

PIANC MMX Congress Liverpool 2010				
Papers List				
No.	Country	Authors	Organisation	Title
2	Netherlands	Daniel Richard & Tromp Arjan	Rijkswaterstaat	Damage and repair of an old weir gate in the Meuse after calamity
3	Italy	Eprim Y.	Technital	Venice Malamocco Navigation Lock
4	Germany	Hein Christian & Kraemer Iven	bremenports GmbH	ULCS in Bremerhaven/Germany-Technical demands and experiences
5	UK	Kirby	Ravensrodd Consultants	Recent trends in application of generic sediment management systems
6	France	Scherrer	Port of Le Havre	Port of Le Havre facing the challenge of gigantism of container vessels
11	Germany	Heuner Maike	GermanFederal Institute of Hydrology	Impacts of climate change require an adapted floodplain management of German estuaries
12	Germany	Horchler Peter J.	GermanFederal Institute of Hydrology	Effects of climate change on riverine vegetation and its impact on managing navigable rivers
13	Germany	E. Fuchs	GermanFederal Institute of Hydrology	Planning with nature on waterways by help of ecological modelling software
14	Germany	Heuner and Schröder U.	GermanFederal Institute of Hydrology	From artificial to natural bank protection - an approach of re-design by applying models for reeds habitats in tidal River Elbe
15	Germany	Kofalk S.	GermanFederal Institute of Hydrology	Facing the impacts on navigation and waterways by climate change : the German research program KLIWAS
16	Netherlands	den Heijer Frank and Wolters Milou et al.	Deltares and Rijkswaterstaat	The development of a substitution strategy for hydraulic structures, an opportunity to meet new challenges in a new century
20	Germany	Clasmeier H.D.	Niedersachsen-Ports, Emden,	Feasibility study for renewing the "Great Sea-Lock" in the port of Emden
21	Spain	Federico Sancho	IBERINSA Consultants,	Fatigue analysis for reinforced concrete maritime works, caissons and pile-supported port infrastructures
25	Belgium	Toro Fernando	IMDC and MoT Romania	Improvement of the navigation conditions on the Romanian-Bulgarian common sector of the Danube River
26	Belgium	De Meyer P.	W&Z Upper-Scheldt Division1	Removing an inland navigation bottle-neck : the transit of the river Lys in Kortrijk
27	UK	Clarke Martin	Jacobs UK,	The Liverpool Canal Link
28	Belgium	Rigo Phillippe	University of Liege,	Innovations in Navigation Lock Design
29	Belgium	Rigo Phillippe	University of Liege,	Pre-study of the hydraulic works for the Seine-Scheldt-East Project
31	USA	Browne T.	PIANC WG Rec15	Emerging materials for the marine environment : a summary of PIANC RecCom WG 15 activities and publication
32	Netherlands	Willems Cas	PIANC WG	RIS on the way to maturity
33	Netherlands	Willems Cas	MarNIS	MarNIS - Maritime Navigation and information services
34	Belgium	Beelen Marjan	University of Antwerp	The increasing importance of niche markets in inland navigation and its influence on capacity
37	UK	Black K.	Partrac Ltd	Contaminated dredged marine sediments : developing a management framework for the UK context
38	Germany	Guenz T.	Knabe Beratende Ingenieure	Container terminal development in the south of Viet Nam
39	Finland	R. Kajatkari	Port of Kotka	Working with nature : Environmental efficiency in port projects and port use
41	Belgium	Luc van Damme, Verhaeghe H.	Flemish ... Ministry of ... Public Works,	The LNG-Terminal of Zeebrugge : future developments
44	China	Yan Hua	Tianjin Research Institute Water Transport	Research and application of technique of nautical depth in China

No.	Country	Authors	Organisation	Title
45	Netherlands	Hellebrand S.	Maasvlakte 2 Port of Rotterdam1	Waiting facilities for inland shipping on Maasvlakte 2
46	Netherlands	De Jong Martijn	Deltares	Channel depth, ship motions and limiting wave conditions for exit manoeuvres of Astute Class Submarines, Barrow-in-Furness, UK
51	Australia	Lobianco	Port of Melbourne	Strategic Asset Management of the Port of Melbourne
52	Japan	Suzuki K.		Long term water quality monitoring at the mouth of Tokyo and Ise bays using ferry
55	Lithuania	Vytautas Paulauskas	Klaip_da University –	Safety of high freeboard ships in ports
58	USA	Craig E. Philip	Ingram Barge Company	Achieving vessel safety improvements using on-board tracking/recording systems
61	Belgium	De Roo S.	Ghent University,	Field monitoring of ship-induced loads on (alternative) bank protections of non-tidal waterways
62	Netherlands	Hamoen G.	Witteveen+Bos Consulting Engineers,	The development of the port of Eemshaven : innovative quay structures at the Port of Eemshaven, Eemsmoed, The Netherlands
63	UK	Hudson P.	Royal Haskoning	U534 the U-boat story, a story of regeneration
66	UK	Osborn S.	Royal Haskoning	Maritime design standards in the 21st Century - aligning BS6349 to the Eurocodes
71	Netherlands	Verhagen H.J.	TU Delft	New developments in toe and berm design for breakwaters
72	UK	Hawkes Peter	HR Wallingford	Climate change and navigation : waterborne transport, ports and waterways : a review of climate change drivers, impacts, responses and mitigation
74	Germany	Fleischer P.	BAW Federal Waterways Research Institute,	Experiences with revetments for inland waterways in Germany
76	Germany	Kuehni Katri	BAW Federal Waterways Research Institute,	A maintenance system for waterways infrastructures
77	Germany	Thorenz C.	BAW Federal Waterways Research Institute,	Numerical evaluation of the filling and emptying systems for the new Panama Canal locks
78	Germany	S.Wassermann Soehngen B;	BAW Federal Waterways Research Institute,	Investigations to define minimum fairway widths for inland navigation channels
79	Japan	Ueda Shigeru	Bridgestone Corporation,	Reliability design of marine fender systems
80	China	Li-Zhonghua	Nanjing Hydraulic Research Institute,	Research and application of new hydro-shiplift for high dam navigation in China
82	Netherlands	de Bont J.A.M.	TU Delft et al	Numerical modeling of waves and motions of ships moored with MoorMasterTM units in the Port of Salalah
85	Netherlands	Hekkenberg R.G.	TU Delft	The shape of things to come - an outlook on the inland navigation of the future
86	France	Galiana Mathieu	CETMEF	Feedback on the repairing works on French navigable dikes and banks
89	Norway	Nybakk A.	NGI	Risk assessment of the sedements in the Harstad harbour, Norway
91	Japan	Sakakibara S.	Yokohama Rubber Co., ET AL	Tsunami effects on ship motions and mooring loads
92	Canada	Kwok Stephen	Cavotec	Adapting and developing hands free mooring for navigation locks
97	China	Wang Feixin	Shanghai Waterway Engineer Design and Consulting Co.,	Application of muddy soil filled geo-textile tubes in embankment engineering
99	China	Qi Xiulian	Shanghai Waterway Engineer Design and Consulting Co.,	On construction of large-scale waterway at offshore reef island area
100	China	Ji Lan	Shanghai Waterway Engineer Design and Consulting Co.,	Probalistic design of channel widths

No.	Country	Authors	Organisation	Title
104	Netherlands	Vellinga T.	Maasvlakte 2	Environmental monitoring construction Rotterdam port expansion Maasvlakte 2
106	Netherlands	Kant G.	Maasvlakte 2	Maasvlakte 2 reclamation : maintaining nautical safety during construction
107	Netherlands	Clijncke A.	Maasvlakte 2	Maasvlakte 2 : development of the master plan
109	France	Demenet Pierre François	SOGREAH	Passing vessel interaction study with moored ships - Application to moored large containers
123	Japan	Katou Hiroyuki	Japanese Institute of Technology on Fishing	Tidal wave disaster by high waves on the coast of Nyuzen fishing port
124	Japan	Ishimoto Shouji	ec - kenkyu ??	More parted precast concrete structure of the wharf and revetment
125	China	Meng Dechen	Marine Bureau, Henan Municipal Communications Department	Study on developing inland waterway transport and saving land resources
126	Australia	O'Brien W.T.	OMC International	Risk mitigation through DUKC - Case study port of Melbourne
129	Netherlands	Kaarsemaker M.H.A.	witteveenbos and deltares	Evaluation of flow fields for their impact on Manoeuvring
130	UK	Smedley M.	ABP MER	European MarNIS project gives sea ports a new risk management tool
131	Belgium	Dumortier Sven	BESIX	Upgrade of the jetty approach trestle at South Hook LNG import terminal jetty, Milford Haven
132	Germany	Schmidt Eckard	Knabe Beratende Ingenieure	JadeWeserPort deep water container terminal Wilhelmshaven/Germany
136	Netherlands	Zanetti R.	witteveenbos ET AL	Improvement of European transport corridor VII in Serbia
137	USA	Agrawal Vijay	AECOM	Highly productive, dense and automated container terminal operating system trends
141	USA	Wakeman Tom	Stevens Institute1, Hoboken, NJ,	Overcoming the potential maritime barriers to international trade by countries-in-transition
142	Portugal	Reis Maria Teresa	LNEC	Overtopping physical model tests for the rehabilitation of Sines West Wreakwater
146	Spain	Martinez S.	Cyes construction company1,	Designing a new low-reflectivity quay wall caisson
147	Netherlands	Gille J.	ECORYS Nederland BV1	Towards EU emissions cap for maritime shipping?
148	Netherlands	Gille J.	ECORYS Nederland BV1	Fuel economics in inland shipping
150	UK	Robertshaw G.	Halcrow	Technical innovations for working in remote and exposed locations - experiences from the Isle of Scilly Harbour improvements project
151	France	Roux S.	CNR	Determination of hawser forces using numerical and physical models for the third set of Panama locks studies
152	France	Pareau P.E.	CNR	The Rhone navigation management centre
154	France	Bois Jean Philippe	CNR	Restoring Navigability to the upper Rhone
156	Belgium	De Wolf P.	MOW Vlaanderen	Harbour of Ostend : layout of beakwaters and seawall inside the harbour
163	Netherlands	Bouwsma s.c.	Rijkswaterstaat	Traffic management for the Juliana Canal
164	Belgium	Adams R.	IMDC and Univ Ghent	Dealing with salt water intrusion and water shortage in the Seine Scheldt West connection
165	South Africa	Kapp Frans	Aurecon	Sturrock dock sliding caisson - repairing a 65y old sliding caisson gate for Sturrock dry dock, Table Bay harbour, Cape Town, South Africa
166	China	Yan Zhangxin	Shanghai Ship & Shipping Research Institute	Study on the ship steering safety for Yangshan Deep Port of Shanghai International Shipping Center

No.	Country	Authors	Organisation	Title
167	Belgium	De Clercq B.	IMDC ET AL	New European standard for calamity information exchange on inland waterways
168	Netherlands	van 't Hoff J.	HofF Consultancy et al	Hydraulic fills manual
169	Ireland	Harvey Jim	Waterways Ireland	Developing a business process model for bridge management
172	Luxemburg	Osorio Paulo	University of Luxembourg ¹	Examination of structural reliability analysis of quay walls with steel sheet piles
173	Belgium	Plancke Yves	Flanders Hydraulics	A new disposal strategy for the Western Scheldt, conciliating port accessibility and nature preservation
174	Belgium	Sas Marc	PIANC WG et al	New PIANC guidelines for berthing structures, related to thrusters
179	France	H.Allender, Tant S.	Voies navigables de France (VNF)	Master plan for waterways maintenance
181	Netherlands	Ten Broeke I.	Rijkswaterstaat - Rhine Commisioner at the CCNR	Full implementation of inland AIS on the inland waterway networks of Netherlands and Germany
182	USA	Joers F.R.	USACE	Upper Mississippi lift-in-unit lock wall monoliths
185	USA	Zappala S.	USACE	Suspended sediment plumes associated with navigation dredging in the New York/New Jersey Harbor
186	France	Pauli G.	CCNR Rhine	The greening of inland navigation - the case of Rhine navigation
188	Belgium	Eloot Katrien	Flanders Hydraulics	Synergy between theory and practice for ultra large containerships sailing to the port of Antwerp
189	Netherlands	Raaijmakers T.C./Verheij H	TU Delft	Ship wave reduction for an inland marina with a breakwater
197	China	Wu Peng	CCCC water transportation consultants Co., Ltd.	Study on the land reclamation project in the Southwest water of Shatuozi in Dalian port
199	China	Shang Jian-ping	CCCC water transportation consultants Co., Ltd.	A simulation study for LNG terminal throughput capacity
201	China	Yang Guo-ping	CCCC water transportation consultants Co., Ltd.	Research on turning circle, braking distance and channel dimension of large vessels based on vessel observation
202	China	Wu Peng	CCCC water transportation consultants Co., Ltd.	A combined system of loop culvert and through gate filling and emptying for navigation locks under heads from either direction
207	USA	Grier D.	Institute for Water Resources ¹	Potential of short sea shipping in the US : a comparison with the European experience
210	Japan	Arikawa T.	Port and Airport Research Institute,	Large tsunami experiments
213	UK	Miles P.	Kier Construction	Refurbishment and reconstruction of South Hook LNG import
214	Germany	T. Wachholz and M.Osterthun	Federal Waterway and Shipping Administration	Expansion of the river Weser to provide a modern inland waterway for connecting German seaports with hinterland terminals
215	France	Morellato D.	CETMEF	Constitution of a numerical wave data-base along the French Mediterranean coasts through hind cast simulations over 1979-2002
217	France	Artières O.	TenCate and CETMEF	Fiber optics monitoring solution for canal dykes
219	France	Gallicher Lavanne A.	Port de Rouen	Squat measurement in Seine : current navigation conditions and impact of the channel deepening
220	Italy	Blandon Carlos A.	Antioquia School of Engineering, Colombia	Seismic analysis and design of pile supported and block work wharves
221	USA	Cann Anne	USACE	Planning navigation infrastructure for an uncertain future
222	Austria	Gussmagg G.	Österreichische Wasserstraßen-GmbH	An assessment of the opportunities and risks of container transport on the Danube river between Austria and the Black Sea
223	UK	Brooke Jan	PIANC EnviCom	Working with nature

No.	Country	Authors	Organisation	Title
224	UK	Brooke Jan	PIANC EnviCom	Climate change : mitigation and adaption measures for inland waterways in England and Wales
225	UK	Birchenough	PIANC EnviCom	Monitoring of dredged material disposal sites at sea and how it links to licensing decisions
228	Ireland	harvey Jim	Waterways Ireland	3D capture of bridges using laser technology
229	France	Dupray S.	CETMEF	New guidance for the use of concrete in maritime engineering
230	France	Lerouillois D.	CETMEF	Needs and technologies for port security
231	Belgium	Sas Marc		Study and 3d modeling of density and discharge currents of the third sets of Panama locks
232	France	de Bruyn B.	CETMEF	Improve the environmental studies quality of the projects of inland waterways
233	Austria	Trögl J.	Österreichische Wasserstraßen-GmbH	River information services for logistics users
234	China	Dafu Cai	Changjiang Waterway Institute of Planning, Design & Research,	Design of channel regulation project for Daijiazhou river stretch in the Middle Yangtze river
238	Belgium	Van Haute F.	Acotec nv	How to protect your structure against MIC/ALWC - A practical approach of a proven solution
239	Austria	Leopold D.	Österreichische Wasserstraßen-GmbH	E-learning platforms as an adequate instrument to achieve developments inland waterway transport
240	Iceland	Viggosson G.	Icelandic Maritime Administration,	Landeyjahöfn Ferry Harbour at the South Coast of Iceland
241	France	Raujouan P.	developpemt-durable.gouv.fr ?	Dredging in France - evolution of the practices
242	UK	Fleming G.	EnviroCentre, Glasgow	A risk-based approach to disposal of TBT contaminated sediments
243	Netherlands	De Jong Michiel	DHV and TU Delft	Developing the Kyung In Canal between Icheon and Seoul as a short sea destination and IWT project in Republic of Korea
244	China	Hu-Yaan	Nanjing Hydraulic Research Institute,	Hydrodynamics of the filling and emptying system using unilateral main wall culvert with double valves in high head locks
246	Netherlands	Vercrujisse P.M.	MTI Holland/IHC Merwede	Steps towards development of green dredging technology
251	Belgium	Bayart P.	Hydraulic Research Laboratory, SPW,	Water resourcs for the Sein-Scheldt-East project
252	Belgium	Bousmar D.	Hydraulic Research Laboratory, SPW,	The ports for the new class Vib lock at Ivoz-Ramet, River Meuse, Belgium
255	Germany	Stoschek O.	DHI-WASY, Syke,	Optimization of an harbour channel in the Shastra estuary, India
256	USA	Briggs	USACE	Comparison of PIANC and CADET ship squat predictions [NEW]
257	Belgium	De Pooter P.	JAN DE NUL	Manifa (Saudi Arabia) Large scale experiences with breakwaters
259	India	Sannasiraj S.A.	Chennai Port Trust et al	Development of Chennai Port Mega Terminal - issues and proposed solutions
263	Italy	Lai Carlo;Bozzoni F	European Centre for Training and Research in Earthquake Engineering,	Seismic risk assessment and mitigation of Italian maritime port structures using GIS technology and guidelines for the design of new facilities
264	Germany	Cofalla Catrina	Aachen University,	Floodsearch - Hydrotoxic Investigations of Contaminated Sediments in an Annular Flume
265	UK	Byrne David	Noble Denton Consultants	Innovation in the design of floating passenger and RoRo freight facilities on the river Mersey
267	UK	Allsop N.W.H.	HR Wallingford	A database of major breakwaters around the world
268	Belgium	Lucion C.	SPW, Service Public de Wallonie	Integrated and sustainable solutions for the treatment and valorization of dredging sediment : the "Solindus" project

No.	Country	Authors	Organisation	Title
269	Germany	D.M.Saha and Jaegers	OCIMF et al	International Safety guide for inland navigation tank-barges and terminals (ISGINTT)
270	China	Pingshan Chen	Research Institute of CCCC Fourth Harbour Engineering Co	Study on Rapid-improvement technology on surface layer of ultra-soft ground
272	Finland	Holm	Finnish Maritime Administration	Navigation Safety Management on Finnish Waters
273	Finland	Kujala Nina	Port of Jakobstad	Development of procedures with Finnish Environmental Administration concerning dredging and disposal of contaminated sediments
274	Belgium	Portugaels D.	Service Public de Wallonie	The Blanc Pain protection gate : the design of a security movable structure operated by remote control
275	Finland	Holm	Finnish Maritime Administration	New innovations in inland navigation - Case Keitelel Canal
281	USA	Xiao Li	AECOM	Engineering Measures to solve sedimentation issues in the vicinity of beach, boat launching ramp and Marina
282	Netherlands	van der Toorn	TU Delft	Old sluices never die, but what about shipping?
283	Spain	Sanchez Gonzalez	CEDEX	Stability of submerged groins under garzing wave incidence
285	UK	Clarke	Gifford LLP	Design and construction considerations for floating marine structures
286	Netherlands	M. Zuidgeest	Shell Global Solutions International)	Geo-morphological and hydrodynamic risks for dredged channels – A practical approach for definition and management
290	Belgium	De Mulder	Flanders Hydraulics Research)	On hawser force criteria for navigation lock design
292	Argentina	Prario	Hidrovía S.A.	Processing of AIS information to improve channel design
293	Germany	Eusterbarkey	Waterways and Shipping Administration and IALA	The contribution of aids to navigation to an efficient channel design
294	USA	Xiao Li	AECOM	Floating Breakwater modeling for recreational water park
298	Germany	Reche	Federal Waterways and Shipping Administration,	River information services (RIS) in Germany
300	South Africa	Mackie	Consultant	Keel blocks - forgotten heros
301	South Africa	Mackie	Consultant	The 1890 Blackwood Screw Jack Shiplift, Barbados
303	Netherlands	Aarninkhof	Royal Boskalis	Sustainable development of nourished coastlines innovations in project design and realisation
304	Netherlands	van der Kolff	Royal Boskalis	The use of dredged sludge as a fill in the Osthafen, Bremerhaven Germany
305	Japan	Takayama	Port and Airport Research Institute,	Development of urgently emerging Tsunami breakwater – Buoyancy - driven vertical piling system
308	Japan	Hiraishi	Port and Airport Research Institute	Field survey on harbour disaster in Yangon Port due to cyclone Nargis
309	Japan	Hiraishi	Port and Airport Research Institute	Effect of coastal vegetation for reducing tsunami force in 2007 Solomon Island Earthquake Tsunami
310	Germany	Eusterbarkey	Waterways and Shipping Administration and IALA	Sustainable management of maritime services - the aids-to-navigation services as an example
311	USA	Headland	Moffatt & Nichol	Probabilistic optimization of ports including including effects of sedimentation
313	Denmark	Mangor	DHI	Bypass Harbours at Littoral Transport Coasts
314	Netherlands	Van Schuylenburg	Port of Rotterdam	Container Transferium Rotterdam

No.	Country	Authors	Organisation	Title
318	Netherlands	Loman	PUMA	Maasvlakte 2 project: design of an innovative cobble sea defence
320	Netherlands	Hamer and de Boer	PUMA	Maasvlakte 2 Contractual Approach
322	UK	Holland	British Waterwayus	British Waterways' Asset Management Model
323	UK	Harvey, Tony	British Waterwayus	Stourport Basins Restoration - Maintaining And Building Heritage
324	Norway	Nyvoll	Nyvoll Consult AS	Demolition of Battleship Murmansk
325	UK	Mark McBride	MarCom Working Group 49	Horizontal and Vertical Channel Dimensions WG49
326	UK	Peter Mallin	Mott MacDonald Limited	Isle of Man Runway Extension
327	Belgium	EnviCom	PIANC	Working with Nature
328	UK	Mishra K K	Trelleborg	Durability of Rubber fenders in Hot Climates
329	France	Benoit Deleu	VNF	Seine-Nord Europe Canal : Central Segment of the Seine-Scheldt Waterway Link
330	Panama	Wong Johnny	ACP	330 Panama Canal Expansion: Project Management of the Works
331	Belgium	Wens Johan	Van Laere	331 Revolutionary Coping Beam Construction
177				