

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	<p>SESSION 1: Opening and Keynotes Moderator: Mike Van der Vijver – MindMeeting, the Netherlands</p> <p>Opening by Polite Laboyrie, CEDA President, Witteveen+Bos, the Netherlands</p> <p><i>Keynote address: Lara Muller, Director Public Sector, Invest International, the Netherlands: Money makes the world go green</i></p> <p><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></p>			
15:30 - 16:00	Coffee Break - Clubhouse			
16:00 - 17:30	<p>SESSION 2: The Future of AI in Dredging Chairs: Annouk Rey – Boskalis, the Netherlands and Kirsten Orsel – Royal IHC, the Netherlands</p> <p>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.</p>			
17:30 - 17:45	Handing over Presidency			
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	<p>SESSION 3: Sustainability Managers Debate</p> <p>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.</p>			



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>SESSION 4: Reservoir Dredging: Addressing Decades of Neglect</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>SESSION 5: Coastal and Inland Flood Protection Chair: Boudewijn Decrop – IMDC, Belgium</p> <p> Beach nourishment as protection against flood, wave overtopping, and erosion; experiences from coastal flood protection projects in Denmark from start till end Schlæer S and Bundgaard K – NIRAS, Denmark</p> <p> Nature Based Solutions: Coastbusters and Bankbusters proof of concept pilot projects for ecosystem based engineering Sterckx T – DEME/Jan De Nul, Belgium; Huygens M and Mascart T – DEME, Belgium</p> <p> Can sandy Nature-Based Solutions protect the Flemish coast against 3m sea level rise? Bolle A, Verheyen B and Van Caster N – IMDC, Belgium; Volckaert A and Hauquier F – Arcadis, Belgium</p> <p> Five years of Prins Hendrik Zanddijk Fordeyn J, Vanwesenbeeck G and Foré K – Jan De Nul, Belgium</p>	<p>SESSION 6: Maintenance Dredging and Environmental Aspects of Dredging Chair: Said Alhaddad – Delft University of Technology, the Netherlands</p> <p> Effectiveness of environmental management and mitigation measures – the Addu city reclamation case Fonias E, van Eekelen E, Shanavas AK and van Miltenburg M – Van Oord Dredging and Marine Contractors, the Netherlands</p> <p> Bridging the depths: lessons learned from deep-sea mining for advancing dredging and turbidity management in deltas Ali W, Kirichek A, Helmons R and Chassagne C – Delft University of Technology, the Netherlands</p> <p> Sediment management in a circular economy de Boer PD – Rijkswaterstaat, the Netherlands</p> <p> Numerical assessment of turbidity currents generated by cutter suction dredgers Mahgoub M, Alhaddad S and Keetels GH – Delft University of Technology, the Netherlands</p>	
12:30 - 13:30	 Lunch - Clubhouse			
13:30 - 15:00	<p>SESSION 7: Energy Transition and Decarbonisation (I) Chair: Giulia Sforzi – HR Wallingford, United Kingdom</p> <p> Open innovation towards zero emission dredging de Jong A, van Melis T and de Geus M – ZEDhub, the Netherlands</p> <p> Looking forward to the net zero future of dredging vessels Vercruijse PM and Gabriel J – DEME, Belgium</p> <p> Sequential dredging and reclamation for the construction of the Princess Elisabeth island, the world's first offshore energy island Van Doorslaer K – DEME, Belgium; Jacobs A – Jan De Nul, Belgium; Guillermin P-Y – Elia Asset, Belgium; Brouwer M – Royal HaskoningDHV, the Netherlands; Bijl E – CDR, the Netherlands</p> <p> Towards climate neutral and circular dredging; the role of clients in the transition of dredging industry Zondag H, Stofbergen E and Lauwereijnsen Ch – Rijkswaterstaat, the Netherlands; Hupkes E – Port of Rotterdam, the Netherlands</p>	<p>SESSION 8: Dredging Technologies and Processes Chair: Rick van de Wetering – Royal IHC, the Netherlands</p> <p> NPSH_R scaling for centrifugal pumps de Hoog E and Hofstra CF – Royal IHC, the Netherlands; in 't Veld JM – IQIP, the Netherlands; Talmon AM – Deltares, the Netherlands</p> <p> Mechanical excavation of clayey soils, a review of the physical phenomena occurring Winkelman MÖ, Schott DL and Helmons RLJ – Delft University of Technology, the Netherlands</p> <p>Continued...</p>	<p>SESSION 9: Natural Resources and Reservoir Dredging Chair: Annelies Bolle – IMDC, Belgium</p> <p> A dredging dilemma: screening risk to herring and sandeel Kyle-Henney M, Reach I, Barr N, Warner I, Lowe S and Lloyd Jones D – MarineSpace, United Kingdom</p> <p> Underwater remote mining: a new era of dredge mining for sustainable diamond extraction Boomsma W – Royal IHC, the Netherlands</p> <p> Risk profile for reservoir dredging Sarkar S – ABL, United Kingdom; Sarkar MK – Excavation & Equipment Manufacturing, India</p>	<p>MASTER CLASS: Production Estimation 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 - 16:45	SESSION 10: Safety 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.			
16:45 - 17:00	Wrap-Up of the Day			
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	SESSION 11: Decarbonisation: Chicken and Egg Dilemma 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? 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			

WEDNESDAY, MAY 29TH 2024 (cont.)

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
11:00 - 12:30	<p>SESSION 12: Land Reclamation, Beneficial Use and Dredging for Civil Infrastructure Chairs: Thomas Vijverberg – Boskalis, the Netherlands</p> <ul style="list-style-type: none"> Resource based dredging for landscape-scale greening <i>Bosman G and ten Velden D – The Weather Makers, the Netherlands</i> "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> 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> 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>SESSION 13: Early Contractor Involvement 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>	<p>SESSION 14: Data-Driven Technology and Adaptive Management Chair: Suman Sapkota – Damen Dredging Equipment, the Netherlands</p> <ul style="list-style-type: none"> Application of machine learning in determining design parameters of dredging vessels <i>Goeree JC and Alvarez Grima M – Royal IHC, the Netherlands</i> Adaptive Management for environmental aspects of dredging and reclamation projects: reactive and pro-active <i>Decrop B – IMDC, Belgium; et al.</i> 	
12:30 - 13:30	<p> Lunch - Clubhouse</p>			<p>MASTER CLASS: Hydraulic Transport 12:30 - 15:00</p> <p>Separate registration required</p>
13:30 - 14:40	<p>SESSION 15: Energy Transition and Decarbonisation (2) Chair: Martijn Kom – Boskalis, the Netherlands</p> <ul style="list-style-type: none"> 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> Future fuels strategies <i>Rascioni S – Wärtsilä, Italy; Heidelberg D – Wärtsilä, the Netherlands</i> 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>SESSION 16: In Loving Memory of prof.dr.ir. Cees van Rhee and prof.ir. Wim Vlasblom By: Rudy Helmons – Delft University of Technology, the Netherlands and Johan Pennekamp – Deltares, the Netherlands</p>		
14:40 - 15:10	<p> Coffee Break - Clubhouse</p>			
15:10 - 16:25	<p>SESSION 17: Young CEDA Pitch Talks 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>Continued...</p>			

WEDNESDAY, MAY 29TH 2024 (cont.)

TIME	ROTTERDAM HALL	MEES ROOM I	MEES ROOM II	PENN ROOM I
15:10 - 16:25	Continued... Decreasing CO2 emissions within the Dutch dredging sector <i>Nooren M – Permian Global, the Netherlands</i> 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> Towards minimal environmental impact of flatfish trawling by utilizing dredging-related knowledge <i>Bult S – Delft University of Technology, the Netherlands</i> 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> Scaling up deep sea exploration & monitoring with pink robots <i>Rutten S – Lobster Robotics, the Netherlands</i> 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>			
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	The fees are exclusive of Dutch VAT (21%)
■ Members of CEDA, EADA and WEDA*	€ 995	€ 1145	*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.

ROYAL IHC MASTERCLASSES

Together with CEDA corporate member Royal IHC gives you the opportunity to attend one of their 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

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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.

