other activities.

Underwater sound sources can be broadly divided into high frequency (HF) sound, such as the dredging and excavation for new infrastructure versus the dredging and dredging to be in the maintenance of the dredging that represents 75% of the world and dredging fleet.

**Human activities:** In the aquatic environment have intensified since the last century and research has indicated that pollution could be the result of both natural and anthropogenic sources. In the future we have several sources that can be managed.

One of sound is reported (dB). As sound travels over water, underwater, more marine species use it for a variety of purposes.

<http://www.dredging.org/>, special thanks to Anna Csiti

CEDA Webinar Series Dr. Frank Thomsen – DHI Group 23-4-2013 2 DHI

Frank Thomsen (DHI) presents the webinar on underwater sound



*Prof Michael Shilin at the Russian State Hydrometeorological University at St Petersburg, Russia, and 12 students follow the webinar on climate change*

**CEDA presentations at events organised by others**

In addition to organising our own events we gave presentations at the following events (listed in chronological order):

- Frank Thomsen, DHI, Denmark, presented a poster paper entitled ‘WODA technical guidance on underwater sound from dredging’ at the 3rd International Conference on The Effects of Noise on Aquatic Life (11-16 August 2013, Budapest, Hungary).
- Cor Schipper, Deltares, the Netherlands, presented the CEDA information paper ‘Ecosystem services and dredging and marine construction’ at the 8th International SedNet Conference (6-9 November 2013, Lisbon, Portugal).



## 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) back in 2011 digital services were stepped up considerably.

### Publications

#### CEDA’s official magazine, IHS Dredging and Port Construction DPC

Every CEDA member receives, as a benefit of his or her membership, a subscription to IHS 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.

Since 11 December 2013, subscribers to IHS Dredging and Port Construction including all CEDA members - have been enjoying enhanced features such as:

- Access to the IHS Sea-web™ news module: [www.sea-web.com/news](http://www.sea-web.com/news)
- Digital magazine: [maritime.emags.ihs.com](http://maritime.emags.ihs.com).

All CEDA members were sent login details for the online items on 12 December 2013. Those members who may have overlooked the notice should check their inbox to make sure that they can take full advantage of these new enhancements.



All CEDA members receive the print magazine DPC and...



...more; the new package

#### WODA Technical Guidance on Underwater Sound in Relation to Dredging

Published in June 2013, the document is a follow up to the CEDA position paper on underwater sound in relation to dredging that was published in 2011. The position paper attracted great interest both from within and outside CEDA.

The WODA Technical Guidance goes beyond the position paper and has a broader international scope. It provides guidance for decision-makers, stakeholders and scientists on how to manage impacts of underwater sound from dredging and other sources. The document follows a risk-based approach.

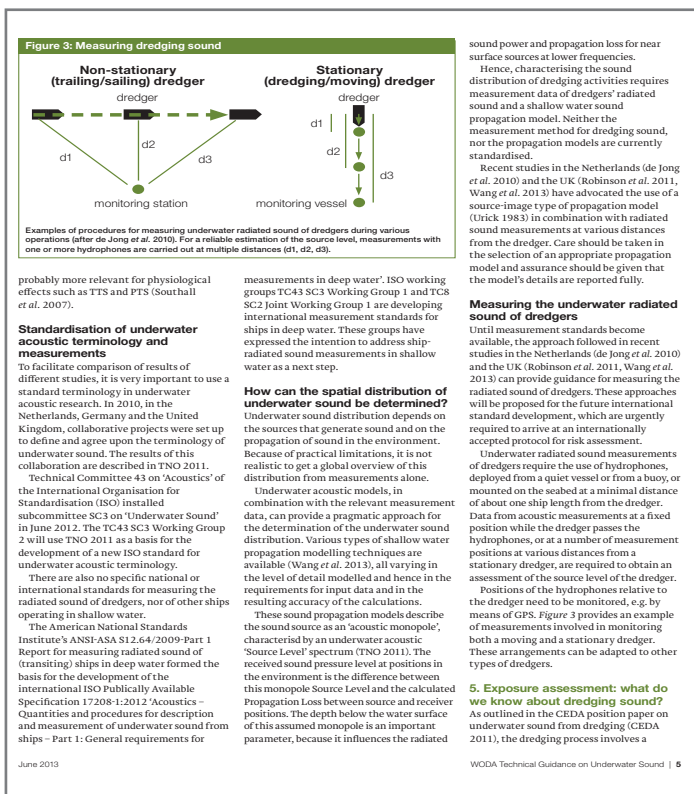
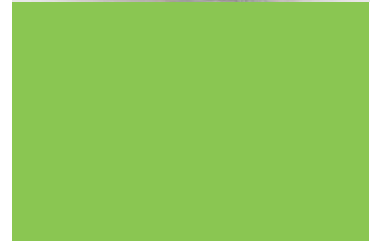


The paper begins with some background on why underwater sound is an important issue and goes on to describe the risk-based approach. The chapters that follow cover impacts of sound on aquatic life, the measurement of sound and the presentation of knowledge on dredging-related sound sources. Finally, it provides recommendations on managing and mitigating potential risks from dredging-related sound impacts in offshore and coastal areas, estuaries and inland waters.

The WODA Technical Guidance was produced by the WODA Expert Group on Underwater Sound (WEGUS) under the remit of the WODA Environment Commission. Members of WEGUS are experts, scientists and practitioners with a broad range of expertise, representing knowledge institutes, government, manufacturers, ports and contractors.

The guidance document has been presented on numerous occasions including WODCON XX. It has also been reprinted by IHS Dredging and Port Construction. It can be downloaded from the CEDA website, [www.dredging.org](http://www.dredging.org).

The CEDA webinar presented by the WEGUS chair, Dr Frank Thomsen, in April 2013 can also be viewed on demand on the CEDA website.



State of the art

**CEDA information paper: Ecosystem Services and Dredging and Marine Construction**

Published in July 2013, this document has been produced by the CEDA Working Group on Ecosystem Services (WGES) under the remit of the Environment Commission (CEC).

Members of WGES are scientists and practitioners with a broad range of expertise, representing knowledge institutes, government, manufacturers, ports and contractors. The concept of ecosystem services (ES) enables a value to be assigned to natural resources that makes it possible to link the environment to human well-being.

This has important implications for the planning and management of dredging and marine construction projects. In short, the ES concept is a tool for decision-making about sustainable development.

The paper explains that there are four basic groups of ecosystem services: provisioning services (food and water, for example), regulating services (such as flood control and air purification), supporting services (eg navigation) and cultural services (including recreation).

Each service is delivered by a set of structures and processes called an ecosystem function. This may be changed to deliver a benefit to human well-being, for example by dredging a navigation channel. In doing so, this creates a pressure.



*Pieter de Boer (Ministry of Infrastructure & Environment) working group chair presents the information paper at WODCON XX*

The ES concept is intended to help project designers create a sustainable balance between pressures and services in ecosystems. The aim is not merely to minimise damage (pressure) but also to look for opportunities to improve the environment. As dredging and marine construction often takes place in and around sensitive, and sometimes degraded, environments, such as coastal waters, rivers, mudflats and sandbanks, the ES concept is of considerable value if used at the earliest stage of project planning.

The paper sets out how individual ecosystem services are affected by dredging. For example, for water quality, dredging may cause a short-term decrease in local water quality and, by altering the morphology of the system, perhaps lead to a loss of habitat and species. However, dredging of contaminated sediments decreases the contaminants in the system. Also, if reed beds are created then water quality will be enhanced.

The paper recommends that a multi-disciplinary project team be set up to assess the ecosystem services, to assign values to those services and pressures, and to design the project. It includes two case studies showing how this has been achieved in practice in the Scheldt estuary and in estuaries in the east of England. Other interesting initiatives include the use of 'eco-concrete', which encourages colonisation of marine structures by small organisms, and seabed landscaping after aggregates dredging, which again promotes biodiversity.

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This CEDA information paper shows how, by applying the ecosystem services concept, the dredging and marine construction sector can deliver benefits both for society and for the natural environment.

The information paper has been presented on numerous occasions including WODCON XX and the SedNet conference in November 2013. It has also been reprinted by IHS Dredging and Port Construction and Terra et Aqua.

The document can be downloaded from the CEDA website.

**CEDA Forum 2013 presentations**

Most presentations at CEDA Forum 2013 have been published on the event's website to download or browse. The popularity of these online files is clearly demonstrated by the website's statistics.



**Central Dredging Association**

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### Environmental Aspects of Dredging in the Russian language

The publication of the CEDA-IADC book *Environmental Aspects of Dredging* (edited by Nick Bray, Taylor & Francis, 2008) in the Russian language was a major achievement. The fact that the English word “dredging” has had to be transplanted into Russian indicates the sort of challenges the translators and editors had to face.

The idea to translate the book emerged during the seminar *Eco-friendly Dredging in the Modern World* that took place in 2009 in St Petersburg, Russia. The seminar was organised by CEDA and the Russian State Hydrometeorological University (RSHU) and marked the start of a fruitful and close co-operation between the two organisations. Several successful joint undertakings have taken place subsequently.

The main text was translated by a professional sociologist, a specialist in environmental conflicts, Maria Kotshergina. General academic editing of the translation was carried out by the professor of RSHU and SPbSPU, Doctor of Science in Geography Mikhail Shilin. During the editing process in 2011 several chapters of the book were reviewed by Russian experts. On behalf of CEDA, Dr Stanislav Verichev of IHC Merwede has reviewed the text.

In view of the important role of dredging in many planned or ongoing projects in and around St Petersburg and elsewhere in Russia the book is expected to be an essential source of knowledge and best practice for Russian professionals. In the St Petersburg area alone as part of the ‘general scheme of development of transport-technological port complexes in the Finnish Gulf’, new construction or modernisation of existing port complexes are planned at Vyborg, Vysotsk, Primorsk (northern coast), Lomonosov, Ust-Luga and Batareynaya Bay (southern coast). The development scheme for St Petersburg’s transport links foresees the construction of harbours near Bronka-Lomonosov and on Kotlin island. These projects will involve large-scale dredging and reclamation works.

The book is also intended to be used as a handbook by the master programme ‘Applied Marine Ecology’ of RSHU within the framework of the TEMPUS - eMaris project. The publication of the Russian edition has been made possible with financial support from the project.



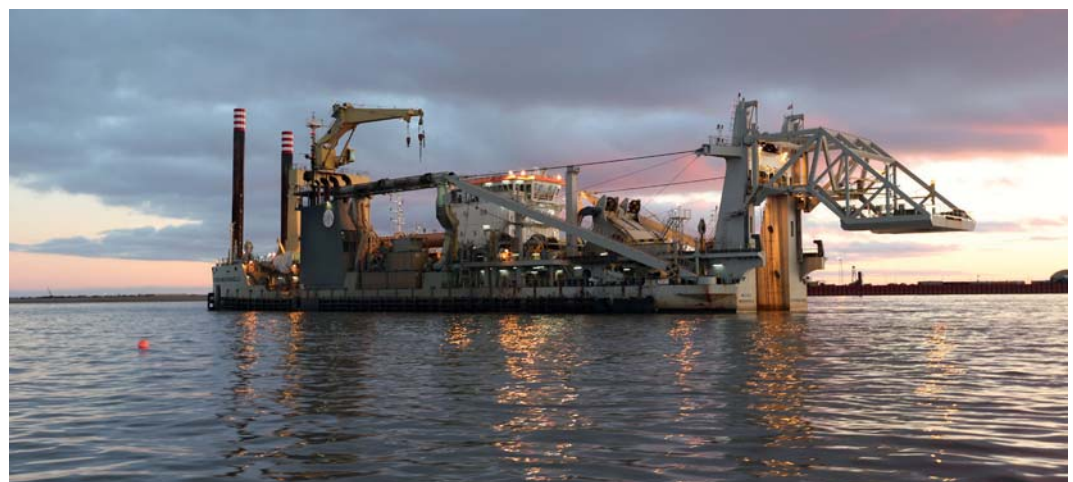
*The word “dredging” is now part of the Russian language*



*Prof. Michael Shilin (Russian State Hydrometeorological University) presents the Russian version of the book to the CEDA Board*



*The word ‘Dredging’ is now part of the Russian language*



**A new CEDA-IADC book on environmental aspects of dredging (in preparation)**

In the five years since Environmental Aspects of Dredging was published there have been considerable advances in knowledge about the natural environment and its processes and dynamics. The focus of environmental concerns associated with dredging projects has shifted from contaminated sediments to climate change, working with nature, habitats and so on. The boards of CEDA and IADC therefore felt it was time to summarise the new knowledge and make it available to a broad audience in a book.



**Central Dredging Association**

Member of the World Organisation of Dredging Associations, WODA



Once again, a joint Editorial Advisory Board has been set up to guide the project. In the course of 2013 the EAB met several times and designed the first draft elaborated structure of the new book and sent it for review to CEDA and IADC.

The responsible body within CEDA, the Environment Commission, has prepared detailed comments. During the process some issues needed further discussion before the section and chapter authors could start drafting their respective parts.

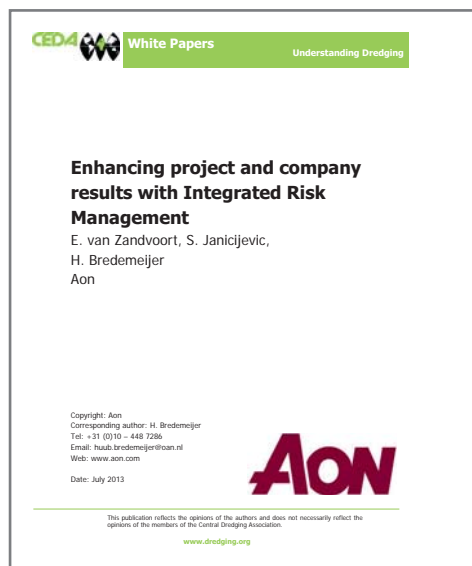


The new book will include many case studies, such as Køge Bay and Amager in Denmark (pictured), which combine flood protection with 'engineered nature' in the form of lagoons, and high-quality artificial beaches

### CEDA white paper on integrated risk management

By a 'white paper' we mean a technical article that provides detailed information about a product or service. While it has an objective, educational approach, white papers may - contrary to conference papers that must avoid commercialism - contain persuasive information to lead the reader to the conclusion that the described product or service is the favourable solution to a particular problem. By publishing a CEDA white paper on the CEDA website corporate members can reach a large portion of their target audience.

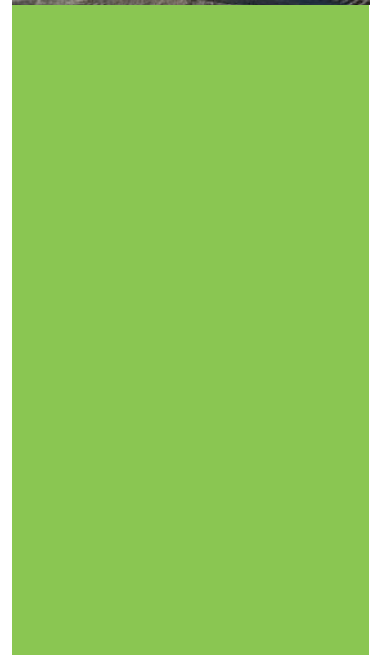
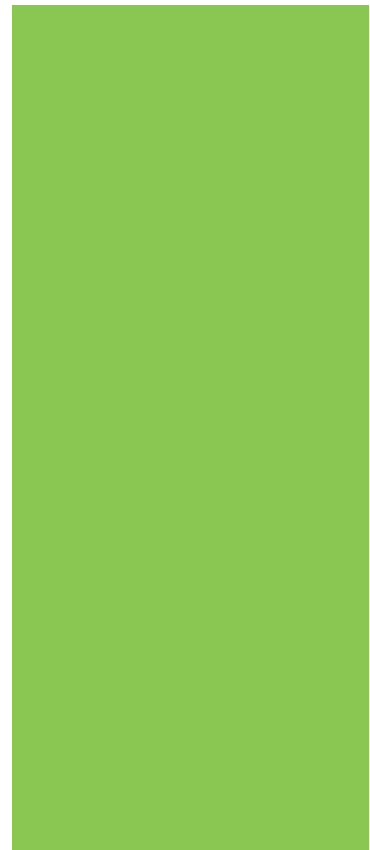
In July 2013 we published the white paper 'Enhancing project and company results with integrated risk management' by CEDA corporate member AON.



In less than six months after its publication the AON white paper had received 2,428 hits

### Books with discount for CEDA members

We strive to make arrangements with publishing companies that will allow us to 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).



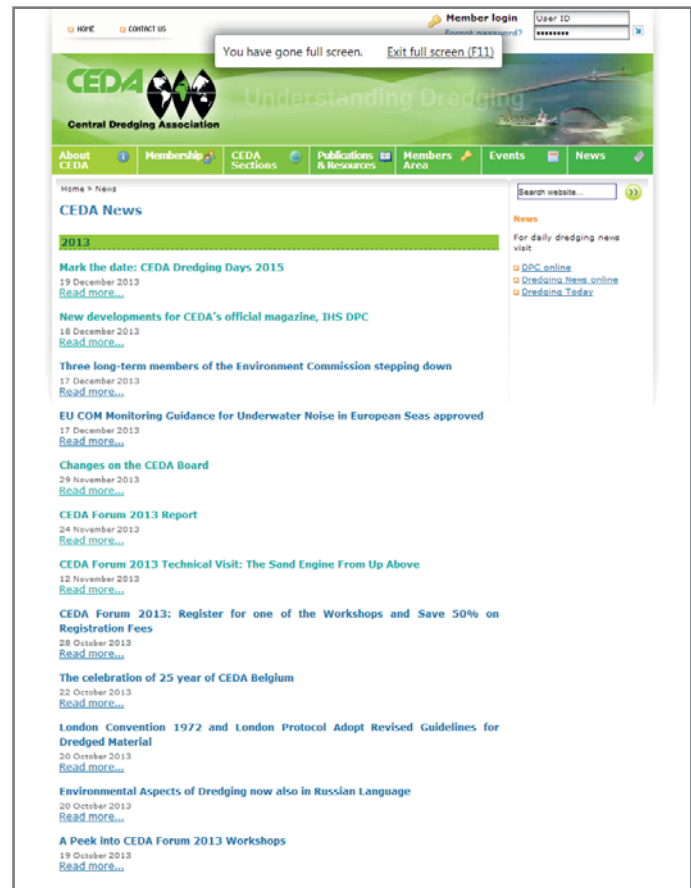
**Digital services**

**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, are useful ways by which members and others are informed about CEDA’s activities and also allow the sharing of dredging knowledge and information. More and more employees of CEDA corporate members are opening personal accounts so that they can receive CEDA e-notices and e-newsletters directly, even in the absence of the CEDA contact points for their organisations.



*The CEDA Digital Library now contains 740 peer-reviewed conference papers – a valuable resource for all CEDA members*



*The CEDA website keeps members up to date on CEDA activities*

**CEDA Digital Library (CDL)**

The CEDA Digital Library contains a wealth of scientific and technical knowledge on a broad range topics relating to dredging and the construction and maintenance of water-based infrastructure, all of which is available online.

Last year we added papers from WODCON XX (3-7 June 2013, Brussels) to the Digital Library, and also papers published in the proceedings of the previous WODCON in 2010, Beijing. These additions bring the total number of papers readily accessible and free of charge for CEDA members to 740.

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 Digital Library is also a valuable resource for non-members, who can have immediate access to any full paper for €20.00.

**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.

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 site.



**IN THE FOCUS:  
WODA PRINCIPLES OF SUSTAINABLE DREDGING**

During the closing ceremony of WODON XX, the chairman of WODA and president of CEDA Anders Jensen signed the WODA Principles of Sustainable Dredging, an agreed statement on 21st-century dredging issued by the associations that form WODA.

The three WODA constituents - WEDA (Americas), CEDA (Europe, Africa and the Middle East) and EADA (Asia and Australia) - operate around the world and sometimes find significant differences in the way dredging projects are planned and implemented. This statement captures the common values and principles to which each association subscribes.



Anders Jensen (DHI), CEDA President and WODA Chairman, signs the WODA Principles of Sustainable Dredging as Eric Van den Eede looks over

*“With these Principles of Sustainable Dredging our organisations show what their driving force is: achieving goals for the environment and for prosperity by promoting and organising active collaboration, exchange of views and using best available knowledge. I hope these principles will help to improve our work,”*  
Polite Laboyrie, chairman of the WODA and CEDA Environment Commissions

*“These principles recognise the environmental, social and economic values held by WODA, and should contribute to the worldwide dredging community moving forward in a sustainable manner.”*  
Craig Vogt, chairman WEDA Environment Commission



Polite Laboyrie (Witteveen+Bos), chairman of the WODA and CEDA Environment Commissions, presents the Principles at WODCON XX

*“We are looking forward to using these principles to achieve a sustainable lifestyle for future generations.”*  
John Dobson, EADA representative on the WODA Environment Commission



**World Organisation of Dredging Associations**

**CENTRAL DREDGING ASSOCIATION  
EASTERN DREDGING ASSOCIATION  
WESTERN DREDGING ASSOCIATION**

## **WODA PRINCIPLES OF SUSTAINABLE DREDGING**

Dredging and dredged material management are essential if we are to maintain and improve our quality of life and economic well-being. This is achieved through the creation and maintenance of water-based infrastructure by navigation dredging and reclamation; enhancing environmental quality by beach nourishment or environmental dredging to remove contaminated sediments; providing flood control; producing minerals and construction materials, and supporting offshore energy production, including renewable energy.

By adhering to principles of sustainability that include working with natural systems to integrate these actions, the goals of environmental quality and economic prosperity can both be achieved.

WODA's objective is to achieve sustainable dredging through implementation of the following principles:

1. From the start and throughout each stage of a dredging project, social, environmental, and economic objectives should be systematically considered and integrated.
2. Development of a project design should identify how to work with natural processes and the site-specific characteristics of ecosystems to achieve the project's objectives, including understanding of the carbon footprint of a dredging project.
3. Project proponents, regulatory authorities and the broad range of stakeholders should be engaged at the earliest conceptual stage in the development of dredging projects. Active collaboration in the development of projects is the key to achieving maximum social, environmental, and economic benefits.
4. Scientifically based criteria, performance guidelines and environmental safeguards for dredging and dredged material management are essential to provide clear directions to project owners, planners and executing companies.
5. Dredged material management should be based upon a holistic and systematic understanding of the ecosystem and natural processes. Beneficial use of dredged materials, such as placement of sediment to nourish shorelines or to enhance or restore wetland ecosystems/marshes and upland habitat, should be given priority.
6. Dredging can be a key solution for remediation and restoration at historically contaminated aquatic sites.
7. Analysis of monitoring and assessment information before, during and after project implementation provides a basis for effective and sustainable project management.

Through the application of these principles of sustainable dredging, WODA believes that dredging will contribute to sound solutions that improve our well-being and protect our aquatic environment for future generations.

Anders Jensen  
Chairman WODA Board of Directors

6 June 2013  
Brussels, Belgium

**IN THE FOCUS:  
CEDA WORKING GROUPS ON MONITORING AND ADAPTIVE MANAGEMENT**

These two new CEDA groups started in October with the aim of creating papers on adaptive management (AM) and environmental monitoring procedures (EMP).

AM is heavily dependent on good environmental monitoring, while environmental monitoring (EM) itself can be done in an adaptive manner. There is enough information on EMP alone to justify setting up a separate working group.

The Working Group on Adaptive Management (WGAM), chaired by Gerard van Raalte (Royal Boskalis Westminster, the Netherlands) focuses on how AM can be applied successfully in dredging projects, and in environmentally sensitive dredging projects in particular.

“In some cases strict thresholds might be applied to assure environmental performance with levels deemed to be acceptable. In other cases, less clear environmental limits are specified: sometimes due to an inability to fully appreciate and judge environmental conditions and potential project effects (increased uncertainty about effect on and responses by nature), but sometimes for other reasons (sharing risks and responsibilities). Effects can be both negative and positive,” said van Raalte.

In cases with less clear requirements, a sequence of monitoring, impact assessment and management actions may be implemented, known as ‘adaptive management’, although interpretation and implementation may differ considerably. The working group aims to provide information on AM’s objectives, defining circumstances, conditions, governance and lessons learned. The Working Group on Environmental Monitoring Procedures (WGEMP), chaired by Dr Ida Brøker (DHI, Denmark), ambitiously aims to produce a position paper that answers why, when, what and how monitoring is carried out by including definitions of

types of monitoring - baseline, compliance, feedback and long-term control monitoring. It will discuss how understanding of the physical environment is derived from specific monitoring and existing data, and how environmental indicators and their threshold values, along with relevant response times of the system, are used to define the optimal concept for monitoring.

A flow chart will be developed to assist in the process of defining the optimal monitoring programme and examples will be given of monitoring approaches for different types of projects in various environments.

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

Both groups will deliver their conclusions in November 2014.



*The two working group chairs, Ida Brøker (DHI) and Gerard van Raalte (Boskalis), finalise the draft table of contents for the two documents*



*At the first joint meeting of the two working groups on adaptive management and environmental monitoring in October 2013 (l to r): Henrich Röper (Hamburg Port Authority); Mark Lee (HR Wallingford), John Kirkpatrick (HR Wallingford), Rebecca Gardner (Anchor QEA AS), Gerard van Raalte (Boskalis), Marcel Van Parys (Jan De Nul), Frederik Goethals (Dredging International), Steve Challinor (Royal HaskoningDHV); Ida Brøker (DHI), Ulrik Lumborg (DHI), Dafydd Lloyd Jones (Marine Space Ltd). On the screen: Andrew Costen (BMT WBM), Ram Mohan (Anchor QEA AS) participated in the meeting via teleconferencing*



**SPECIAL FEATURE: THE DREDGING DEBATE**

Chaired by CEDA Environment Commission chairman Polite Laboyrie, the debate was designed as an interactive session that would challenge participants to consider, and take a stance on, hot topics.

The panel included Katherine Harris and Gerard van Raalte from CEDA, John Dobson from EADA, Craig Vogt of WEDA and Harald Koethe representing the International Navigation Association (PIANC). In a scripted role play, each put a question to the audience, taking a fairly controversial stand in the process.



*The WODCON XX Dredging Debate panellists engaged in a role play and pretended to be either a proponent or an opponent on a variety of subjects (l to r): Polite Laboyrie (Witteveen+Bos), Katherine Harris (HR Wallingford), Gerard van Raalte (Boskalis), John Dobson (EADA), Craig Vogt (WEDA, Craig Vogt Inc.) and Harald Köthe (PIANC Envicom)*

- Van Raalte on beneficial use of dredged material: “Beneficial? Who says? For whom? I only love this beneficial use so as long as the project goes on.” CEDA’s Nick Bray responded: “But if you use the material, especially if it’s contaminated, for something else, you must get a better result.” But Port of Hamburg’s Heinz-Dieter Detzner, who has 500,000m3 of silt to dispose of annually, asked: “Where is the market? Sometimes hundreds of kilometres away. The best solution is when the material’s clean and can be used on beaches.”

- Vogt on project planning involving stakeholders: “I’m in favour of the earliest possible involvement, otherwise permitting and other regulating authorities can derail your project. As we say in the US - no surprises!” John Dobson replied: “It looks like I’m the only person in the room against this! You always find people will pop up later - fishermen for example - if they feel their interests are threatened. Politicians change their minds too if they feel there’s too much opposition and they’ll lose votes.”
- Harris on using natural processes for sustainable project development: “There is no doubt working with natural processes enhances opportunities.” And this time, the floor agreed. “If you can build beaches rather than solid seawalls, it’s far better to do so,” commented an audience member.
- Koethe asked if adaptive management was a suitable tool for environmental protection during dredging projects. Van Raalte thought so, though for major rather than small projects: “Those with adaptive management have nearly always been completed on time and within budget,” he advised. But WEDA chairman-elect Ram Mohan felt it remained a difficult issue: “If you go back to the roots of project management, there are many problems to define; it’s very complex, though I think it’s a good tool.” The audience agreed: no one was sure you could ever understand all the facets in dealing with natural processes, but it was felt that adaptive management was still a good tool for large projects.
- Dobson on strict environmental regulations forcing the industry to look for new approaches “Call me old-fashioned, but I like to know what the regs are and why.” Harris too felt that prescriptive regulations didn’t help stakeholders and others to find the best solutions. The audience agreed: “Regs don’t take into account the dynamism of nature,” commented a member. “What if you can come up with a better solution? Regulation can kill innovation.”

Acknowledgement: This summary was originally published in the August issue of DPC and has been kindly made available for this report.



*You can’t fight nature - stressed Heinz-Dieter Detzner (Hamburg Port Authority)*

## SPECIAL FEATURE: LONDON CONVENTION DREDGED MATERIAL GUIDELINES

The Thirty-fifth Consultative Meeting of the Parties of the London Convention 1972 and London Protocol adopted Guidelines for Assessment of Dredged Material during the final day of the meeting of the parties at the International Maritime Organization headquarters in London, 12-18 October 2013. The Guidelines are to be used for assessment of dredged material that is proposed to be placed at sea to ensure that placement does not have unacceptable adverse impacts to the ecological resources of the sea or present an unacceptable risk to humans.

The World Organisation of Dredging Associations (WODA) has an official non-governmental observer (NGO) status at the London Convention and its Protocol. On behalf of the three dredging associations making up WODA - the Central Dredging Association (CEDA), the Eastern Dredging Association (EADA) and the Western Dredging Association (WEDA) - CEDA undertakes this work and actively participates in meetings and relevant working groups to provide independent expert advice to help shape policy development. Our overarching aim is to ensure that any legislation pertaining to dredging and disposal activities and maritime construction works is based on the sound technical and scientific knowledge takes account of best practice and is ultimately workable.

CEDA, along with other organisations, has worked to ensure that dredged material is treated as a special case and has been instrumental in changing the image of dredged material, recognising that it consists mainly of natural sediments and only a small proportion of the total volume dredged annually is contaminated. As a result, what was previously described as dredged 'spoil' is now known as dredged 'material' - a term now embedded in the conventions.

The London Convention and Protocol are important in setting basic requirements for the management of dredged material placement at sea and produce guidelines that provide the context within which assessment of the suitability of dredged material placement is carried out within contracting countries.

The London Convention and Protocol adopted the Dredged Material Assessment Framework (DMAF) in 1995; this was replaced by the Specific Guidelines for the Assessment of Dredged Material in 2000.

The new Guidelines, provided in a user-friendly format, represent a comprehensive updating that takes into account the latest science.

*Craig Vogt (Craig Vogt Inc.) from WEDA represented WODA at the 2013 meeting of the consultative bodies of the London Convention that adopted the revised guidelines for dredged material*

Through its observer status WODA/CEDA made a substantial contribution to drawing up the original assessment frameworks and guidelines and has continued to provide expert input into their revision. CEDA also participated in the correspondence group that carried out this latest revision. Our representatives in this work were Polite Laboyrie (Witteveen+Bos, the Netherlands), chairman of the CEDA Environment Commission (CEC) and Dr Andrew Birchenough (Cefas, UK), member of the CEC.

Before a permit for placement of dredged material at sea can be issued, an assessment must be conducted that includes evaluation of alternatives to ocean placement and characterisation of the dredged material in terms of physical, chemical and potential biological toxicity. The Guidelines require that the characteristics of the dredged material be compared to an action list to determine acceptability for open water placement in the ocean, which is followed by careful considerations of placement site characteristics and an assessment of the potential effects of placement at that site. A permit is only to be issued if any effects are below acceptable thresholds. The Guidelines specify that monitoring programmes should be put in place to ensure that permit conditions and predictions of acceptable impacts are on target.

Craig Vogt (Craig Vogt Inc, USA), chairman of the WEDA Environment Commission, represented WODA/CEDA at the recent consultative meeting and made the following statement: "WODA believes that the updated Guidelines for dredged material is a much improved and user-friendly document. WODA recognises the excellent work of the Scientific Group and, in particular, the correspondence group. WODA enthusiastically supports adoption."

The Guidelines apply to the 90 countries that are members of the London Convention and 43 countries that are members of the London Protocol (some countries are members of both). The Guidelines will shortly be available on the IMO website, [www.imo.org](http://www.imo.org), as well as on the CEDA and WEDA websites, [www.dredging.org](http://www.dredging.org) and [www.westerndredging.org](http://www.westerndredging.org), respectively. For more information, contact CEDA or WEDA.





*The aim of the workshop was to provide input to the new CEDA strategy*



**Central Dredging Association**

Member of the World Organisation of Dredging Associations, WODA

**COMMISSIONS**

*Strategy Implementation Commission - CSIC*



*Hendrik Postma  
Chair*

In 2013 I concluded my time on the CEDA Board and as chairman of the Strategy Implementation Commission. I was honoured when I was asked by the Board to chair this dedicated and forward-looking group in 2009 when CEDA’s current strategy, ‘The way ahead’, was adopted. Back then I was convinced that CEDA had reached the point where a more strategic approach to planning and implementing its activities would greatly improve its value to the members. Being one of the initiators of the first Strategy Workshop that led to ‘The way ahead’, it was fitting for me to be actively involved in its implementation as well. I enjoyed the meetings of this group, which generated many good ideas that were turned into successful initiatives later on.

For a short while the Strategy Implementation Commission became Strategy Commission again as it was charged by the Board to design the 2nd Strategy Workshop. Hosted by Royal

HaskoningDHV in Amersfoort, that workshop took place on 18 September with the participation of 14 people, including representatives of the Environment and Young CEDA Commissions. The aim of the workshop was to provide input to the new CEDA strategy to be formulated in 2014. The in-depth discussions covered topics that included strengthening CEDA’s role as knowledge disseminator and expanding it to become a knowledge networker and knowledge generator; subject areas of relevance to the various groups within the membership such as deepsea mining and offshore energy (oil and gas and renewables); engaging the younger generation; and extending CEDA’s geographical reach. It was a successful and inspiring day, the results of which will be evident in the coming years.

I am pleased to see that other activities recommended by the CSIC for the year 2013 have been taken on board successfully. Instead of listing these individually I refer the reader to the President and Manager’s report the beginning of this document. I shall only mention here the CEDA webinars, a programme we started last year. The number and range of people we managed to engage this way exceeded all expectations.

I wish the CSIC and CEDA success and many new useful initiatives to keep the association strong and relevant for all groups within the membership and across its region.

*Hendrik Postma  
Chair*



*The CEDA Strategy Workshop in September 2013 generated a lot of ideas*



## Environment Commission—CEC and CEDA’s International Representation



Polite Laboyrie  
Chair

CEDA’s Environment Commission had a most productive year. Our aim is still to facilitate the use of high-quality information in the project decision-making process and in regulations and guidelines. It might be thought that our workload would be reducing by now because everyone knows how things work. Yet, even after 50 meetings of the CEC, there are still new frontiers to discover and fresh items to discuss. Working with dedicated professionals from a variety of disciplines and different organisations ensures that the work in the commission remains relevant and inspiring.

In 2013 we held two productive meetings, one in the spring in the French town of Nantes, hosted by Centre d’Etudes Techniques Maritimes et Fluviales (CETMEF) and an autumn event in Wallingford, England, hosted by HR Wallingford. Both meetings were well attended.

The CEC is fortunate to have members from Belgium, Bulgaria, Denmark, France, Germany, Italy, the Netherlands, Russia and the United Kingdom. They work for governments, port authorities, consultants, contractors, dredging constructors and research institutes, and their professional background is similarly diverse - civil engineers, ecologists and mechanical engineers, among others, many of them with science doctorates. Between them, the members can draw on knowledge and experience that is fully equal to the wide range of subjects with which the CEC deals.

CEDA members provide considerable support to the CEC for the temporary working groups that produce information or position papers. Working groups are set up after the CEC has selected a subject, formulated terms of reference and issued an invitation. In 2013 we worked on ecosystem services, adaptive management and monitoring of dredging operations and a WODA expert group on underwater sound,

During WODCON XX the CEC organised one of the sessions. Our two invited speakers were Frank Thomsen, from DHI, on WODA’s technical guidance on underwater sound in relation to dredging, and Pieter de Boer, Rijkswaterstaat, on the CEDA information paper on ecosystem services and dredging. After that we had a lively debate on major topical issues and dilemmas affecting the dredging industry (see the section ‘Dredging Debate’ on page XX).

Together with our sister associations, WEDA and EADA, CEDA prepared the WODA Principles of Sustainable Dredging. The principles are reprinted on page XX of this report. They emphasise that dredging and the management of dredged material are essential if our quality of life and economic well-being are to be maintained and improved. Water-based infrastructure needs to be created and maintained through, for example, navigation dredging and reclamation. Environmental quality can be enhanced by beach nourishment or by improving flushing in enclosed water bodies and providing minerals and construction materials. By adhering to principles of sustainability that include working with natural systems to integrate these actions, the goals of environmental quality and economic prosperity can both be achieved.

The CEC plays an active advisory role in the London Convention, in the Oslo and Paris Conventions and in EU policy, where we can help ensure that legislation is based on the best available knowledge and that past mistakes are not repeated.



The spring meeting of CEC was organised by CETMEF and hosted by Port of Nantes. Part of the meeting took place on the river Loire, cruising from Nantes to Saint-Nazaire (l to r): 1st row – Cor Schipper (Deltares), Katherine Harris (HR Wallingford), Anna Csiti (CEDA), Joël l’Her (CETMEF); 2nd row - Henrich Röper (Hamburg Port Authority), Andy Birchenough (CEFAS), Gerard van Raalte (Boskalis), Noemi von Meijenfeldt (Witteveen+Bos), Eric van der Blom (IHC Dredgers); back row - Frederik Roose (Ministry of Flemish Community, Division Maritime Access), Ida Brøker(DHI), Helmut Meyer (German Ministry of Transport Building & Urban Affairs), Polite Laboyrie (Witteveen+Bos), Luc Hamm (Artelia Group), Jos Smits (IMDC)

CEDA members representing you at various international forums



London Convention  
Polite Laboyrie, Witteveen+Bos



London Convention  
Andy Birchenough, Cefas



OSPAR Commission  
Cor Schipper, Deltares



EU Water Framework Directive (until October 2013)  
Axel Netzband, Hamburg Port Authority



EU Water Framework Directive (from October 2013)  
Henrich Röper, Hamburg Port Authority



EU Marine Strategy Framework Directive,  
Noemi von Meijenfeldt, Witteveen+Bos

were adopted. The comments and remarks made by the CEC on behalf of CEDA and WODA were taken into account.

Translation of the book Environmental Aspects of Dredging into Russian language was completed.

A new attitude towards the environment is apparent today. It is no longer the case that a civil structure is designed and the environmental effects only calculated and mitigated after the event. Nowadays the environment and society are integral to the design process. Design principles such as ‘building with Nature’, ‘working with nature’ and even ‘engineering with nature’ are being adopted worldwide and they are being incorporated into legislation and guidelines. This development has prompted CEC to propose a successor to Environmental Aspects of Dredging that will be more based on these new design principles. We have formed an editorial commission together with IADC, which is responsible for developing this book.



The fall meeting of CEC was hosted by HR Wallingford (l to r): Michael Costaras (HR Wallingford, guest, also member of the CEDA Board), Katherine Harris (HR Wallingford), Eric van der Blom (IHC Dredgers), Frederik Roose (Ministry of Flemish Community, Division Maritime Access), Joël l’Her (CETMEF)

Of considerable importance are the networking activities of the CEC. There were intense contacts with our sister organisations WEDA and EADA, and also with EUDA, PIANC and IADC. The CEC continues to be very active and forward-looking and there are more than sufficient items on the agenda.

*Polite Laboyrie*  
Chair

**Thank you!**

CEC said good bye to three long-serving and very active members who stepped down due to approaching retirements from their day jobs: Axel Netzband from Hamburg Port Authority, Gerard van Raalte from Boskalis and Pol Hakstege of Rijkswaterstaat.

Axel was present when the idea of the CEC – initially called the CEDA Environmental Steering Committee – was conceived in December 1990. Five years later he became Heinz Glindemann’s CEC alternate, becoming a full member in 2010. Axel’s made numerous invaluable contributions, primarily on sediment management – prompting CEC chairman Polite Laboyrie to call him “the king of sediment management”.

Axel’s portfolio included three European Directives – Water Framework, Waste and Marine Strategy – and he played a key role in reviewing and responding to European Commission proposals for their implementation. Axel was also CEC’s link to SedNet and Dredging Europe and ensured these groups were well-informed.

Gerard has been a CEC member for 20 years and has always taken a proactive, constructive approach. As Polite Laboyrie pointed out in his farewell speech: “Gerard has shared his vast knowledge and experience with CEC and the larger dredging community in many capacities: on the editorial board of Environmental Aspects of Dredging published in 2008 and its predecessor booklets published between 1996 and 2001; on technical papers committees of CEDA conferences and seminars; on the CEDA working group and WODA expert group on underwater sound, and much, much more.”



The retiring trio enjoying the surroundings during the meeting break at HR Wallingford (l to r): Gerard van Raalte (Boskalis), Pol Hakstege (Ministry of Infrastructure & Environment) and Axel Netzband (Hamburg Port Authority)

*CEDA members representing you at various international forums*



*EU Marine Strategy Framework Directive/Working Group Good Environmental Status/ Technical Technical Subgroup Underwater Noise and OSPAR Interseasonal Correspondence Group Noise*  
Frank Thomsen, DHI



*OSPAR Interseasonal Correspondence Group on the Marine Strategy Framework Directive*  
Marie Pendle, HR Wallingford



*EU Waste Directive*  
Pieter de Boer, Ministry of Infrastructure & Environment



*International Commission for the Protection of the Danube River (ICPDR)*  
Vera Breitung, German Federal Institute of Hydrology



Gerard has also been an inexhaustible source of ideas – many successful new initiatives can be traced back to him – and without exception, the ideas were backed up by hard work, often in his spare time.

Pol was, just like Axel, an active member of the group – as alternate to Polite Laboyrie – long before he became a full CEC member in 2011.

During his relatively short membership, Pol has made his mark as ‘the climate change man’, chairing the CEDA working group and presenting the second CEDA webinar. Pol joined the team of lecturers for the CEDA-IADC course on Environmental Aspects of Dredging, where he shared his many years of experience from the project owner’s perspective. Sediment management and the Water Framework Directive were also subjects where CEC could always count on Pol for expert insights.

CEC thanks Axel, Gerard and Pol for their commitment, dedication and friendship and wishes them all the best for their retirements.

### Young CEDA



Daan Rijks  
Chair (until June 2013)



Arjan de Heer  
Chair (from June 2013)

In 2014 Young CEDA organised two events and focused on our organisation with the aim of representing young members and organising future activities.

#### Activities

Young CEDA organises technical excursions and seminars to involve younger members in the CEDA organisation. As well as presenting and discussing experiences from young professionals, Young CEDA taps into the extensive knowledge of experienced CEDA colleagues. In this way CEDA is kept alive and up to date. Indispensable after-activity drinks offer ample opportunity for Young CEDA members to exchange ideas, gain technical insights and expand their professional networks with valuable new contacts.

#### Excursion Amazone Harbour (Rotterdam)

In March 2013, an excursion was organised to the Amazone Harbour where one of Rotterdam’s container terminals is located. Works included demolition, construction of 950m of quay wall and dredging of 1M m3 of material to widen the basin. We also visited the nearby Europees Massagoed Overslagbedrijf (EMO), Europe’s largest bulk terminal. The excursion was jointly organised with the young professional organisations of PIANC, Port of Rotterdam and the Vereniging van Waterbouwers, whose fields of interest tend to overlap. The excursion was concluded with a boat tour through the Port of Rotterdam.



*The tour was a great opportunity to meet other young colleagues in the field*



*Young CEDA organises technical excursions and seminars*

*Feel free to contact any Young CEDA member*

**WODCON XX networking event**

Young CEDA joined the overall organising committee for the WODCON XX in Brussels. A networking event specifically for young congress visitors took place immediately after the main opening reception. The event attracted more than 40 people from various backgrounds and with differing levels of experience. The less formal setting encouraged networking and lively discussion about our exciting industry.



*There was a lot to see and experience fi nd*

**Organisation of Young CEDA**

The past year was marked by the succession of several board members by new people. In the second half of the year, activities focused on the review of our mission statement and the definition of our annual plan for 2014 with the aim to organise activities in all countries where we have a presence, namely Belgium, Denmark, Germany, the Netherlands and the UK.

**Participation in the Board and commissions**

Young CEDA was invited to the Board meetings and the strategy meeting. Part of our mission is to represent young members, challenge the board by putting forward new ideas and provide constructive feedback.

Young CEDA carries this mission forward by being present in the other CEDA commissions and advises them on how to interest and involve young professionals and students in the dredging industry and CEDA.

**Outlook for 2014**

While 2013 was a relatively quiet year, we expect to increase our visibility to young members in 2014. Seminars are planned at universities in the UK, Belgium and the Netherlands to inform students and young professionals about working in the dredging industry. An excursion is planned in Hamburg on the importance of dredging activities as part of port management.

Using the CEDA website and the LinkedIn page, we would like to create a better platform to communicate with young members about CEDA and our activities.

**Become a member**

Feel free 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.

*Arjan de Heer  
Chair*



Member of the World Organisation of Dredging Associations, WODA

## FINANCES

The financial figures for the year 2013, will be published following the Annual General Meeting in October 2014.

## OBJECTIVES FOR 2014

After two exceptionally busy years, 2014 will be a year of evaluation and reflection. We will put considerable effort into completing the work we started last year, designing CEDA Strategy 2014 and the accompanying plan of action that will ensure that CEDA stays relevant and focused in the future.

We will continue with our well-established regular activities and build on our recent initiatives. These include:

- Meetings, site visits and other activities organised by the national sections
- In our role as the independent, expert voice of dredging and water-based infrastructure we will inform decision-makers at international forums such as the London Convention, OSPAR Commission, European Commission and the International Commission for the Protection of the Danube
- Publishing two information papers on two strongly related, timely topics: adaptive management and environmental monitoring procedures
- We will start work on our next flagship conference and exhibition, CEDA Dredging 2015. We will raise the bar even higher by providing increased opportunities for interaction among the attendees
- We will continue to develop the webinar programme that we started so successfully last year
- We will launch our upgraded website, which will provide even better access to knowledge products
- Led by Young CEDA we will reinvigorate our efforts to engage students and young professionals.

Achieving our objectives is possible only through the dedication and enthusiasm of our members. Once again, we look forward to their continued support and valuable input in the coming year.

## ORGANISATION

### CEDA Board of Directors

CEDA is governed by the Board of Directors, which generally meets twice a year. Elections are held every two years. After the most recent election in November 2013 and one interim retirement during the year, the Board of Directors counts 15 members from five countries. The next election will take place in November 2015.



*The spring meeting of the Board in 2013 was hosted by Rohde Nielsen in Copenhagen (l to r): Michael Costaras, Cees van Rhee, Jan VandenBroeck, Daan Rijks, Anna Csiti, Wim Klomp, Polite Laboyrie, Claudia Flecken, Lindsay Murray, Eric Van den Eede, Anders Jensen, Johan Pennekamp, Katheleen De Wit*



*Marcel Wauben gives a brief update about host Witteveen+Bos's ongoing projects that include a dredging component (around the table clockwise): Abdelamid Mimouni, Eric Van den Eede, Wim Klomp, Daan Rijks, Cees van Rhee, Johan Pennekamp, Gerrad van Raalta [Gerard van Raalte??] (stepping in for Polite Laboyrie), Arjan de Heer and Claudia Flecken (hamburg Port Authority)*

**Thank you!**

CEDA thanks Hendrik Postma of Boskalis, who has stepped down from the Board of Directors after two terms. Elected to the board in 2004, Henrik made us all look closer at issues by asking the simple question ‘why?’. Instrumental in the Board adopting a more strategic approach to planning and implementing CEDA’s activities, Hendrik played a key role in organising the first strategy workshop that resulted in The Way Ahead – CEDA Strategy 2009. And as chairman of the new Strategy Implementation Commission (SIC), he led the group responsible for The Way Ahead’s implementation and designing the second strategy workshop that took place in 2013. A committed, enthusiastic organising committee member of the 2011 CEDA/IADC Forum on Early Contractor Involvement, Hendrik also acted as an informal liaison between CEDA and IADC. CEDA extends its appreciation for Hendrik’s valuable contributions and support.



*Hendrik Postma’s (Boskalis) critical, constructive thinking has been much appreciated by the Board. Pictured (left) at the Board meeting in Abu Dhabi (2012)*

**CEDA Annual General Meeting**



*Ander Jensen presents his report as CEDA President*

The Annual General Meeting (AGM) in 2013 took place on 7 November at Ahoy Rotterdam, in Rotterdam, the Netherlands, right after CEDA Forum 2013. During this AGM the President gave a brief overview of the activities and achievements of CEDA in 2012/2013, the Secretary/Treasurer, Prof Cees van Rhee, presented the final figures for the year 2012 and the Audit Committee reported its findings. Members of the Audit Committee were Rikke van Berk, VOSTA LMG, the Netherlands, Claus Iversen, Femern A/S Denmark, and Joris Santermans, IMDC, Belgium.



## 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, CEDA, EADA and WEDA. 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 WEDA President, Ram Mohan of Anchor QEA, and the WEDA Executive Offices is the current WODA Secretariat.



*Anders Jensen, CEDA President (DHI), hands on the reigns of WODA along with the responsibility to organise the next WODCON to Ram Mohan incoming WEDA President, (Anchor QEA) during the official closing of WODCON XX*

## 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 2013 the wo/manning of CEDA's voluntary-based units was as follows:

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**Corresponding Members**

John Dobson, EADA, Australia  
 Valerie Penchev, Black Sea Coastal Association, Bulgaria  
 Craig Vogt, Ocean and Coastal Protection Division, USA  
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 Alternates to CEC members  
 Stefan Aarninkhof, Royal Boskalis Westminster, the Netherlands  
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 Kathleen De Wit, IMDC, Belgium (chair)  
 Martin van Ommen, IHC Dredgers, the Netherlands  
 Bart Verboomen, Baggerwerken Decloedt & Zn (DEME), Belgium

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Klavs Bundgaard, DHI, Denmark  
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**WODA Expert Group on Underwater Sound – WEGUS**

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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  
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Pim de Wit, Port of Rotterdam, the Netherlands

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Marc Sas, IMDC, Belgium  
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**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

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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

Noemi von Meijenfeldt, Witteveen+Bos, the Netherlands  
Anna Csiti, CEDA, the Netherlands  
Axel Netzband, Hamburg Port Authority, Germany

**European Union: Water Framework Directive Common  
Implementation Strategy**  
Axel Netzband, Hamburg Port Authority, Germany

**PIANC Environment Commission**  
Anna Csiti, CEDA, the Netherlands  
Polite Laboyrie, Witteveen+Bos, the Netherlands

**European Union: Marine Strategy Framework Directive  
Common Implementation Strategy**  
Noemi von Meijenfeldt, Witteveen+Bos, the Netherlands  
Anna Csiti, CEDA, the Netherlands  
Frank Thomsen, DHI, Denmark (MSFD CIS/WG GES/Technical  
Subgroup Underwater Noise)

**PIANC Envicom WG 143 (in preparation): Screening  
Evaluation of Environmental Effects of Navigation and  
Infrastructure Projects**  
Ruben Abma, Witteveen+Bos, the Netherlands

**European Union: Waste Directive – H14 Working Group  
to Developing Criteria for distinguishing hazardous / non  
hazardous waste**  
Georg Reifferscheid, Federal Institute on Hydrology (BfG),  
Germany

**PIANC Envicom WG 157: Environmental Aspects of  
Dredging and Port and Waterway Construction around  
Coastal Plant Habitats**  
Matthew James Jury, DHI (S), Singapore

**Water Framework Directive Navigation Task Group -  
WFDNTG**  
Grahame Newman, British Waterways, UK  
Axel Netzband, Hamburg Port Authority, Germany

**PIANC Marcom WG136 (in preparation): Recommendations  
for Sustainable Maritime Navigation**  
Steve Challinor, Royal HaskoningDHV, UK

**Marine Strategy Navigation Group - MSNG**

## THANK YOU

CEDA, as a small and independent organisation, can neither 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 its gratitude to the following companies and organisations who through their corporate membership contributed to CEDA's work and achievements in the year 2013.



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

### ACADEMIC BODIES AND EDUCATIONAL INSTITUTES

#### Delft University of Technology

The Netherlands  
Tel.: +31(0)15 278 6882 - Fax: +31(0)15 278 1836  
Email: [info@3me.tudelft.nl](mailto:info@3me.tudelft.nl)  
Web: [www.3me.tudelft.nl](http://www.3me.tudelft.nl)  
CEDA Contact Point: Prof. Dr. ir C. van Rhee



#### Russian State Hydrometeorological University - RSHU

Russia  
Tel.: +7812 444 5636 - Fax: +7812 444 6090  
Email: [shilin@rshu.ru](mailto:shilin@rshu.ru)  
Web: [www.rshu.ru](http://www.rshu.ru)  
CEDA Contact Point: Dr. M.S. Michael Shilin



#### Hanzehogeschool, Hogeschool van Groningen

The Netherlands  
Tel.: +31(0)50 5954 646 - Fax: +31(0)50 595 49 99  
Email: [w.t.van.rossum@pl.hanze.nl](mailto:w.t.van.rossum@pl.hanze.nl)  
Web: [www.hanze.nl](http://www.hanze.nl)  
CEDA Contact Point: Ir. M.P. Parlevliet



#### Scheepvaart en Transport College

The Netherlands  
Tel.: +31(0)10 44 86 000  
Email: [baggerinfo@stc-r.nl](mailto:baggerinfo@stc-r.nl)  
Web: [www.stc-r.nl](http://www.stc-r.nl)  
CEDA Contact Point: Mr. E.N.G. Wentink



### CEDA ASSOCIATIONS

#### Hafentechnische Gesellschaft E.V.

Germany  
Tel.: +49 40 42847 2178  
Email: [service@htg-online.de](mailto:service@htg-online.de)  
Web: [www.htg-online.de](http://www.htg-online.de)  
CEDA Contact Point: Dipl.-Ing. G. Kaschel

#### IRO

The Netherlands  
Tel.: +31(0)79 341 19 81 - Fax: +31(0)79 341 97 64  
Email: [info@iro.nl](mailto:info@iro.nl)  
Web: [www.iro.nl](http://www.iro.nl)  
CEDA Contact Point: ir. A.P.H. Vergroesen



#### Vereniging van Waterbouwers

The Netherlands  
Tel.: +31(0)70 349 07 00  
Email: [info@waterbouwers.nl](mailto:info@waterbouwers.nl)  
Web: [www.waterbouwers.nl](http://www.waterbouwers.nl)  
CEDA Contact Point: Mr. F. Heinis



### CONSULTANCIES AND RESEARCH INSTITUTES

#### Antea Group

Belgium  
Tel.: +32(0)33 221 55 00 - Fax: +32(0)3 221 55 01  
Email: [info.be@anteagroup.com](mailto:info.be@anteagroup.com)  
Web: [www.anteagroup.be](http://www.anteagroup.be)  
CEDA Contact Point: Dr. ir. Renaat De Sutter



#### Anthony Bates Partnership Dredging and Costal Consultants

UK  
Tel.: +44 (0)1934 732 380 - Fax: +44(0)1934 733 439  
Email: [mail@anthonybates.co.uk](mailto:mail@anthonybates.co.uk)  
Web: [www.anthonybates.co.uk](http://www.anthonybates.co.uk)  
CEDA Contact Point: Mr. A. Bates



#### Aqua Vision

The Netherlands  
Tel.: +31(0)30 245 98 72 - Fax: +31(0)30 245 94 99  
Email: [info@aquavision.nl](mailto:info@aquavision.nl)  
Web: [www.aquavision.nl](http://www.aquavision.nl)  
CEDA Contact Point: Ms. S. van Maurik



#### ARCADIS Nederland BV

The Netherlands  
Tel.: +31(0)10 235 2222 - Fax: +31(0)10 253 2194  
Email: [water@arcadis.nl](mailto:water@arcadis.nl)  
Web: [www.arcadis.nl](http://www.arcadis.nl)  
CEDA Contact Point: ir. F.T. Heezen



#### ARCADIS U.S. Inc.

USA  
Tel.: +1(0)206 325 5254 - Fax: +1(0)206 325 8218  
Web: [www.Arcadis-us.com](http://www.Arcadis-us.com)  
CEDA Contact Point: Mr. J. Beaver



#### BMT JFA Consultants Pty Ltd.

Australia  
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)

France  
Tel.: +33(0) 344 92 60 00 - Fax: +33(0)3 44 92 06 75  
Email: [cetmef@developpement-durable.gouv.fr](mailto:cetmef@developpement-durable.gouv.fr)  
Web: [www.cetmef.equipement.gouv.fr](http://www.cetmef.equipement.gouv.fr)  
CEDA Contact Point: Mr. O. Piet



#### Deep B.V.

The Netherlands  
Tel.: +31(0)20 634 36 76 - Fax: +31(0)20 634 46 86  
Email: [info@deepbv.nl](mailto:info@deepbv.nl)  
Web: [www.deepbv.nl](http://www.deepbv.nl)  
CEDA Contact Point: Mr. G.J. Hein



#### Deltares

The Netherlands  
Tel.: +31(0)15 285 8585 - Fax: +31(0)15 285 8582  
Email: [info@deltares.nl](mailto:info@deltares.nl)  
Web: [www.deltares.nl](http://www.deltares.nl)  
CEDA Contact Point: Ir. J.G.S. Pennekamp



#### DEMAS Dredging Consultants B.V.

The Netherlands  
Tel.: +31(0)182 546 798 - Fax: +31(0)182 546 802  
Email: [demasnl@demas.nl](mailto:demasnl@demas.nl)  
Web: [www.demas.nl](http://www.demas.nl)  
CEDA Contact Point: Mr. K. Ooms



#### DHI

Denmark  
Tel.: +45 45 16 92 00 - Fax: +45 45 16 92 92  
Email: [dhi@dhigroup.com](mailto:dhi@dhigroup.com)  
Web: [www.dhigroup.com](http://www.dhigroup.com)  
CEDA Contact Point: Ms. Jennifer Oakley



#### Dredging Consultancy Van 't Hoff & Partners B.V.

The Netherlands  
Tel.: +31(0)30 69 20 294 - Fax: +31(0)30 69 20 362  
Email: [info@hoff-consultancy.com](mailto:info@hoff-consultancy.com)  
Web: [www.hoff-consultancy.com](http://www.hoff-consultancy.com)  
CEDA Contact Point: Mr. J. van 't Hoff



#### Ecorem N.V.

Belgium  
Tel.: +32(0)3 87 10 900 - Fax: +32(0)3 87 10 901  
Email: [info@ecorem.be](mailto:info@ecorem.be)  
Web: [www.ecorem.be](http://www.ecorem.be)  
CEDA Contact Point: Mr. W. Mondt



#### G-Tec S.A.

Belgium  
Tel.: +32(0)438 78 500 - Fax: +32(0)438 78 509  
Email: [info@gtec.be](mailto:info@gtec.be)  
Web: [www.gtec.be](http://www.gtec.be)  
CEDA Contact Point: Mr. F. Renardy



#### GEO.xyz

Belgium  
Tel.: +32(0)56 70 68 48 - Fax: +32(0)56 75 46 74  
Email: [info@geoxyz.be](mailto:info@geoxyz.be)  
Web: [www.geoxyz.be](http://www.geoxyz.be)  
CEDA Contact Point: Ing. P. R. Reyntjens



#### GLM van der Schriek B.V.

The Netherlands  
Tel.: +31(0) 23 534 4525 - Fax: +31(0) 23 534 3201  
Email: [glm@vanderschriek.nl](mailto:glm@vanderschriek.nl)  
CEDA Contact Point: Ir. G.L.M. van der Schriek



#### Halcrow Group Ltd.

UK  
Tel.: +44(0)1793 812 479  
Email: [halcrow@halcrow.com](mailto:halcrow@halcrow.com)  
Web: [www.halcrow.com](http://www.halcrow.com)  
CEDA Contact Point: Mr. P. Foroudi



#### HR Wallingford Group Ltd.

UK  
Tel.: +44 (0) 1491 835381 - Fax: +44 (0) 1491 832233  
Email: [info@hrwallingford.co.uk](mailto:info@hrwallingford.co.uk)  
Web: [www.hrwallingford.co.uk](http://www.hrwallingford.co.uk)  
CEDA Contact Point: Mr. M. Costaras



#### International Marine & Dredging Consultants nv (IMDC)

Belgium  
Tel.: +32(0)3 270 92 95 - Fax: +32(0)3 235 67 11  
Email: [info@imdc.be](mailto:info@imdc.be)  
Web: [www.imdc.be](http://www.imdc.be)  
CEDA Contact Point: Mr. J. Smits



#### KCI BV

The Netherlands  
Tel.: +31(0) 10 4270 399 - Fax: +31(0) 10 426 6394  
Email: [info@kci.nl](mailto:info@kci.nl)  
Web: [www.kci.nl](http://www.kci.nl)  
CEDA Contact Point: Ms. M.K.M. van Pol

#### Knowles Ltd.

UK  
Tel.: +44(0)8707530616 - Fax: +44(0)8707481700  
Email: [info@jrknowles.com](mailto:info@jrknowles.com)  
Web: [www.jrknowles.com](http://www.jrknowles.com)  
CEDA Contact Point: Mr. T. Clarke



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Denmark  
Tel.: +45-39 62 16 42 - Fax: +45-39 62 54 80  
Email: [rsi@liceng.dk](mailto:rsi@liceng.dk)  
Web: [www.liceng.dk](http://www.liceng.dk)  
CEDA Contact Point: Mr. R. S. Lorenz



### LLC Eco-Express-Service

Russia  
Tel.: +812(0)574 57 91 - Fax: +812(0)574 57 94  
CEDA Contact Point: Ms T Bylina



### Marine Structure Consultants B.V.

The Netherlands  
Tel.: +31(0)10 2320 800 - Fax: +31(0)10 2320 801  
Email: [MSC@MSCoffshore.nl](mailto:MSC@MSCoffshore.nl)  
Web: [www.MSCoffshore.nl](http://www.MSCoffshore.nl)  
CEDA Contact Point: Mr. C.J. Mommaas



### Nortek B.V.

The Netherlands  
Tel.: +31(0)20 65 43 600 - Fax: +31(0)20 65 99 830  
Email: [sicc.kamminga@nortek-bv.nl](mailto:sicc.kamminga@nortek-bv.nl)  
Web: [www.nortek-bv.nl](http://www.nortek-bv.nl)  
CEDA Contact Point: Mr. S. Kamminga



### Royal HaskoningDHV Nederland B.V.

The Netherlands  
Tel.: +31 88 348 20 00 - Fax: +31 88 348 28 01  
Email: [pwcd@dhv.com](mailto:pwcd@dhv.com)  
Web: [www.dhv.com](http://www.dhv.com)  
CEDA Contact Point: Mr. W. Klomp



### Stema Survey Services B.V.

The Netherlands  
Tel.: +31(0)345 580 395 - Fax: +31(0)345 570 649  
Email: [stema@stema-survey.com](mailto:stema@stema-survey.com)  
Web: [www.stema-survey.com](http://www.stema-survey.com)  
CEDA Contact Point: Mr. W. Fontein



### Svasek Hydraulics

The Netherlands  
Tel.: +31(0)10 467 13 61 - Fax: +31(0)10 467 45 59  
Email: [info@svasek.com](mailto:info@svasek.com)  
Web: [www.svasek.com](http://www.svasek.com)  
CEDA Contact Point: Ir. A.J. Blik



### Witteveen+Bos Consulting Engineers

The Netherlands  
Tel.: + 31(0) 570 69 79 11 - Fax: +31(0)570 69 73 44  
Email: [info@witteveenbos.nl](mailto:info@witteveenbos.nl)  
Web: [www.witteveenbos.com](http://www.witteveenbos.com)  
CEDA Contact Point: Mr. H.P. Laboryrie



## DESIGNERS, BUILDERS AND SUPPLIERS OF ANCILLARY EQUIPMENT

### Allard-Europe

Belgium  
Tel.: +32 14 42 11 11 - Fax: +32 14 42 52 00  
Email: [jd@allard-europe.com](mailto:jd@allard-europe.com)  
Web: [www.allard-europe.com](http://www.allard-europe.com)  
CEDA Contact Point: Mr. J. Dijkmans



### Asicon, Division of Astron NV

Belgium  
Tel.: +32 (0)3 227 7404 - Fax: +32 (0)3 227 74 01  
CEDA Contact Point: Mr. S.B. Mr Steve Beckers



### Bakker Sliedrecht Electro Industrie B.V.

The Netherlands  
Tel.: +31(0)184 43 66 66 - Fax: +31(0)184 43 66 77  
Email: [info@bakker-sl.nl](mailto:info@bakker-sl.nl)  
Web: [www.bakkersliedrecht.com](http://www.bakkersliedrecht.com)  
CEDA Contact Point: Mr. A. Boer



### Bradken

United Kingdom  
Tel.: +44 114 284 1007 - Fax: +44 114 284 1001  
Email: [pfieldhouse@bradken.com](mailto:pfieldhouse@bradken.com)  
Web: [www.bradken.com](http://www.bradken.com)  
CEDA Contact Point: Mr P Fieldhouse

### Denialink SL

Spain  
Tel.: +34 965 788 373 - Fax: +34 965 782 204  
Email: [info@denialink.com](mailto:info@denialink.com)  
Web: [www.denialink.com](http://www.denialink.com)  
CEDA Contact Point: Mr. E. Wibbelink



### Esco Group

USA  
Tel.: +1(0)5037786515 - Fax: +1(0)5037786765  
Email: [jack.rickey@escocorp.com](mailto:jack.rickey@escocorp.com)  
Web: [www.escocorp.com](http://www.escocorp.com)  
CEDA Contact Point: Mr. J. Rickey



### Future Pipe Industries B.V.

The Netherlands  
Tel.: +31(0)523 280500 - Fax: +31(0)523 280700  
Email: [g.faber@futurepipe.nl](mailto:g.faber@futurepipe.nl)  
Web: [www.futurepipe.com](http://www.futurepipe.com)  
CEDA Contact Point: Mr. G. Faber



### Holland Marine Technologies B.V.

The Netherlands  
Tel.: +31 (0)348 416075 - Fax: +31 348 410019  
Email: [info@HollandMT.com](mailto:info@HollandMT.com)  
Web: [www.HollandMT.com](http://www.HollandMT.com)  
CEDA Contact Point: Mr. J.W. de Wit



### Konotherm

The Netherlands  
Tel.: +31(0)3412 642 83 - Fax: +31(0)341 264 893  
Email: [info@konotherm.nl](mailto:info@konotherm.nl)  
Web: [www.konotherm.nl](http://www.konotherm.nl)  
CEDA Contact Point: M. de Jonge



### Loggers B.V.

The Netherlands  
Tel.: +31(0)78 6182844 - Fax: +31(0)78 6180650  
Email: [info@loggers.nl](mailto:info@loggers.nl)  
Web: [www.loggers.nl](http://www.loggers.nl)  
CEDA Contact Point: Mr. D.J. van Ramshorst



### Man Diesel & Turbo SE

Germany  
Tel.: +49 (0) 821 3220 - Fax: +49 (0) 821 322 3382  
Email: [info\\_de@mandieselturbo.com](mailto:info_de@mandieselturbo.com)  
Web: [www.mandieselturbo.com](http://www.mandieselturbo.com)  
CEDA Contact Point: Mr. U. Ziegler



### N-Seatec Subsea Systems B.V.

The Netherlands  
Tel.: +31(0)111 45 61 00 - Fax: +31(0)111 45 61 11  
Email: [info@n-sea.com](mailto:info@n-sea.com)  
Web: [www.n-sea.com](http://www.n-sea.com)  
CEDA Contact Point: Mr. E Smits



### Nanjing Deers Industrial Co., Ltd

China  
Tel.: +86(0)258 450 7790 - Fax: +86(0)258 466 0486  
Email: [benny@chinarubberfender.com](mailto:benny@chinarubberfender.com)  
Web: [www.chinarubberfender.com](http://www.chinarubberfender.com)  
CEDA Contact Point: Ms. Vicky Zhu



### Prolec Ltd

UK  
Tel.: +44 120 268 1190 - Fax: +44 120 267 909  
Email: [info@prolec.co.uk](mailto:info@prolec.co.uk)  
Web: [www.prolec.co.uk](http://www.prolec.co.uk)  
CEDA Contact Point: Mr. G. Tuffy



### Remu Oy

Finland  
Tel.: +35(0)820 7431 160 - Fax: +35(0)820 7431 161  
Email: [info@remu.fi](mailto:info@remu.fi)  
Web: [www.remu.fi](http://www.remu.fi)  
CEDA Contact Point: Ms. H.R. Rissanen



### Rexroth Bosch Group

The Netherlands  
Tel.: +31 (0) 411 651 764 - Fax: +31 (0) 411 651 453  
Email: [paulette.teulings@boschrexroth.nl](mailto:paulette.teulings@boschrexroth.nl)  
Web: [www.boschrexroth.nl](http://www.boschrexroth.nl)  
CEDA Contact Point: Mr. E. Slaats



### Seatools B.V.

The Netherlands  
Tel.: +31(0)186 680 000 - Fax: +31(0)186 680 001  
Email: [info@seatools.com](mailto:info@seatools.com)  
Web: [www.seatools.com](http://www.seatools.com)  
CEDA Contact Point: Mr. J.C.L. Frumau



### Siemens Nederland N.V. Bruinhof Marine

The Netherlands  
Tel.: +31(0)10 497 0801 - Fax: +31(0)10 483 4995  
Email: [Bruinhof.nl@siemens.com](mailto:Bruinhof.nl@siemens.com)  
Web: [www.bruinhof.nl](http://www.bruinhof.nl)  
CEDA Contact Point: Mr. J. Baas



### Technogenia

France  
Tel.: +33(0)450 685660 - Fax: +33(0)450 686277  
Email: [technogenia@technogenia.com](mailto:technogenia@technogenia.com)  
Web: [www.technogenia.com](http://www.technogenia.com)  
CEDA Contact Point: Mr. L.T. Taba





## The Corporate Members of CEDA

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

### Teledyne Reson

The Netherlands  
Tel.: +31(0)10 245 1500 - Fax: +31(0)10 245 1555  
Email: [info@reson.nl](mailto:info@reson.nl)  
Web: [www.reson.nl](http://www.reson.nl)  
CEDA Contact Point: Mr. N. van Woerkom



### TrustLube

The Netherlands  
Tel.: +31(0)88 8787 700 - Fax: +88 8787 750  
Email: [chiel.vandaelen@trustlube.com](mailto:chiel.vandaelen@trustlube.com)  
Web: [www.trustlube.com](http://www.trustlube.com)  
CEDA Contact Point: Mr. N. van Woerkom



### Van Heck B.V.

The Netherlands  
Tel.: +31(0)561 43 17 39 - Fax: +31(0)561 43 17 66  
Email: [info@vanheckpumps.nl](mailto:info@vanheckpumps.nl)  
Web: [www.vanheckpumps.nl](http://www.vanheckpumps.nl)  
CEDA Contact Point: Mr. J.G.M. Van Heck



### VandeGrijp Pipes & Parts

The Netherlands  
Tel.: +31(0)78 644 64 64 - Fax: +31(0)78 644 64 65  
Email: [info@vandegrijp.com](mailto:info@vandegrijp.com)  
Web: [www.vandegrijp.com](http://www.vandegrijp.com)  
CEDA Contact Point: Mr. J.R. Kraaijeveld van Hemert



### Wärtsilä Nederland B.V.

The Netherlands  
Tel.: +31(0)10 427 7100 - Fax: +31(0)10 -427 7170  
Email: [sales.nl@wartsila.com](mailto:sales.nl@wartsila.com)  
Web: [www.wartsila.com](http://www.wartsila.com)  
CEDA Contact Point: Mr. D. Heidelberg



### Xrosswater

Bermuda  
Tel.: +19173 101 344  
Email: [Malcolm@xrosswater.com](mailto:Malcolm@xrosswater.com)  
Web: [www.xrosswater.com](http://www.xrosswater.com)  
CEDA Contact Point: Mr. M. Harrison



## DESIGNERS, BUILDERS AND SUPPLIERS OF DREDGING VESSELS

### Boogaard Sliedrecht B.V.

The Netherlands  
Tel.: +31(0)184 41 51 44 - Fax: +31(0)184 41 14 02  
Email: [mail@boogaardbrokers.com](mailto:mail@boogaardbrokers.com)  
Web: [www.boogaardbrokers.com](http://www.boogaardbrokers.com)  
CEDA Contact Point: Mr. G. B. van Leeuwen



### Damen Dredging Equipment B.V.

The Netherlands  
Tel.: +31(0)33 247 40 40 - Fax: +31(0)33 247 40 60  
Email: [info@damendredging.com](mailto:info@damendredging.com)  
Web: [www.damendredging.com](http://www.damendredging.com)  
CEDA Contact Point: Mr. D. Tenwolde



### Damen Shipyards Gorinchem

The Netherlands  
Tel.: +31(0)183 6399 11 - Fax: +31(0)183 6321 89  
Email: [info@damen.nl](mailto:info@damen.nl)  
Web: [www.damen.nl](http://www.damen.nl)  
CEDA Contact Point: Mr. H.C. van Vliet



### Dredge Yard

The Netherlands  
Tel.: +31(0)70-770 9038 - Fax: +31(0)70-770 9039  
Email: [info@dredgeyard.com](mailto:info@dredgeyard.com)  
Web: [www.dredgeyard.com](http://www.dredgeyard.com)  
CEDA Contact Point: Mr. Basel Yousef



### IHC Merwede B.V.

The Netherlands  
Tel.: +31 (0)184 436 366  
Email: [info@ihcmerwede.com](mailto:info@ihcmerwede.com)  
Web: [www.ihcmerwede.com](http://www.ihcmerwede.com)  
CEDA Contact Point: Mr R. Hendriks



### Machinefabriek De Hollandsche Yssel B.V.

The Netherlands  
Tel.: +31(0)348 56 14 41 - Fax: +31(0)348 56 33 24  
Email: [info@hollandscheijssel.nl](mailto:info@hollandscheijssel.nl)  
Web: [www.hollandscheijssel.nl](http://www.hollandscheijssel.nl)  
CEDA Contact Point: Ir. R. Vollenbrock



### Seadrec Ltd. (Lobnitz Marine Holding)

UK  
Tel.: +44(0)141 887 41 31 - Fax: +44(0)141 887 64 67  
Email: [seadrec@aol.com](mailto:seadrec@aol.com)  
Web: [www.lobnitz.com/Seadrec/Seadrec\\_Home.htm](http://www.lobnitz.com/Seadrec/Seadrec_Home.htm)  
CEDA Contact Point: Mr. B. A. McKinney



### VOSTA LMG B.V.

The Netherlands  
Tel.: +31(0)20 493 66 66 - Fax: +31(0)20 493 66 70  
Email: [info@vostalmg.com](mailto:info@vostalmg.com)  
Web: [www.vostalmg.com](http://www.vostalmg.com)  
CEDA Contact Point: Ms. P.B. Koomen



### Vuyk Engineering Rotterdam B.V.

The Netherlands  
Tel.: +31(0)10 450 25 00 - Fax: +31(0)10 458 72 45  
Email: [vuyk@vuykrotterdam.com](mailto:vuyk@vuykrotterdam.com)  
Web: [www.vuykrotterdam.com](http://www.vuykrotterdam.com)  
CEDA Contact Point: Mr. K. van de Berg



## DREDGING AND MARINE CONTRACTORS

### Abeko Dredging & Marine Contractors

The Netherlands  
Tel.: +31(0)251 2760 70 - Fax: +31(0) 251 212 550  
Email: [info@abeko.nl](mailto:info@abeko.nl)  
Web: [www.abeko.nl](http://www.abeko.nl)  
CEDA Contact Point: Mr. K. Koster



### Atlantic Dredging Corporation

Morocco  
mail: [info@atlanticdredging.com](mailto:info@atlanticdredging.com)  
Web: [www.atlanticdredging.com](http://www.atlanticdredging.com)  
Tel.: +212 22 947 639 - Fax: +212 22 947 601  
CEDA Contact Point: Mr. A. Benali



### Baeck & Jansen N.V.

Belgium  
Tel.: +32(0)14 31 78 41 - Fax: +32(0)14 31 78 46  
Email: [bj@baeck.be](mailto:bj@baeck.be)  
Web: [www.baeck.be](http://www.baeck.be)  
CEDA Contact Point: Mr. A. Baeck



### Baggerwerken Decloedt & Zoon N.V.

Belgium  
Tel.: +32(0)59 24 21 40 - Fax: +32(0)59 24 21 80  
Email: [infodecloedt@deme.be](mailto:infodecloedt@deme.be)  
Web: [www.decloedt.be](http://www.decloedt.be)  
CEDA Contact Point: Mr. B. Verboomen



### DC Industrial N.V.

Belgium  
Tel.: +32 2 647 1234 - Fax: +32 2 640 4813  
Email: [office@groupdecloedt.be](mailto:office@groupdecloedt.be)  
Web: [www.groupdecloedt.be](http://www.groupdecloedt.be)  
CEDA Contact Point: Mr. J. de Brabandere



### De Hoop Terneuzen B.V.

The Netherlands  
Tel.: +31(0)115 68 09 11 - Fax: +31(0)115 61 10 66  
Web: [www.dehoop-terneuzen.nl](http://www.dehoop-terneuzen.nl)  
CEDA Contact Point: Mr. B.C. van der Peijl



### Drapor Dragages des Ports

Morocco  
Tel.: +21(0)5 22 46 43 71 - Fax: +21(0) 5 22 46 43 64  
Email: [Legliti@drapor.com](mailto:Legliti@drapor.com)  
Web: [www.drapor.com](http://www.drapor.com)  
CEDA Contact Point: Ms. K. Legliti



### Dredging and Contracting Rotterdam B.V.

The Netherlands  
Tel.: +31(0) 164 266 144 - Fax: +31(0)164 260 454  
Email: [Heidi.Schluter@dcrl.com](mailto:Heidi.Schluter@dcrl.com)  
Web: [www.jandenuil.com](http://www.jandenuil.com)  
CEDA Contact Point: Mr. G. Groot Nibbelink



### Dredging International N.V.

Belgium  
Tel.: +32(0)3 250 52 11 - Fax: +32(0)3 250 56 50  
Email: [dredging@dredging.com](mailto:dredging@dredging.com)  
Web: [www.dredging.com](http://www.dredging.com)  
CEDA Contact Point: Mr. A. Bernard



### Dutch Dredging B.V.

The Netherlands  
Tel.: +31(0)184 41 19 99 - Fax: +31(0)184 41 19 98  
Email: [info@dutchdredging.nl](mailto:info@dutchdredging.nl)  
Web: [www.dutchdredging.nl](http://www.dutchdredging.nl)  
CEDA Contact Point: Ir. C.J. van de Graaf



### EDT Marine Construction

Cyprus  
Tel.: +35 725 899 000 - Fax: +35 725 899 005  
Email: [miki@edtmc.com](mailto:miki@edtmc.com)  
Web: [www.edtmc.com](http://www.edtmc.com)  
CEDA Contact Point: Ms. G. M. M. P. Miki Peleg



### Emirates Dredging Co. LLC

United Arab Emirates  
Tel.: +97 (0)2 634 2700 - Fax: +97(0)2 6334525  
Email: [edc@anholdings.com](mailto:edc@anholdings.com)  
CEDA Contact Point: Mr. A. N. A. Al Masaabi



## The Corporate Members of CEDA

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

### EMODRAGA Mozambican Dredging Company

Mozambique  
Tel.: +258 23 327 038 - Fax: +258 23 323 841  
Email: emodraga@teledata.mz  
Web: www.emodraga.co.mz  
CEDA Contact Point: Mr. T. A. C. Adamo



### Ghent Dredging N.V.

Belgium  
Tel.: +32(0)9 222 6157 - Fax: +32(0)9 222 6106  
Email: info@ghentdredging.be  
Web: www.ghentdredging.be  
CEDA Contact Point: Mr. W. De Schipper



### Gulf Cobla LLC

United Arab Emirates  
Tel.: +97148802222 - Fax: +97148804295  
Email: gc-info@gulfcobla.com  
Web: www.gulfcobla.com  
CEDA Contact Point: Mr. J.J. Post



### Jan De Nul N.V.

Belgium  
Tel.: +32(0)53 73 15 11 - Fax: +32(0)53 78 17 60  
Email: info@jandenul.com  
Web: www.jandenul.com  
CEDA Contact Point: Mr. J. De Nul



### JSC "Mezhregiontruboprovodstroy"

Russia  
Tel.: +7(0)95 779 6066 - Fax: +7(0)95 719 4478  
Email: pavlov03y@yandex.ru  
Web: www.jsc-mezhregiontruboprovodstroy.ru  
CEDA Contact Point: Mr. S. Pavlov

### Land and Water Group

U K  
Tel.: +44(0)1483 202733 - Fax: +44(0)1483 202 510  
Email: enquiries@land-water.co.uk  
Web: www.land-water.co.uk  
CEDA Contact Point: Mr. A. Gascoyne



### National Marine Dredging Co.

United Arab Emirates  
Tel.: +971(0)2 5516 000 - Fax: +971(0)2 5516 500  
Email: mmk@emirates.net.ae  
Web: www.nmdc.ae  
CEDA Contact Point: Mr. Y. Nassr Zaghloul



### Northern Dredging Company Ltd

Russia  
Tel.: +7812 320 4848; +79213050446 - Fax: +7812 3200701  
Email: infondc@pstgroup.ru  
Web: www.sdk-dredging.ru  
CEDA Contact Point: Mr. N. Spas



### Royal Boskalis Westminster N.V.

The Netherlands  
Tel.: +31(0)78 696 9822 - Fax: +31 78 69 69 020  
Email: royal@boskalis.nl  
Web: www.boskalis.com  
CEDA Contact Point: Mr. M. L. Schuttevaer



### Shoreline Chemicals & Oil Services

Nigeria  
Tel.: +23(0)48423 9429/4851 71 - Fax: +23(0)484 84 23 07 33  
Email: info@shorelineng.com  
Web: www.shorelineng.com  
CEDA Contact Point: Mrs. L. Amos Oluwole



### Somit S.r.l.

Italy  
Tel.: +39(0)41 554 4467 - Fax: +39(0) 41 554 4257  
Email: info@somit.it  
Web: www.somit.it  
CEDA Contact Point: Mr. G. Schavion



### Strabag Wasserbau GmbH

Germany  
Tel.: +49(0)40 800 90 30 - Fax: +49(0)40 800 48 10  
CEDA Contact Point: Mr. T Arps



### Terramare Oy

Finland  
Tel.: +358(0)9 613 621 - Fax: +358(0)9 613 62700  
Email: terramare@terramare.fi  
Web: www.terramare.fi  
CEDA Contact Point: Mr. J. Sederholm



### UK Dredging (ABP)

UK  
Tel.: +44(0)29 2086 5200 - Fax: +44(0)29 2083 5216  
Email: ukd@abports.co.uk  
Web: www.abports.co.uk  
CEDA Contact Point: Mr. P. Mitchell



### Van den Herik/Sliedrecht B.V.

The Netherlands  
Tel.: +31(0)184 41 28 81 - Fax: +31(0)184 41 98 21  
Email: Sliedrecht@Herik.nl  
Web: www.Herik.nl  
CEDA Contact Point: Mr. J. Huijbers



### Van der Kamp International B.V.

The Netherlands  
Tel.: +31(0)38 421 75 47 - Fax: +31(0)38 421 59 75  
Email: office@vanderkampbv.nl  
Web: www.vanderkampbv.nl  
CEDA Contact Point: Mr. H. Veerman



### Van Oord Dredging and Marine Contractors bv

The Netherlands  
Tel.: +31(0)88 826 0000  
Email: info@vanoord.com  
Web: www.vanoord.com  
CEDA Contact Point: ir. I. Damen



### Wasa Dredging Ltd.

Finland  
Tel.: +358 6 3444 112 - Fax: +358 6 3444 110  
Web: www.wasadredging.fi  
CEDA Contact Point: Mr. K. Backlund



## GOVERNMENT ORGANISATIONS AND PUBLIC WORKS

### Centre for Environment, Fisheries and Aquaculture Science (CEFAS)

UK  
Tel.: +44 (0)1502 527703 - Fax: +44(0)1502 513865  
Email: infoservices@cefasc.co.uk  
Web: www.cefasc.co.uk  
CEDA Contact Point: Dr. A. Birchenough



### Danish Coast Authority

Denmark  
Tel.: +45-99 63 63 63 - Fax: +45-99 63 63 99  
Email: kdi@kyst.dk  
Web: www.kyst.dk  
CEDA Contact Point: Ms. S. Ingvarsdén



### Femern Baelte A/S

Denmark  
Tel.: +45 33 41 63 00 - Fax: +45 33 41 63 01  
Email: info@sfb.dk  
Web: www.fehmarnlink.com  
CEDA Contact Point: Mr. C. Iversen



### German Federal Ministry of Transport, Building and Urban Affairs

Germany  
Tel.: +49(0)228 300 4245 - Fax: +49(0)228 300 3428  
Email: harald.koeth@bmvbs.buns.de  
Web: www.bmvbs.de  
CEDA Contact Point: Mr. H. Koethe



### GIE Dragages-Ports

France  
Tel.: +33(0)2 32 7645 50 - Fax: +33(0)2 32 7645 52  
Email: dir.dp@dragages-ports.fr  
CEDA Contact Point: Mr. M. David



### Marine Laboratory Aberdeen

UK  
Tel.: +44(0)1224 876 544 - Fax: +44(0)1224 295 524  
Email: enquiries@marlab.ac.uk  
Web: www.marlabor.ac.uk  
CEDA Contact Point: Mr. J. McKie



### Ministry of Infrastructure and Environment

The Netherlands  
Tel.: +31(0)70 336 66 08 - Fax: +31(0)70 390 06 91  
Email: secretariaat-bvmd@rws.nl  
Web: www.noordzee.org  
CEDA Contact Point: Ms. A. Arends



### Ministry of the Flemish Community Maritime Access Division

Belgium  
Tel.: +32(0)3 222 08 69 - Fax: +32(0)3 222 08 51  
Email: maritieme.toegang@mow.vlaanderen.be  
Web: www.lin.vlaanderen.be/awz/  
CEDA Contact Point: Mr. F. Aerts



### Ministry of the Flemish Community/Agency Maritime and Coastal Services

Belgium  
Tel.: +32(0)2 553 7727 - Fax: +32(0)2 553 7705  
Email: jacques.dhawe@mow.vlaanderen.be  
Web: www.agentschapmdk.be/  
CEDA Contact Point: Mrs. K. Bernaert



### Ministry of Water Resources

Iraq  
Tel.: +96 47 901 388 592 - Fax: +96 455 610 60  
Web: www.iraq-mowr.org  
CEDA Contact Point: Mr. S.H. Shakir



## The Corporate Members of CEDA

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

### MEDIA

#### IHS Dredging & Port Construction

UK  
Tel.: +44(0)1 737 379 000 - Fax: +44(0)1 737 379001  
Email: [tony.slinn@ihs.com](mailto:tony.slinn@ihs.com)  
Web: [www.dpcmagazine.com](http://www.dpcmagazine.com)  
CEDA Contact Point: Mr. T. Slinn



#### Marine and Coastal Construction Service (MACCS)

UK  
Tel.: +44 20 7060 3000 - Fax: +44 20 7060 3099  
Email: [accounts@maccs.co.uk](mailto:accounts@maccs.co.uk)  
Web: [www.maccs.co.uk](http://www.maccs.co.uk)  
CEDA Contact Point: Mrs. D. Heijer



### PORT, MARITIME AND NAVIGATIONAL AUTHORITIES

#### Administration Des Ports

Republic of Guinea-Bissau  
Tel.: +32(0)3 205 23 44 - Fax: +32(0)3 205 23 35  
CEDA Contact Point: Mr C Da Silva

#### Gemeentelijk Havenbedrijf Antwerpen

Belgium  
Tel.: +32 (0)3 229 67 53 - Fax: +32(0)3 229 67 51  
Email: [info@haven.antwerpen.be](mailto:info@haven.antwerpen.be)  
Web: [www.portofantwerp.be/](http://www.portofantwerp.be/)  
CEDA Contact Point: Ir. E. De Broe



#### Hamburg Port Authority AöR

Germany  
Tel.: +49 (0)40 428 47 2791 - Fax: +49(0)40 428 47 2794  
Email: [info@hpa.hamburg.de](mailto:info@hpa.hamburg.de)  
Web: [www.hamburg-port-authority.de](http://www.hamburg-port-authority.de)  
CEDA Contact Point: Mr. A. Netzband



#### Port Autonome de Dakar

Senegal  
Tel.: +22(1)849 45 45 - Fax: +22(1)823 36 06  
CEDA Contact Point: Mr. A. Kane



#### Port Autonome de Lome

Lome Togo  
Tel.: +228 227 47 42 - Fax: +228 227 26 27  
Web: [www.portdakar.sn](http://www.portdakar.sn)  
CEDA Contact Point: Mr. Kodjo Adegnon

#### Port of Rotterdam N.V.

The Netherlands  
Tel.: +31(0)10 252 10 10 - Fax: +31(0)10 252 49 65  
Email: [info@portofrotterdam](mailto:info@portofrotterdam)  
Web: [www.port.rotterdam.com](http://www.port.rotterdam.com)  
CEDA Contact Point: Ir. T. Vellinga



#### Zeeland Seaports

The Netherlands  
Tel.: +31(0)115 6474 00 - Fax: +31(0)115 6475 00  
Email: [dick.engelhardt@zeeland-seaports.com](mailto:dick.engelhardt@zeeland-seaports.com)  
Web: [www.zeeland-seaports.com](http://www.zeeland-seaports.com)  
CEDA Contact Point: Ir. D. Engelhardt



### SERVICES (E.G. INSURERS, LAW FIRMS, FINANCIAL AGENCIES, TOWAGE COMPANIES)

#### Acta Marine Waterweg

The Netherlands  
Tel.: +31(0)223 615 666 - Fax: +31(0)223 614 360  
Email: [info@actamarine.com](mailto:info@actamarine.com)  
Web: [www.actamarine.com](http://www.actamarine.com)  
CEDA Contact Point: Mr. D. Bras



#### Aon Risk Solutions

The Netherlands  
Tel.: +31(0)104487660 - Fax: +31(0)104769691  
Email:  
Web: [www.aon.com/](http://www.aon.com/)  
CEDA Contact Point: Mr. H. Bredemeijer



#### Atlas Professionals

The Netherlands  
Tel.: +31 (0)10 266 94 55  
Email: [info@atlasgroep.nl](mailto:info@atlasgroep.nl)  
Web: [www.atlasgroep.nl](http://www.atlasgroep.nl)  
CEDA Contact Point: Mr. P. Steeghs



#### Brandmarion

The Netherlands  
Tel.: +31(0)728 009 989  
Email: [info@brandmarion.com](mailto:info@brandmarion.com)  
Web: [www.brandmarion.com](http://www.brandmarion.com)  
CEDA Contact Point: Mrs. M. Mooij



#### DSB Offshore

UK  
Tel.: +44(0)207 3842882 - Fax: +44(0)207 7731 8163  
Email: [info@dsboffshore.com](mailto:info@dsboffshore.com)  
Web: [www.dsboffshore.com](http://www.dsboffshore.com)  
CEDA Contact Point: Mr. A.C. Laing



#### Gareloch Support Services B.V.

The Netherlands  
Tel.: +31 (0)10 59 22766 - Fax: +31 (0)10 59 274 97  
CEDA Contact Point: Mr. E.J. Peute

#### Independent Risk Solutions B.V.

The Netherlands  
Tel.: +31(0)10 440 0555 - Fax: +31(0)10 440 0556  
Email: [info@jltrisk.nl](mailto:info@jltrisk.nl)  
Web: [www.jltrisk.nl](http://www.jltrisk.nl)  
CEDA Contact Point: Mr. H. Liem

#### IPS Powerful People

The Netherlands  
Tel.: +31(0)104479494 - Fax: +31(0)102357878  
Email: [info@ipspersonnel.com](mailto:info@ipspersonnel.com)  
Web: [www.ipspersonnel.com](http://www.ipspersonnel.com)  
CEDA Contact Point: Mr. E.D.T. Broeders



#### Rabobank Nederland Corporate Clients

The Netherlands  
Tel.: +31(0)30 216 47 69 - Fax: +31(0)30 216 19 75  
Web: [www.rabobank.com](http://www.rabobank.com)  
CEDA Contact Point: Mr. T. Wouterse



#### Steder Group B.V.

The Netherlands  
Tel.: +31(0)10 503 3435 - Fax: +31(0)10 501 1079  
Email: [projects@stedergroup.nl](mailto:projects@stedergroup.nl)  
Web: [www.stedergroup.com](http://www.stedergroup.com)  
CEDA Contact Point: Mr. G. Langstraat



#### Transport & Offshore Services

The Netherlands  
Tel.: +31(0)10 436 6293 - Fax: +31(0)10 436 6286  
Email: [info@tos.nl](mailto:info@tos.nl)  
Web: [www.tos.nl](http://www.tos.nl)  
CEDA Contact Point: Mr. R. van der Kolk



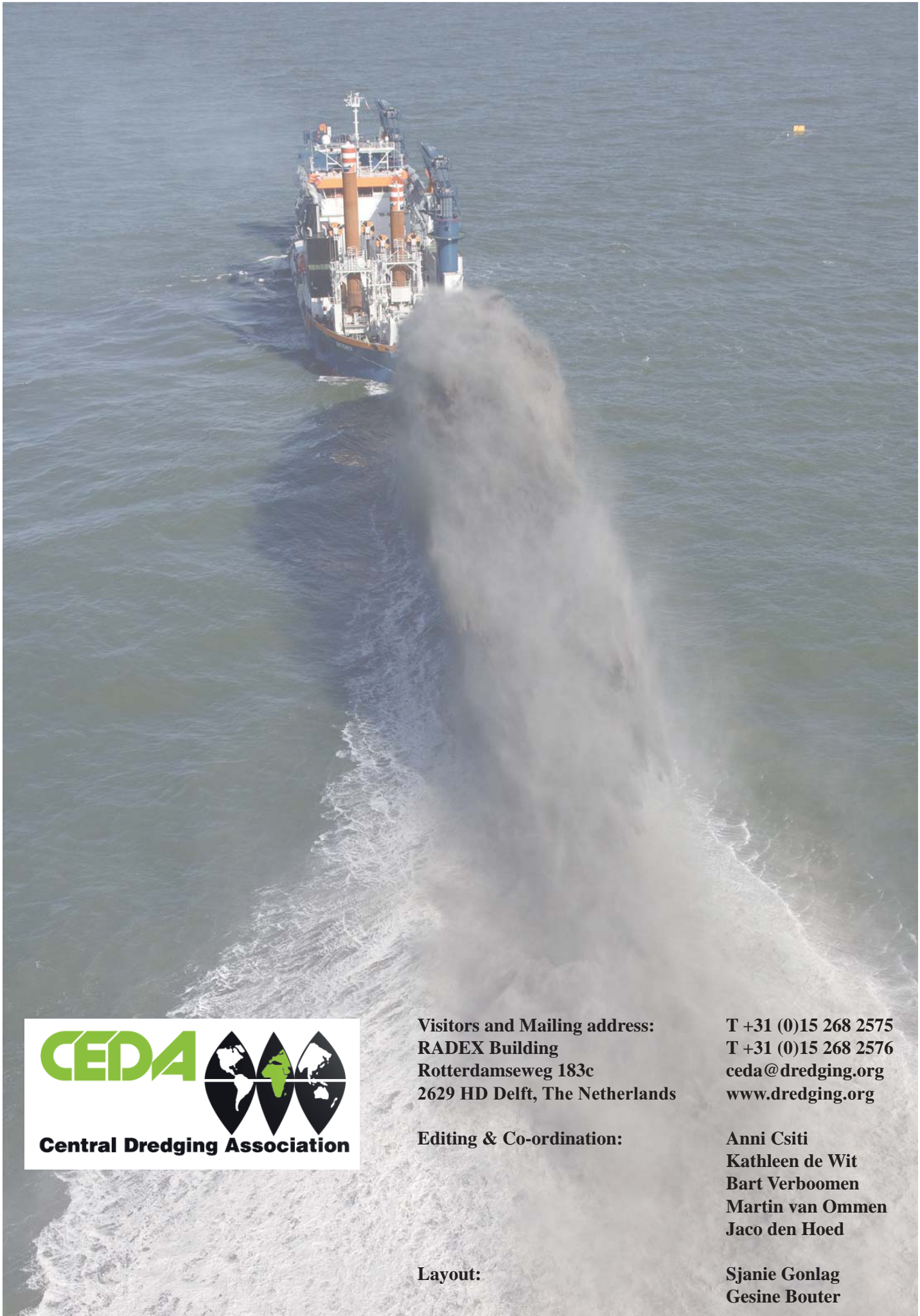
### OTHER

#### Damen Shiprepair Rotterdam B.V.

The Netherlands  
Tel.: +31(0)10 204 12 22 - Fax: +31(0)10 473 25 77  
Email: [dsr@damenshiprepair.com](mailto:dsr@damenshiprepair.com)  
Web: [www.damenshiprepair.com/](http://www.damenshiprepair.com/)  
CEDA Contact Point: Mrs. J. Koster







**Visitors and Mailing address:**  
RADEX Building  
Rotterdamseweg 183c  
2629 HD Delft, The Netherlands

**T +31 (0)15 268 2575**  
**T +31 (0)15 268 2576**  
**ceda@dredging.org**  
**www.dredging.org**

**Editing & Co-ordination:**

**Anni Csiti**  
**Kathleen de Wit**  
**Bart Verboomen**  
**Martin van Ommen**  
**Jaco den Hoed**

**Layout:**

**Sjanie Gonlag**  
**Gesine Bouter**



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