



ANNUAL REPORT 2018 AND 2019

UNDERSTANDING DREDGING



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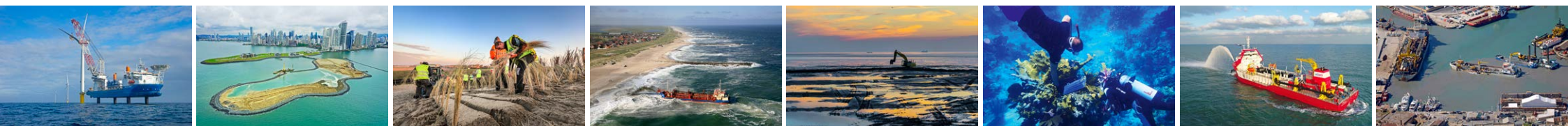
www.dredging.org

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CONTENTS

CEDA	1	CEDA Working Group Papers	19
CONTENTS	2	Works Published	20
WELCOME TO OUR NEW DIGITAL ANNUAL REPORT FOR	3	Works in Progress	21
MESSAGE FROM THE PRESIDENT AND THE GENERAL MANAGER	4	HIGHLIGHTS FROM THE COMMISSIONS	22
WHAT IS CEDA?	6	Dredging Management Commission (DMC).....	22
Leading Independent Forum	6	Environment Commission (CEC).....	23
Source of Specialist Knowledge	6	Strategy Commission (CSC).....	25
Diverse Membership	7	Young CEDA Commission	26
Connecting Professionals Globally	7	FINANCES	29
OUR VOLUNTEERS	8	Figures	29
NATIONAL SECTIONS	9	ORGANISATION	30
African Section	9	CEDA Board of Directors.....	30
Belgian Section	10	CEDA Annual General Meeting.....	30
Dutch Section	11	CEDA Secretariat.....	30
UK Section	12	OBJECTIVES FOR 2020-2021	31
EVENTS	15	CEDA VOLUNTEERS	33
Dredging for Sustainable Infrastructure Conference	15	Standing bodies	33
CEDA Dredging Days 2019	16	Temporary committees and working groups.....	35
WODCON XXII	18	Acknowledgement.....	37
WODCON XXIII.....	18	CORPORATE MEMBERS OF CEDA	38
PUBLICATIONS	19	ACKNOWLEDGEMENT	43
Dredging for Sustainable Infrastructure.....	19		



CEDA ANNUAL REPORT 18/19

WELCOME TO OUR NEW DIGITAL ANNUAL REPORT FOR 2018 - 2019

In response to our members' preferences, and in an effort to be more environmentally friendly and cost-efficient, we have chosen to produce the latest annual report in a digital format.

We think that the landscape layout offers a more user-friendly option and we hope you agree. We've also taken advantage of the interactive possibilities offered by this format to provide more information on particular topics to interested readers.

Where you see these icons, you can click on them for more information, or download a document, as indicated.

Navigational buttons at the bottom right of each page will take you back or forward. You can click on the bars in the centre to go straight back to the contents page, where the entries as well as the page numbers are links to the destination pages.

We hope you like the new format and we would love to hear your feedback on how we can improve it for you.

MESSAGE FROM THE PRESIDENT AND THE GENERAL MANAGER

The last two years have been challenging for many across the globe and CEDA has had to deal with its fair share. However, as you will see from this report, there is still much to celebrate.



Polite Laboyrie
President

We are delighted to say that the CEDA commissions, national sections and working groups, have continued to produce sterling work over the period. We owe much to the many enthusiastic and dedicated members that have been willing to give up their valuable time, to share their knowledge and expertise. The level of member engagement has never been so high and we are very happy to see that so many members are active. At various points, 145 individuals from 80 companies were actively engaged in various initiatives. We are also indebted to our wider supporters who come to our events, engage in CEDA activities, and generally let us know that we are providing a much-needed service to the industry and our associated communities.

This report outlines some of the activities that we have been involved in, throughout 2018 and 2019 including:

- Our key title, *'Dredging for Sustainable Infrastructure'*, was jointly published in November 2018, in collaboration with IADC. The first copy was presented, hot off the press, to Dr Hartwig Kremer, Senior Programme Officer, Head of the Global Environment Monitoring Unit, and liaison to WMO, at the CEDA-IADC conference to celebrate its publication, in Amsterdam, the Netherlands.
- In conjunction with IADC and PIANC, we hosted a panel session entitled 'Dredging for Sustainable Water Infrastructure', based largely on the book, at the second global session of the UN Science Policy Business Forum on the Environment, in March 2019, in Nairobi. Recommendations from the Forum inform the UN Environment Assembly and the UN's work on the Sustainable Development Goals. The event was a great opportunity to share our members' knowledge, and best practice, with scientists, policy makers and businesses, involved in the development of water infrastructure projects worldwide. We are keen to continue our work in getting the wealth of knowledge compiled in the book to a worldwide audience. With that in mind, we have also started



Anna Csiti
General Manager

discussions with the financial world to see whether we can co-operate to improve the financial viability of sustainable marine infrastructure projects.

- **WODCON XXII:** Enhance the harmony between dredging and ecology, Shanghai, China, April 2019. The CEDA Papers Committee supported the 22nd World Dredging Congress & Exposition by selecting and reviewing 28 papers, from the CEDA region, for presentation.
- **WODCON XXIII:** CEDA will be organising the next event in 2022 and planning is already underway. Put the date in your diary: WODCON XXIII will take place from 16th-20th May 2022, at the Tivoli Congress Centre, Copenhagen, Denmark. The theme will be 'Dredging is changing'.
- **Dredging Days 2019:** As always, the Dredging Days audience had high expectations for an interesting technical programme and they were not disappointed. For those who attended, it was a varied and entertaining event, at which they could catch up on the latest developments while also making important connections. We would like to join Prof Cees van Rhee, the conference chair, in thanking the technical committee, and everyone, especially the sponsors, who attended and engaged to make this event a success.
- Our working groups have been busy and during the period, the Working Group on Beneficial Use of Sediment (WGBU) published: *Sustainable Management of the Beneficial Use of Sediments: An information paper*; *Assessing the Benefits of Using Contaminated Sediments: A position paper*; and an online resource of 38 case studies.

- The Working Group on Effective Contract-Type Selection (WGECS) published the guidance paper, *Effective Contract-Type Selection in the Dredging Industry*, in 2019, to complement the work started by the well-received *Checklist for Successful Dredging Management*.
- It is CEDA's turn to chair WODA (from April 2019 – May 2022). We are excited and proud to be taking the reins and we look forward to further strengthening the co-operation with our sister associations.

You can read more about these and our other activities, and the commissions, working groups and national sections who have made them happen, in the following pages.

We know we say it every year but, we are keen to make sure that we provide our members with the right level of information, and the right events and support, to help in their professional lives. Any feedback on what we do for you would be most welcome. Please send your thoughts, and any new ideas you might have, to CEDA Secretariat (ceda@dredging.org).

Again, we would like to thank the CEDA members, and the wider dredging profession, for their continuing support and we look forward to working with you all, in growing the association and promoting the industry in 2020.



WHAT IS CEDA?

CEDA exists to champion the professional success of individuals and organisations in the dredging and associated fields.

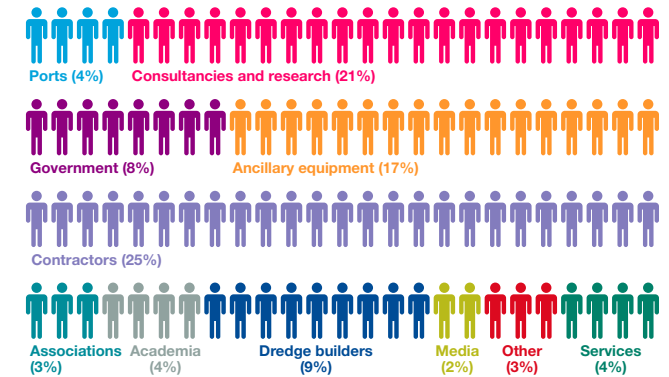
Leading Independent Forum

CEDA is an established authority and the leading independent forum for the professional dredging community, and associated industries, in Europe, Africa and the Middle East. We represent dredging professionals and organisations, from government, academia and business, in the region. We foster and promote the understanding and advancement of dredging to the wider community.

Source of Specialist Knowledge

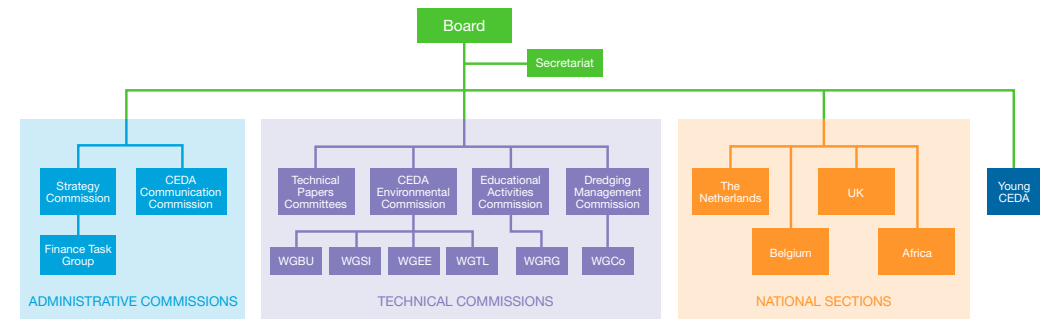
We are a recognised reference point for high-quality specialist knowledge on all aspects of dredging and provide a multidisciplinary network for professional contacts. Drawing on the collective knowledge of our members, and as an impartial organisation, CEDA regularly gives expert advice to government and international regulatory bodies.

CEDA MEMBERSHIP BREAKDOWN



Composition of CEDA's membership by main area of activity.

CEDA ORGANOGRAM



During 2018-2019, 6 working groups were active and worked on a range of publications under the guidance of two technical commissions.

WGBU: Working Group Beneficial Use | WGSi: Working Group Seafloor Integrity | WGEE: Working Group Energy Efficiency
WGTl: Working Group Turbidity Limits | WGRG: Working Group Research Group | WGCo: Working Group Contracts

Diverse Membership

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

Here are just some of the countries represented by our members:

Argentina	India
Australia	Ireland
Bahrein	Italy
Belgium	Latvia
Canada	Morocco
China	Netherlands
Cyprus	Nigeria
Denmark	Norway
Finland	Russian Federation
Fiji	Spain
France	Sweden
Ghana	Turkey
Germany	United Arab Emirates
Greece	United Kingdom
Guinea	USA

At the end of 2019, CEDA had 349 individual members, 43 members less than the year before. At the end of 2019 we had 104 corporate members of which 4 have been administered by the African Section, exactly the same numbers as the year before.

Connecting Professionals Globally

As part of the World Organisation of Dredging Associations (WODA), CEDA is in the best position to represent the professional values of our members around the world. 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.



The WODA structure.

The chairmanship of WODA is once again with CEDA. Polite Laboyrie, CEDA President, is the Chairman of WODA until the end of the next World Dredging Congress, WODCON XXIII, in May 2022.



Polite Laboyrie (left) is the Chairman of WODA until May 2022.

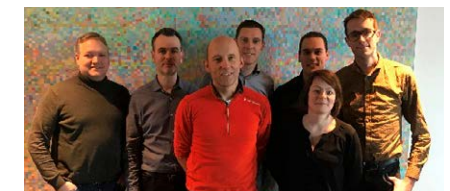
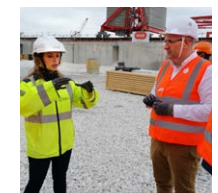
OUR VOLUNTEERS

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

In 2019 over 140 members from 80 companies have been active in CEDA in various commissions and working groups.



CEDA IS DRIVEN BY ITS VOLUNTEERS



NATIONAL SECTIONS

Providing great opportunities to exchange knowledge, and network with peers, in your own language.

Our national sections, in regions with a cluster of CEDA members, encourage local networking with regional and national events. They organise their own technical programmes and site visits to the same high standards as any other CEDA event. The sections provide members with the perfect opportunity to meet peers, exchange knowledge and discuss local dredging topics, in their own language - all in an informal friendly, and professional atmosphere.

There are currently four national sections. An elected committee leads the executive direction for each section.

- African Section
- Belgian Section
- Dutch Section
- UK Section

In both 2018 and 2019, our national sections ran a series of successful meetings, and site visits, on topical subjects. Altogether, they held 13 well-attended events during each year. **Members can see many of the presentations on the appropriate national section pages of the CEDA website.** Here are highlights from the sections.

African Section



Miloud Abudib
Chair



Khadija Legliti
Secretary

The African Section (CEDA-AS) aims to organise one seminar a year. There were no events organised in 2019 but, in October 2018, they hosted the CEDA African Section International Days of Dredging.



Participants of the International Days of Dredging 2018, in Casablanca, Morocco, organised by the African Section.

Miloud Abudib
Chair, CEDA-AS

Belgian Section



Jos Smits
Chair



Lydia De Cauwer
Secretary

2018 and 2019 were busy years in which we ran a number of successful events. Highlights from the period include:

New Year's Receptions

Our popular New Year's Receptions, and General Assembly meetings, are always a great start to the year. They are a time to meet old friends and to express our New Year wishes. In 2018, at the Antwerp Yacht Harbour, Freddy Aerts, Maritime Access Department of Flanders, spoke about the improvement project at the North Sea Port and the new lock, in Terneuzen, to improve access to the Ghent area. In 2019, the Reception was held in the historical 'House of the Free Shipping People' in Ghent. Our speaker, Daan Schalk, CEO of North Sea Port, told us about the first international co-operation between the ports of Ghent and the Dutch Zeeland Seaports (Vlissingen and Terneuzen).

Young CEDA event

Visit of Dredging Equipment

In April 2018, Jan De Nul hosted a Young CEDA visit to the Trailing Suction Hopper Dredger 'Taccola' and the Cutter Suction Dredger 'Fernão de Magalhães'. It was a nice

opportunity for many of our young colleagues and students to get a more in-depth knowledge about the importance of dredging in our ports.

Club evenings

Start-ups and SMEs in the Dredging Industry: In April 2018, we invited 3 small enterprises and start-ups to share their innovations in the dredging and offshore industry. We were delighted to find that the maritime world is alive and kicking with continuous innovative effort. We heard from: Thomas Van Hoestenbergh, Fluves, on 'Innovations in morphological monitoring with fiber optic sensors', Bruno Stuyts, Cathie Associates, on 'Integrated approach of pile driving risk management based on Pile Driving Monitoring and machine learning', and Gert De Sitter, 24Seas, on 'Foundation structural health monitoring in the Belgian North Sea'.

Scientific Coastal Research: In October 2018, we focused on improving our scientific knowledge about coastal processes. We heard from Prof J Monbaliu, Louvain, on the CREST (Climate Resilient Coast) research programme, Dr Maikel De Clercq, University of Ghent – VLIZ, on 'Advanced geophysical techniques – application in the North Sea', and Prof Peter Troch, University of Ghent, on 'Coastal & Ocean Basin – a new large test facility in Oostend'.

Storm Surge Barrier Nieuwpoort: In May 2019, we visited the construction site of the new storm surge barrier in Nieuwpoort, on the Belgian Coast. After the site visit, hosted by the JV Herbosch Kiere and Jan De Nul, we got the technical details about the project from Isabelle D'hooghe, Coastal Service, and heard from Els Knaeps, VITO, on 'Remote sensing – a key element towards digitization'.

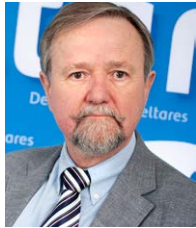


Liesbeth De Keukelaere receives the IADC's Young Author Award, at CEDA Dredging Days 2019, for the paper 'Using remote sensing for water quality monitoring' written with colleagues from VITO, including Els Knaeps, and Jan De Nul.

WODCON XXII revisited: In October 2019, we revisited the four Belgian papers presented at WODCON XXII. We heard from Emile Lemey, Jan De Nul, on 'A holistic approach to coastal protection for the Prins Hendrik Polder', Tomas Sterckx, DEME, on 'Coastbusters, ecosystem-based coastal defence', Boudewijn Decrop, IMDC, on 'Near-field dispersion of deep-sea mining plumes – detailed CFD simulations' and CEDA Board member, Kathleen De Wit, IMDC, on 'CEDA's Checklist for Successful Dredging Management'.

Jos Smits
Chair, CEDA-BE

Dutch Section



Johan Pennekamp

Chair



Yvonne Duivenman

Secretary

The Dutch Section (CEDA-NL) focusses on the dissemination of knowledge and creating a regional networking platform for the dredging industry and associated professional communities. To help achieve this we worked closely with complementary branch organisations including the Royal Dutch Branch Associations of Shipbuilders (KNVTS), the Hydrographic Society Benelux (HSB) and Dutch Branch of the Association for Offshore Energy (IRO).

In the last two years, CEDA-NL organised ten meetings. Normally, we are aiming for 5 meetings per year, but due to CEDA's flagship CEDA Dredging Days and the CEDA/IADC Conference: 'Dredging for a Sustainable Infrastructure', we have chosen to hold 5-5 meetings in 2018 and 2019. Feedback from our members, and other participants, suggest that, overall, our meetings have been successful.

The attendance and interaction of young professionals in the CEDA community has continued to prosper and we are delighted to have welcomed an increasing number of young professionals to our events.

Highlights from the period include:

- January 2018, we looked at 'Safety at work'. Three high-profile speakers fuelled an in-depth discussion from the perspective of both the client and the contractor.
- In March 2018 we discussed the future of offshore wind, with presentations covering both innovations and the financing issues.
- April 2018 focused on the newly built TSHD DC Orisant and included views from the builders and owners.
- June 2018 we had a magnificent excursion to Marker Wadden. Aided by a beautiful summer's day, it proved to be a very pleasant and highly interesting event.
- In September 2018 we looked at developments in sensor technology and autonomous surveying.
- The first meeting of 2019 discussed corporate social responsibility which has an increasing resonance in the dredging community.
- March 2019's meeting discussed 'The impact of instalment of wind parks on the environment' with a focus on legislation, environmental assessments, solutions and economics.
- April 2019, we focused on the two newly built TSHDs – Vox Amalia and Bonny River.
- May 2019, we looked at economics in 'The future of the dredging industry' with particular reference to the associated Erasmus University research project.
- The October 2019 meeting covered the current issues around plastic in our environment, with particular reference to the ecological and environmental consequences.



Photos above: During the highly successful site visit to Marker Wadden in the summer of 2018.



The first meeting in 2019 was hosted by Van Oord and, as always, included a nice meal together and pleasant networking.

Our special thanks go to our CEDA corporate members who provided the venues for our events, including: Damen Dredging Equipment, Van Oord Dredging & Marine Contractors, Royal IHC and Deltares. A very special thanks must also go to Boskalis Nederland who generously sponsored the excursion to Marker Wadden.

CEDA-NL, along with the Dutch Association for Effectual Maintenance (NVDO), is one of the founding associations of the Maintenance in Dredging Society. It held four meetings during the period.

Johan Pennekamp
Chair, CEDA-NL

UK Section



Jamie Gardiner
Chair



Shelagh Fleming
Secretary

The UK Section (CEDA-UK) is an associated society of the Institution of Civil Engineers (ICE) and plays an active role in the development of relevant UK legislation.

Overall, 2018 and 2019 continued to be good years for CEDA UK. In 2019, we continued our commitment to the regions by holding our October Technical Seminar in Liverpool, in conjunction with Young CEDA and the Port of Liverpool, and our site visit was to the Port of Dublin.

Events and Activities

The following successful events were held in 2019:

- Dredging for Sustainable Infrastructure: official UK book launch: The launch event provided the opportunity to hear from three chapter authors, as well as speakers from the dredging industry.
- Dredging and sustainability in northwest England: Young CEDA event: Delegates were treated to a morning site visit around the new deep-water container terminal, at the Port of Liverpool, followed by an afternoon seminar.

- John Sargent Lecture - The plastic problem: An opportunity to hear about Ocean Cleanup's innovative technology designed to tackle ocean plastic.
- Dublin Port visit: A morning site visit, afternoon seminar and networking event, organised in conjunction with the Port of Dublin, at its Alexandra Basin Redevelopment Project.
- An overview of the offshore wind industry: The audience heard from industry specialists, representing dredging contractors, ports and offshore wind infrastructure, on specific aspects of the industry with a focus on dredging. As is traditional, the last event of the year was followed by the CEDA-UK annual Christmas drinks where guests networked and continued the discussion.



Ocean Cleanup's innovative system deployed.

Future Events

The CEDA-UK committee members are looking forward to our 2020 programme with great anticipation. We are planning several interesting site visits, depending on project progress, and details will be posted on the CEDA website when confirmed. The 2020 John Sargent Lecture will be on the theme of ‘Working with Nature and Blue Carbon’ (title to be confirmed). Our technical seminars in 2020 will be held in May, October (a regional seminar hosted by Young CEDA) and December (the end-of-year wrap up).

Liaison with Kindred Organisations

During 2018 and 2019, the committee continued to liaise with kindred organisations including PIANC, the Federation of Dredging Contractors (now dormant) and AINA. We continue to work with the ICE, as part of its knowledge sharing programme, and we are represented on the ICE Maritime Panel by Paul Hesk.

Members of the committee are chairing the Thames Estuary Partnership’s Dredging Liaison Group and helping to share knowledge and best practice.

Input to Legislation

CEDA-UK takes an active interest in the development of national and European legislation that may affect the dredging industry. The UK focus has continued to be on the potential impact of Brexit on maritime industries and CEDA-UK will maintain a watching brief in 2020.

We have been successful in getting Cefas to join the committee. Cefas provides technical advice on dredging and disposal activities to the Marine Management Organisation (the UK’s

marine regulator). Having Cefas on board helps members to keep abreast of legislation relating to dredging management in the UK.

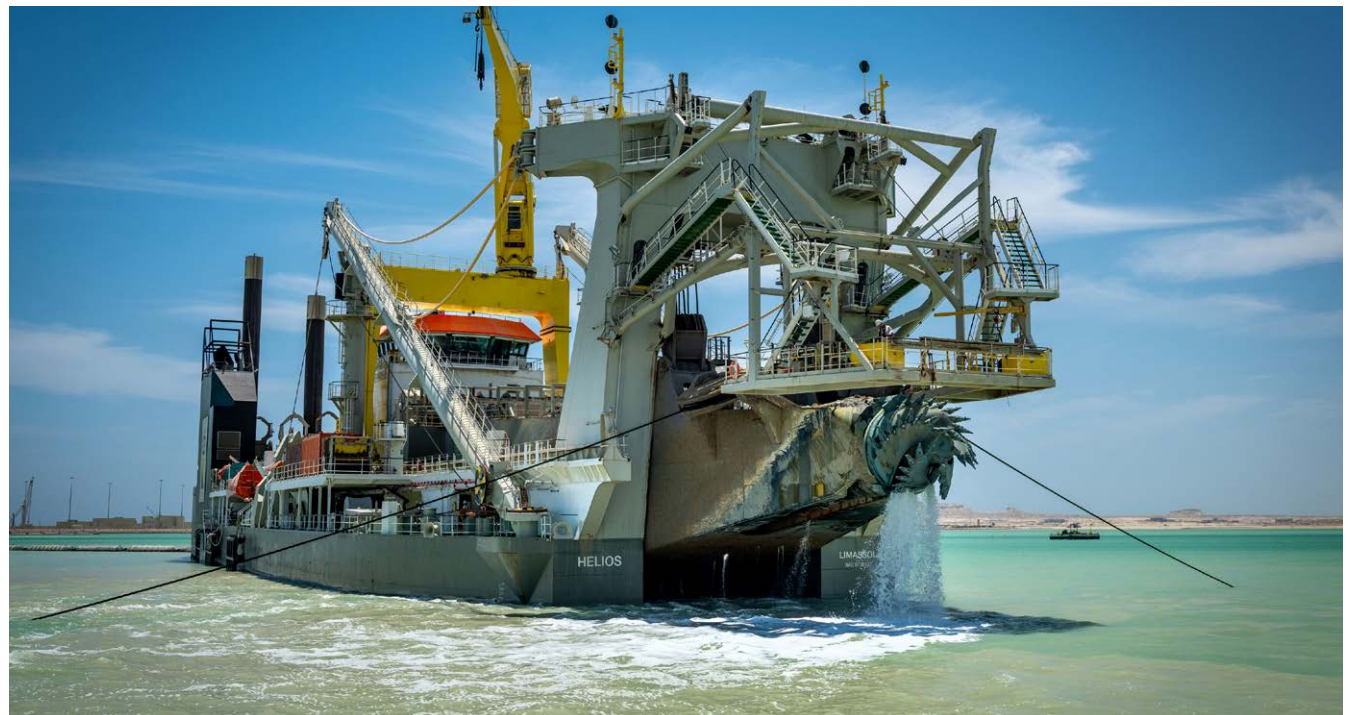
CEDA-UK attends the UK Water Framework Directive/Marine Strategy Framework Directive Navigation Sector Group. The group provides a forum for the navigation industry and government to liaise over legislative progress.

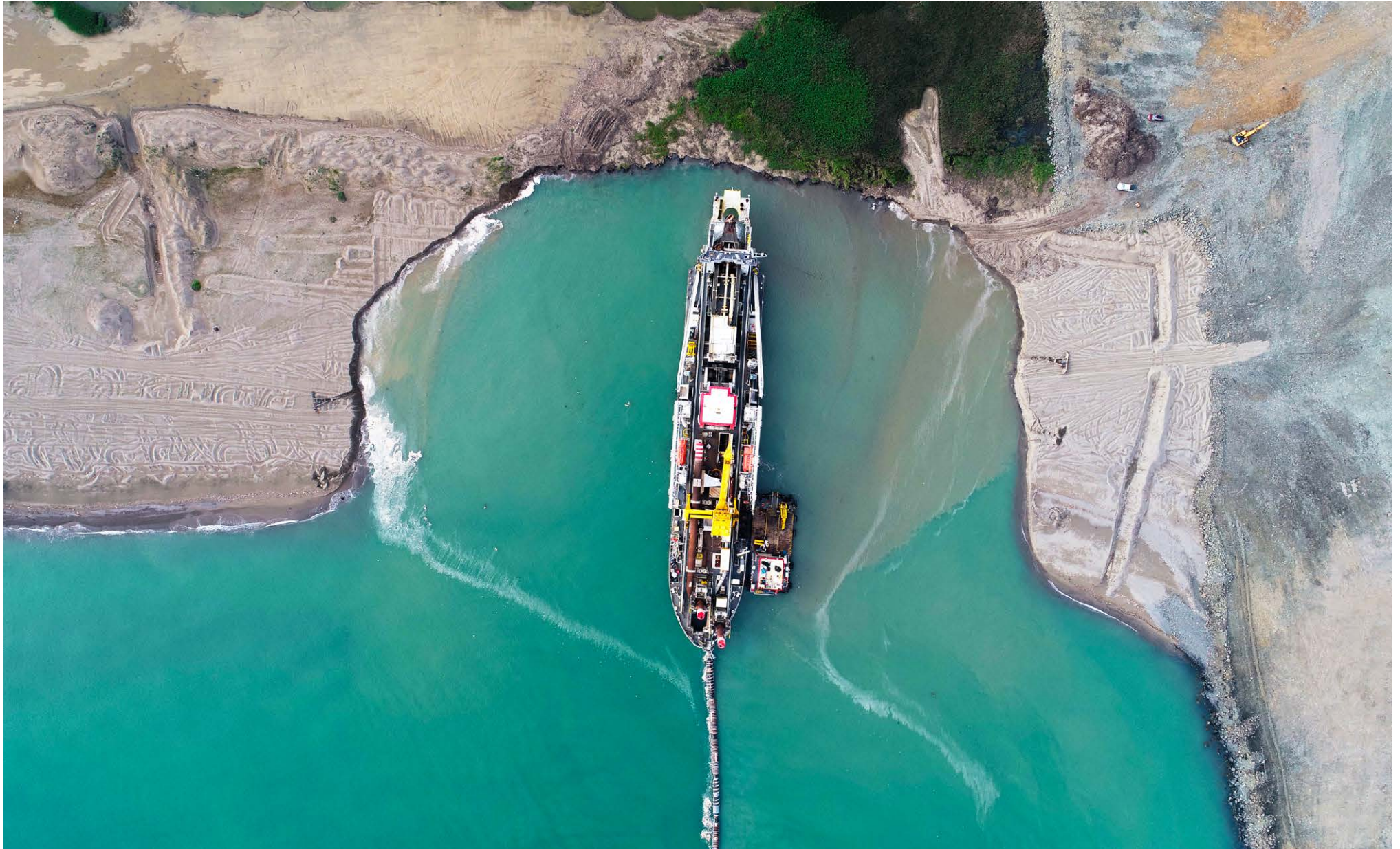
Committee members have continued to play an active role in wider CEDA activities. Will Shields and Michael Costaras represent the CEDA-UK committee on the CEDA Board.

Personnel

All members have made a strong commitment to CEDA-UK by attending meetings and leading technical seminars and events. I would like to thank the committee members for their continued dedication to CEDA-UK and their enthusiasm for our activities. I look forward to, and appreciate, the continued input from all committee members in the coming year.

Jamie Gardiner
Chair, CEDA-UK





EVENTS

Providing the latest knowledge, experience and great networking opportunities, for the dredging industry.

During the afternoon there were visits to three projects/activities which contribute to a sustainable environment. As part of the event, the conference networking area was organised by Navingo.

On day two, four interactive sessions covered the key elements of designing and implementing sustainable water infrastructure, including stakeholder involvement, ecosystem services, adaptive management and management of dredged material. One of the participants was heard to publicly declare that this was his best conference ever.



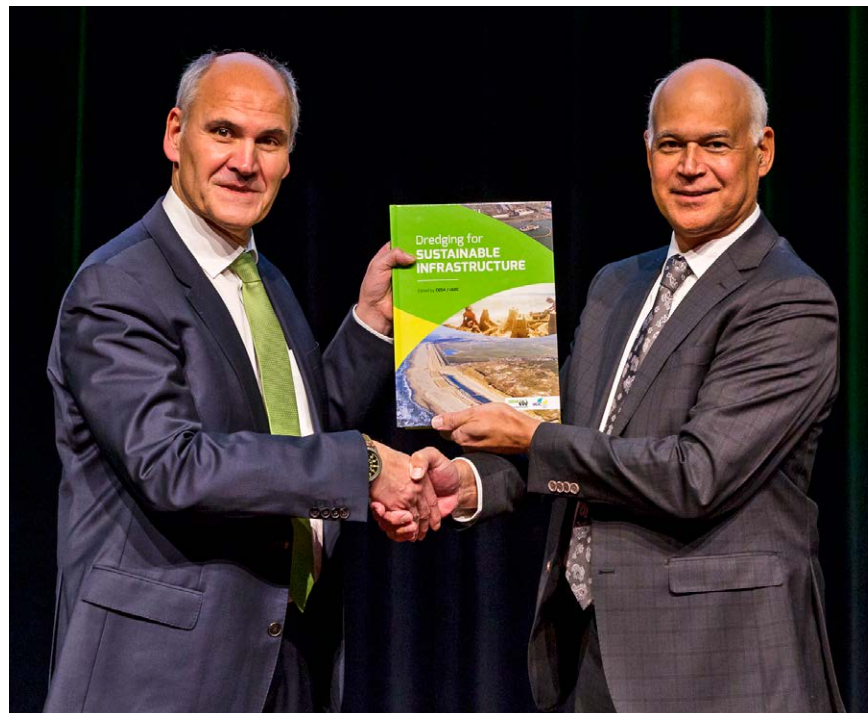
The interactive sessions were highly educational and good fun.

Dredging for Sustainable Infrastructure Conference

19-20 November 2018. Beurs van Berlage, Amsterdam, the Netherlands

CEDA and IADC organised a joint conference, in the Beurs van Berlage, Amsterdam, from 19th to 20th November, as part of the launch for the newly published guidance book *Dredging for Sustainable Infrastructure*.

A very innovative and interactive programme was developed to help engage and inform the audience of the new design philosophy for sustainable water infrastructure. On day one, a six-metre by four-metre-long painting was created live by a team of painters with the help of volunteers from the audience. The finished painting is on display at the Delft University of Technology.



During the conference to celebrate its launch, the first copy of Dredging for Sustainable Infrastructure was presented by Polite Laboyrie, CEDA President and Chair of the Editorial Board, to Dr Hartwig Kremer, UN Environment, Head of GEMS Water Unit and Climate Technology Centre and Network.

CEDA Dredging Days 2019

7-8 November 2019, Ahoy Rotterdam, the Netherlands

The conference chair, Prof Cees van Rhee takes a look back at an exciting event.

On the first day of Dredging Days 2019, the audience was promised an interesting programme and they were not disappointed. We enjoyed presentations and discussions on a variety of subjects and the content can be laid out in a pattern similar to the dredging cycle.

As we all know, dredging starts with the excavation process, so first we heard presentations on rock cutting, water injection dredging, cutter spillage and boulder removal with a large plough-like structure. We also heard about the dynamic response of a Cutter Suction Dredger due to the interaction between the cutter and soil.



The content can be laid out in a pattern similar to the dredging cycle.

In relation to the next stage of the dredging cycle, hydraulic transportation, we heard the latest on a Euler-Euler multiphase flow simulation. That was followed by the suction behaviour of a pump which was investigated with experiments using small 3D printed impellers. Next, under the deposition phase, we heard about hopper sedimentation and the capping of soft sediment in a reclamation project.

All these processes are energy intensive, and generate CO₂ emissions, and a panel of experts were on hand to share their views, in a lively discussion, on energy transition in the dredging industry. Also related to alternative energy carriers, we heard a presentation on the higher sensitivity of alternative fuel on large load variations which often occur during dredging.



Looking at the bigger picture, we had papers with real-life case studies including a dredging project in Monaco and the New Lock at Terneuzen. Also, of importance were the contributions on sediment management strategies, ecosystem services, and beneficial use of sediments.

All dredging activities need a proper contractual framework, and thorough production estimates, and these topics were highlighted throughout the two-day programme. Possibly less technical, but still very interesting and entertaining, was the excellent and well-prepared interactive session on the 'Social licence'.

All-in-all, Dredging Days 2019 was a very interesting, entertaining and varied event. I would like to thank everyone, and especially the sponsors, who attended and engaged to make this event a success. We would not be able to do it without you.

Sadly, Dredging Days 2019 is now behind us, but the Technical Committee are already looking forward to seeing you at the next CEDA Dredging Days!

CEDA Dredging Days 2019 Moments in Pictures



WODCON XXII

22-26 April 2019, Shanghai International Conference Center, China

The 22nd World Dredging Congress & Exposition (WODCON XXII) was held in Shanghai, China from 22nd-26th April 2019. It was the turn of the Eastern Dredging Association (EDA) to organise the triennial event. The Chinese Dredging Association, CHIDA, organised it on EADA's behalf, on the theme 'Enhance the Harmony between Dredging and Ecology'. The CEDA Papers Committee supported the event by selecting and reviewing 28 papers, from the CEDA region, for presentation.



Members of CHIDA and CEDA at the WODCON XXII closing ceremony. CEDA will take on the organisational baton for the next event in Denmark, in May 2022.

WODCON XXIII

16-20 May 2022, the Tivoli Congress Centre, Copenhagen, Denmark

WODCON XXIII, in 2022, may seem like a long way away but work has already started on the event which will be organised by CEDA. At the close of the successful WODCON XXII, in Shanghai, we were honoured to be able to invite the dredging world to join us in Copenhagen, in 2022, for the next event in the series.

WODCON XXIII will take place from 16th-20th May 2022, at the Tivoli Congress Centre, Copenhagen, Denmark, and the theme will be 'Dredging is changing'.



Johan Pennekamp, Chairman of the WODCON XXIII Organising Committee invites the dredging world to Copenhagen at the close of WODCON XII in Shanghai.

Support WODCON XXIII

CEDA is delighted to announce that Rohde Nielsen has already signed up as our first sponsor to the congress. We invite members of the worldwide dredging community to demonstrate their support to the single most important event where our professional community meets.

Stay informed

CEDA members, and those professionals who have subscribed for the CEDA Conference News, will automatically receive WODCON XXIII updates.

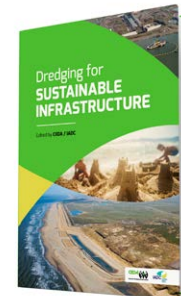


PUBLICATIONS

Researchers and practitioners worldwide rely on our publications as a valued source of dredging knowledge.

Dredging for Sustainable Infrastructure

In 2018, CEDA published *Dredging for Sustainable Infrastructure* in collaboration with the IADC. The book gives state-of-the-art guidance on how to design, implement and manage, a water infrastructure project, with a dredging component in order to maximise the three pillars of sustainability – social, economic and environmental value. The published insights result from a wealth of knowledge pooled by a team of scientists and expert practitioners. The work was moderated by an editorial board made up of CEDA and IADC representatives and chaired by Polite Laboyrie.



A wealth of knowledge and useful guidance with plenty of examples to learn from.

Since the publication of *Dredging for Sustainable Infrastructure*, our members have helped us present it on various forums, all over the world, including the London and OSPAR Conventions. To ensure that members of key regulatory bodies were made aware of the book, and would reference it when it came to sustainable water infrastructure, we gave free electronic copies to interested regulators.

Mark Lee, member of the CEDA-IADC editorial board, gave a presentation at the IMO London Convention Scientific Group meeting on monitoring. He said, “Dredging and projects involving dredging can, and do, deliver both positive and



negative impacts to the marine environment. Monitoring is fundamental to measuring impacts but, equally importantly, to managing dredging projects so that impacts are consistent with the project planning and licencing. High-quality monitoring is therefore essential for dredging to play its part in sustainable infrastructure development”.

CEDA Working Group Papers

CEDA information, guidance and position papers are the direct result of the work produced by our working groups, which are set up to perform specific tasks. Their broadly diverse backgrounds and range of expertise, as well as CEDA’s quality control, ensure a comprehensive, high-quality and objective, treatment of each subject.

Our working groups bring together a wealth of up-to-date specialist knowledge and the experience of top international experts. The groups have a definite lifetime and normally complete their work within a year.

Works Published

Beneficial Use of Sediment

The Working Group on Beneficial Use of Sediment (WGBU. For the membership list see page 36) published the following papers and an online resource of 38 case studies:

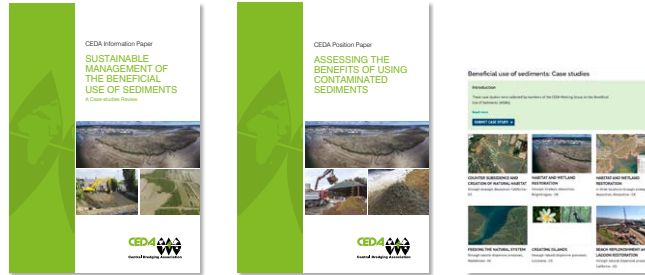
- *Sustainable Management of the Beneficial Use of Sediments*: An information paper
- *Assessing the Benefits of Using Contaminated Sediments*: A position paper
- *Beneficial Use of Sediments*: case studies (online only)



Working Group on Beneficial Use of Sediment during their meeting in Rotterdam.

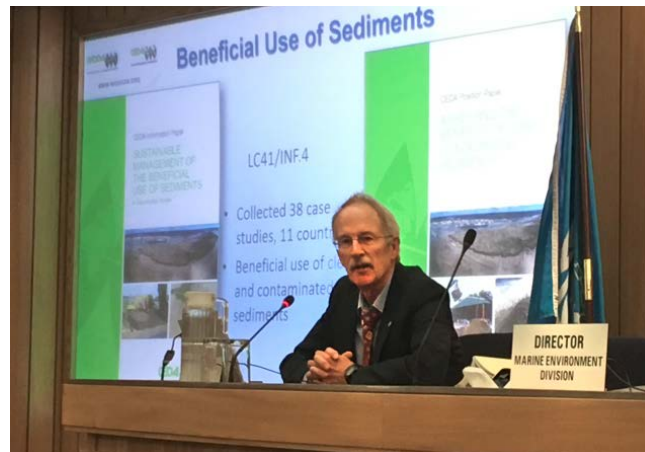
The papers inform sediment stakeholders and practitioners about the most recent advances in the beneficial use of sediments. The information paper demonstrates that beneficial use applications exist for clean sediments as well as those contaminated with low-level pollutants. The associated position paper addresses the perceived challenges by focusing on the risk management, and beneficial use opportunities, when dealing with sediments with various degrees of contamination.

Both papers, and accompanying case studies, cover ongoing international initiatives and programmes, and best management practices, in the field, and discuss the value of sediments as a natural resource in the context of sustainable development. They also aim to inspire international



government agencies and policy makers, contractors, project advocates and international donors (such as the World Bank), to encourage the implementation of sustainable sediment management strategies.

The papers have been presented, at a variety of platforms, by members of the Working Group.

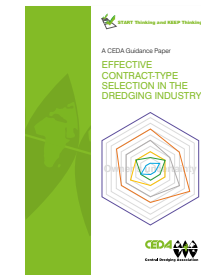


Craig Vogt, Chairman of the WEDA Environment Commission, introduces the papers for us at the meeting of the IMO London Convention.

These papers and website have been produced under the umbrella of the CEDA Environment Commission.

Effective Contract-Type Selection in the Dredging Industry

The Working Group on Effective Contract-Type Selection (WGECS. For the membership list see page 36) was established by the CEDA Dredging Management Commission (DMC) to complement the work started in the well-received *Checklist for Successful Dredging Management*. They published the associated guidance paper, *Effective Contract-Type Selection in the Dredging Industry*, in 2019.



The 'Contract-Type Selection' paper is the first 'plug in' document for CEDA's Checklist. DMC is planning several more documents.

The paper provides an accessible guide to the general procurement path. It includes the overall process, important points of consideration, and guidance on various factors influenced by certain standard contract types. It also provides an in-depth analytical method for objectively measuring a user's specific project, and related requirements and constraints, and

for comparison against standardised contract types. It gives users a more scientific, auditable and demonstrable basis for contract selection.



Working Group on Effective Contract-Type Selection.

The two documents form a set of tailored guidance papers that can be used by organisations involved in the practical and contractual delivery of dredging projects worldwide. This paper has been produced under the umbrella of the CEDA Dredging Management Commission.

Works in Progress

Structured Information on Energy Efficiency in Dredging

Energy plays a role throughout the lifecycle of dredging projects, and decisions made early in the project initiation phase can have huge impacts on later energy consumption. Also, legislation, relating to emissions and sustainability, is becoming stricter. With that in mind, CEDA Environment Commission



(CEC) set up the Working Group on Energy Efficiency (WGEE. For the membership see page 36) to prepare a CEDA information paper, on the topic, with a focus on sustainability.

Paul Vercaijse (DEME, Belgium) gives an update about the group's work at CEDA Dredging Days 2019.

This paper is being produced under the umbrella of the CEDA Environment Commission.



Working Towards a Better Understanding of Seafloor Integrity

The Working Group on Seafloor Integrity (WGSi. For the membership list see page 37) is currently working on a paper which aims to raise industry awareness of seafloor integrity, provide the dredging community with a better understanding of the topic, and promote best practice in relation to the Marine Strategy Framework Directive (MSFD). The paper will clearly explain concepts and include essential information and case studies to illustrate good practice. It will aim to cover what is meant by seafloor integrity, clarify the underlying



Working Group on Seafloor Integrity.

This paper is being produced under the umbrella of the CEDA Environment Commission.



science and why it is important, and consider the impact of some dredging activities. It will also consider the time and spatial scales in relation to dredging projects under the MSFD. The working group will report back on progress in 2020.

Guidelines for Assessing and Evaluating Environmental Turbidity Limits

Turbidity limits are encountered by the dredging industry all over the world and are optimised to protect the local environment. The Working Group on Guidelines for Assessing and Evaluating Environmental Turbidity Limits (WGETL. For the membership list see page 36) was set up by the CEDA Environmental Commission to draft the guidance paper for the industry. The main aim of the paper is to facilitate knowledge exchange on the topic, along with an assessment of which parameters should be included in the evaluation at a local level. It also aims to encourage contractors and consultants to challenge existing limits which are not site-specific and/or scientifically based. The working group will report on progress in 2020. This paper is being produced under the umbrella of the CEDA Environment Commission.



Working Group on Guidelines for Assessing and Evaluating Environmental Turbidity Limits.

HIGHLIGHTS FROM THE COMMISSIONS

CEDA currently has five commissions, plus Young CEDA, which report to the CEDA Board.

- **Communications Commission**
- **Educational Activities Commission**
- **Environment Commission**
- **Dredging Management Commission**
- **Strategy Commission**

The following are selected highlights from some of the commissions.

Dredging Management Commission (DMC)

The Dredging Management Commission (DMC) continues to provide a forum for initiating and facilitating discussions, innovations and questions, on the management of dredging works in the broadest sense. For the list of volunteers who run DMC see page 33.



Koos van der Geer
Chair

Meetings

DMC is pleased to report that 2018 and 2019 were two very active years, with contributions from our enthusiastic committee members. During the period, there were regular DMC meetings, at which the work of the commission and its working groups were discussed. Meetings were organised and hosted by:

- Van Oord office in Rotterdam, the Netherlands
- Damen office in Nijkerk, the Netherlands
- Fehmarnbelt Tunnel Consortium office in Copenhagen, Denmark
- Maritime Institute in Gdansk, Poland
- IHC in Krimpen aan den IJssel, the Netherlands
- Egis Ports in Monaco

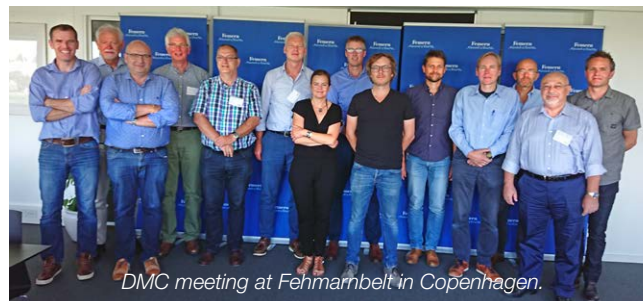
We organised a successful mini-symposium, in Gdansk, in collaboration with the CEDA Environment Commission and parties from the region. During the period there was also a number of shipyard visits (Damen and IHC) and project excursions (Oresund Bridge and Tunnel, and Monaco Offshore Urban Expansion) and we are grateful to our hosts for organising such interesting site visits for the commission members.

A very successful Workshop on Dredging Technology was held in Delft, in November 2018, which discussed the challenges around dredging projects. Based on a number of presentations and project cases, it discussed how technology and requirement management are interfacing, and how the cooperation and coordination, between the various parties around the preparation and management of dredging projects can be improved.

Publications

In 2019, under the DMC umbrella, the Working Group on Effective Contract-Type Selection (WGECS) published the guidance paper *Effective Contract-Type Selection in the Dredging Industry*. See page 19-21 for more details of the papers published in 2018/19 and those in the pipeline for 2020.

Koos van der Geer
Chair, Dredging Management Commission



DMC meeting at Fehmarnbelt in Copenhagen.

Environment Commission (CEC)

CEDA Environment Commission (CEC) continues to develop and implement CEDA's environmental policy and represents the Association at meetings of international conventions and forums. For the list of volunteers who run CEC see page 34.



Frederik Roose
Chair

A number of CEDA Position Papers and Information Papers have also been produced under the remit of the CEC working groups. The following working groups have all been active under the CEC umbrella in the last two years:

- Working Group on Beneficial Use of Sediment (WGBU)
- Working Group on Assessing Environmental Turbidity Limits (WGETL)
- Working Group on Seafloor Integrity (WGSi)
- Working Group on Energy Efficiency (WGEE)

Read about the products and progress of these working groups in the Publications section of this report (see pages 19-21)

CEC has two meetings each year. In 2018, the spring meeting was held in Wallingford, UK (hosted by HR Wallingford) and the autumn meeting was held in Gdansk, Poland (hosted by the Gdansk Marine Institute). The autumn meeting was combined with a Symposium on Advances in Dredging Technology and a site visit to the Port of Gdansk, with participation from both the CEDA Dredging Management Commission and the CEDA Environment Commission.



CEC at HR Wallingford, UK.

In 2019, the spring meeting was held in Livorno, Italy (hosted by ISPRA) and the autumn meeting was held in Paris, France (hosted by Cerema). During the spring meeting CEDA participated in a workshop on the assessment of physical effects related to sediment handling, in marine and coastal areas, which was organised by the Interreg Italy-France project 'Sedriport'. During the autumn meeting we had the opportunity to meet with GEODE, the French Working Group on Investigation and Observation of Dredged Material and the Environment.

Commission members in Livorno, Italy, with the seminar participants.



In 2018 and 2019, we welcomed four new members: Stefanie Ross (Boskalis – the Netherlands, succeeding Astrid Kramer), Jemma Lonsdale (Cefas – UK, replacing Andy Birchenough), Boudewijn Decrop (IMDC – Belgium, replacing Mark Bollen) and Pierre-Yves Belan (Cerema – France, replacing Joel l'Her). CEC is grateful for their contributions and extends a warm welcome to its new members.

Environmental policy work

A key task of CEC is to develop and implement the environmental policy of CEDA and represents CEDA at meetings of international conventions and other regulatory forums, such as the London Convention and Protocol (LC/LP) and the Oslo and Paris Convention (OSPAR).

In March 2019, we were pleased to jointly host an interactive session, with IADC, PIANC and the Global Infrastructure Institute, at the UN Science Policy Business Forum in Nairobi. The session, on sustainable water infrastructure development, led to policy recommendations which were fed back to the UN Environment Assembly. We are delighted to see that the Assembly has adopted a resolution on sustainable infrastructure.

Our panel at the UN Science Policy Business Forum in Nairobi.



Our participation in the Nairobi Forum has also laid the foundation for possible future co-operation with UN Environment Assembly and other bodies. There is also potential for promoting the DfSI approach and methodology, as well as highlighting examples of best practice in sustainable dredging, to a global audience at a high level.

A number of Directives of the European Commission are relevant for dredging and related activities, including the management of dredged sediments. CEDA is involved as stakeholder in the implementation process of the Marine Strategy Framework Directive (MSFD) and is chairing the MSFD NAVI group, which is a stakeholder group providing input to the EU on this legislative process.

After representing CEDA and chairing the MSFD NAVI for 3 years, Chantal Martens left the MSFD NAVI due to a job change. CEC would like to thank Chantal for the good work that she has delivered. Chantal is succeeded by Katrine Cronin (Deltares, NL).

We also want to thank all our members who represent CEDA on various international platforms on a voluntary basis. It helps us to make sure that the vast amount of dredging knowledge and experience within our community is shared and used in policy-making. See the adjacent panel for a list of our current representatives.

Frederik Roose,
Chair, Environment Commission



Pieter de Boer

Ministry of Infrastructure and Environment, The Netherlands

- ◆ EU WASTE DIRECTIVE



Vera Breitung

German Federal Institute of Hydrology, Germany

- ◆ INTERNATIONAL COMMISSION FOR THE PROTECTION OF THE RIVER DANUBE



Katherine Cronin

Deltares, The Netherlands

- ◆ EU MARINE STRATEGY DIRECTIVE NAVI (CHAIR)
- ◆ EU MARINE STRATEGY DIRECTIVE STRATEGIC CO-ORDINATION GROUP
- ◆ EU MARINE STRATEGY DIRECTIVE WORKING GROUP ON PROGRAMME OF MEASURES, ECONOMIC AND SOCIAL ANALYSIS (POMESA)



Dafydd Lloyd Jones

Marine Space, UK

- ◆ EU MARINE STRATEGY DIRECTIVE WG WES
- ◆ EU MARINE STRATEGY DIRECTIVE NAVI



Jemma Lonsdale

Cefas, UK

- ◆ LONDON CONVENTION
- ◆ OSPAR

CEDA Representatives at International Forums



Tom Matthewson

HR Wallingford, UK

- ◆ OSPAR INTERSESSIONAL CORRESPONDENCE GROUP DEEP SEA MINING



Ivana Prusina

Witteveen+Bos, The Netherlands

- ◆ OSPAR
- ◆ OSPAR INTERSESSIONAL CORRESPONDENCE GROUP MARINE STRATEGY DIRECTIVE



Heinrich Roeper

Hamburg Port Authority, Germany

- ◆ EU WATER FRAMEWORK DIRECTIVE NAVI
- ◆ EU MARINE STRATEGY DIRECTIVE NAVI



Volker Steege

Federal Ministry of Transport and Digital Infrastructure, Germany

- ◆ EU WATER FRAMEWORK DIRECTIVE NAVI



Frank Thomson

DHI, Denmark

- ◆ EU MARINE STRATEGY DIRECTIVE, TECHNICAL SUBGROUP UNDER-WATER SOUND
- ◆ OSPAR INTERSESSIONAL CORRESPONDENCE GROUP NOISE

Strategy Commission (CSC)

The primary focus of the commission for the last 2 years was on evaluating CEDA's business model. We have succeeded in being more active with new commissions and more active members. However, this has required more effort from Anna Csiti and Yvonne Duivenman, in the already stretched CEDA Secretariat. In addition, the positive balance of the CEDA Dredging Days is reducing, which has increased the financial challenge of generating the necessary income to maintain all our activities. For the list of volunteers who run CSC see page 34.



Wim Klomp
Chair



CSC regularly meets at the Tideway offices, in Breda.

With that in mind, the following actions have been implemented, during the period, in an attempt to attract more corporate members and balance income against expenditure. CEDA has been working to:

- improve communication by newsletter to corporate and individual members. In this activity, Anna, and the Communication Commission, has been supported by Deborah Rowe;
- approach companies to become corporate members in the Netherlands (ongoing) and UK (planned). Letters of recommendation, from CEOs of corporate members, have been drafted and lists of potential companies drawn up;
- analyse CEDA's membership drivers, benefits and offers;
- a critically review the 2019 budget. We may, for instance, decide to produce an annual report every two years; and
- evaluate the set-up of the Dredging Days (ongoing).

We are also discussing a potential restructuring of CEDA. We are keen to thoroughly review our costs (especially third-party expenses), while ensuring that we continue to look beyond our own organisation.

CEDA operates in a highly competitive environment. The sheer number of commercial conference organisers, offering dredging events, is increasing and we believe that to be one of the reasons for the reduced attendance at Dredging Days. Although we are not afraid of the competition, sadly many of these events have been of a lower quality than our members have come to expect. With this in mind, we are evaluating the



Dredging Days to ensure it improves on the technical quality and organisational standards, to become a stronger event that serves the needs of the dredging industry. Finally, the working group, set up by the Strategy Commission, to organise a web-based research portal has begun its work. The portal will facilitate collaborations between problem owners, problem solvers and potential project partners. The working group will be supported by the Educational Activities Committee and is still in search of more active participants.

Wim Klomp,
Chair, Strategy Commission

Young CEDA Commission

Young CEDA is pleased to report on another successful two years spent engaging students and supporting young professionals in our industry. Commission members have met many students and young professionals during our events and national section club evenings. We have been active on social media and currently have around 500 members in the Young CEDA LinkedIn group.



Peter de Looze
Outgoing Chair

Young CEDA events

We organised a number of events during the period, including a seminar in London which gave attendees a flavour of what it was like to work in the industry. They heard from five enthusiastic speakers, from leading organisations, who talked about their experiences and the opportunities available in the sector.



Visiting the locks in IJmuiden, the Netherlands.

Visit to IJmuiden Locks: On 29th March 2018, we had a joint excursion, with Young PIANC, to the locks of IJmuiden for 100 students and young professionals. During a boat trip to the project site they heard from several people who are involved in the project. After the boat trip, there were presentations on the tender procedure, the technical details of the lock doors, and the dredging and reclamation works of this project, from Rijkswaterstaat, IV-Infra and Boskalis & Van Oord. The event ended with networking over dinner.

Visit to 2 working dredgers: On 12th April 2018, Young CEDA Belgian sections organised a visit to two Jan de Nul dredgers for 50 students and young professionals. TSHD Taccola and CSD Fernão de Magalhães were jointly berthed along a quay wall in the Port of Ghent in preparation for their next projects.



Young CEDA in Ghent, Belgium.

The visits included an extensive tour of each vessel, led by crew members, and an academic session highlighting the fundamental skills of dredging. The day finished in the bar of the Fernão, where everyone enjoyed drinks and the chance to talk to Joost De Ridder, captain of the vessel, and other staff members. The amount of interesting questions, from the group, on working abroad and engineering skills requirements, illustrated the high level of enthusiasm to join the dredging community.

Dredging and Disposal of Contaminated Sediment:

On 9th October 2018 we had an excellent turn out for our half-day seminar, in London, on contaminated dredge material, with over 50 people attending the event. Four speakers spoke on a range of topics, from varying perspectives, covering best practice, legislation and the challenges and solutions in relation to various projects. The event was chaired by Jeremy Littlejohn from Boskalis Westminster. The lively Q&A sessions included discussions on the impact regulators have, and how specific methodologies can be used to minimise the environmental harm caused by contaminated dredging. The day ended with drinks, kindly sponsored by CEDA-UK, which provided an informal atmosphere for further discussion and making new acquaintances.

Visit to Royal IHC: On 16th November, 35 students and young professionals from the dredging industry visited Royal IHC in Kinderdijk and became shipyard managers for the day!

After an introduction to Royal IHC, by Jort van Wijk (Manager R&D dredging technology), the group took a look around the shipyard to get a taste of shipbuilding. This set the scene for the real event... stepping into the role of shipyard CEO and

competing in the IHC Ships game for the title of 'best shipyard manager'! After one and a half hours of competition, the best shipyard manager was celebrated with drinks and a real Lego IHC Beaver!



At Royal IHC.

CEDA Dredging Days 2019 Pitch Talks:

Traditionally, Young CEDA hosts one hour of the CEDA Dredging Days 2019 programme. We gave 8 young professionals and students the chance to pitch their work without having to submit a paper. The presentations were given in PechaKucha style, a fast-paced format where the presenter showed 20 slides for 20 seconds each. The format was a nice break, from the longer presentations that make up the rest of the program, and was well received by both the audience and the presenters. It allowed for a diverse set of topics, ranging from academic to light-hearted, and from project-related to the presentation of new equipment. It was a nice way to give airtime to young talent and introduce them to the dredging industry at large.

General organisation

Young CEDA remained well-staffed during 2018 and 2019, with representatives from the Netherlands, Belgium, Germany, Denmark, France and the United Kingdom. Commission representatives took part in several other CEDA commissions notably, the Education Activities Commission, the Strategy Commission and national section club evenings. For the list of volunteers who run Young CEDA see page 34.

Handing over the reins

After three years, full of good memories, it's definitely time to hand over the reins and let someone new build on Young CEDA's achievements. I look forward to seeing how my successor, Mark Petri of Royal IHC will shape Young CEDA as it prepares our young professionals for the coming decade. I wish Mark lots of success and fun in leading Young CEDA.

Peter de Looze
Outgoing Chair, Young CEDA





FINANCES

Expenditures	2019	2018	Income	2019	2018
	k€	k€		k€	k€
Office and governance	35.5	38.6	Membership fees		
Staff	129.1	139.5	Individual members	27.4	26.3
			Corporate Members	204.1	205.9
			Incidental income	0.9	0.4
Environment Commission	2.6	2.9			
Dredging Management Commission	0.6	1.4			
Young CEDA	0	1.8			
Services and DPC subscription	18.4	28.9			
National Sections					
- African Section	1.5	2.3			
- Belgian Section	8.8	12.6			
- British Section	5.2	4.5			
- Netherlands Section	12.3	13.2			
Communications	7.8	14.5			
Provisions		0.0			
Total	221.8	260.2	Total	232.4	232.6

	2019	2018
Result	10.6	-27.6
Reserves	342.9	332.3

Figures

Individual CEDA members end 2019	349
Corporate CEDA end 2019	104
National section meetings over two years	29

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 2017, the Board of Directors is made up of 17 members from 7 countries. For the full list of Board members see page 33.



The spring meeting of the CEDA Board in 2019 was hosted by Vuyk Engineering, in their offices in Rotterdam, the Netherlands.

CEDA Annual General Meeting

The Annual General Meeting (AGM) in 2018 took place on 20 November at Beurs van Berlage, Amsterdam, the Netherlands, following the conclusion of the 'Dredging for Sustainable Infrastructure' conference. In 2019, the AGM took place on 7 November at Ahoy Rotterdam, the Netherlands. It followed the first day of the CEDA Dredging Days.

CEDA Secretariat

The day-to-day management of CEDA is carried out by a permanent secretariat based in Delft, the Netherlands. In 2018 and 2019, CEDA employed two staff members with 1.63 full-time equivalents: Anna Csiti, general manager and Yvonne



Anna Csiti
General Manager



Yvonne Duivenman
Secretary



Paula Scheenloop
Student

Duivenman, administrative assistant. Paula Scheenloop student at the Delft University of Technology, supported the Secretariat on a part-time basis.

The main areas of work for the secretariat include (but are not limited to):

- Planning, managing, executing and 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

In addition to the central CEDA Secretariat, every national section organises its own national secretariat.

OBJECTIVES FOR 2020-2021

Our programme of activities within the commissions, Young CEDA and the national sections, and our work with the International Conventions and groups within the European Commission, are very important to the work that we do. We look forward to taking those activities to the next level in the coming two years.

Here are just some of the initiatives that we are developing and working on:

- We will issue at least 4 information and/or guidance papers. These will be by our working groups on setting turbidity limits, energy efficiency of dredging projects, seafloor integrity and soil investigations.
- Together with IADC, we will develop and present two-day courses on *Dredging for Sustainable Infrastructure* based on the book with the same title, and specialist courses on topics such as modelling and monitoring turbidity.
- Convinced of the unique value of our joint book, *Dredging for Sustainable Infrastructure*, we are working on getting organisations, such as the World Bank and OECD, to add it to their recommended lists of books and relevant knowledge sources.
- We will continue our dialogue with the financial community to improve the investment viability of sustainable marine and freshwater infrastructure projects.

- We will provide you, as CEDA members, with a new regular source of dredging news. Sadly, as we go to press, with the Annual Report, we have to say goodbye to IHS DPC, which has been CEDA's official magazine for 42 years.
- We will organise CEDA Dredging Days, our flagship conference, in a renewed format in 2021.
- In the coming years, a lot of work will go into making sure the worldwide dredging community is treated to an unforgettable WODCON XXIII.

During WODCON XXII in Shanghai, the WODA Board decided that the three sister associations in WODA will work together to produce international guidelines on topics of common interests. This work will be guided by a WODA Technical Orientation Committee, which will report to the WODA Board. We expect to make considerable progress, in the next two years, with the first report resulting from this initiative.

As you may have read in the Strategy Commission report, we have already been busy re-shaping the association's business model. We want to ensure that we generate the necessary income to maintain and improve all our activities. By the time we finish this work, we will have a more robust and sustainable association, which can serve the growing professional needs of our members for many more years to come.



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 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 2018-2019 the staffing of CEDA's voluntary-based units was as follows:

Standing bodies

Board of Directors

Elected members

Miloud Abudib, Drapor Marocco (*Chair African Section*)

Michael Costaras, Jan de Nul, UK

Dirk Defloor, Dredging International (*DEME*), Belgium

Kathleen De Wit, IMDC, Belgium

Claudia Flecken, Hamburg Port Authority, Germany

Andre Kik, Royal IHC, the Netherlands

Wim Klomp, Royal HaskoningDHV, the Netherlands (*Chair Strategy Commission*)

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

Mark Lee, HR Wallingford, UK

Johan Pennekamp, Deltares, the Netherlands (*Vice-President, Chair CEDA-Netherlands Executive Committee*)

Cees van Rhee, Delft University of Technology, the Netherlands (*Secretary/Treasurer, Chair Educational Activities Commission*)

Daan Rijks, Royal Boskalis Westminster, the Netherlands

Will Shields, NewWaves Solutions, UK (*Chair Communications Commission*)

Jos Smits, IMDC, Belgium

Jan Vandenbroeck, S.D.I. (*DEME*), France

Ex officio members

Peter de Looze, Monitrax, the Netherlands (*Chair Young CEDA*)

Frederik Roose, Ministry of the Flemish Community, Belgium (*Chair Environment Commission, CEC*)

General Manager

Anna Csiti, CEDA Secretariat, the Netherlands

Alternates to Board Members

Thibault van Craen, S.D.I. (*DEME*), France

Helmut Meyer, Federal Waterways and Shipping Administration, Germany

Dirk Roukema, Blue Pelikan, the Netherlands

Martin van Ommen, Royal IHC, the Netherlands

Dredging Management Commission

Johny Van Acker, Dredging International (*DEME*), Belgium

Anna Csiti, CEDA Secretariat, the Netherlands

Edward De Broe, Port of Antwerp, Belgium

Kathleen De Wit, IMDC, Belgium

Murat Ege, AECOM, Qatar

Koos van der Geer, Van Oord Dredging & Marine Contractors, the Netherlands (*Chair*)

Andre van Hassent, Port of Rotterdam, the Netherlands

Claus Iversen, Femernbelt, Denmark

Rienk Hessels, Rohde Nielsen, Denmark

Camille Kapela, Egis Ports, France (*Young CEDA representative*)

Helmut Meyer, Federal Waterways and Shipping Administration, Germany

Stan Putter, Conway Advocaten & Attorneys-at-law, the Netherlands

Hilco Timmer, Witteveen+Bos, the Netherlands

Bert Visser, Rijkswaterstaat, the Netherlands

Johan van der Vorm, Royal Boskalis Westminster, the Netherlands

Mark Winkelman, Damen Dredging, the Netherlands

Charles Wilsoncroft, HKA, UK

Retiring from the Commission in the course of 2018-2019 with special thanks for his contribution was:

Bas van Maren, Deltares, the Netherlands

Environment Commission - CEC

Leonard den Boer, Royal IHC, the Netherlands

Pieter de Boer, Ministry of Infrastructure and Water Management
Centre for Public Works, the Netherlands

Klavs Bundgaard, Sweco, Denmark

Katherine Cronin, Deltares, the Netherlands

Anna Csiti, CEDA Secretariat, the Netherlands

Boudewijn De Crop, IMDC, Belgium

Marijn Huijsmans, Witteveen+Bos, the Netherlands

Marc Huygens, Dredging International (*DEME*), Belgium

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

Jemma Lonsdale, CEFAS, UK

Tom Matthewson, HR Wallingford, UK

Grazyna Pazikowska-Sapota, Maritime Institute Gdansk, Poland

Alberto del Pino, Dravosa, Spain

Henrich Röper, Port of Hamburg, Germany

Frederik Roose, Ministry of the Flemish Community, Belgium
(*Chair*)

Stefanie Ross, Royal Boskalis Westminster, the Netherlands

Sina Saremi, DHI, Denmark

Michael Shilin, Russian State Hydrometeorological University,
Russia

Rita Silveira Ramos, Port Authority of Lisbon, Portugal

Volker Steege, Federal Waterways and Shipping Administration,
Germany

Retiring from the Commission in the course of 2018-2019 with special thanks for their contributions were:

Mark Bollen, IMDC, Belgium

Joël L'Her, CETMEF, France

Astrid Kamer, Royal Boskalis Westminster, the Netherlands

Corresponding Members

John Dobson, EADA, Australia

Valerie Penchev, Black Sea Coastal Association, Bulgaria

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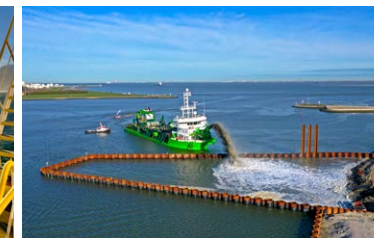
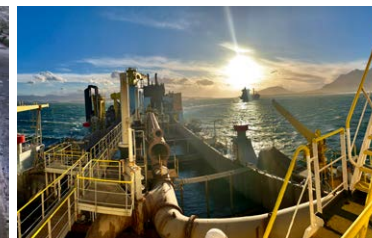
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