

PRELIMINARY PROGRAMME AND REGISTRATION

# Dredging in a Changing World

*Leading science and business in the dredging industry*

27-29 MAY 2024 | WTC ROTTERDAM | ROTTERDAM, THE NETHERLANDS

# CEDA Dredging Days 2024

C O N F E R E N C E

ORGANISED BY



PARTNERS OF CEDA DREDGING DAYS 2024



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CEDA Dredging Days is the flagship conference of CEDA and is the main event on the dredging industry calendar in the CEDA (EMEA) region. It is widely considered to be the primary forum for leading researchers and industry experts to share ideas, discuss challenges and consider potential solutions. The conference is well-attended by professionals representing the entire cross-section of the dredging field, from across the CEDA region and beyond. As such, it is also appreciated for the exceptional networking opportunities it offers.

## WHAT CAN YOU EXPECT FROM THE NEW CEDA DREDGING DAYS?

One of the main features of the revamp is the addition of the central Clubhouse, which has a strong focus on networking in an intimate setting, and serves as the central meeting place for coffee breaks, lunches and social events. The Clubhouse creates an informal networking area, with a mix of lounge furniture, where attendees can relax and enjoy a moment to engage in informal conversations with their peers at any time during the conference.

CEDA Dredging Days 2024 offers a 3-day event, dedicated to the dredging industry, with a widely varied programme – parallel sessions featuring the latest technical developments, learning from other industries, innovation pitches, panel discussions and much more – interesting for a broad audience and promoting attendee interaction.

## INTRODUCTION TO THE CONFERENCE

The world is changing. Global warming is a physical change (of climate), but also societies are changing. Sustainability is becoming a firm driver for decision makers, financiers and technological developments. Across the world, and across all generations, people become increasingly convinced that the exploitation of earth's resources must be limited and become sustainable soon. A further change is that globalisation (growing international trade and global logistic chains) is reconsidered. And geopolitics has become an important factor yet again. The challenges, but also the prospects for the industry in the years and decades ahead, will be huge. During the CEDA Dredging Days 2024 conference, the manner in which the dredging industry acts and reacts on changes will be presented in a variety of sessions, with lots of room for interaction and discussion.



Date: 27-29 May 2024




Location: Postillion Hotel & Convention Centre  
WTC Rotterdam,  
Rotterdam, The Netherlands




## SOCIAL PROGRAMME

- **Monday, 27 May 2024**  
Conference (walking) dinner,  
Clubhouse
- **Tuesday, 28 May 2024**  
Reception by invitation of the City of  
Rotterdam, City Hall

## MONDAY, MAY 27TH 2024

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
12:30 - 14:00	 Registration - Clubhouse			
14:00 - 15:30	<b>SESSION 1: Opening and Keynotes</b> Moderator: Mike Van der Vijver – MindMeeting, the Netherlands  Opening by Polite Laboyrie, CEDA President, Witteveen+Bos, the Netherlands  <i>Keynote address: Lara Muller, Director Public Sector, Invest International, the Netherlands: Money makes the world go green</i>  <i>Keynote address: Egbert van der Wal, Director Port Development, Port of Rotterdam, the Netherlands: Shaping the energy transition – an outlook on Port of Rotterdam in 2050</i>			
15:30 - 16:00	 Coffee Break - Clubhouse			
16:00 - 17:30	<b>SESSION 2: The Future of AI in Dredging</b> Chairs: Annouk Rey – Boskalis, the Netherlands and Kirsten Orsel – Royal IHC, the Netherlands  Explore the future of dredging with AI during the Young CEDA session. What are the effects of AI on the dredging sector in the near future, and what will the far future look like? Participate in interactive group sessions and contribute to shaping the future of dredging together with a panel of AI experts within and outside the dredging sector. A special appearance will be made by ChatGPT on the expert panel.			
17:30 - 17:45	<b>Handing Over the Presidency</b>  After more than 8 years of serving as CEDA president, Polite Laboyrie (Witteveen+Bos, the Netherlands) will officially hand over the presidency to Kathleen De Wit (IMDC, Belgium).			
17:45 - 20:30	 Drinks, followed by walking dinner - Clubhouse			





## TUESDAY, MAY 28TH 2024

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
08:00 - 09:00	 Morning Coffee - Clubhouse			
09:00 - 10:30	<b>SESSION 3: Sustainability Managers Debate</b>  Sustainability Managers will be invited to discuss the latest topics in relation to sustainable project development in the dredging industry. The session will be introduced by invited speakers related to the industry, whereafter the panel can reflect, with active participation from the audience.			


## TUESDAY, MAY 28TH 2024 (cont.)

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
10:30 - 11:00	☕ Coffee Break - Clubhouse			
11:00 - 12:30	<p><b>SESSION 4: Reservoir Dredging: Addressing Decades of Neglect</b></p> <p>Join us for a transformative session on the Guideline on Reservoir Dredging. Explore solutions to decades of neglect in managing reservoir sedimentation, crucial for sustainable dam systems. Discover innovative approaches from initial survey, dredging methods to material management, addressing water storage loss, hydro-power impacts, flood control, and ecosystem health. Engage in lively discussion to shape a sustainable future for global reservoirs.</p>	<p><b>SESSION 5: Coastal and Inland Flood Protection</b> Chair: Boudewijn Decrop – IMDC, Belgium</p> <ul style="list-style-type: none"> <li>Beach nourishment as protection against flood, wave overtopping, and erosion; experiences from coastal flood protection projects in Denmark from start till end <a href="#">Schlæer S</a> and <a href="#">Bundgaard K</a> – NIRAS, Denmark</li> <li>Nature Based Solutions: Coastbusters and Bankbusters proof of concept pilot projects for ecosystem based engineering <a href="#">Sterckx T</a> – DEME/Jan De Nul, Belgium; <a href="#">Huygens M</a> and <a href="#">Mascart T</a> – DEME, Belgium</li> <li>Can sandy Nature-Based Solutions protect the Flemish coast against 3m sea level rise? <a href="#">Bolle A</a>, <a href="#">Verheyen B</a> and <a href="#">Van Caster N</a> – IMDC, Belgium; <a href="#">Volckaert A</a> and <a href="#">Hauquier F</a> – Arcadis, Belgium</li> <li>Five years of Prins Hendrik Zanddijk <a href="#">Fordeyn J</a>, <a href="#">Vanwesenbeeck G</a> and <a href="#">Foré K</a> – Jan De Nul, Belgium</li> </ul>	<p><b>SESSION 6: Maintenance Dredging and Environmental Aspects of Dredging</b> Chair: Said Alhaddad – Delft University of Technology, the Netherlands</p> <ul style="list-style-type: none"> <li>Effectiveness of environmental management and mitigation measures – the Addu city reclamation case <a href="#">Fonias E</a>, <a href="#">van Eekelen E</a>, <a href="#">Shanavas AK</a> and <a href="#">van Miltenburg M</a> – Van Oord Dredging and Marine Contractors, the Netherlands</li> <li>Bridging the depths: lessons learned from deep-sea mining for advancing dredging and turbidity management in deltas <a href="#">Ali W</a>, <a href="#">Kirichek A</a>, <a href="#">Helmons R</a> and <a href="#">Chassagne C</a> – Delft University of Technology, the Netherlands</li> <li>Sediment management in a circular economy <a href="#">de Boer PD</a> – Rijkswaterstaat, the Netherlands</li> <li>Numerical assessment of turbidity currents generated by cutter suction dredgers <a href="#">Mahgoub M</a>, <a href="#">Alhaddad S</a> and <a href="#">Keetels GH</a> – Delft University of Technology, the Netherlands</li> </ul>	
12:30 - 13:30	🍴 Lunch - Clubhouse			
13:30 - 15:00	<p><b>SESSION 7: Energy Transition and Decarbonisation (I)</b> Chair: Giulia Sforzi – HR Wallingford, United Kingdom</p> <ul style="list-style-type: none"> <li>Open innovation towards zero emission dredging <a href="#">de Jong A</a>, <a href="#">van Melis T</a> and <a href="#">de Geus M</a> – ZEDhub, the Netherlands</li> <li>Looking forward to the net zero future of dredging vessels <a href="#">Vercrujse PM</a> and <a href="#">Gabriel J</a> – DEME, Belgium</li> <li>Sequential dredging and reclamation for the construction of the Princess Elisabeth island, the world's first offshore energy island <a href="#">Van Doorslaer K</a> – DEME, Belgium; <a href="#">Jacobs A</a> – Jan De Nul, Belgium; <a href="#">Guillermin P-Y</a> – Elia Asset, Belgium; <a href="#">Brouwer M</a> – Royal HaskoningDHV, the Netherlands; <a href="#">Bijl E</a> – CDR, the Netherlands; <a href="#">Somers R</a> – IMDC, Belgium</li> <li>Towards climate neutral and circular dredging; the role of clients in the transition of dredging industry <a href="#">Zondag H</a>, <a href="#">Stofbergen E</a> and <a href="#">Lauwereijnsen Ch</a> – Rijkswaterstaat, the Netherlands; <a href="#">Hupkes E</a> – Port of Rotterdam, the Netherlands</li> </ul>	<p><b>SESSION 8: Dredging Technologies and Processes</b> Chair: Rick van de Wetering – Royal IHC, the Netherlands</p> <ul style="list-style-type: none"> <li>NPSH<sub>R</sub> scaling for centrifugal pumps <a href="#">de Hoog E</a> and <a href="#">Hofstra CF</a> – Royal IHC, the Netherlands; <a href="#">in 't Veld JM</a> – IQIP, the Netherlands; <a href="#">Talmon AM</a> – Deltares, the Netherlands</li> <li>Mechanical excavation of clayey soils, a review of the physical phenomena occurring <a href="#">Winkelman MÖ</a>, <a href="#">Schott DL</a> and <a href="#">Helmons RLJ</a> – Delft University of Technology, the Netherlands</li> </ul> <p>Continued...</p>	<p><b>SESSION 9: Natural Resources and Reservoir Dredging</b> Chair: Annelies Bolle – IMDC, Belgium</p> <ul style="list-style-type: none"> <li>A dredging dilemma: screening risk to herring and sandeel <a href="#">Kyle-Henney M</a>, <a href="#">Reach I</a>, <a href="#">Barr N</a>, <a href="#">Warner I</a>, <a href="#">Lowe S</a> and <a href="#">Lloyd Jones D</a> – MarineSpace, United Kingdom</li> <li>Underwater remote mining: a new era of dredge mining for sustainable diamond extraction <a href="#">Boomsma W</a> – Royal IHC, the Netherlands</li> <li>Risk profile for reservoir dredging <a href="#">Sarkar S</a> – ABL, United Kingdom; <a href="#">Sarkar MK</a> – Excavation &amp; Equipment Manufacturing, India</li> </ul>	<p><b>MASTER CLASS: Production Estimation</b> 13:00 - 15:30</p> <p>Separate registration required</p>



## TUESDAY, MAY 28TH 2024 (cont.)

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
13:30 - 15:00		Continued...  Inline real-time process monitoring based on ultrasonic measurement and tomography <i>Maas R and Boerma M – Rhosonics Analytical, the Netherlands</i>  Behavior and erosion capacity of an inclined plunging jet <i>Keij RM and Talmon AM – Delft University of Technology, the Netherlands; Nobel AJ – Boskalis, the Netherlands</i>		
15:00 - 15:30	 Coffee Break - Clubhouse			
15:30 - 16:20	<b>SESSION 10: Safety</b> Safety is an increasingly important topic and during this session we seek to share safety culture perspectives and information, raise awareness, and facilitate collaboration between safety and operations professionals worldwide.			
16:20 - 17:00	<b>SESSION 11: In Loving Memory of prof.dr.ir. Cees van Rhee and prof.ir. Wim Vlasblom</b> By: Rudy Helmons – Delft University of Technology, the Netherlands and Johan Pennekamp – Deltares, the Netherlands			
17:00 - 17:15	Gathering Participants - Clubhouse			
17:15 - 17:30	Walk to City Hall Rotterdam			
17:30 - 19:00	 Reception - City Hall Rotterdam			

## WEDNESDAY, MAY 29TH 2024

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
08:00 - 09:00	 Morning Coffee - Clubhouse			
09:00 - 10:30	<b>SESSION 12: Decarbonisation: Chicken and Egg Dilemma</b> How to overcome the chicken and egg dilemma in decarbonisation and step into the future as first mover? What are the options and hurdles for contractors, shipbuilders, fuel suppliers, clients and their consultants and financiers? Can supply of post-fossil fuels be guaranteed, and if so what would be the effect of using these on project costs? Continued...			

## WEDNESDAY, MAY 29TH 2024 (cont.)

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
09:00 - 10:30	Continued... What are views from society on the pathway to net-zero and the related costs? Take up the role of one of the stakeholders and participate actively to embody the collective challenges and opportunities on the path of decarbonisation.			
10:30 - 11:00	 Coffee Break - Clubhouse			
11:00 - 12:30	<p><b>SESSION 13: Land Reclamation, Beneficial Use and Dredging for Civil Infrastructure</b> Chairs: Thomas Vijverberg – Boskalis, the Netherlands</p> <p> Resource based dredging for landscape-scale greening <i>Bosman G and ten Velden D – The Weather Makers, the Netherlands</i></p> <p> "Unsuitable" to "suitable", a change in the reclamation design paradigm <i>Hoffmann C and Hompes F – Van Oord Dredging and Marine Contractors, the Netherlands</i></p> <p> Circular use of harbor dredged sediment: sediment layer thickness optimisation for sustainable clay production <i>Mc Leod C and Barciela-Rial M – Applied University of Arnhem and Nijmegen, the Netherlands; van Puijenbroek M – Wageningen Marine Research, the Netherlands; van der Star W – Deltares/Ecoshape, the Netherlands</i></p> <p> On the desalination of dredged sediments for beneficial use: case studies, challenges and best practices <i>Barciela-Rial M and Mc Leod C – HAN University of Applied Sciences, the Netherlands; van der Star W – Deltares, the Netherlands</i></p>	<p><b>SESSION 14: Early Contractor Involvement</b></p> <p>Early Contractor Involvement is a contracting strategy initiated by the developer to optimize values in project delivery and objectives through parties' participation and knowledge sharing. This session will give an overview of the latest developments in ECI and then continue as an interactive session on when and how to start ECI and the forms of contract currently available and their reference projects. Both situations with and without ECI experience will be addressed.</p>		
12:30 - 13:30	 Lunch - Clubhouse			<p><b>MASTER CLASS: Hydraulic Transport</b> 12:30 - 15:00</p> <p>Separate registration required</p>
13:30 - 14:40	<p><b>SESSION 15: Energy Transition and Decarbonisation (2)</b> Chair: Martijn Kom – Boskalis, the Netherlands</p> <p> The electrical grid as enabler for decarbonization of the dredging industry <i>Oskam B, de Ronde JK, Walraven T and Ammerlaan R – Bakker Sliedrecht, the Netherlands</i></p> <p> Future fuels strategies <i>Rascioni S – Wärtsilä, Italy; Heidelberg D – Wärtsilä, the Netherlands</i></p> <p> Evaluating the potential of fuel cells for the dredging industry <i>Mestemaker BTW – Royal IHC, the Netherlands; van Biert L – Delft University of Technology, the Netherlands</i></p>	<p><b>SESSION 16: Data-Driven Technology and Adaptive Management</b> Chair: Suman Sapkota – Damen Dredging Equipment, the Netherlands</p> <p> Application of machine learning in determining design parameters of dredging vessels <i>Goeree JC and Alvarez Grima M – Royal IHC, the Netherlands</i></p> <p> Adaptive Management for environmental aspects of dredging and reclamation projects: reactive and pro-active <i>Decrop B – IMDC, Belgium; et al.</i></p>		
14:40 - 15:10	 Coffee Break - Clubhouse			



## WEDNESDAY, MAY 29TH 2024 (cont.)

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
15:10 - 16:25	<p><b>SESSION 17: Young CEDA Pitch Talks</b> Chair: Jan-Berend Koster – Dutch Dredging, the Netherlands</p> <p>Sustainable reservoir sediment management using fully automated dredges <i>Gehrmann L – Hülskens Sediments, Germany</i></p> <p>Decreasing CO2 emissions within the Dutch dredging sector <i>Nooren M – Permian Global, the Netherlands</i></p> <p>How to measure the strength of very soft clays? A building material in the making <i>Jaksic L, Konstantinou M, van Kessel T, Talmon A and Meshkati E – Deltares, the Netherlands</i></p> <p>Towards minimal environmental impact of flatfish trawling by utilizing dredging-related knowledge <i>Bult S – Delft University of Technology, the Netherlands</i></p> <p>Laboratory experiments to explore the effect of flocculation on sediment dispersion <i>Wahab S, Chassagne C and Helmons R – Delft University of Technology, the Netherlands</i></p> <p>Integrated approach for sustainable sediment-based building blocks: circular sediment management and construction practices <i>Pal D and Derksen G – Royal IHC, the Netherlands</i></p>			
16:25 - 16:35	Wrap-Up of the Conference			
16:35 - 16:45	IADC Young Pitch Talk Award			
16:45	Closing			

The CEDA Dredging Days 2024 Technical Papers Committee reserves the right to adjust the programme as appropriate.

## BOOK YOUR PLACE NOW

## Registration fees

	Early Bird by 15 March 2024	After 15 March 2024	
■ Members of CEDA, EADA and WEDA*	€ 995	€ 1145	The fees are exclusive of Dutch VAT (21%)  *All individual members and employees of corporate members of CEDA are eligible for registration at the member's rate  **Student registration is only accepted on receipt of letter of endorsement and a copy of the student card
■ Non-members	€ 1245	€ 1395	
■ Speakers	€ 795	€ 795	
■ PhD students	€ 795	€ 795	
■ Students **	€ 249	€ 249	

## IADC AWARD

The International Association of Dredging Companies' Young Pitch Talk Award will be presented to an author, under 35 years of age, for the best presentation in the Young CEDA Pitch Talks session.

## PROCEEDINGS

The proceedings, containing the conference papers and extended abstracts, will be available via CEDA's website [www.dredging.org](http://www.dredging.org).

## ROYAL IHC MASTERCLASSES

Together with CEDA corporate member Royal IHC gives you the opportunity to attend one of their complimentary dredge masterclasses organised during the Dredging Days. Expand your knowledge and gain clear insight in dredging and dredging technology. For more information and registration, please visit the programme pages on our website.





## ENQUIRIES

Sylvia Minten

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## ACCOMMODATION

A block of hotel rooms has been reserved at a special conference rate for delegates and speakers in the adjacent Postillion Hotel. Details on cost and reservation can be found on the conference website.

**Important:** reservations should be made in good time, as there will be many visitors in Rotterdam in this period of the year.

