



Programme

9h-9h30m Auditorium | Opening Ceremony

Monday, May 8, 2006 | 9h30m - 10h30m

1: Auditorium | Structures: types, interactions and structural responses

Chairman: Francisco Taveira Pinto

- pp. 135 **Physical Modelling and Laboratory Experimentation at the Coastal and Hydraulics Laboratory**
Sanchez, Jose E. & Hughes, Steven A.
- pp. 139 **Physical Modelling of the Mount Maunganui Artificial Reef**
Moore, A.E.; Black, K.P. & Mead, S.M.
- pp. 143 **Physical Modelling of the Stability of an Artificial Island**
Paireau, Osanne; Hamm, L. & Garcia, N.

Monday, May 8, 2006 | 11h - 12h30m

2A: Room B032 | Structures: types, interactions and structural responses

Chairman: Steven A. Hughes

- pp. 147 **2D and 3D Physical Model Tests for the Construction Project of the New Breakwater in the Ciutadella Port - Menorca**
Monsó, J.L.; Corrons, A.; Restrepo, A.F.; Sagalés, A. & Martínez, M.
- pp. 149 **Use of SPH3D Method to Analyze the Effect of Dike Slope on Tsunami Mitigation**
Crespo, Alejandro J.C.; Gómez-Gesteira, M. & Dalrymple, R.A.
- pp. 153 **Use of Physical Model Measurements to Guide Multi-Phase Simulations for Wave/Structure Interaction**
Richardson, Stephen; Allsop, William & Cuomo, Giovanni
- pp. 157 **Three-Dimensional Model Tests for a Wave Energy Power Plant Using the Oscillation Water Column Technology**
Neves, Maria da Graça; Silveira Ramos, F.; Marques da Silva, F. & Gabriel Silva, Luís

2B: Room B035 | Waves: generation, theories, prediction

Chairman: Trigo Teixeira

- pp. 13 **Wave Transformation and Wave-Induced Current Distribution on a Barrier Reef Island in Maldives**
Jayarathne, Ravindra; Dassanayake, Darshana; Wickamaratne, Sanjeewa; Nandasena, Kithsiri; Laknath, Chanaka; Raveenthiran, Karthiges; Aslam, Mohamed & Mendis, Malith
- pp. 21 **Determination of the Bottom Slope Effect on the Wave Breaking Termination Condition for the Relative Trough Froude Number (RTFN) Method**
Okamoto, Takashi; Fortes, Juana & Silva, Luís Gabriel
- pp. 3 **A New Parametric Definition of Wave Energy**
Taveira Pinto, F. & Silva, Raquel
- pp. 7 **Physical Simulation of Wave Profiles in Flumes**
Capitão, Rui

* Programme subject to amendment, please check all information during the conference

Monday, May 8, 2006 | 14h30m - 16h

3A: Room B032 | Structures: types, interactions and structural responses

Chairman: Gregorio Iglesias

- pp. 161 **Integration of Multiple Modelling Techniques Address Violent Fluid Motion**
Richardson, Stephen; Besley, Phillip & Cooper, Alan
- pp. 165 **Experimental Study on Wave Overtopping of Floating Structures**
Koftis, Theoharris; Zeris, Athanasios & Prinos, Panayotis
- pp. 169 **Experimental Study of Wave Penetration through Renewal Pipes Inside a Harbour Basin**
Tsoukala, V.K.; Dimitrakopoulou, D. & Moutzouris, C.I.
- pp. 173 **Floating Breakwater Performance - Wave Transmission and Reflection, Energy Dissipation, Motions and Restraining Forces**
Cox, Ron & Beach, Daniel

3B: Room B035 | Measuring Techniques: pressures, velocities, forces

Chairman: Peter Troch

- pp. 27 **Digital Image Technology as a Measurement Tool in Physical Models**
Phelp, D.; Tulsı, K. & Rossouw, M.
- pp. 29 **Digital Step Gauge for Wave Runup Measurements at Full Scale and Small Scale Model Tests**
Van de Walle, Björn; Versluys, Tom; Troch, Peter & De Rouck, Julien
- pp. 33 **Detailed Measurements of Sediment Transport and Swash Processes in Large-Scale Laboratory Experiments**
O'Donoghue, Tom & Hondebrink, Luke J.
- pp. 51 **Laboratory Investigations of the Formation of Freak Waves**
Sulisz, W. & Paprota, M.

Monday, May 8, 2006 | 16h30m - 18h

4A: Room B032 | Structures: types, interactions and structural responses

Chairman: Peter Frigaard

- pp. 177 **Overtopping at Vertical Walls and Parapets - Regular Wave Tests for Irregular Simulation**
Daemrich, K.F.; Meyering, J.; Tack, G. & Zimmermann, C.
- pp. 181 **Experimental Investigation of Wave Overtopping of the Limassol Seafront**
Anastasaki, E.N.; Tsoukala, V.K. & Moutzouris, C.I.
- pp. 185 **Spatial Distribution of Wave Overtopping**
Lykke Andersen, T. & Burcharth, H.F.
- pp. 187 **Wave Flume Experiments and Results on Pilling Up and Overtopping for Low Crested Structures**
Clementi, Emanuela; Cappiotti, Lorenzo & Martinelli, Luca

4B: Room B035 | Measuring Techniques: pressures, velocities, forces

Chairman: Maria da Graça Neves

- pp. 39 **Wave Penetration Scale Model Tests. Regular and Irregular Waves**
Fortes, Juana; Gabriel Silva, L. & Sousa, Isaac
- pp. 43 **Using Stereo Image Reconstruction to Survey Scale Models of Rubble-Mound Structures**
Ferreira, Ricardo; Costeira, João P.; Silvestre, Carlos & Santos, João A.
- pp. 47 **Prototype Monitoring of Wave Loads on Concrete Structure in Intertidal Zone**
Cherlet, Jan; Boone, Cathy; Verhaege, Hadewych; Troch, Peter; De Rouck, Julien; Awouter, Marc; Ockier, Marc & Devos, Guy
- pp. 59 **Performance of Ultrasounds Technique in Physical Modelling of Coastal Processes**
Archetti, Renata; Longo, Sandro & Brochini, Maurizio

* Programme subject to amendment, please check all information during the conference

Monday, May 8, 2006 | 18h-19h30m

Room B032 | Meeting

CoastLAB Network Meeting

Tuesday, May 9, 2006 | 9h - 10h30m

5: Room B032 | Structures: types, interactions and structural responses

Chairman: Karl-Friedrich Daemrich

pp. 191 **Submerged Breakwaters: A Comparison Between Numerical Results and Physical Data**

Ten Voorde, Mechteld; Antunes do Carmo, J.S. & Neves, M.G.

pp. 199 **Water Surface Elevations, Velocities and Pressures at Submerged Breakwaters**

Neves, Ana Cristina; Veloso Gomes, F.; Taveira Pinto, F. & Proença, M.F.

pp. 203 **Effects of Crest Elevation in Shoreline Evolution Behind a System of Detached Breakwaters**

Giantsi, Th. & Papathanassiou, B.

pp. 251 **Methodology for Evaluation of Breakwaters Behaviour on Physical Modelling**

Taveira Pinto, F.; Veloso Gomes, F. & Lopes, Hugo

Tuesday, May 9, 2006 | 11h - 12h30m

6A: Room B032 | Structures: types, interactions and structural responses

Chairman: Fernando Veloso Gomes

pp. 207 **Measurement of Problematic Impulsive Wave Loads on the Underside of an Exposed Jetty**

Alderson, John; Allsop, William & Clarke, James

pp. 211 **Physical Model Tests and Field Performance of a New Berm Breakwater**

Anastasaki, E.N.; Giantsi, Th.; Moutzouris, C.I.; Iakovou, N.; Zervos, S. & Sofos, J.

pp. 215 **Improvement of Leixões Northern Breakwater. A Critical Analysis of the Tested Solutions**

Veloso Gomes, F.; Taveira Pinto, F.; Lopes, Hugo & Brogueira Dias, Emílio

pp. 219 **Lab Studies and Field Performance of Shore Parallel Pipe Breakwater**

Mani, J.S.

6B: Room B035 | Miscellaneous

Chairman: Luciana das Neves

pp. 67 **Oceanic Oil Spill Boom - Design and Laboratory Tests**

Iglesias, Gregorio; Fragueta, J.A.; Castro, A.; Carballo, R.; Taveira Pinto, F. & Cuesta, T.

pp. 71 **Experimental Investigation of Oil Spill Containment by Granules Behind a Rigid Barrier**

Amini, A.; Boillat, J.L.; Bollaert, E.F.R. & Schleiss, A.J.

pp. 87 **Physical Modelling of Kalaat Landalous Sand Spit Movement**

Anquetin, P.G.; Bettaibia, M.M. & Hamm, L.

Tuesday, May 9, 2006 | 14h30m - 18h

Technical Session at Room B032 | Technical Visit

Project of the Maritime Structures for the Douro River Mouth

Carlos Abecasis

Scale Model Tests of the Maritime Structures for the Douro River Mouth

João Alfredo Santos

16h - 18h Technical Visit: Douro River Mouth

Wednesday, May 10, 2006 | 9h - 10h30m

7A: Room B032 | Structures: types, interactions and structural responses

Chairman: Ramón Gutiérrez

pp. 195 **Neural Network Analysis of Wave Reflection Form at Submerged Breakwaters**

Taveira Pinto, F.; Carballo, Rodrigo; Castro, Alberte & Iglesias, Gregorio

pp. 227 **Wave Forces and Moments on Heavily Overtopped Current Deflection Dike**

Hughes, Steven A.; Winer, Harley S. & Blodgett, Edward R.

pp. 231 **Scale Model Tests of Wave Overtopping: Their Duration for Determination of mean Discharges**

Reis, Maria Teresa; Neves, Maria Graça; Silva, Luís Gabriel & Lemos, Rute Maria

pp. 247 **The Implications of Breakwater Caisson Shape on Wave Loading and Whole Body Forces**

Alderson, John; Allsop, William & Clarke, James

7B: Room B035 | Natural Hazards Assessment

Chairman: César Vidal

pp. 77 **Greenhouse Effect and Sea Level Impacts on Santos Estuary and Bay (Brazil) - Physical Model Study**

Alfredini, Paolo; Ortega, Desemparats Bernal & Araújo, Rodrigo N.

pp. 81 **Large-Scale Tsunami Wave Generation**

Grüne, Joachim; Schmidt-Koppenhagen, R. & Oumeraci, H.

pp. 83 **Hurricane Forces Measurements on Bridge Decks**

Edge, Billy L., Douglas, Scott & Cruz-Castro, Oscar

Wednesday, May 10, 2006 | 11h - 12h30m

8A: Room B032 | Structures: types, interactions and structural responses

Chairman: Juana Fortes

pp. 243 **Wave Transmission at a System of Detached Breakwaters by Oblique Wave Attack**

Giantsi, Th.

pp. 255 **Wave Impact on Seawalls of Various Geometries**

Greenhow, Martin

pp. 257 **Formulations for Random Wave Runup on Seawalls Near Shorelines**

Mase, Hajime; Tokoro, Yoshiaki; Memita, Tetsu & Hedges, Terry S.

pp. 267 **Physical Model Ship Manoeuvring - Ponta da Madeira Harbor (Brazil)**

Araújo, Rodrigo N.; Alfredini, Paolo & Amaral, Rogério F.

8B: Room B035 | Sediment Transport

Chairman: Tom O'Donogue

- pp. 101 **Longshore Sediment Transport Research Performed in a Large-Scale Basin**
Smith, Ernest R.; Zhang, Jun & Wang, Ping
- pp. 55 **25 Years of Scale Model Hydro-sedimentological studies for Ponta da Madeira Port Terminal (Brazil)**
Amaral, Rogério F.; Alfredini, Paolo & Araújo, Rodrigo N.
- pp. 93 **Ebb Delta Development at Tidal Inlets**
Tomlinson, Rodger; Voisey, Christopher & Robinson, David
- pp. 97 **Impact of the installation of the sheltered site of Aghir on the morpho-sedimentological characteristics of the south-eastern littoral of Jerba**
Radhia, Souissi; Mohamed, Choura; Faten, Zekri; Mehdi, Belhaj & Mohamed Ali, Torki

Wednesday, May 10, 2006 | 14h30m - 16h

9: Room B032 | Erosion/Scour: assessment, control

Chairman: Ernest R. Smith

- pp. 107 **Experimental Modelling of Shoreline Evolution in the Vicinity of Detached Porous Structure**
Sayah, Selim M.; Boillat, Jean Louis & Schleiss, Anton J.
- pp. 111 **Experimental Stability Analysis of Geocontainers under Wave Loading (GeoWAVE): Experimental Set-Up**
das Neves, Luciana; Lopes, Maria de Lurdes; Veloso Gomes, F.; Taveira Pinto, F. & Iglesias, Gregorio
- pp. 115 **Scour Around Monopile Foundations for Off-Shore Wind Turbines**
Margheritini, Lucia; Frigaard, Peter; Martinelli, Luca & Lamberti, Alberto
- pp. 119 **Experimental Study on Effect of Arc Type Submerged Breakwaters for Shore Protection**
Chen, Wen-Juinn; Kuo, Ching-Ton & Wei, Hon

Wednesday, May 10, 2006 | 16h30m - 18h

10: Room B032 | Erosion/Scour: assessment, control

Chairman: Francisco Taveira Pinto

- pp. 123 **Scour Protection for Offshore Wind Energy Monopile Structures**
Grüne, Joachim; Sparboom, U.; Schmidt-Koppenhagen, R.; Wang, Z. & Oumeraci, H.
- pp. 125 **Small-Scale Experiments for Investigation of Breach Development of Sea Dikes**
Geisenhainer, Peter; Kortenhaus, Andreas & Oumeraci, H.
- pp. 129 **Shoreface Nourishment Offshore a Rubble Mound Breakwater**
Cappiotti, Lorenzo & Aminti, Pierluigi