

SUNDAY 28 APRIL 2024

18h00 - 21h00

WELCOME RECEPTION & OPENING OF EXHIBITION

CONFERENCE DAY 1: MONDAY 29 APRIL

07h00

REGISTRATION OPENS

09h00 - 10h30

OPENING PLENARY

A: Official Opening of the Congress B: Welcome from President of PIANC
C: African cultural event D: Acknowledgement of the new PIANC HQ premises

10h30 - 11h00

TEA BREAK

PARALLEL SESSIONS A

11h00 - 11h25

PARALLEL 1A	PARALLEL 2A	PARALLEL 3A	PARALLEL 4A	PARALLEL 5A	PARALLEL 6A
INLAND NAVIGATION : CLASSIFICATION OF IW Meeting Room: Auditorium 2	PORTS DREDGING AND RECLAMATION Meeting Room: 1.41	PORTS – UKC/AIS SYSTEMS Meeting Room: 1.43	PORTS – ASSET MANAGEMENT/ REHABILITATION Meeting Room: 1.64	ENVIRONMENT: SUSTAINABILITY IN DESIGN AND CONSTRUCTION Meeting Room: 1.61	PORTS – WAVES/ TSUNAMIS Meeting Room: 2.64
Standardisation of Inland Waterways in Europe (Mr Ivo Ten Broeke) Ministry Of Infrastructure And Water Management, Rijkswaterstaat Netherlands	Optimizing real-time dredge monitoring systems for various dredge types (Mr Konrad Mech, Mr Peter Klemp) Kongsberg Discovery Canada Ltd. Canada	Improving port planning and risk management using AIS and PPU data (Dr Matthew Turner, Dr Giles Lesser, Mr Brendan Curtis) OMC International Australia	Artificial intelligence for condition assessment and predictive maintenance in port infrastructure (Mr Tauqeer Ahmed, Mr Anwar Rodrigues, Mr Cebolenkosi Mzotho, Mr Mpho Ramuhulu, Ms Maxine Jacobs) Transnet National Ports Authority South Africa	Innovative research on novel environmentally friendly rock-filled mattress solution for scour prevention design in berthing structures (Gianluca Brocca, Mr. Arne van der Hout, Ms. Helena I. S. Nogueira, Mr Christian van Nieuwenhuizen, Mr Paolo Di Pietro, Mr Marco Vicari) Officine Maccaferri Spa, Italy	MARCOM WG 212: Criteria for acceptable movement of ships at berths (Mr Majid Yavary, Mr Martijn de Jong, Dr Wim van der Molen, Ms Marta Mendizabal, Dr Sundar Prasad, Mr Jonathan Woodhams, Dr Thibaut van Zwijnsvoorde) Baird Australia

11h25 - 11h50

INLAND NAVIGATION : NAVIGATION WEIRS Perspective for the use of labyrinth weirs on waterways (Dr Michael Gebhardt, Fabian Belzner) Federal Waterways Engineering and Research Institute (BAW) Germany	Optimisation and timing of design and maintenance of a Caspian Sea channel network facing a downward trend in water level (Mr Arjan De Heer, Mr Louwrens Elzinga, Mr Julian Masters) Witteveen+Bos Netherlands	The development of a vessel under-keel clearance system for the ports of South Africa (Mr Christophe Troch, Mr Sarel Haasbroek, Mr Luther Terblanche, Mr Johan Kieviet) CSIR South Africa	A Smart Port looks after its waterfront infrastructure (Mr Henk Voogt) Port of Rotterdam Netherlands	A Showcase of Nature-Inclusive Design Solutions for Resilient Port Infrastructure (Andrew Rella) Concrete United States	A study on the variation of harbor tranquillity caused by sea level rise (Dr Kyu-tae Shim, Prof Kyu-Han Kim) Catholic Kwandong University South Korea
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11h50 - 12h15

First Comprehensive Code of Practice for Planning, Construction and Operation of Water-filled Rubber Gates (Ms Gabriele Peschken, Dr Amir Rahimi, Dr Michael Gebhardt, Mr Martin Deutscher) Federal Ministry for Digital and Transport Germany	WG 227: A Guide for a Risk-based Approach to Environmental Windows for Dredging and Navigation Infrastructure Works (R van Ballegooyen ¹ , R Desrosiers ² , G van Raalte ³ , J van Berkel ⁴ & D Petch ⁵) ¹ WSP, South Africa; ² Anchor QEA, USA; ³ CEDA-IADC, Netherlands, ⁴ DHI, Canada, ⁵ GHD, Australia South Africa, Netherlands, Canada, Australia	Increasing vessel draft and operational transit windows in tangler med using physics based system (Mr Simon Brandi Mortensen, Mr Tim Womersley, Dr Reeza Kaazerooni, Mr Alex Harkin, Mr Jacob Suhr, Ms Prema Bhautoo, Mr Florian Moretti) DHI A/S Australia	Asset management in ports: An Overview and Best Practices – Maintenance Management (Mr Tauqeer Ahmed, Mr Ashveer Sathanund, Ms Maureen Julie, Ms Maxine Jacob, Mr Mpho Ramuhulu, Ms Nomvuyo Nkabinde, Ms Phumelele Mthembu, Ms Rorisang Methola) Transnet National Ports Authority South Africa	Resilient Port of Future: Case study on the sustainable construction of the Patimban Port Development Project (Dr Phuong Dong, Mr Hiromi Namiki, Mr Kenichi Iwama, Karya Aditya, Mr Putra Asmara Andilas) Oriental Consultants Global Indonesia	PORTS – FENDER WORKSHOP The new PIANC Fender Guidelines 2023 by WG211 (Mr Erik Broos, Mr Alfred Roubos) Port of Rotterdam Authority The Netherlands
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12h15 - 12h40

Keeping Weirs Suitable for Transit – The Case of the Meuse River in The Netherlands (Mr Otto Koedijk) Rijkswaterstaat Wvl The Netherlands	Shaping the seabed: Current innovations in dredging and management in the context of currents (Mr Ashley Nyambi, Mr Takalani Manyama, Mr Kulani Mayayise, Mr Pat Mefene, Mr Thabo Mathabatha) MVE Consulting South Africa	Underkeel clearing studies for port operations (Mrs Ilham Atmane, Mr Amine El Karam) Anp Agence Nationale Des Ports Morocco	Leveraging Data Analytics for Effective Port Infrastructure Asset Management in African Ports (Mr Tauqeer Ahmed, Mr Mpho Ramuhulu, Cliff Phakathi, Mr Thamsanqa Kunene) Transnet National Ports Authority South Africa	Innovative pathways to sustainability: Exploring the Adoption of platinum slag materials in marine infrastructure Development (Mr Kishan Tuli, Mr Lehlogonolo Masoga, Mr Gabriel Maluleke, Mr Ngoako Ramaboea) University of Stellenbosch South Africa	Recommendations for berthing velocity in PIANC WG 211 (A Roubos ^{1,2} , R Williams ³ , P Mirihagalla ⁴) ¹ Port of Rotterdam ² Delft University of Technology ³ Waves Group ^{1,2} The Netherlands SUK
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12h40 - 13h50

LUNCH BREAK

CONFERENCE DAY 1: MONDAY 29 APRIL (CONTINUED)

PARALLEL SESSION B						
13h50 - 14h15	PARALLEL 1B	PARALLEL 2B	PARALLEL 3B	PARALLEL 4B	PARALLEL 5B	PARALLEL 6B
	INLAND NAVIGATION: LARGE RIVERS IN AFRICA & ASIA Meeting Room: Auditorium 2	PORTS DREDGING AND RECLAMATION Meeting Room: 1.41	PORTS – UKC/AIS SYSTEMS Meeting Room: 1.43	PORTS – ASSET MANAGEMENT/ REHABILITATION Meeting Room: 1.64	ENVIRONMENT: SUSTAINABLE SOLUTIONS FOR FRESH WATER Meeting Room: 1.61	PORTS – FENDER WORKSHOP Meeting Room: 2.64
	Optimal use of Senegal's river assets as part of the national port strategy (Mr Sébastien Page, Kris De Decker, Mrs Astrid Laemont, Mr Mamoudou Bocoum) IMDC Belgium	Selecting port maintenance strategies: A trade-off analysis between cost, emissions, and accessibility (Mr Arash Sepehri, Dr Alex Kirichek, Mr Marcel van den Heuvel, Dr Mark van Koningsveld) Delft University Of Technology Netherlands	SIFLOW21. Predictive simulation of navigation channels and port infrastructure capacity with ais data assessment ffdh Siport21 Spain	Case study of Santander Raos norte container terminal pavement with steel fibre reinforced concrete (Mrs Chiara Minoretti, Mr Rafael Rueda, Mr Cesar Bertolome, Mr Fernando Gutierrez Alvarez) Bekaert France	The Impact of critical water levels on container inland waterway transport (FelipeBedoya-Maya) University of Antwerp Belgium	Backgrounds partial energy factor for fender design proposed by PIANC WG211 (Mr Jeffrey Oskamp, Mr Rob Williams, Mr Alfred Roubos, Mr Bob Lamont-Smith, Mr Svein Nyvoll) Port of Rotterdam The Netherlands
14h15 - 14h40	Approach for reviving inland waterways for transport in africa – the case of South Sudan (Mr Richard Van Liere, Mr Harrie de Leijer, Mr Bernard Aritua) NESTRA The Netherlands	CSD SPARTACUS – game changer in rock dredging (Jean-Philippe Haverbeke, Jan van den Broecke, Joachim Beckers, Lode Vancauwenbergh, Mr Tom Nees) Deme Group Belgium	Managing navigation and environmental considerations in fuel hub anchorage design (Mr John Burns) Ayesa United Arab Emirates	Structural assessment and design of strengthening work in an existing shipyard for a large FPSO (Mr Sohail Minhas) Royal Haskoningdhv Viet Nam	The Implementation of Green Label for promoting sustainability in waterborne transportation (Augusto Vedan, Cyrcé Silva) Antaq Brazil	Fender system selection in PIANC WG211 (Mr Jeffrey Oskamp, Mr Rob Williams, Mr Alfred Roubos, Mr Bob Lamont-Smith, Mr Svein Nyvoll) Moffatt & Nichol United States
14h40 - 15h05	An alternative to riprap scour protection at a berth expansion project, port Freeport, Texas (Mr Gabe Bolin, Mrs Rocio Lopez Velasco, Mr Gerry Kehler) Synthetex United States	A holistic port basin expansion dredging design approach for port Victoria, Seychelles (Ms Yasmin Kistner, Mr Roy van Ballegooyen, Mr Marius Rossouw, Mr Marthinus Relief) WSP South Africa	Maritime traffic risk analysis of proposed Mombasa gate bridge using ship automatic identification system data (Miss Julie Wangui Wamugi, Miss So-Ra Kim, Prof Young-Soo Park, Prof Dae-Won Kim) Korea Maritime and Ocean University South Korea	Hay point ship loader and berth replacement: retrofit to extend the service life by 50 years (Mr Richard Morgan, Mr Dan Squires, Mr Adam Mayers, Mr Matt Lyons, Ms Grace Go) Aspec Engineering Australia	Inland Navigation: Pathway for sustainable Urbanization and Industrialization (Lanre Badmus) West Coast Business Support Services Nigeria	Structural capacities of ship's parallel hull subject to fender-induced berthing impact loads (Ms Emma Adriana Berendsen, Dr Alfred Roubos, Mr Rob Williams, Dr Carey Walters, Mr Erik Broos) Van Oord Marine Dredging & Marine Contractors The Netherlands
15h05 - 15h35	TEA BREAK					

CONFERENCE DAY 1: MONDAY 29 APRIL (CONTINUED)

PARALLEL SESSION C						
15h35 - 16h00	PARALLEL 1C	PARALLEL 2C	PARALLEL 3C	PARALLEL 4C	PARALLEL 5C	PARALLEL 6C
	INLAND NAVIGATION Meeting Room: Auditorium 2	PORTS DREDGING AND RECLAMATION Meeting Room: 1.41	PORTS – UKC/AIS SYSTEMS Meeting Room: 1.43	PORTS – ASSET MANAGEMENT/ REHABILITATION Meeting Room: 1.64	ENVIRONMENT: INNOVATION IN DELIVERING SUSTAINABLE SOLUTIONS Meeting Room: 1.61	PORTS – FENDER WORKSHOP Meeting Room: 2.64
	Innovations in Inland Waterways (INCOM): from Decarbonisation to Sustainability (Prof Philippe Rigo) University of Liege Belgium	Dredging of coastal lagoons: the case of Barra Velha lagoon – Santa Catarina – Brazil (Mr Mauricio Torronteguy, Ms Juliana Menegucci) MTCN Brazil	Challenges in Port of Rio de Janeiro in the implementation of virtual ATONs for the allowance of manoeuvring bigger ships (Mr Leonardo Soares) LS CONSULTORIA NAVAL Brazil	Residual structural performance evaluation for piers using artificial intelligence (Dr Kunihiko Uno) Penta-Ocean Construction Co., Ltd. Japan	Towards Environmental Sustainability and Societal Wellbeing: Unpacking the Impacts of Mega Port Development in Kwa Zulu Natal (Dr Rajan Chetty, Mr Muziwokuthula Ntul) Transnet South Africa	Comparison of fender dimensions PIANC WG211 and PIANC WG33 (Dr Alfred Roubos, Ms Prasanthi Mirihagalla, Mr Marco Gaal, Mr Gard Blankers, Mr Perry Groenewegen) Port of Rotterdam Netherlands
16h00 - 16h25	PIANC working group 236: Sustainable management of the navigability of natural rivers (Dr Calvin Creech, Dr Erik Mosselman, Dr Jean-Michel Hiver, Dr Nils Huber) PIANC United States	Dredging the Durban tug jetty basin with a cutter suction dredger (Ernest Monyemangene) Transnet National Ports Authority South Africa	Under-keel studies for port operations growth (Mr Amine EL KARAM, Ms Ilham Atmane) Anp (Agence Nationale Des Ports) Morocco	Sustainable smart approaches to port maintenance in the wake of climate change: an African perspective (Mr Takalani Manyuma, Mr Thabo Mathabata, Mr Ruan Aucamp) MVE Consulting South Africa	Quick scan on ESG impacts of Port Development; creating sustainable port capacity (Abel Knipping) Witteveen+bos Netherlands	Recommendations for fender testing in PIANC WG 211 (Mr Harvinder Singh, Mr Mishra Kumar, Mr Dominique Polte, Mr Vitomir Mihajlovic, Dr Hitoshi Akiyama) Jacobs Australia
16h25 - 16h50	Best practices in planning inland waterways multimodal platforms (Mr Allard van Riel, Mr Philippe Rigo, Ms Laure Roux, Ms Ksenija Banovac, Mr Didier Baudry, Mr Matthieu Bogaert, Mr Marian Constantinescu, Mr Turi Fiorito, Ms Sarah Gilissen, Ms Ana Paula Harumi Higa) Ports of Lille France	Expanding the port area using contaminated dredged sediments (Ms Hege Stusvik) Port of Oslo Norway	PORTS – PORT UTILISATION Application of Numerical Modelling to Assess Wave-induced Ship Response and Port Downtime (Dr Yabin Sun) CCCC-FHDI Engineering Co., Ltd. China	Advanced materials methods driving new life in critical steel navigation structures (Dr Guillermo Riveros) US Army Engineer Research & Development Center United States	Propulsion decarbonisation based clean energy development (Patrick Hemp) ICOMIA United Kingdom	Fender Workshop Discussion/Wrap up
16h50 - 17h15		Risk of accretion within port entrances and tidal navigational channels in dredging projects (Mr Mohammad Hossein Yadollahi) HKA United Kingdom	Fundamental Study on Understanding the Behaviour Characteristics of Breakwaters during Tsunami Events (Mr Naonori Kuwabara, Mr Kenichi Maeda, Mr Tatsuya Matsuda) NEWJEC.INC Japan	Maritime Autonomous Surface Vessels (MASS): A Comprehensive Study on Market Implications and Regulatory Considerations (Mr Augusto Vedan) Antaq Brazil		

CONFERENCE DAY 2: TUESDAY 30 APRIL

07h30

REGISTRATION

08h45 - 09h30

PLENARY 2

A: Presentation by Chair of MarCom - Mr Egbert van der Wal (The Netherlands)
B: Presentation by Chair of RecCom - Mr Esteban Biondi (Argentina)

PARALLEL SESSION D

09h35 - 10h00

PARALLEL 1D

PARALLEL 2D

PARALLEL 3D

PARALLEL 4D

PARALLEL 5D

PARALLEL 6D

INLAND WATERWAYS: LOCK WG206 (PART 1)
Meeting Room: Auditorium 2

PORTS DREDGING AND RECLAMATION
Meeting Room: 1.41

PORTS – PORT UTILISATION
Meeting Room: 1.43

ENVIRONMENT
Meeting Room: 1.64

ENVIRONMENT: SUSTAINABILITY IN COASTAL / SMALL ISLAND ENVIRONMENTS
Meeting Room: 1.61

PORTS – BOLLARD AND MOORINGS
Meeting Room: 2.64

WG 206 - session 1: INCOM Working Group 206 Report "Design of Navigation Locks":
Introduction and Lock Planning
(Mr John Clarkson¹
Mr Erwin Pechtold²
¹US Army Corps of Engineers
²Rijkswaterstaat
¹United States ²Netherlands

Sediment loss from the mud island dredged material placement area, Australia
(Dr Jesper Nielsen,
Dr Jason Antenucci,
Mr Michael Linde)
Seaport OPX
Australia

Storm surge and tsunami risk assessment in ISE Bay under future climate conditions
(Mr Masafumi Saito)
Oriental Consultants Co., Ltd.,
Japan

Beyond economic benefits: How societal expectations affect grant funding in the united states
(Ms Elizabeth Collins)
Collins Engineers, Inc.
United States

Sustainable coastal management: a case study for resilient island nations
(Dr Hyun Dong Kim,
Mr Xiao Yu, Prof Jane Smith, Prof Kyu Han Kim)
University Of Florida
United States

What is a safe working load for your bollard by WG186?
(Mr Erik Broos, Capt Jörg Pollmann, Capt Jan Dlugosch, Mr Wim Hoebee,
Mr Adrian Kahl)
Port of Rotterdam Authority
The Netherlands

10h00 - 10h25

WG 206 - session 2: Lock Types, Civil and Structural Design and Lock Equipment
(Mr Erwin Pechtold)
Rijkswaterstaat
The Netherlands

Sediment transport modelling to investigate deposition and dredging around the Port of Port Elizabeth breakwater
(Mr Pierre-Malan Hugo,
Mr Stephen Luger,
Mr Stewart Walker,
Mr Andy McClarty)
PRDW Consulting Port and Coastal Engineers
South Africa

The inland navigation at the heart of the Paris 2024 olympic and paralympic games
(Mr Stéphane Raison)
General Director and Chairman of the Board of the Grand River-Maritime Port of the Seine Axis
HAROPA PORT
France

Development of the CNP Certification for Container Terminals, a certification system to objectively evaluate their decarbonization efforts
(Ms Ruka Tomita)
Ministry of Land, Infrastructure, Transport & Tourism
Japan

A Green Port in the Pacific Islands: Enhancing the Safety, Security and Sustainability of Apia Port
(Mr Justin Cross,
Ms Silalomano Isaia,
Mr Soalo Kuresa)
Royal HaskoningDHV
Vietnam

The effect of combination mooring lines on ship mooring operability in wave-exposed ports
(Dr Tim Gourlay)
Perth Hydro
Australia

10h25 - 10h50

WG 206 - session 3: Gates, Valves and Temporary Closure Structures
(Mr Travis Adams¹
Mr Vincent Coste²)
¹US Army Corps of Engineers ²Ecovex
¹United States ²France

Sailing through fluid mud: current advances and challenges
(Dr Alex Kirichek,
Dr Stefano Lovato,
Nino Ohle, Erwin ten Brummelhuis, Stoffel Rocks, Edwin Hupkes)
Tu Delft
Netherlands

Sailing ahead towards reducing the carbon footprint in the fender industry
(Mr Dominique Polte,
Mr Jan-Christoph Schoeler)
ShibataFenderTeam
Group
Germany

Sustainability and resilience best practices for marina planning
(Esteban Biondi)
Applied Technology and Management
United States

Passing vessel effects due to internal waves and stratification on moored vessels in ports
(Dr Alireza Valizadeh,
Dr Hisham Elsaffi, Simon B. Mortenson, Dr Jason P. Antenucci)
Dhi Water And Environment
Australia

10h50 - 11h20

TEA BREAK

CONFERENCE DAY 2: TUESDAY 30 APRIL (CONTINUED)

PARALLEL SESSION E						
11h20 - 11h45	PARALLEL 1E	PARALLEL 2E	PARALLEL 3E	PARALLEL 4E	PARALLEL 5E	PARALLEL 6E
	INLAND WATERWAYS: LOCK WG 206 (PART 2) Meeting Room: Auditorium 2	PORTS DREDGING AND RECLAMATION Meeting Room: 1.41	PORTS – DIGITAL ENGINEERING Meeting Room: 1.43	ENVIRONMENT Meeting Room: 1.64	ENVIRONMENT: SUSTAINABILITY IN COASTAL / SMALL ISLAND ENVIRONMENTS Meeting Room: 1.61	PORTS – BOLLARD AND MOORINGS Meeting Room: 2.64
	WG 206 - session 4: Hydraulics, Water Saving Basins and Salt Water Intrusion (Sebastien Roux ¹ , Fabian Belzner ²) ¹ CNR 2BAW ¹ France ² Germany	Innovative applications of cutter soil mixing technique as seabed soil improvement (Mr Jordan Lagnado, Mr Fabrice Mathieu, Mr Gustavo Pereira) Soletanche Bachy France	Digital engineering for ports (James Melvill) WSP South Africa	Zoomed-out corridor-level shipping emissions, zoomed-in ship-level causes, and everything in between (Solange van der Werff, Prof Dr Marc van Koningsveld) Delft University Of Technology Netherlands	Roundtable Discussion: Integrating Working with Nature and Nature-Based Solutions into Long-Term Sustainable Sediment Management (Dr Victor Magar, Dr Burton Suedel, Dr Andrew McQueen) Ramboll	Smart bollard: real-time monitoring of mooring line loads for enhanced port safety and efficiency (Mr Thijs de Jong) Straatman Bv Netherlands
11h45 - 12h10	WG 206 - session 5: Operation & Control, Construction, inspection and Rehabilitation (Sylvain St. Arneault ¹ , John Clarkson ²) ¹ St. Lawrence Seaway Management Corp. (SLSMC) ² USACE ¹ Canada ² USA	Sailing through fluid mud: current advances and challenges (Dr Alex Kirichek, Dr Stefano Lovato, Nino Ohle, Erwin ten Brummelhuis, Stoffel Rocks, Edwin Hupkes) Tu Delft Netherlands	BIM-GIS integration for Ha Nam channel upgrade project (Assoc. Nguyen Danh Thao, Dr. Le Tuan Anh, Mr. Tran Phuc Minh Khoi, Mr. Tran Le Vin) Portcoast Vietnam	Research on low carbon port construction based on clean energy development (LQ Meng) CcccTianjin Port Engineering Institute Ltd China		Enhancing maritime efficiency and safety with smart technologies in South African Ports (Captain Naresh Sewnath, Mr Tauqeer Ahmed, Mr Vasu Naidoo) Transnet National Ports Authority South Africa
12h10 - 12h35	Monte-carlo mooring simulations for inland navigation locks (Fabian Belzner, Dr.-Ing. Carsten Thorenz, Univ.-Prof. Dr.-Ing. habil. Mario Oertel) Federal Waterways Engineering and Research Institute (BAW) Germany		Application of BIM-GIS in Assessing and Re-Designing of Wharf Structure after Vessel Collision (Mr. Tran Phuc Minh Khoi, Mr. Ly Dang Khoa, Ms. Nguyen Hoang Anh Thu, Assoc. Nguyen Danh Thao) Ho Chi Minh City University Of Technology (HCMUT), VNU-HCM Vietnam			Implementation of Vertical ShoreTension® Dynamic Mooring System at Peru LNG (Dr Wim van der Molen, Mr Roberto Salinas, Mr Doug Scott, Mr Celso Rodriguez, Mr Gerrit van der Burg, Mr Chris Clement, Mr Juan Luis Salinas, Mr Ariel Gasca, Mr Gerard Spaan) Baird Australia
12h35 - 13h35	LUNCH BREAK					

CONFERENCE DAY 2: TUESDAY 30 APRIL (CONTINUED)

PARALLEL SESSION F						
13h35 - 14h00	PARALLEL 1F	PARALLEL 2F	PARALLEL 3F	PARALLEL 4F	PARALLEL 5F	PARALLEL 6F
	INLAND NAVIGATION: RIVER INFORMATION SERVICES Meeting Room: Auditorium 2	PORTS DREDGING AND RECLAMATION Meeting Room: 1.41	PORTS – PLANNING AND DEVELOPMENT Meeting Room: 1.43	ENVIRONMENT Meeting Room: 1.64	ENVIRONMENT: SUSTAINABLE DREDGING AND BENEFICIAL USE (PLANNING) Meeting Room: 1.61	PORTS – BOLLARD AND MOORINGS Meeting Room: 2.64
	Euris – evolution of a central gateway for european inland waterway information (Mr Thomas Zwicklhuber, Mr Ivo ten Broeke, Mr Christoph Plasil) via donau - Österreichische Wasserstraßengesellschaft Mbh Austria	Control of invasive plant species in the Gbaga channel dredging and ecological restoration project (TOGO-BENIN) (Dr Roeland Adams, Dr Bernard Wéry, Dr Lucy Gwen Gillis, ir. Jeroen Depaepe, ir. Sébastien Page) IMDC Belgium	Symbiosis on the Shoreline: A Multidisciplinary Approach to Engineering in the Romanian Coast (Mr Sebastian Iglesias, Mr W. Ockeloan, Mr GM Smith) Van Oord Netherlands	A Guide for assessing and managing effects of underwater sounds from navigation infrastructure activities (Dr Andrew McQueen, Mr Spencer Shute, Dr Elena San Martin, Mr Frans Lafeber, Mr Daan Rijks) US Army Corps of Engineers United States	Maintenance dredging risk minimisation: beneficial use assessments and implementation of environmental windows/seasonal restrictions (Mr Roy van Ballegooyen ¹ , Dr Brent Newman ² , Estele Swart ³) WSP ¹ , CSIR ² , WSP ³ South Africa	The difference between a static and dynamic mooring analysis for large container ships in wind (Dr Alex Van Deyzen, Mr Jeroen Van De Sande, Ms Ly Nguyen) Royal HaskoningDHV Netherlands
14h00 - 14h25	Implementing the new automatic identification system for aids to navigation in the antarctic (Sebastian Garcia, Mr Mariano Luis Marpegan) EMEPA S.A. Argentina	Methodology for dredging management contracts, case study of Brazilian ports (Ms Priscila Farias, Mr Fernando Alonso Martinez, Mr Eduardo Lourençatto Cruz) Umi San Hidrografia e Engenharia LTDA Brazil	Innovative and alternative applications of traditional methods to overcome Africa's waterborne transport challenges (Mrs Valerie Vanlshout, Mr Geert-Jan van der Wielen, Mr Frederik Mabesoone) Royal HaskoningDHV Netherlands	Resource Saving Potential of Seawater Air-Conditioning Systems – A Case Study in Cape Town, South Africa (Dr James Joubert) Ecolution Consulting South Africa	Working with Nature in the port of Seville. The Navigation Optimization project of the Guadalquivir (Mr Rodrigo García Orera, Mr Antonio Bejarano Moreno, Mr Angel Pulido Hernández) Seville Port Authority Spain	To a safe mooring of large container ships in wind (Dr Alex Van Deyzen, Mr Coen Eggermont, Ms Ly Nguyen) Royal HaskoningDHV Netherlands
14h25 - 14h50	VHF data exchange system (vdes). A new digital communication system for maritime and inland navigation (Stefan Bober) German Federal Waterways and Shipping Agency Germany	PORTS – BREAKWATER/ COASTAL MODELLING Advancement in Coastal Protection Development and Evaluation of OXOS: An Innovative Optimised X-section Offshore Structure (Mr Kishan Tuli, Dr Andre Theron, Prof Andre van Tonder) University of Stellenbosch South Africa	Principles of flexibility in port masterplans. The Italian experience (Andrea Ferrante, Mrs Serena D'Amora) High Council Of Public Works - Ministry Of Infrastructure And Transport Italy	Proposal of the environmental quality index in Northeast Asia ports (Hiroki Matsumoto) Port and Airport Research Institute Japan	Beneficial Use of Dredged Material – Results of the PIANC ENVICOM Report (Dr Victor Magar, Dr Burton Suedel, Dr Luca Sittoni, Mr Thomas Vijberberg, Mr Francois DeKeuleneer, Mr Colm Sheehan, Mr Colin Scott) Ramboll Colombia	Beginnings of a unified approach to mooring system design: working load limits' literature review, observations (Mr Julian Cajiao) Hatch Canada
14h50 - 15h15	Impact assessment of cargo reconstruction on the container inland waterway transport (IWT) logistics system (Dr Peter Shobayo, Felipe Bedoya-Maya, Adrien Nicolet, Prof Edwin van Hassel, Prof Bilge Atasoy, Prof Thierry Vanelslender) University of Antwerp Belgium	Design of Concrete Mattress with Porous Open Holes for Wave Protection to Harbour Slopes (Mr Mitchell Furborough, Mr Martin George Hawkswood, Mr George Michael Hawkswood) Proserve Ltd United Kingdom	Port Expansion Project, Freetown, Sierra Leone (Mr Gordon Rankine, Mr Jonathan Baker, Ms Gemma Turner) Beckett Rankine United Kingdom	3D simulations of bubble curtain's interaction with floating plastics and litter in ports and waterways (Ms Foteini Kyrousi, Dr Theofano I. Koutrouveli, Dr Boudewijn Decrop) IMDC Belgium	Environmental characterization of dredging sediments for the construction of the new "darsena europa" dock (Dr Enrico Pribaz, Dr Andrea Carli, Dr Ilaria Lotti, Dr Pietro Chiavaccini) Autorità di Sistema Portuale del Mar Tirreno Settentrionale Italy	A sustainable solution for reinvigorating ageing bollards (Mr Richard Jowitt) Bollard Proof United Kingdom
15h15 - 15h45	TEA BREAK					

CONFERENCE DAY 2: TUESDAY 30 APRIL (CONTINUED)

PARALLEL SESSION G

15h45 - 16h10	PARALLEL 1G	PARALLEL 2G	PARALLEL 3G	PARALLEL 4G	PARALLEL 5G	PARALLEL 6G
	INLAND NAVIGATION: RIVER INFORMATION SERVICES Meeting Room: Auditorium 2	PORTS – BREAKWATER/ COASTAL MODELLING Meeting Room: 1.41	PORTS – PLANNING AND DEVELOPMENT Meeting Room: 1.43	ENVIRONMENT Meeting Room: 1.64	ENVIRONMENT: SUSTAINABILITY Meeting Room: 1.61	PORTS – BOLLARD AND MOORINGS Meeting Room: 2.64
	Price regulation in Brazil inland navigation <i>(Sr Pedro Celso Rodrigues Fonseca, Sr Isaac Monteiro do Nascimento)</i> Brazilian National Waterway Transportation Agency Brazil	Study on the stability of three-layered rock armour in breakwater roundheads exposed to long waves <i>(Mr Thomaz Tessler, Mr Hans Burcharth, Mr Thomas Andersen, Mr Mads Eldrup, Mrs Débora Braga)</i> Tessec Brazil	Banjul port's 4 th expansion: a review of masterplan proposed solutions to existing drawbacks <i>(Mr Asier Ruiz, Mrs Veronica Velede)</i> ALG Global Infrastructure Advisors SLU Spain	April 2022 kzn floods: the effects of climate change on the port of durban <i>(Axola Qumba)</i> Transnet National Ports Authority South Africa	Sustainable Inland Waterways <i>(Mr Andreas Dohms, Mr Burton Suedel)</i> Federal Waterways And Shipping Administration Germany	Snapback to the future: new methods for parted mooring line analysis <i>(Mr Jordan Butler)</i> Wallbridge Gilbert Aztec Australia
16h10 - 16h35	Assessment of importance – Performance perceptions of commuters on inland water transport in Kochi, India <i>(Dr N M Sabitha, Ms NS Sherin, Mr VS Sanjay Kumar, Dr VS Manju)</i> NATPAC India	Physical model tests on stability and overtopping of the new Cubilok™ concrete armour unit <i>(Miss Melissa Cairns, Mr Anton Holtzhausen, Mr Carl Wehlitz, Mr Andre Theron)</i> PRDW Africa South Africa	The Masterplan supporting the successful future growth of the Port of Durban <i>(Ms Paz Arteijo, Mr Selvan Pillay, Mr Damane Hlalele)</i> Arup United Kingdom	Managing Climate Change Uncertainty Using Dynamic Adaptive Flood Risk Management Planning <i>(Mr Rick Kool, Klavs Bundgaard, Charlotte Sinkbæk Schow)</i> NIRAS / Technical University of Denmark Denmark	Reporting PIANC's Environmental Commission Progress Towards Advancing Sustainable Navigation Infrastructure <i>(Dr Suedel Burton)</i> US Army Corps of Engineers United States	Snapback! Management of mooring line safety through the application of dynamic line tensioning systems <i>(Mr Mathew Kearns, Mr Nick Labrosse)</i> Trelleborg Australia
16h35 - 17h00	Next steps in the prediction of inland vessel states using a multiple hypothesis approach <i>(Mr Florian Gschwandtner, Dr Dr.-Ing. Alexander Lutz, Prof. Dr.-Ing. habil. Thomas Meurer)</i> Argonics / KIT Germany	Cubes versus cubipods for the outer port San Antonio breakwater, Chile <i>(Dr José Luis Monsó, Prof Jentsje Van der Meer)</i> Sener Mobility Spain	Application of Digitalization in the Development of a Port Master Plan Project in Southern Vietnam <i>(Mr. Tran Phuc Minh Khoi, Mr. Tran Tan Phuc, Assoc. Nguyen Danh Thao, Mr. Lam Nhat Phat)</i> Portcoast Consultant Corporation Vietnam	Port Infrastructure and Community Resilience <i>(Horacio Salerno)</i> Horacio Enrique Salerno Portes Spain	Sustainability frameworks and PIANC role <i>(Eteban Biondi)</i> Applied Technology and Management United States	Snapback Characterization for Arresting Structure Design: Physical Testing Insights BEN POULTER, (he/him) Holmes Solutions LP New Zealand
17h15	POSTER PRESENTATIONS					

CONFERENCE DAY 3: WEDNESDAY 01 MAY

07h30	REGISTRATION					
08h45 - 09h30	<p style="text-align: center;">PLENARY 3</p> <p style="text-align: center;">A: Presentation by Chair of InCom - Mr Philippe Rigo (Belgium) B: Presentation by Chair of EnviCom - Mr Burton Suedel (USA)</p>					
	PARALLEL SESSION H					
09h35 - 10h00	PARALLEL 1H	PARALLEL 2H	PARALLEL 3H	PARALLEL 4H	PARALLEL 5H	PARALLEL 6H
	<p style="text-align: center;">INLAND NAVIGATION: HYDRAULIC STRUCTURES Meeting Room: Auditorium 2</p>	<p style="text-align: center;">PORTS – BREAKWATER/ COASTAL MODELLING Meeting Room: 1.41</p>	<p style="text-align: center;">PORTS – PLANNING AND DEVELOPMENT Meeting Room: 1.43</p>	<p style="text-align: center;">PORTS – STRUCTURES Meeting Room: 1.64</p>	<p style="text-align: center;">ENVIRONMENT Meeting Room: 1.61</p>	<p style="text-align: center;">PORTS – NAVIGATION Meeting Room: 2.64</p>
	<p>Development of a new tool for validating lock levelling <i>(Mr Jeroen Verduyck, Egemen Ozden, Pascal Aerssens, Fien Van Bastelaere, Mr Kristof Verelst, Mr Ben Wolput, Davy Depreiter, Steven Muylaert, Wijnand Vanhille, Stefan Geerts An Schrijvers, Sébastien Poitoux)</i> Flanders Hydraulics Belgium</p>	<p>Low carbon, high-density coastal armour units for managing increased risk with climate change <i>(Dr Ron Cox, Ben Modra, Prof Stephen Foster, Paul Ryan)</i> Water Research Laboratory Unsw Australia</p>	<p>Nador West Med Port masterplan – Facilities and infrastructure planning for transferring cargo <i>(Miss Eugènia Poveda Santiago, Mr Najat Chaouq, Mr José Luís Estrada Llaquet)</i> Sener Mobility Spain</p>	<p>Seismic isolators and their contribution to reduce structure weight and related carbon footprint <i>(Mr Gabriel Vargas, Mr Jorge Bauerle, Mr Felipe Maier, Mr Daggo Mellado)</i> PRDW Consulting Port and Coastal Engineers Chile</p>	<p>A methodology for climate proofing inland navigation infrastructure: The Seine Scheldt project <i>(Mustafa Nazareli)</i> Haedes BV Belgium</p>	<p>Towards safer vessel navigability in ports: Validation of Ship Manoeuvring Simulation and its use as an engineering tool <i>(Ms Maria Eduarda Chame, Mr Eduardo Aoun Tannuri, Mr Pedro Cardoso Mello, Mr Edson Mesquita dos Santos)</i> Numerical Offshore Tank Brazil</p>
10h00 - 10h25	<p>New verification of existing massive hydraulic structures: A framework <i>(Mr Claus Kunz)</i> Bundesanstalt für Wasserbau Germany</p>	<p>3D physical model study for proposed remedial works to the port of Richards Bay breakwaters <i>(Mr Carl Wehlitz, Mr Eugène Mabilie)</i> CSIR South Africa</p>	<p>Upgrade of the Europa Terminal to a future-proof deep sea container terminal at Port of Antwerp-Bruges <i>(Mrs Maxime Van Beveren, Mr Filip Mortelmans)</i> Port Of Antwerp-Bruges Belgium</p>	<p>South Paray domestic wharf, Vanuatu – piling and dredging in coralline material <i>(Mr Kane Satterthwaite)</i> Becca New Zealand</p>	<p>Ecofriendly embankments along the river Lys part 1: Concept, realisation and monitoring <i>(Dr Stephan Creelle, Ir Peter Rafinckx, Dr Jeroen Hillewaere)</i> De Vlaamse Waterweg Nv Belgium</p>	<p>The use of navigation tests to optimize the layout of a new port infrastructure <i>(Dr Enrico Pribaz, Dr Ilaria Lotti, Dr Andrea Carli, Dr Pietro Chiavaccini)</i> Autorità di Sistema Portuale del Mar Tirreno Settentrionale Italy</p>
10h25 - 10h50	<p>How to take in service safely the biggest Sea Lock in the world? <i>(Mr Allert Schotman, Mr Arne Hout van der, Mr Wim Kortlever, Mr Ronald Kempenaar, Mr Pieter Valk)</i> Dutch Pilot Organisation (Loodswezen Amsterdam-IJmond) The Netherlands</p>	<p>Development of 3D digital modelling method for wave-dissipating works <i>(Dr Jun Mitsui, Dr Shin-ichi Kubota, Mr Masaya Hashida, Dr Satoshi Noboru)</i> Fudo Tetra Corporation Japan</p>	<p>The development of Port of Oslo's container terminal <i>(Ms Maren Elise Bengtson)</i> Oslo Havn KF Norway</p>		<p>Ecofriendly embankments along the river Lys part 2: Designing with Nature <i>(Dr Jeroen Hillewaere, Dr Stephan Creelle, Ir Peter Rafinckx)</i> SBE nv Belgium</p>	<p>Applicability of a simplified calculation method for estimating ship tractive force due to wind load <i>(Dr Haruo Yoneyama, Dr Hiroaki Kashima)</i> Port and Airport Research Institute Japan</p>
10h50 - 11h20	TEA BREAK					

CONFERENCE DAY 3: WEDNESDAY 01 MAY (CONTINUED)

PARALLEL SESSION I						
11h20 - 11h45	PARALLEL 1I	PARALLEL 2I	PARALLEL 3I	PARALLEL 4I	PARALLEL 5I	PARALLEL 6I
	INLAND NAVIGATION AND AFRICAN RIVERS Meeting Room: Auditorium 2	PORTS – BREAKWATER/ COASTAL MODELLING Meeting Room: 1.41	PORTS – PLANNING AND DEVELOPMENT Meeting Room: 1.43	PORTS – STRUCTURES Meeting Room: 1.64	ENVIRONMENT Meeting Room: 1.61	PORTS – NAVIGATION Meeting Room: 2.64
	Report on handling accidents in navigation structures by PIANC INCOM WG 241 (Mr Bart Bommelyn)	Breakwater and quay wall design for looe flood defence (Miss Estelle Swart, Mr James Melvill, Mr Simon Burchett) WSP, Consulting Maritime Engineers South Africa	Container terminal capacity utilization modelling as a key competitive strategy; the case of Brazilian Ports (Mr Joao Vieira, Mr Marvin Kastner, Phd. Jean Caprace) Dp World Brazil	Towards sustainable port infrastructure by performing full-scale pile load tests (Dr Alfred Roubos, Mr Dirk Lange, de, Mr Kevin Duffy, Mr Egbert Wal, van der, Prof. Dr. Ken Gavin) Port of Rotterdam Netherlands	Leveraging public-private partnerships for sustainable port development: benefits, challenges and guidelines (Mr Waynand Dreyer, Mr Tauqeer Ahmed, Mr John Samuel, Mr Clint Townsen) The South African Institution of Civil Engineering South Africa	Ship's squat when sailing asymmetrically in an approach channel (Prof Guillaume Delefortrie, Jeroen Verwilligen, Prof Evert Lataire) Ghent University Belgium
11h45 - 12h10	Inland Navigation: African rivers debate Moderator - Phillippe rigo Large Free Flow Rivers and African Inland Waterways Debate Debate Participants: - (Keith Mackie, South Africa Phillippe Rigo, Belgium Andreas Dohms, Germany Eduardo Pessoa de Queiroz, Brazil)	Inter-dependence of antifer armour stability along different break-water segments as witnessed from physical model testing (Dr Sanjeewa Wickramaratne, Ms Nalika) Lanka Hydraulic Institute Ltd Sri Lanka	Improving multi-use port facilities through key design parameters (Mr Robert Taylor, Mr Keith Mackie, Mr Keith Jones) Bardex Corporation United States	Adoption of steel pipe sheet pile quay wall with press-in method on rocky foundation (Mr Yoshimoto Koyanagi, Mr Masafumi Miyata, Mr Mitsuhiro Nakamura, Mr Keiji Machida) Japan International Cooperation Agency Japan	Adaptive procurement: Fostering innovation towards sustainable and reliable infrastructure (Mr Oscar Iván Soto Reyes) APM TERMINALS Panama	The navigable frontier canal of the African rift (Mr Jean-Marc Deplaix) Ecole Supérieure des Transports, Paris France
12h10 - 12h35		Mach reflection effects at special quay wall layouts under very oblique wave attack (Dr. Nils B. Kerpen, Dipl.-Ing. Stefan Kohn, Dipl.-Ing. Robert Howe, Prof Torsten Schlurmann) Leibniz University Hannover, Ludwig-Franzius-Institute Germany	Capacity of multipurpose berths (Mr Horacio Salerno) Horacio Enrique Salerno Portes Spain	SmartSheetPile: Advanced structural health monitoring solution for structures made of steel sheet piles (Dr Abir Gallala) Arcelormittal Luxembourg		Historical evaluation of the navigability of the Western Scheldt for ultra large container ships (Mr Jeroen Verwilligen, Mrs Katrien Eloot, Mr Dieter Meire, Mr Guillaume Delefortrie) Flanders Hydraulics Belgium
12h35 - 13h35	LUNCH BREAK					

CONFERENCE DAY 3: WEDNESDAY 01 MAY (CONTINUED)

PARALLEL SESSION J						
13h35 - 14h00	PARALLEL 1J	PARALLEL 2J	PARALLEL 3J	PARALLEL 4J	PARALLEL 5J	PARALLEL 6J
	INLAND NAVIGATION : SHIP MANOEUVRABILITY Meeting Room: Auditorium 2	PORTS – BREAKWATER/ COASTAL MODELLING Meeting Room: 1.41	PORTS – PLANNING AND DEVELOPMENT Meeting Room: 1.43	PORTS – STRUCTURES Meeting Room: 1.64	ENVIRONMENT: SUSTAINABLE DREDGING AND BENEFICIAL USE (DELIVERY) Meeting Room: 1.61	PORTS – NAVIGATION Meeting Room: 2.64
	Evaluation of hydraulic and nautical performance of sea lock ijmuiden after two years of operation (Mr Arne van der Hout, Mr Allert Schotman, Mr Ronald Kempenaar, Mr Wim Kortlever) Deltares / TU Delft The Netherlands	3D physical model study for the Haifa breakwater retrofit design (Mr Carl Wehlitz, Ms Lukhanyo Somlota) CSIR South Africa	Improving the function of Mombasa port as a logistics hub in the Northern Corridor (Mr Yuya Ueda, Mr Taisuke Maniwa, Ms Ayumu Uchida) Japan International Cooperation Agency Japan	New construction technology of high-pile wharf under green intelligent mode (Mr Hongxing Lin) Cccc Second Harbour Engineering Company China	Sand as a Resource, best practices to conduct responsible dredging projects (Mr. René Kolman, Mr Jan Fordeyn, Mr Tom Janssens, Mr Sjon Kranendonk, Mr Thomas Vijverberg) IADC Netherlands	Design approach for the access channel of Port Victoria, Seychelles (Mr Marius Rossouw, Mr Luther Terblanche, Mr Christophe Troch) WSP South Africa
14h00 - 14h25	Improving the accessibility of the walloon waterway network for larger ships using six-degrees-of-freedom ship manoeuvring simulators (Mr Marc Mansuy, Dr Maxim Candries, Dr Katrien Eloot, Mr Sébastien Page, Dr Catherine Swartenbroeckx, Dr Didier Bousmar) Ghent University Belgium	Current and vessel-induced loading on submerged tunnel elements at Port of Antwerp: numerical and physical modelling (Dr Boudewijn Decrop, Mr John Alderson, Mr Tijs Cornu, Mr Philippe Van Gorp, Ms Foteini Kyrousi) Imdc Belgium	Woreta dry port – Helping to connect landlocked Ethiopia to international trade (Ms Yasmin Kistner, Mr Marthinys Relief) WSP South Africa	Design and fabrication of concrete caissons. Theory and real projects (Mr Alfonso Capote, Mr Daniel Zamora.) ACCIONA Spain	Porto central's adaptive dredging management plan (Mrs Juliana Jacomini Menegucci, Mr Gilberto Carvalho Pereira, Mr Marcelo Travassos) Porto Central / MTCN Consulting Brazil	The use of spar buoys for horizontal gains in navigation channels (Ms Priscila Farias, Mr Allan Machado, Mr Robson Maia, Ms Natalia Paiva, Ms Luna Ewald, Mr Rafael Neves, Mr Diego Loureiro, Mr Luis Guilhermen Sodre.) Umi San Hidrografia E Engenharia Brazil
14h25 - 14h50	Hydrodynamic model and Pusher-Barge system manoeuvring simulations in a high-sinuosity meandering river (Lower Juruá River, Amazon Basin, Brazil) (Mr Luiz André Schiaveto Neto) Universidade De São Paulo (usp) Brazil	Exact and approximated solutions to the critical flow speeds in canals (Prof Guillaume Delefortrie, Jeroen Verwilligen, Marc Vantorre, Prof Evert Lataire) Ghent University Belgium	Impact of inter-modal asset integration on South Africa's economic outlook: A cross-sectoral analysis (Mr Kishan Tulsi, Mr Lehlogonolo Masoga, Mr Gabriel Maluleke, Mr Ngoako Ramaboea) University of Stellenbosch South Africa	Innovative quay wall upgrade to operate 2nd-generation triple-e containerships at Barcelona's APM terminal (Mr Pablo Sánchez, Mr Pedro S. Vila, Mr Lucas Herrero, Mr Francesc Candel, Ms Agnès Vila, Mr Toni Cerra) TYLin EU/Latam' Spain	An efficient tool for environmental control in dredging operations (Mr Juan Cruz Andrini, Mr Leonel Temer) EMEPA S.A. Argentina	Understanding the dynamics of an ebb tide delta to assess the feasibility of a greenfield port (Mr Andrew Brown, Dr Tom Shand, Mr Richard Reinen-Hamill, Mr Peter Quilter, Mr Chris Freer, Ms Sarah McCarter, Ms Marie McCarthy, Ms Shannon Wanty, Mr Jaco Valstar, Mr Daniil Popov, Mr Greg Britton, Mr Frans Hoogerwerf, Mr Bas Van Dijk, Dr Alexis Berthot, Dr Sarah Gardiner, Dr Mariana Cussioli, Mr Mark Oxley, Mr Mick Payze, Capt. Gary Neil, Dr Murray Ford) Tonkin & Taylor Ltd New Zealand
14h50 - 15h15	Comparing navigability of the dutch rivers meuse and waal following the pardé-coefficient (Mr Jourian Ligtenberg, Mr Frederik Vinke) Rijkswaterstaat The Netherlands	Transmission characteristics of free surface breakwaters (Mr Stephen Priestley) Beca Ltd New Zealand		Deepening and strengthening of n-berth in the Port of East London (Mr Kaelan Veerasamy) Transnet National Ports Authority South Africa	Dredging in sensitive environmental systems (Mr Alberto Del Pino) Dravo S.A Spain	Improving the accessibility of a port in a complex tidal brackish environment (Dr Oliver Stoschek, Patrick Storz, Horst Nasner, Ulrich Kraus) INROS LACKNER SE Germany
15h15 - 15h45	TEA BREAK					

CONFERENCE DAY 3: WEDNESDAY 01 MAY (CONTINUED)

PARALLEL SESSION K						
15h45 - 16h10	PARALLEL 1K	PARALLEL 2K	PARALLEL 3K	PARALLEL 4K	PARALLEL 5K	PARALLEL 6K
	INLAND NAVIGATION: INLAND NAVIGATION: SHM, SHIFLIFT & GATE VIBRATION Meeting Room: Auditorium 2	PORTS – BREAKWATER/ COASTAL MODELLING Meeting Room: 1.41	PORTS – PLANNING AND DEVELOPMENT Meeting Room: 1.43	PORTS – STRUCTURES Meeting Room: 1.64	ENVIRONMENT Meeting Room: 1.61	PORTS – CLIMATE CHANGE Meeting Room: 2.64
	Structural health monitoring of port and waterways infrastructure: discussing findings of PIANC working group 199 (Dr Brian Eick, Mr Quincy Alexander) Us Army Corps Of Engineers United States	New techniques for the implementation of coastal protection structures: the Porto central hybrid breakwater (Mrs Juliana Jacomini Menegucci, Mr Mauricio Torronteguy, Mrs Michele Patricia de Lorena) Porto Central / MTCN Consulting, Brazil Brazil	Stepwise development approach for exposed berths – Case study Sohar port, Oman (Mr J.M.R. Schmidt, Dr M.P.C. De Jong, Mr R.J. Crowther, Mr T. Al Kiyumi) Sohar Port and Freezone Netherlands	Safety ladders on open quay walls: solving cantilever installation and reducing co2 footprint (Mr Kim Haaning, Mr Bo Kristian Jeppesen) Port-Safety Denmark	Tsunami hazard assessments in ports: case studies from the indian and pacific oceans (Dr Jose Borrero, Prof Patrick Lynett, Mr Wellington Renteria) ORCAS Consulting New Zealand	Global variability of climate change impacts on ports illustrated by assessing twenty major seaports worldwide (Mr Freek Scheel, Mr Martijn de Jong, Mr Wiebe de Boer, Mr Joao Dobrochinski) Delfares, Delft, The Netherlands Netherlands
16h10 - 16h35	PIANC WG 207: Innovations in Shiplifts Navigation Concepts (Dr Gensheng Zhao, Yaan Hu) Nanjing Hydraulic Research Institute China	Research & Development in Berth Scour Protection (Mr Martin Hawkwood, Mr George Michael Hawkwood, Mr Mitchell Furborough) Proserve Ltd United Kingdom	PORTS – OFFSHORE MOORING SYSTEMS New mooring system for GPS wave observation buoys (Dr Muneo Tsuda, Dr Yoshiaki Kuriyama, Mr Yutaka Okazaki, Mr Kiichiro Kozen, Mr Daisuke Tanisada, Dr Tomotsuka Takayama, Mr Shouhei Kaita, Dr Motoki Araki) Coastal Development Institute of Technology Japan	Field test for the consolidation of the existing CDF in Livorno Port (Dr Enrico Pribaz, Dr Pietro Chiavaccini, Dr Andrea Carli, Dr Ilaria Lotti) Autorità di Sistema Portuale del Mar Tirreno Settentrionale Italy	Installation and Effects of Flap Gate-Type Breakwater against Tsunami and Storm Surge (Mr Fumiaki Kakizuka, Dr Yuichiro Kimura, Mr Seiji Mizutani, Mr Turo Yamashita, Mr Masaaki Sasaki, Mr Masayuki Fudo, Dr Kenichiro Shimosako, Dr Akira Nagano, Dr Osamu Kiyomiya) Hitachi Zosen Corporation Japan	Supporting the business case to adapt existing ports to the changing climate (Mrs Jan Brooke) PIANC Permanent Task Group On Climate Change United Kingdom
16h35 - 17h00	Gate Vibrations – Measurements in Nature and Laboratory (Dr Michael Gebhardt, Jennifer Pfrommer, Martin Deutscher, Walter Metz) Federal Waterways Engineering and Research Institute (BAW) Germany			FEA design of vessel blocking plans using engineered materials (Mr Robert Taylor, Mr Keith Mackie, Mr Keith Jones) Bardex Corporation United States	Use of high-strength steel mesh modules as a rational and efficient coastal protection measure (Mr Juan-Louis de Beer, Mr Roberto J. Luis-Fonseca, Mr Julio Prieto Fernández, Mr Mahan Shebani, Mr Peter McCourt, Mr Urs Dornbierer) Geobruigg South Africa	Climate change risk and vulnerability assessment and adaptation strategies for South African ports (Roy van Ballegooyen ¹ , Njabulo Siyakatshana ² , Francios Engelbrecht ³ , Tania Daniels ⁴ , Vishern Beakam ⁵ , Marius Rossouw ¹ , Mohau Mateyisi ² , Chris Troch ² , Nosipho Zwane, Geoff Smith ¹ , and Nelson Mbatha ⁵) ¹ WSP, ² CSIR, ³ University of Witwatersrand, ⁴ South African Weather Service, ⁵ Tranet National Port Authority South Africa

CONFERENCE DAY 4: THURSDAY 02 MAY

PARALLEL SESSION L

08h45 - 09h10	PARALLEL 1L	PARALLEL 2L	PARALLEL 3L	PARALLEL 4L	PARALLEL 5L	PARALLEL 6L
	INLAND NAVIGATION LOCKS Meeting Room: Auditorium 2	PORTS – BREAKWATER/ COASTAL MODELLING Meeting Room: 1.41	PORTS – PLANNING AND DEVELOPMENT Meeting Room: 1.43	PORTS – STRUCTURES Meeting Room: 1.64	ENVIRONMENT Meeting Room: 1.61	PORTS – CLIMATE CHANGE Meeting Room: 2.64
	Ship locks made out of prefabricated concrete elements (Mr Claus Kunz, Mr Stefan Lühr, Ms Jaqueline Schmied, Mr Tobias Zowada, Mr Maximilian Kaiser) Bundesanstalt für Wasserbau Germany	Innovations in berth scour protection for piled quays at Al Faw Grand Port, Iraq (Mr George Hawkswood, Mr Martin Hawkswood, Mr Mitchell Furborough) Proserve Limited United Kingdom	Offshore wind farms – Operability of port facilities and traffic interference (Mr Jose R. Iribarren, Ms Lourdes Pecharroman, Mr Leandro Pires, Mr Raul Redondo, Mr Raul Atienza, Carlos) B. Cal Siport 21 Spain	Quay deepening in Spain: technical practice, strategies and policy (Mr. Manuel Arana) Puertos del Estado Spain	Vessel behaviour under varying environmental conditions in coastal areas (Solange van der Werff) Delft University of Technology Netherlands	Ports adaptation measures to climate change and the increase in ship sizes (Prof Fernando Veloso Gomes) Faculdade Engenharia Universidade Do Porto Portugal
09h10 - 09h35	Pinglu Canal – A new waterway to sea in western China (Mr Peng Wu) CCCC Water Transportation Consultants Co., Ltd. China	PORTS – BREAK-WATER/COASTAL MODELLING Field experiences on innovative solutions against jet propeller actions using rock-filled mattress for scour prevention in harbours (Mr Paolo Di Pietro, Mr Alexander Plastre, Mr Gianluca Brocca) Officine Maccaferri S.p.a. Italy	Digitalization of the Port Infrastructure - Case Study of Baria Serece Port in Vietnam (Mr. Tran Phuc Minh Khoi, Mr. Bui Minh Chung, Mr. Nguyen Van Tan, Assoc. Nguyen Danh Thao) Ho Chi Minh City University Of Technology (HCMUT), VNU-HCM Vietnam	INLAND NAVIGATION: SMART SHIPPING European multimodal transport using inland navigation – Comparing barriers and potential solutions on Rhine and Danube (Bianca Duldner-Borca) University of Applied Science Upper Austria Austria	Navigation risk assessment criteria for offshore wind farms in Estonia (Dr. Inga Zaitseva-Pärnaste ¹ , Mr. Pärtel Keskküla ² , Mr. Kert Süsmalainen ²) Tallinn University of Technology ¹ The Estonian Transport Administration ² Estonia	Climate Change Impact on Ecuadorian Ports: Assessing Damages and Adaptation Strategies (Mr William Jaen) INATEC Ecuador
09h35 - 10h00	Quantifying the system-scale effects of local countermeasures at locks against saltwater intrusion and freshwater losses (Mr Floor Pieter Bakker, Mr Mark Van Koningsveld) Delft University Of Technology The Netherlands	PORTS – OPS/DECARBONISATION Predictive simulation of onshore power supply (OPS) requirements for ports (Mr Raul Redondo, Mr Raul Atienza, Mr Jose Ramon Iribarren, Mr Arturo Medio, Mr Luis Ulla) Siport21, Spain	PORTS – CONSTRUCTION Research on the construction path of zero-carbon ports (Dr Xiaojun Li, Dr Ran Zhou, Dr Lequn Zhu) Tianjin Research Institute For Water Transport Engineering, M.o.f China	Automation of inland ferries in limited fairways (Dr Martin Sandler, Phillip Koschorrek, Rinaf Prezdyakov, Martin Kosch, Michael Maul, Stephan Treibmann) Argonav GmbH Germany	Review of Recent South African Studies of the High-Water Mark (Mr Keith Mackie, Prof Jennifer Whittal) Consultant South Africa	Impacts and Risks of Climate Change to Brazilian Coastal Public Ports (José Gonçalves Moreira Neto) (ANTAQ) ANTAQ Brazil
10h00 - 10h25	Backflow in Downstream of Navigation Shiplock Approaching Channel in Sharp Bends (Dr Gensheng Zhao) Nanjing Hydraulic Research Institute China	PORTS – BREAK-WATER/COASTAL MODELLING “Use at source” model for Green Hydrogen: Decarbonization at the Port of Ngqura (Ms Mottatso Molapo) Transnet National Ports Authority South Africa	Various problems on executing port building projects in Africa (Mr Masatoki Nakanishi, Dr Aykut Pamuk, Mr Damian Romaniak, Mr Yuki Nomoto) Oriental Consultants Global Japan	Examining the Impact of Mobile Modular Terminals on Barge Congestion in European Seaports (Mr Cyril Alias, Mr Jonas zum Felde, Mr Bengt Ramne, Mr Edwin van Hassel) DST - Development Centre for Ship Technology and Transport Systems Germany	Derivation of Tropical Cyclone Generated Waves on East Coast of Oman for Design Conditions (Mr Marius Rossouw, Mr Gert Jacobs, Mr Marthinus Relief) WSP South Africa	Solutions for addressing climate change in existing ports (Zukiswa Mpama) Transnet South Africa
10h25 - 10h50	Rehabilitation of inland waterway lock and operational impact (Ooigem - Canal Lys Roeselare - Belgium) (Mr Bart Callaert, Mr Robin Timmermans, Mr Lieven Dejonckheere, Mr Peter De Meyer, Mr Gorik Noynaert) DVW - Flemish Waterways Belgium		Port construction in the open mediterranean sea under adverse conditions: Hadarom Port, Israel (Dr Ran Tao, Dr Ruiyi Huang, Dr Wenyuan Wang, Dr Yun Peng) China Communications Construction Company Ltd. China	Cyclic conditions and impact on marine fenders (Mr Marco Gaal) Trelleborg The Netherlands	Approaches for conservation and restoration of coastal seaweed beds that contribute to CO2 Sequestration (Daiki Yasuda) Fisheries Agency of Japan Japan	
10h50 - 11h20	TEA BREAK					

CONFERENCE DAY 4: THURSDAY 02 MAY (CONTINUED)

PARALLEL SESSION M						
11h20 - 11h45	PARALLEL 1M	PARALLEL 2M	PARALLEL 3M	PARALLEL 4M	PARALLEL 5M	PARALLEL 6M
	INLAND NAVIGATION: SUSTAINABILITY Meeting Room: Auditorium 2	PORTS – GREEN ENERGY Meeting Room: 1.41	PORTS – CONSTRUCTION Meeting Room: 1.43	PORTS – FENDERS Meeting Room: 1.64	ENVIRONMENT Meeting Room: 1.61	PORTS – SHIP LIFTS AND DRY DOCKS Meeting Room: 2.64
	Harnessing the Power of Inland Waterways: A Case Study on Sustainable Urban Logistics in Amsterdam (Dr Nadia Pourmohammadzia, Prof. Mark van Koningsveld) TU Delft The Netherlands	Design for ports in transition – new LNG deep water berth at Rostock port (Mr Torsten Retzlaff) Inros Lackner SE Germany	Innovative methods in construction of docks of Puerto Capurro, Montevideo, Uruguay (Prof Jose Zorrilla, Marcelo Zeballos, Carlos Gerbaudo) Ing. Jose M. Zorrilla Uruguay	Comparison between evaluation of performances of fenders and elastomeric seismic isolators: methodologies, similarities and perspectives (Dr Daniele Cuminetti, Dr Giacomo Vazzana) Material Testing Laboratory, Politecnico di Milano Italy	Wave forces on lock and barrier gates; selecting the best formula for different sea states and gate geometries (Mr Henry Tuin, Mr Cornel van Zaal, Mr Ermanno De Almeida, Mr Kasper Stoeten) Arcadis The Netherlands Netherlands	Hydrodynamic characteristics of hydro-floating ship lift carrying 2x1000t vessels (Prof. Ya'an Hu, Dr Shu Xue, Dr Bo Wu) Nanjing Hydraulic Research Institute China
11h45 - 12h10	Can't you add some sensors? Riskanalysis of inland waterway infrastructure on the interface between disciplines (Mr Michiel Coopman) De Vlaamse Waterweg Belgium	Adapting African ports for LNG and green fuel handling and transport (Dr Gary Mocke, Mr Jesper Damgaard) Comareng Advisory South Africa	Revolutionizing Port Infrastructure Construction in Remote Areas of Africa: Introducing a Portable Floating Piling Machine (Mr Francisco Sarrias) Msi - Marina System Iberica SI Spain	LRFD load factors for fenders in the upcoming ASCE Design of Piers and Wharves Standards (Mr Rune Iversen) Simpson Gumpertz & Heger United States	Port Electrification for Container Operations and Vessels Through Masterplan (Rodrigo Muricy) WSP United Kingdom	Practical Issues in the Design of Dry Docks and the Dry Docking of Ships (Mr Keith Mackie, Mr Robert Taylor, Mr Keith Jones) Consultant South Africa
12h10 - 12h35	Digital Testbeds on German Waterways (Mr Nils Braunroth) Federal Ministry for Digital and Transport Germany	Stockholm Norvik Port – a carbon dioxide hub in the Baltics – infrastructural challenges (Mr Mattias Sandell) Ports Of Stockholm Sverige	Casting of submerged Concrete in deep Water (Mr Svein Ove Nyvoll) Nyvoll Consult AS Norway	Analysis of the differences between rated and experimental performance of dock fenders (Dr Giacomo Vazzana, Dr Daniele Cuminetti) Material Testing Laboratory of Politecnico Di Milano University Italy	Green Maritime Fuels Export Potential from South African Ports (Mr Tauqeer Ahmed, Mr Thomas Roos, Mr Yasheel Sheochand, Ms Amanda Makgoga, Ms Maxine Jacob, Ms Aradhna Pandaram) Transnet National Ports Authority South Africa	Can changes to the design code improve the performance of wire rope shiplifts? (Mr Robert Taylor, Mr Keith Mackie, Mr Keith Jones) Bardex Corporation United States
12h35 - 13h35	LUNCH BREAK					

CONFERENCE DAY 4: THURSDAY 02 MAY (CONTINUED)

PARALLEL SESSION N						
13h35 - 14h00	PARALLEL 1N	PARALLEL 2N	PARALLEL 3N	PARALLEL 4N	PARALLEL 5N	PARALLEL 6N
	INLAND NAVIGATION: PLANNING AND MANAGEMENT AND SHIFLIFT INNOVATION Meeting Room: Auditorium 2	PORTS – GREEN ENERGY Meeting Room: 1.41	PORTS – CONSTRUCTION Meeting Room: 1.43	PORTS – FENDER Meeting Room: 1.64	ENVIRONMENT Meeting Room: 1.61	INLAND NAVIGATION: AFRICAN RIVERS DEBATE Meeting Room: 2.64
	Hydrodynamic characteristics of hydro-floating ship lift carrying 2x1000t vessels (Shu Zue) Nanjing Hydraulic Research Institute China	Princess Elisabeth Island, the world's first offshore energy island (Dr Koen Van Doorslaer, Arvid Koen Van Doorslaer, Pierre-Yves Guillermin, Marc Brouwer, Eelco Bijl) DEME Belgium	Sustainable port pavements with steel fibers (Steven Pouillon) NV Bekaert Belgium	Establishment of rubber fender test environment investigation and certification program (Dr Seigi Yamase, Mr Hiroshi Yoshinaga, Dr Satoru Shiraishi, Dr Haruo Yoneyama), Specialists Centre Of Port And Airport Engineering Japan	Coastal risk management in the makran coastal zone: a case study (Dr Sahar Mokhtari, Dr Mohammad Mokhtari) Ports & Maritime Organization of Iran Iran	
14h00 - 14h25	Introducing new waterborne container transport services into existing transport planning and monitoring practice (Mr Cyril Alias, Mr Jonas zum Felde) DST - Development Centre for Ship Technology and Transport Systems Germany	Low-carbon hydrogen maritime transportation by containers is ready to enable the energy transition (Dr Nikolay Kuptsov) Gazprom Neft Russian Federation			Green Maritime Fuels Export Potential from South African Ports (Mr Tauqeer Ahmed, Mr Yasheel Sheochand, Mr Mpho Ramuhulu) Transnet National Ports Authority South Africa	
14h00 - 14h25						
14h30 - 16h00	CLOSING PLENARY A: IADC Award B: Working with Nature Award C: YP Award D: Announcement of location of next World Congress					
19H00 - 23H00	GALA DINNER					

DAY 5: FRIDAY 03 MAY

08h00 - 16h00

TECHNICAL TOURS