

PIANC Congress Preliminary Technical Session Schedule															
Day/Time	Track A			Track B			Track C			Track D			Track E		
Monday Session 1 10:30 to 12	Port Engineering & Infrastructure I Session Chair: Geoffrey Caude, FRA			Habitat & Wildlife Protection, Mitigation and Restoration I Session Chair: Harald Koethe, Germany			Dredging I Session Chair: Bill Hanson, USA			Advances in Information & Communications Technology I Session Chair: Helen Brohl, USA			Climate Change Impacts and Adaptation I Session Chair: Todd Bridges, USA		
	A Study on Subsidence of Breakwater on Sandy Ground During Strong Earthquake Motion	Ohya, Yousuke	Japan	Examples and Experiences with PIANC Working-with-Nature Database and Prize Awarding	Fuchs, Elmer	Germany	Early Contractor Involvement Improves Complex Projects	Kolman, Rene	Netherlands	Marine Transportation System Travel Time Analysis via Automatic Identification System Data	DiJoseph, Patricia	United States	An Innovative Approach to Risk and Vulnerability Assessment and the Definition of Appropriate Response Strategies to Assist Decisions of Adaptation to Imminent Climate Change Scenarios in Coastal Ports and Cities in Developing Countries.	Barwell, Laurie	South Africa
	Design Aspects of the Breakwater for the New LNG Terminal in Montevideo	Sas, Marc	Belgium	Ecological Connectivity in German Waterways: A Challenge in Multiple Used Rivers	Scholten, Matthias	Germany	Prediction Tools are of Utmost Importance in Severe Dredging Conditions	van Woerden, Dingeman	Netherlands	River Information Services (RIS) in Germany	Braunroth, Nils	Germany	Application of a Tiered Approach to Sea Level Change at Corps of Engineers Navigation Projects	Moritz, Heidi	United States
	Interlocking Versus Non-Interlocking Block-Placed Revetments - Comparison of Stability Performance	Schüttrumpf, Holger	Germany	Evaluating Response of Animals to Managed Infrastructure	Goodwin, R. Andrew	United States	Research on Dredging Methods after the Trial Run of Yangtze River Electronic Navigation Chart (Version 2.0)	Liu, Lin	China	Use of Automatic Identification System (AIS) Capabilities to Improve Inland Waterway Operations	Tetreault, Brian	United States	Climate Risk Assessment for Ports and Connect Infrastructure: Case Study Avatiu Port, Rarotonga, Cook Islands	Cox, Ron	Australia
	Stability Study on the Part Safety Risk of Breakwater	Liu, Haiyuan	China	Evaluation of Structural Alternatives for Protection of Wetlands at Braddock Bay, NY	Demirbilek, Zeki	United States	Evaluation of the Impact on St. Johns River Circulation and Salinity For the Jacksonville Harbor Deepening Project	Liu, Xiaohai	United States	VisuRIS in practice	Creemers, Piet	Belgium	Mitigating the Risks: How Ports Can Proactively Address Climate Change Vulnerabilities in their Planning Processes	Daugherty, Douglas	United States
Lunch															
Monday Session 2 - 1:30 to 3	Port Engineering & Infrastructure II Session Chair: Francisco Lefler, Spain			Habitat & Wildlife Protection, Mitigation and Restoration Session Chair: Susan Reese, USA			Dredging II Session Chair: Coraggio Maglio, USA			Locks I Session Chair: Philippe Rigo, Belgium			Opportunities in the Arctic Session Chair: Peter Noble, USA		
	New PIANC Guidelines for Design of Berthing Structures, Related to Thrusters	Sas, Marc	Belgium	Monitoring, Assessment and Remediation of Elevated PCB Levels at a Deepwater Dredged Material Disposal Site	McArthur, Christopher	United States	The Processing and Beneficial Use of Fine-Grained Dredged Material: A Manual for Engineers	Sarmad, Abbas	United States	Innovative Methods to Repair Fatigue and Fracture Problems of Hydraulic Steel Structures	Riveros, Guillermo	United States	Economic Feasibility of Container and Finished Vehicle Transport by Arctic Shipping	Furuichi, Masahiko	Japan
	Berthing Velocities of Ultra Large Container Vessels	Hein, Christian	Germany	Practice-Oriented Research on the Estuary of the River Elbe (Germany): Opportunities to Advance WwN Approaches	Schröder, Uwe	Germany	New Dredged Slurry Treatment Technology using Direct Vacuum Preloading	Mingqiao, Fan	China	Lock Machinery and Equipment Lubrication - Design Issues and Recent and Emerging Trends	Paulus, Timothy	United States	The Melting Arctic Ocean: Shipping in the New (and Final) Frontier	Knight, Kevin	United States
	Characteristics of Measured Berthing Velocity and the Application for Fender Design of Berthing Ships	Kentaro, Shimizu	Japan	Reflections on a Multidisciplinary, Multiagency, Stakeholder- Sponsored Strategy to Address the Scientific Underpinnings of Environmental Work Windows	Brostoff, William	United States	Sediment Disposal from a Split Barge: Effects of Particle Size and Opening Aspect Ratio	Er, Jenn Wei	Singapore	Similar Simulation Technology and Its Application of Hydro-floating Ship Lift's Mechanical Synchronization System	Chen, Yingying	China	Navigation in the Arctic Frontier - A Primer	Noble, Peter	United States
	Velocity and Temperature Factor	Hepworth, Richard	United Arab Emirates	Wetlands Treatment of Raw Dredge Effluent to Facilitate Dredged Sediment Beneficial Use at Fifi Island, Louisiana, USA	Corbino, Jeff	United States	Study on Sedimentation Control before the Weir of Dayuandu Navigation and Hydropower Project	Wong, Joan	China	Simulation Analysis of Ship Locks with Double-Hinged Soleplate and Asymmetric Lock Wall	Rui, Zhang	China	The Arctic Ecosystem - Hostile Yet Fragile	Soles, Peter	United States
Break															
Monday Session 3 3:30 to 5	Coastal Engineering for Maritime Applications I Session Chair: Richard Powell, USA			Habitat & Wildlife Protection, Mitigation and Restoration III Session Chair: Tiedo Vellinga, Netherlands			Dredging III Session Chair: Linda Lillycrop, USA			Locks II Session Chair: Craig Philip, USA			Climate Change Impacts and Adaptation II Session Chair: Heidi Moritz, USA		
	Cruise Ship Maneuvering and Berthing at Pier 27 Cruise Terminal, San Francisco, CA	Fenical, Scott	United States	An Approach for Addressing Dredging Impacts on Aquatic Biota: Case Studies for Setting and Revising Environmental Windows	Suedel, Burton	United States	A New Disposal Strategy in the Westerschelde, Conciliating Port Accessibility and Nature: Preliminary Results after 3 Years since the Start of the Execution of the Navigation Channel Enlargement	Plancke, Yves	Belgium	PIANC Working Group 155: Ship Behavior in Locks and Lock Approaches	Thorenz, Carsten	Germany	Assessing the Impacts of Climate Change on Navigation and Waterways in Germany: Support for Management Decisions	Kofalk, Sebastian	Germany
	Port of Haifa Expansion Wave, Mooring and Downtime Studies	Fassardi, Claudio	United States	Coral Relocation For Conservation, Restocking and Development of Marine Environment in Chabahar Bay, Iran-Oman Sea	Ajdari, Daniel	Iran	Dredged Sediment Management in the San Francisco Bay: Overview of the Long-Term Management Strategy Program	Chamberlin, Katie	United States	Mooring Forces in an Inland Navigation Lock: Experimental Investigation	Bousmar, Didier	Belgium	Port Air Emissions and Vessel Speed Reduction Program Evaluation	Lindhjem, Chris	United States

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Session 3 3:30 to 5	Role of Physical Modeling in Developing a New Cruise Ship Terminal at an Exposed Site	Cornett, Andrew	Canada	Utilizing the Full Potential of Dredging Works: Design, Construction and Monitoring Process of an Ecologically Enriched Sand Extraction Site	Rijks, Daan	Netherlands	Present State of Maintenance of Port and Harbor Facilities in Japan	Nogami, Shuji	Japan	Simplified Seismic Analysis of Lock Gates	Bulden, Loc	Belgium	Resilience of Waterway Systems in a Changing World	Hijdra, Arjan	Netherlands
	Temporary Works for Port and Marine Infrastructure	Madsen, Peter	Australia	Working with Nature - Western Kentucky and Mississippi River Project	Coradini, Lena	United States	Measuring Ecological Benefit from Dredged Material Management	Childs, John	United States	USACE Guidance and Software Tools for Barge Impact Analysis of Inland Navigation Structures	Patev, Robert	United States	Sustainable Infrastructure for Ports	Taneja, Poonam	Netherlands
Tuesday	Port Engineering & Infrastructure III Session Chair: Hartmut Bruehl, GER			Advances in Information & Communications Technology II Session Chair: Jim McCarville, USA			Dredging IV Session Chair: William Brostoff, USA			Panama Canal Session Chair: Nick Pansic, USA			Lifecycle Asset Management: Coping with Aging Infrastructure I Session Chair: Anne Cann, USA		
Session 4 - 8:30 to 10	Berth Scour Protection for Modern Vessels	Hawkswood, Martin	United Kingdom	FEWS-Waterways: Tool for Sharing Data between Inland Navigation Stakeholders	Verheij, Henk	Netherlands	Beneficial Reuse of Navigation Channel Dredged Material Using Geotextile Tube Technology For Construction of A Container Port	Stephens, Tom	United States	Enabling Global Trade Opportunities From Panama	Dominguez, Antonio	Panama	National Asset Management Process for Coastal Navigation Structures	Domurat, George	United States
	Field Tests and Analysis of Propeller Scour Along A Quay	Roubos, Alfred	Netherlands	Pilot Water Depth Measurements by the Commercial Fleet	van Wirdum, Meeuwis	Netherlands	Construction Challenges in Coastal Restoration Projects	Hanson, Bill	United States	The Panama Canal Expansion Impact on World Transportation Infrastructure	Bazan, Oscar	Panama	Port of Melbourne Corporation's Strategic Asset Management Odyssey	LoBianco, Domenic	Australia
	Marine Logistics for Constructing a LNG Export Facility	Erickson, Bradley	United States	River Information Services are Reaching the users: Latest Services for Skippers	Troegl, Juergen	Austria	Izmir Bay Dredging	Esen, Mustafa	Turkey	Innovations in Large-Scale Civil Works Design/Build: The Third Set of Locks Experience	Newbery, Michael	United States	Proactive and Predictive Waterfront Asset Management: Port of Rotterdam Experience	Voogt, Henk	Netherlands
	Masterplan for LNG as Fuel and Cargo on the Danube	Schauer, Oliver	Austria	The Design and Practice of Marine Communication and Navigation System for Deep-water Channel in the Estuary of Changjiang River	Yang, Jianyun	China	The History of Progress and Future of Dredged Material Reuse in San Francisco Bay	Johneck, Ellen	United States	Climate Change Adaptation in Panama Canal	Acciaro, Michele	Germany	Waterborne Transport: "Keep Them Sailing without Delay"	Weick, Jan	Belgium
Break															
Tuesday	Port Engineering & Infrastructure IV Session Chair: John Headland, USA			Systems Approach to Operational Management Session Chair: Rene Kolman, NLD			Dredging V Session Chair: Bob Engler, USA			Advances in Information & Communications Technology III Session Chair: Louis van Schel, Belgium			Climate Change Impacts and Adaptation III Session Chair: Ron Cox, Australia		
Session 5 - 10:30 to 12	Design and Construction of New Breakwaters, Present Experience in Spain	Arana, Manuel	Spain	Dredged Material Management Plan Atlantic Intra-coastal Waterway	Brownell, Lori	United States	Developing a Regional Sediment Budget with GenCade and the Sediment Budget Analysis System	Frey, Ashley	United States	The Corps of Engineers Inland Electronic Navigational Chart Program	Mann, Robert	United States	Approaching Emissions in Dredging	Ooijens, Sergio	Netherlands
	The Design Theory and Application of the Bucket-Based Structure in Silt Coast	Wu, Li	China	IMDC Waterways: A Design Tool Tailored to the Need of Integrated Design of Waterway Infrastructure	Adams, Roeland	Belgium	Full Scale Agitation Dredging and Sedimentation Reduction of Experiments in the Port of Rotterdam	Staelens, Peter	Belgium	Design and Implementation of Intelligent Computer-Aided Decision-Making System in Controlled Waterway of Yangtze River	Guo, Tao	China	Enterprise Asset Management among North American Public Ports	Stromberg, Eric	United States
	Vertical Breakwater with Double Crown Wall: Blanes Port Experience	Olalla, Eloy	Spain	Regional Dredging Planning Optimization: Application of the D2M2 Model to the Long Island Sound Region	Bates, Matthew	United States	Morphological Changes on the River Danube on the Catchment Scale	Kéri, Barbara	Austria	Virtual Navigation for Inland Vessels on Waterways	Lutz, Alexander	Germany	Integrative Framework for Long-Term Re-Investment Planning for the Replacement of Hydraulic Structures	Bernardini, Patrizia	Netherlands
	P3 Concept for an Integrated New York Bight Storm Surge Barrier & Transportation System	Berner, Dale	United States	Research on the Computing Methods of Regulation Width of the Waterway in the Han River, China	Zhang, Jun-hong	China	The Changing Face of Sediment Assessment and Management - Emerging Trends	Moore, David	United States	Research and Development on Electronic Navigational Chart System and Its Application in Changjiang Inland Water Transport	Yang, Baocen	China	Port of Redwood City New Wharf and Climate Change Considerations	Trenkwalder, Ted	United States
Lunch															
Tuesday	Port Engineering & Infrastructure V Session Chair: Marco Pluijm, UK			Green Infrastructure & Practices 1 Session Chair: Paris Sansaglou, Belgium			Dredging VI Session Chair: Burton Suedel, USA			Inland Waterways Session Chair: Yves Morin, France			Global Issues: Partnering Session Chair: Harald Koethe, Germany		
Session 6 - 1:30 to 3	A Fast, User-friendly, 3-D Potential Flow Program for the Prediction of Passing Vessel Forces	Pinkster, Johannes	Netherlands	Green Marine Construction: The Eco-Design of Marine Infrastructures	Pioch, Sylvain	France	Coastal Protection at the Belgian North Sea Coast: A comparison of sand-supply strategies	Malherbe, Bernard	Belgium	Update PIANC-INCOM WG 141: Design Guidelines for Inland Waterways	Soehngen, Bernhard	Germany	Presentation of ENVICOM WG136 Report	Scherrer, Paul	France
	Full Scale Measurements of Passing Ship Effects on Moored Vessels	van den Boom, Henk	Netherlands	Sustainable Development of Navigation Infrastructure through Engineering With Nature	Bridges, Todd	United States	Numerical Modeling of Sediment Dispersal Following Dredge Material Placements to Examine Possible Augmentation of the Sediment Supply to Marshes and Mudflats, San Francisco Bay, USA	Bever, Aaron	United States	New Directions and Challenges for the Inland Navigation in Brazil	Garcia, Luiz	Brazil	Prediction on Designed Water Level for Navigation in Middle Reach of the Yangtze River	Feng, Xiaoxiang	China

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Session 6 - 1:30 to 3	Loads on Moored Ships Due to Passing Ship Events in a Straight Harbor Channel	Bliek, Bram	Netherlands	Sustainable Ports: Green Growth as an Economic Driver	Vellinga, Tiedo	Netherlands	Sediment Management at St. Joseph River and Harbor, Michigan, USA, 1836-present	Selegean, James	United States	Evaluation of a One-Year Operational Profile of a Danube Vessel	Schweighofer, Juha	Austria	Review of Alternatives to Reduce Shoaling in the Gulf Intracoastal Waterway and Prevent Erosion of Barrier Islands along the North Shoreline of West Galveston Bay - Regional Sediment Management Evaluation USACE	Maglio, Coraggio	United States
	ROPES; Joint Industry Project on Effect of Passing Ships on Moored Vessels	van den Boom, Henk	Netherlands	The New Orseoi Marina: An Example of Green Infrastructure	Ritossa, Andrea	Italy	The USACE Regional Sediment Management Program: Overview and Case Studies of Successful Implementation	Lillycrop, Linda	United States	Real-time Navigation Simulations for Improving Navigation on Existing Waterways: River Meuse in Belgium	Bousmar, Didier	Belgium	From Mudlock to Effective Collaboration: How a Small Non-Governmental Organization Played an Instrumental Role in Shaping Dredging Policy in the San Francisco Bay Area	Coleman, John	United States
Break															
Tuesday	Port Engineering & Infrastructure VI Session Chair: Marco Pluijm, UK			Green Infrastructure & Practices 2 Session Chair: Jeff Corbino, USA			Sedimentation and Sediment Management in Waterways I Session Chair: Matthew Bates, USA			Locks III Session Chair: Tim Paulus, USA			Safety, Security & Risk Management Session Chair: Yves Morin, France		
Session 7 - 3:30 to 5	Coupled Real-Time Ship Maneuvering and CFD Calculation of Passing Ship Hydrodynamic Forces	Fenical, Scott	United States	Application of Granulated Coal Ash for Organic Polluted Seabed	Oda, Katsuya	Japan	A Study of Maintenance Management Model of Yangtze River Waterway Based on the Ecological Civilization	Li, Xue Xiang	China	Optimum Volume of Grating Energy Dispersal Chamber of Short Culvert System for a Lock Filling System	Chen, Ming	China	PIANC WG 140, Semi-Probabilistic Design of Hydraulic Inland Structures	Kunz, Claus	Germany
	Numerical and Physical Modelling of Passing Ship Interaction with Capesize Vessels	Hall, Erin	Canada	Environmentally-Friendly and Economical Burlap Containment	Lovelace, Nathan	United States	Mud Research to Optimize the Dredging Strategy in the Deurganckdok in the Port of Antwerp	Ides, Stefaan	Belgium	Simplified Numerical Modeling of a Navigation Lock Leveling with a Ship in the Lock Chamber	Christiaens, Damien	Belgium	Asset Risk Management of Bulk Materials Handling Equipment	Morgan, Richard	Australia
	Passing Ship Effects in Complex Geometries and Currents	van der Hout, Arne	Netherlands	Material Performance of "Environmentally Active Concrete" Contained Amino Acids in Water	Nishimura, Hirokazu	Japan	Pro-Active Adaptive Management of Sediment Redistribution in the Julianakanaal, the Netherlands	van der Hoeven, Ties	Netherlands	Tie-Up Wall Reconstruction Program for the Welland Canal, Ontario, CA	Miles, William	United States	Risk Assessment of the Carriage of Yellow Phosphorus by Inland Waterways in China	Jiang, Wenxin	China
	The Effect of Berthed Ship Near Bank Batter Angle and Offset on Berthed Ship: Passing Ship Interaction	Denehy, Shaun	Australia	Planning Sustainable Marinas: The Social Dimension of Sustainability	Biondi, Esteban	United States	Simulation Model for Sedimentation and Navigation of Ferry in Harbor Mouth	Gretarsson, Sigurdur	Iceland	Uses of Composites in Navigation	Clarkson, John	United States	Tsunami Evacuation Behavior Analysis of Large Vessels in Kashima Port	Matsuda, Nobuhiko	Japan
Wednesday	CoCom Sedimentation Session Chair: Akula Rao, India			Green Infrastructure & Practices 3 Session Chair: David Moore, USA			Sedimentation and Sediment Management in Waterways II Session Chair: John Childs, USA			Inland Waterways II Session Chair: Eric Johnson, USA			Passenger Vessel, Cruise and Ferries Session Chair: R. Andrew Goodwin, USA		
Session 8 - 8:30 to 10	Coastal Erosion Mitigation Guidance for Countries in Transition Prepared by PIANC CoCom Working Group 2	Mangor, Karsten	United States	Quantifying Resilience of an Interconnected Navigation Channel and Beach System	Rosati, Julie	United States	Computer Simulation of the Approach Channel of Kyung-In Harbor for Investigating Sediment Transport	Kwak, Moonsu	South Korea	Asset Management Organization and Policies for Inland Waterways	Hartl, Thomas	Austria	3D Physical Model of the Central Piraeus Port Expansion	Giantsi, Theodora	Greece
	A Study on Major Technical Problems Encountered During the Construction of the Deepwater Channel in the Lower Reach of the Changjiang River Downstream of Nanjing	Xu, Yuan	China	San Pedro Bay Ports Clean Air Action Plan	DeMoss, Tim	United States	Investigation of Anzali New Breakwaters Construction on Sediment Transport Regime	ShoushtarizAdeh Naseri, Ali	Iran	Design and Calculation of Inland Retaining Wall Structure with Pile Foundation	Yang, Jie	China	Alaska Ferry Allison Analysis in Wrangell Narrows	Srivastava, Siddharth	United States
	Case Studies of Optimizing Channel Profile in Port Design	Scott, Douglas	Canada	Sustainable Passenger-Only Fast Ferry Operations in a Wake Sensitive Waterway	Cote, Jessica	United States	Research on the Changes of Water and Sediment Conditions in Middle Reaches of Yangtze River after Three Gorges Reservoir Impoundment	Liu, Lin	China	Innovations for River and Canal Crossings: Aqueducts Using Underwater Construction and Off-Site Prefabrication	Gall, Willem	Netherlands	Golden Gate Bridge Ferry System Terminal Rehabilitation Planning	Jensen, Bo	United States
	Masterplans for the Development of Existing Ports	Rustell, Michael	United Kingdom	Using Shore-Power for Hotelling Ocean Going Vessels in China: Problems and Opportunities	Peng, Chuansheng	China	The Study on Siltation Process of the Yangtze Estuary North Passage 12.5m Deepwater Channel During Flood Season	Ji, Lan	China	Towards Short-Term Collision Detection on Inland Waterways based on Position, Navigation and Timing Data	Born, Alexander	Germany	Transformation of Old Pier 27/29 to New Cruise Terminal	Fatehi, Hamid	United States
Break															

Day/Time	Track A			Track B			Track C			Track D			Track E		
Wednesday Session 9 - 10:30 to 12	Maritime Port & Terminal Planning & Operations Session Chair: Mike Leone, USA			Green Infrastructure & Practices 4 Session Chair: Kelly Barnes, USA			Deep Draft Navigation and Waterways I Session Chair: Brian Tetreault, USA			Advances in Information & Communications Technology IV Session Chair: Doug McDonald, USA			Marina Planning & Design Session Chair: Elio Ciralli, Italy		
	PIANC WG 135 - Design Principles for Small and Medium Marine Container Terminals	Steele, George	United Kingdom	Evaluating Ship Oil Spill Risk in Harbor Using Fuzzy Comprehensive Evaluation Model Based on Combination Weight Method	Zhou, Ran	China	Development of a Sediment Management Tool for Navigation Channel Maintenance	van der Mark, Caroline	Netherlands	Communication about and on Behalf of Inland Navigation in a Complex European Stakeholders Setting, Based on the Lessons Learned from an Integrative Approach of Stakeholder Workshops and Participation Models	Masliyah-Gilkarov, H�el�ene	Austria	Guidelines for Marina Design: The interim Result of WG149	De Jong, Michiel	Netherlands
	Analysis on Changes of Container Market Share among Central American Ports Caused by Salvadoran Port Development	Lacayo, Milton	El Salvador	How to Ensure Long-Term Payback from Large Sediment Remediation Investments: The Need for a Blue-Green Strategy for the Oslo Harbor.	Petersen, Arne	Norway	Novel Sediment Profiler for Preparing and Evaluating Dredging Works and Determining the Nautical Depth	Geirnaert, Koen	Belgium	Data Integration, Analysis, and Quality Assurance for Waterborne Commerce Statistics	Smith, James	United States	Comparison of Breakwater Technologies for Small Boat Harbors	Sampath, Ajay	United States
	Design and Maintenance of Port Pavements in Container Terminals	Knapton, John	United Kingdom	Seismic Risk Assessment of Seaports Using GIS Technology: The Port of Gioia Tauro Case Study in Southern Italy	Bozzoni, Francesca	Italy	Sediment Resuspension and Seabed Scour in Ports induced by Propeller Wash	Stoschek, Oliver	Germany	Implementation of a Data Integration Framework Within the US Army Corps of Engineers Navigation Business Line	Lillycrop, Jeff	United States	Highlights of the 2012 ASCE Planning and Design Guidelines for Small Craft Harbors	Klancnik, Fred	United States
Methodology to Maximize the Profitability of a Container Shipping Terminal through the Optimization of its Level of Automation	Moreno, Cesar	Spain	Strategic Management of Ports and Shipping during a Resources Boom in the Multi-Use Great Barrier Reef World Heritage Area	Gilbert, Rean	Australia	Significance of Fluid Mud Properties in Nautical Depth Estimation	Mehta, Ashish	United States	PNT-Unit: A Step Towards High Integrity Navigation	Herrera-Pinz�n, Iv�n	Germany	Planning, Design and Construction of an Island Style Breakwater to Emulate Nature	Cox, Jack	United States	
Lunch															
Wednesday Session 10 - 1:30 to 3	Port Engineering & Infrastructure VII Session Chair: Ronald Stives, Netherlands			Innovative Investment in Infrastructure Session Chair: Kevin Knight, USA			Deep Draft Navigation and Waterways II Session Chair: Thomas D. Smith, USA			Inland Ports & Terminals I Session Chair: Robert Pietrowsky, USA			Urban & Recreational Waterfronts I Session Chair: Jack Cox, USA		
	Analysis on Damage at Fishing Ports in Great East Japan Earthquake	Kaneda, Takuya	Japan	Be Smart and Sustainable - A Full Life-Cycle Approach to Fuel Economy Applied to Dredging Vessels	De Cuyper, Jean-Baptiste	Belgium	A Study on the Functional Modification of the Funan Passage in the Lower Reaches of the Yangtze River and the Layout of Port Water Area	Xu, Yuan	China	Corridor Management on Inland Waterways in Europe: An Essential Step to Synchronicity	Bosma, Anneke	Netherlands	Adaptable Land Development Jakarta Bay	Hoynq, Claartje	Indonesia
	Damages to Quay Wall Structures in Port Area During the 2011 Off the Pacific Coast of Tohoku Earthquake	Kohama, Eiji	Japan	Deployment of LNG as Alternative Fuel for a Sustainable European Transport System	Pfliegl, Reinhard	Austria	Dredging for Improved Vessel Performance: a Quantitative Analysis of AIS Data.	Scully, Brandon	United States	European Container Growth and the Challenge for Dutch Inland Navigation	de Mol, Frans	Netherlands	San Francisco Waterfront Development Projects: An Adaptation Strategy	Trivedi, Dilip	United States
	Reconstruction of Fishing Ports Damaged by 2011 Great East Japan Earthquake, and Earthquake and Tsunami Protection Measures	Nakamura, Takashi	Japan	LNG Masterplan: Building a New Pioneer Market and LNG aAtery for Europe	Karpatyova, Lucia	Austria	Jacksonville Harbor Deepening Project Impact on Circulation and Salinity in St. Johns River and Tributaries	Kabiling, Michael	United States	Intermodal Port Operations in Gabon	Thomet, Michel	United States	Structural Improvements to Chattanooga's Ross's Landing Riverfront Park	Garza, Dan	United States
Performance of Marine Oil and Fueling Terminals Impacted by the Tsunami & Hurricane Storm Surges	Bruin, William	United States	Trends in Energy and Carbon Management at Ports	Wartian, Matthew	United States	Optimization of Tidal Windows for Deep-Drafted Vessels by Means of a Probabilistic Approach Policy for Access Channels with Depth Limitations	Vantorre, Marc	Belgium	Romanian Navigation Infrastructure as Part of an Integrated Transportation System	Ciortan, Romeo	Romania	The Regeneration of South Quay, Hayle Harbour	Brenton, Paul	United Kingdom	
Break															
Wednesday Session 11 - 3:30 to 5	Port Engineering & Infrastructure VIII Session Chair: Abbas Sarmad, USA			Port and Maritime Navigation Session Chair: Nathan Lovelace, USA			Deep Draft Navigation and Waterways III Session Chair: Patricia DiJoseph, USA			Locks IV Session Chair: Fred Joers, USA			Urban & Recreational Waterfronts II Session Chair: Bob Nathan, USA		
	Fagervika-Trondheim Harbor, Norway. Remediation of Geotechnical Sensitive Areas	Moseid, Mari	Norway	International Marine Terminal Expansion Project	Chin, Eric	United States	Development of the Port of Bahia Blanca (Argentina). Design of Dredging Works and Traffic Analysis	Groeneweld, Rink	Netherlands	Standardization in Navigation Lock Construction for German Waterways	Wachholz, Thilo	Germany	Bahia Urbana: Overcoming Structural Engineering Challenges for Successful Port Redevelopment; San Juan, Puerto Rico	Armbruster, Jonathan	United States
	Technical and Economic Aspects of Prevalent Ground Improvement Techniques in Romanian Waterfront Projects	Tsitsas, George	Romania	The Development Tend of the Container Terminal with Automation, Energy-Saving and Low-Carbon	Hu, Jun	China	Engineering with Nature to Mitigate Jacksonville Harbor Crosscurrents, Restore Marshes, and Improve Flows	Powell, Richard B.	United States	Superposition of Lock Generated Waves in the Seine-Scheldt-East Network in Belgium	Swartenbroeckx, Catherine	Belgium	Masterplan Scheldt Quays Antwerp, Construction, Lifecycle and Problem- Solving for Historical Quay Wall Built on Boom Clay	Segher, Koen	Belgium
The Use of Engineered Sediments for the Construction of a Compartment Dyke in the Controlled Flooding Area Vlassenbroek	Van Zele, Sofie	Belgium	The Importance of Metocean Conditions in Discrete Event Simulations for Port Design and Planning	Acuna, Hugo	Chile	Evaluation of the Potential Salinity Impacts Resulting from the Deepening of the San Francisco Bay to Stockton Navigation Project	MacWilliams, Michael	United States	The Seine-Scheldt project in Flanders: The Lock of Harelbeke	Van Besien, Peter	Belgium	Port Pavilion at Broadway Pier- Design and Construction of a Modern Building on a 100-Year-Old Structure, San Diego. CA	Martinez, Matthew	United States	

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Session 11 - 3:30 to 5	The Use of Wick Drains in Soft Sediments at the Umm Qasr Naval Base	McNabb, Carl	United States	Utilization of AIS System to Port Planning and Policy Making	Abe, Motohisa	Japan	Widening of the Amazonehaven in the Port of Rotterdam for the Safe Entrance of Ultra Large Container Ships	Rijckaert, Ruben	Belgium	The Thieu lock: The First Lock Operating by Bargeman and Monitoring by Remote Control in Wallonia	Portugaels, Donatienne	Belgium	Recreational Navigation Infrastructures as Opportunities for Urban Waterfronts and Environmental Restoration.	Ciralli, Elio	Italy
Thursday	Port Engineering & Infrastructure IX Session Chair: Brandon Scully, USA			Coastal Engineering for Maritime Applications II Session Chair: Zeki Demirebilek, USA			Maritime Port and Terminal Planning and Operations Session Chair: Julie Rosati, USA			Inland Ports & Terminals II Session Chair: Jeff Lillycrop, USA			Urban & Recreational Waterfronts III Session Chair: Monica Chasten, USA		
Session 12 - 8:30 to 10	Assessing Mooring Forces at an Offshore Wind Terminal in Bremerhaven	Bruening, Anja	Germany	Hydrodynamics & Sediment Transport Investigation within Boushehr Bay	Baradaran Ebrahimi, gita	Iran	New PIANC Guidelines for Marine Oil and Petrochemical Terminal Design	Heffron, Ron	United States	Freight Transport Optimization Using Short Sea Shipping (SSS)	Xavier, Ametller	Spain	Experimental Study on the Performance of a Perched Beach Constructed with Geotextile Encapsulated-Sand Systems	das Neves, Luciana	Portugal
	Onsite Measurement of Moored Ship Behaviour (RTK GPS), Waves and Long Waves in the Outer Port of A Coruna (Spain)	Trejo, Ignacio	Spain	Technical Evaluation of Gravity-Based Single Layer Armour Units for Rubble Mound Breakwaters	DeRouck, Julien		Interaction Between Design Solutions and Construction Methods for Long Jetty Trestles in Exposed Conditions	van Rijen, Jos	Netherlands	Mandalay Port Development Project in Myanmar	Nakanishi, Masatoki	Japan	Kotzebue Swan Lake Small Boat Harbor Improvements	Geise, Brian	United States
	Structural Considerations for Selection of Quick-Release Mooring Hooks at Existing Terminals	Iversen, Rune	United States	Wave Reflection off Dredged Channels	Nielsen, Alexander (Lex)	Australia	Mozambique LNG-The New Middle East	Denton-Brown, Jim	United States	Modelling and Simulating Traffic Flow on Inland Waterways	Fischer, Nicolas	Germany	Sheboygan Harbor Remediation Project Abstract: Using Innovation in a Multi-stakeholder Environment.	Nicholas, Darrell	United States
	The Effect of Innovative Non-line Mooring Systems on the Behavior of Container Ships Moored in Exposed Waters	van Deyzen, Alex	Netherlands	Waves Simulation for Colombo and Djibouti ports by SWAN Model and TK-PEM	Xu, Yanan	China	Sea Disasters Survey on Moored Tankers during the 2011 off the Pacific Coast of Tohoku Earthquake Tsunami	Sakakibara, Shigeki	Japan	Siting a Large Deep Water Transshipment Port to Service the Mississippi Inland Waterway System	Shaw, Reece	United States	The Avenida Menendez Seawall Design, Permitting, and Construction Administration Project: Urban Waterfront Design and Construction in and around St. Augustine's Historical Landmarks	Whelan, Michael	United States
Break															
Thursday	Deep Draft Navigation and Waterways Session Chair: Robert Patev, USA			Systems Approach to Operational Management II Session Chair: Guillermo Riveros, USA			Life Cycle Asset Management - Coping with Aging Infrastructure II Session Chair: Ada Benavides, USA			Locks V Session Chair: John Clarkson, USA			Life Cycle Asset Management: Coping with Aging Infrastructure III Session Chair: Steve Stockton, USA		
Session 13 - 10:30 to 12	Acquisition of Squat Data on the Elbe River Sea-Waterway	Treuel, Frederik	Germany	Dredged Material Management Planning for Florida's Intracoastal Waterway	Brownell, Lori	United States	Development of RC Structure Deterioration Diagnosis System Applying Electrochemical Corrosion Monitoring	Okazaki, Shinichiro	Japan	WG Miter Gates	Joers, Fred	United States	Advanced Processing of Terrestrial Lidar and Multibeam Data for Breakwater Survey	Goemaere, Jan	Belgium
	Manoeuvrability in Proximity of Nautical Bottom in the Harbor of Delfzijl (NL)	Verwilligen, Jeroen	Belgium	Modeling Lock Reliability to Determine Impacts upon Inland Waterway Traffic and Cargo	Berlin, Joseph	United States	Salhouse Broad: A PRISMA Project	Coulet, William	United Kingdom	Application and Practice of In-Chamber Single Longitudinal Culvert with Double Open Ditches Filling and Emptying System in Large Navigation Locks	Li, Jun	China	Benthic Habitat Mapping using Remotely Sensed Data	Thomas Smith	United States
	Successful Approach to "Keep the Sediment Navigable" in Port of Delfzijl.	Kamphuis, Jannes	Netherlands	Coastal Engineering in Support of Costa Concordia Parbuckling	Shepsis, Vladimir	United States	The Assessment of Hydraulic Structures in the Netherlands; Performances-Risks-Maintenance-Policymaking brought together.	Noordzij, Rijk	Netherlands	Efficient Seismic Analysis of Navigation Locks	Bouaanani, Najib	Canada	Survey Detailed Inspection of Waterfront Facilities Using Vessel-Mounted Remote Sensing Technology	Mitchell, Todd	United States
	Vessel Grounding in Entrance Channels	Tulsi, Kishan	South Africa	System-wide, Maintenance-Friendly Lock Gate Design with Interchangeable Parts	Johnson, Eric	United States	Transport Economics and Impact of Waterway Asset Management on Availability and Competitively	Hoffmann, Markus	Austria	Navigation Studies of Xiaonanhai Hydraulic Project in Yangtze River	Xujin, Zhang	China	Use of Innovative 3-D Underwater Imaging on Marine Infrastructure	Browne, Terence	United States
End of Technical Sessions															