

Conference Program

July 1 Thursday

Keynote Speech

The Advance On China Coastal Engineering

- Xie, Zuo, Dou

A1 Tropical Cyclone Waves – Irish

- 10:40 | 1 Waves in Wetlands: Hurricane Gustav
• Smith
- 11:00 | 2 Numerical Modeling of Observed Hurricane Waves in Deep and Shallow Waters
• Chen, Hu, Kennedy
- 11:20 | 3 Modeling of the Reynolds Stress in the Bursting Layer Affected by Typhoon
• Murakami, Yoshino, Yasuda
- 11:40 | 4 Oscillations of Semi-Enclosed Water Body Induced by Hurricanes
• Tan, Lee

B1 Estuary Dynamics I – Ding

- 10:40 | 92 Application of A Simple Hydrodynamic Model to Estuary Entrance Management
• McLean, Hinwood
- 11:00 | 93 Evaluation of Design Water Levels at the EMS Estuary Considering the Effects of A Storm Surge Barrier
• Herrling, Knaack, Kaiser
- 11:20 | 94 Impacts of Deep Waterway Project on Local Circulations and Salinity in the Changjiang Estuary, China
• Ge, Ding, Chen
- 11:40 | 95 Study on Interaction Between Estuary Dynamic and Storm Surge Induced by Tropical Cyclone Winnie (1997) in the Yangtze Estuary
• Zhang, Lei, Kong

C1 Overtopping I – Li

- 10:40 | 180 Accounting for Levee Overtopping Duration: A Test with Hurricane Katrina Conditions
• Dean, van Ledden
- 11:00 | 181 Wave Overtopping Simulator Tests in Vietnam
• Le, van der Meer, Schiereck
- 11:20 | 182 Comparisons of Wave Overtopping Discharges and Damages of the NTOU Vertical Seawall Due to Two Similar Super Typhoons on Keelung Coast of Taiwan
• Chen, Tzang, Ou
- 11:40 | 183 Probabilistic Analysis of Grass Erosion Due to Wave Overtopping
• Mai, Hoffmans, van Hoven

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D1 Sediment Transport I – Edge

- 10:40 | 271 Laboratory Observations of Impacts on Coarse Sediment Beaches
• Ball, Mendoza Baldin, Simmonds
- 11:00 | 272 Sand Transport by Surface Waves: Numerical Reproduction of Recent Experiments
• Kranenburg, Ribberink, Uittenbogaard
- 11:20 | 273 New Practical Model for Sand Transport Induced by Non-Breaking Waves and Currents
• van der A, Ribberink, van der Werf
- 11:40 | 274 Grain-Size Sorting in the Swash Zone on Unequilibrium Beaches at the Timescale of Individual Waves
• Kakinoki, Tsujimoto, Uno

E1 Tsunamis I – Weiss

- 10:40 | 358 Practical Model to Estimate Drift Motion of Vessels by Tsunami with Consideration of Colliding with Structures and Stranding
• Tomita, Honda
- 11:00 | 359 Experimental and Numerical Modeling of Tsunami Loading on Structures
• Nistor, Palermo, Cornett
- 11:20 | 360 Real-Time Tsunami Inundation Prediction Using Offshore Tsunami Observation
• Tatsumi, Tomita
- 11:40 | 361 Observations and Modeling of the 29 September 2009 Samoa Tsunami
• Fritz, Borrero, Synolakis

A2 Wave Modeling I – Dalrymple

- 13:30 | 5 Spectral Wave Modelling in Tidal Inlet Seas: Results from the SBW Wadden Sea Project
• van Dongeren, van der Westhuysen, Groeneweg
- 13:50 | 6 Rapid Calculation of Nonlinear Wave-Wave Interactions in Wave-Action Balance Equation
• Lin, Demirbilek, Zheng
- 14:10 | 7 Multi-Dimensional Error Analysis of Nearshore Wave Modeling Tools, with Application Toward Data-Driven Boundary Correction
• Jiang, Kaihatu
- 14:30 | 8 Development of A High-Resolution Nearshore Wave Forecasting/Hindcasting Model for the Italian Coasts
• Catini, Orasi, Inghilesi
- 14:50 | 9 2-D Numerical Wave Flume with Solid-Gas- Liquid Interaction and Its Application
• Kawasaki, Takasu, Ut
- 15:10 | 10 Modelling Wave-Tide Interactions at A Wave- Farm in the Southwest of England
• González-Santamaría, Zou, Pan

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B2 Estuary Dynamics II – Shi

- 13:30 | 96 The Dynamics of Intertidal Mudflat and Saltmarshes Within Estuaries
• Rossington, Spearman, Knaapen
- 13:50 | 97 2D Numerical Simulation of Tidal Bore on Qiantang River Using KFVS Scheme
• Pan, Lu
- 14:10 | 98 Impact of Runoff on Salt Intrusion of Yangtze Estuary
• Li, Gao, Wang
- 14:30 | 99 Development of An Operational Elbe Tidal Estuary Model
• Müller-Navarra, Bork
- 14:50 | 100 Causes of Back-Siltation in the North Passage of Yangtze Estuary and Evaluation of the Engineering Measures
• Fan
- 15:10 | 101 Influence of Tidal Inlet Depth on Water Level Response and Salinity Intrusion in A Lagoon
• Watanabe, Tanaka

C2 Overtopping II – Bender

- 13:30 | 185 Mathematical Modelling of Wave Overtopping at Complex Structures: Validation and Comparison
• Berkenbrink, Kaiser, Niemeyer
- 13:50 | 186 Wave Overtopping and Rubble Mound Stability Under Combined Loading of Waves and Current
• van Steeg, van Gent
- 14:10 | 187 Sliding Stability of Inner Slope Clay Cover Layers of Sea Dikes Subject to Wave Overtopping
• van Hoven, Hardeman, van der Meer
- 14:30 | 188 Overtopping Uncertainties and Harbour Functionality. The Case of Barcelona Harbours
• Gironella, Oliveira, Sánchez-Arcilla
- 14:50 | 189 Modelling Storm Surge Wave Overtopping of Seawalls with Negative Freeboard
• Jones, Reeve, Zou

D2 Sediment Transport II – Dean

- 13:30 | 275 Short Term Evolution of Sediments During ECORS Experiment
• Thierry, Bonneton
- 13:50 | 276 Near-Bottom Flow Characteristics of Currents at Arbitrary Angle to 2D Ripples
• Madsen, Negara, Lim
- 14:10 | 277 Wind Tunnel Study of Sand Transport on Surfaces Composed of Bi-Modal Grain-Size Distribution
• Harikai, Kubota, Hotta
- 14:30 | 278 Pick-up Rate of Suspended Sand Due to Tsunami
• Yoshii, Ikeno, Matsuyama
- 14:50 | 279 Low-Mobility Transport of Coarse-Grained Bed Material Under Waves and Currents
• van den Bos, Verhagen, Olthof

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E2 Tsunamis II – Philip Liu

- 13:30 | **362** Tsunami Early Detection: Enhanced Resolution of HF Oceanographic Radar
• Murata, Nagakura, Kokai
- 13:50 | **363** Inundation Flow Velocity of Tsunami on Land and Its Practical Use
• Matsutomi, Okamoto
- 14:10 | **364** Characteristics of Tsunamis Generated by 3D Granular Landslides
• Mohammed, Fritz
- 14:30 | **365** Numerical Simulation of Tsunami Currents Around the Moving Structures
• Nakaza, Iribe, Rouf
- 14:50 | **366** Tsunami Resonance in the Palma de Majorca Bay and Harbour Induced by the 2003 Boumerdes-Zemmouri Algerian Earthquake (Western Mediterranean)
• Vela, Pérez, González
- 15:10 | **P37** Global Vulnerability Projection on Storm Surges Due to Tropical Cyclones
• Nobuoka, Mimura
- 15:15 | **P38** Quantifying the Vulnerability of the Coast of Oman to Extreme Events
• Vieira, Smit, Mocke
- 15:20 | **P39** 3D Numerical Investigation on the Run-up Generated by Landslides Falling Along the Flank of A Conical Island
• Montagna, Bellotti, Risio
- 15:25 | **P40** High Resolution Tsunami Modeling at the Mediterranean Coast of Israel, Towards An Early Warning Tsunami Scenarios Data Bank
• Galanti, Rosen, Salamon

A3 Long Waves -- Kennedy

- 15:50 | **11** Three-Dimensional Modeling of Long-Wave Runup: Simulation of Tsunami Inundation with GPU-SPHysics
• Weiss, Munoz, Dalrymple
- 16:10 | **12** Locally Concentrated Damage at Shimonikawa Coast, Toyama Bay, Japan, Due to Giant Swell Waves
• Ranasinghe, Fukase, Sato
- 16:30 | **13** Long-Wave Runup on A Plane Beach
• Liu, Chan, Park
- 16:50 | **14** Generation and Amplification of the Abnormal Long Waves at Boryeong, Western Coastal Waters of Korea, May 4, 2008
• Choi, Lee, Yoo
- 17:10 | **15** Variability in Long-Wave Runup as A Function of Nearshore Bathymetric Features
• Dunkin, Irish

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B3 Coastal Hydrodynamics – Hinwood

- 15:50 | **102** Predicting Movable Bed Roughness in Coastal Waters
• Humbyrd, Madsen
- 16:10 | **103** Beach and River Entrance Wave Setup and Oceanic Surge Field Measurements at Gold Coast
• Callaghan, Nielsen, Cartwright
- 16:30 | **104** Quantification of Tidal Watertable Overheight Due to the Sloping Beach in Unconfined Aquifers
• Song, Zhang, Li
- 16:50 | **105** A Probabilistic Model for the Determination of Hydraulic Boundary Conditions in A Dynamic Coastal System
• Groeneweg, Beckers, Gautier
- 17:10 | **P3** Internal Tide and Its Associated Cooling System in Genka Bay, Okinawa, Japan
• Rouf, Nakaza
- 17:15 | **P4** Predicting Water Fluctuation in the Coastal Enclosed Lagoon Using Integrated Two- Dimensional Surface and Subsurface Water Model
• Kong, Song, Zhang
- 17:20 | **P5** Downtime Analysis in the Port of Algeciras Bay - A Case Study
• de los Santos, Hansen, Carrasco
- 17:25 | **P6** Velocity Defect Law in the Wave Bottom Boundary Layer
• Abreu, Michallet, Silva

C3 Overtopping III – Mizuguchi

- 15:50 | **190** Reduction of Wave Overtopping on Dikes by Means of A Parapet
• van Doorslaer, de Rouck, Geeraerts
- 16:10 | **191** Waves Overtopping A Wide-Crested Dike
• Verwaest, Vanpoucke, Willems
- 16:30 | **192** Destructive Wave Overtopping Tests on Grass Covered Landward Slopes of Dikes and Transitions to Berms
• Steendam, van der Meer, Hardeman
- 16:50 | **193** Flow Depths and Velocities at Crest and Inner Slope of A Dike, in Theory and with the Wave Overtopping Simulator
• van der Meer, Hardeman, Steendam
- 17:10 | **194** Modelling the Erosive Impact of Overtopping Waves on Grassed Landward Slopes of Dikes and Levees
• Verheij, Hoffmans, Paulissen
- 17:30 | **P19** Critical Overtopping Rates for Brunsbüttel Lock
• Rahlf, Schüttrumpf
- 17:35 | **P20** An Investigation on Spatial Distribution of Wave Overtopping Water Using RANS-VOF Model
• Peng, Zou

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D3 Sediment Transport III – Larson

- 15:50 | 280 Effect of External Turbulence on Sediment Pickup Rate
• Okayasu, Fujii, Isobe
- 16:10 | 281 Under What Conditions Do Coastal Storm Events Produce Onshore Sediment Transport?
• Basco, Walke
- 16:30 | 282 Model for Predicting Bathymetric and Grain Size Changes Based on Bagnold's Concept
• Noshi, Uda, Serizawa
- 16:50 | 283 Modeling on-Shore Sediment Transport Using Energetics Models
• Zhao, Kirby, Puleo
- 17:10 | 284 Sheetflow Sediment Transport Under Asymmetric Waves and Strong Currents
• Dong, Sato

E3 Numerical Modeling – Hua Liu

- 15:50 | 367 FVCOM: An Unstructured-Grid, Finite-Volume Ocean Model System Designed to Solve Multi-Scale Coastal Problems
• Chen, Beardsley, Ding
- 16:10 | 368 Downscaling Effects on Modelling Waves, Tides and Storm Surge
• Chen, Pan, Wolf
- 16:30 | 369 Application of LES-Stochastic Two-Way Model to Two-Phase Boundary Layer Flows
• Watanabe, Mitobe, Niida
- 16:50 | 370 Open Boundary Condition for Application in Numerical Coastal Circulation Models
• Ma, Madsen
- 17:10 | P41 2DV Numerical Model for the Effects of Fully Partially Submerged Bodies on Wave Propagation
• Pilechi, Badiei
- 17:15 | P42 Lagrangian Breaker Characteristics for Nonlinear Water Waves Propagating on Sloping Bottoms
• Chen, Li, Hsu
- 17:20 | P43 Flow Control and Mixing of Tidal Lake with Coastal Water in Saemangeum Dyke Area in Korea
• Kim, Lim, Cho

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July 2 Friday

A4 Wave Modelling II - Per Madsen

- 08:40 | 16 GPU-Accelerated SPH Model for Water Waves and Other Free Surface Flows
• Dalrymple, Hecault, Bilotta
- 09:00 | 17 SPH Modelling of Permeable Flow and Caisson Breakwater Movements
• Rogers, Dalrymple, Stansby
- 09:20 | 18 Modelling Water Entry of A Wedge by Multiphase SPH Method
• Gong, Liu
- 09:40 | 19 Volume-of-Fluid Model Comflow Applied in Wave Impact Studies
• Wenneker, Hofland
- 10:00 | 21 Numerical Simulations of Spilling Breaking Waves
• Lubin, StéGlockner, Kimmoun

B4 Estuary Environment and Management – Kuang

- 08:40 | 107 Evaluation of Inlet Management Practices at Four Navigation Inlets in Southwest and Central Florida, USA
• Dabees, Moore
- 09:00 | 108 Vegetation Effects of Channel Formation on Tidal Salt Marsh at Different Temporal Scales
• Ye, Roelvink, van der Wegen
- 09:20 | 109 Influence of Stokes Drift on Salt Wedge Intrusion Evaluated Using Fully-Nonlinear and Strongly-Dispersive Wave Equations
• Nakayama, Shintani, Kakinuma
- 09:40 | 110 Measurement of Suspended Sediment Around A Tidal Inlet
• Aoki, Kato, Okabe
- 10:00 | 111 Bolsa Chica Wetlands Restoration Inlet Design
• Jin, McCarthy

C4 Wave Impacts – Schäffer

- 08:40 | 195 Experimental Formula for the Wave-Induced Ship Mooring Force
• Meng, Gao, Zhang
- 09:00 | 196 Large Scale Wave Impacts on A Vertical Wall
• Hofland, Kaminski, Wolters
- 09:20 | 197 3D Large-Eddy Simulation of Water-Wave Impact During Violent Overtopping Events
• Lv, Zou, Reeve
- 09:40 | 198 Wave Loads on Exposed Jetties: Description of Large Scale Experiments and Preliminary Results
• Martinelli, Tirindelli, Alderson
- 10:00 | P21 Numerical Simulation of Breaking Wave Impact on A Structure Using A VOF Model
• Mokrani, Abadie, Zibouche
- 10:05 | P22 Numerical Simulation of Water Impact Involving Three Dimensional Rigid Bodies of Arbitrary Shape
• Hu, Causon, Mingham
- 10:10 | P23 Simulations with A Wave Impact Model in A FEM Package
• Sluijsmans, Verhagen
- 10:15 | P24 Wave Loads on and Beneath Bonded Permeable Revetments
• Ludwigs, Oumeraci, Staal

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D4 Sediment Transport IV – Stive

- 08:40 | 285 Flow and Sediment Transport Under A Plunging Solitary Wave
• Sumer, Sen, Karagali
- 09:00 | 286 Mechanism of Offshore Sand Discharge into Submarine Canyon Triggered by Constructing Detached Breakwater Close to Shoreline
• Yamada, Uda, Suwa
- 09:20 | 287 The Dependence of Suspended Sand Concentration on the Degree of Storm Development
• Kos'yan, Grüne, Divinskiy
- 09:40 | 288 Time-Averaged Turbulent Mixing and Vertical Concentration Distribution of High-Density Suspensions Formed Under Waves
• Yan, Zhang, Lamb
- 10:00 | 289 Applicability of Net Bedload Transport Rates Obtained in Oscillating Water Tunnels
• Gonzalez-Rodriguez, Madsen

E4 Tsunami Risk – Jongejan

- 08:40 | 371 The Java Tsunami Model: Using Highly-Resolved Data to Model the Past Event and to Estimate the Future Hazard
• Kongko, Schlurmann
- 09:00 | 372 Probabilistic Tsunami Risk Assessment in Cities Located in Meso and Macro Tidal Areas: Application to the Cádiz City (Spain)
• González, Olabarrieta, Otero
- 09:20 | 373 Tsunami Modelling and Risk Mapping for East Coast of Sabah, Malaysia
• Pedersen, Abdul Latif
- 09:40 | 374 Evaluation of Coastal Risk at Selected Sites Against Eastern Mediterranean Tsunamis
• Yalciner, Ozer, Karakus
- 10:00 | 375 Near-Field Tsunami Hazard Map Padang, West Sumatra: Utilizing High Resolution Geospatial Data and Reasonable Source Scenarios
• Schlurmann, Kongko, Goseberg

A5 Storm Surge I – Qin Chen

- 10:40 | 22 Long-Term Rise of Storminess near Poland: Possible Origin and Consequences
• Różyński, Pruszek
- 11:00 | 23 Validation of Vulnerability Assessment to Storms at the Catalan Coast (NW Mediterranean) During the Last 50 Years
• Jiménez, Sancho, Bosom
- 11:20 | 24 Vulnerability to Coastal Flooding Induced by Tropical Cyclones
• Posada-Vanegas, Durán-Valdez, Silva-Casarin
- 11:40 | 25 Application of the Regional Frequency Analysis to the Estimation of Extreme Storm Surges
• Bernardara, Andreewsky, Benoit

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B5 Estuary Morphology I – Johnson

- 10:40 | 112 Pilot Study on Navigation Channel Regulation Works in the North Channel, Yangtze Estuary
• Gao, Roelvink
- 11:00 | 113 Effect of Sand by Passing at Sakuma Dam in Tenryu River As A Measure Against Erosion of Tenryu River Delta Coast
• Miyahara, Uda, Furuike
- 11:20 | 114 Morphodynamic Processes in Estuaries-Comparison of Marine and Limnic Tidal Flats
• Albers, Much, Ohle
- 11:40 | 115 Numerical Modelling of Morphodynamic Changes in the Jade Estuary - Germany
• Gelfort, Ladage, Stoschek
- 12:00 | P7 Problems and Solutions at Salt and Fresh Water Separating Sea Locks
• Vrijburcht, Dorst
- 12:05 | P8 The Research of Regulation Measures on Braided Channel in Yalu River Estuary
• Cao, Zheng, Sun

C5 Wave-Structure Interaction I – Kriebel

- 10:40 | 199 Calculation of Permeability Parameter of Perforated Wall
• Suh, Kim, Ji
- 11:00 | 200 An Icelandic-Type Berm Breakwater for the Oakajee Port Project in Western Australia
• Sigurdarson, Mocke, Smarason
- 11:20 | 201 Hydrodynamic Performance of A Perforated Free-Surface Semicircular Breakwater
• Teh, Venugopal, Bruce
- 11:40 | 202 Response Analysis of Flapgate Breakwater for Tsunami and Storm Surge Protection
• Kimura, Niizato, Nakayasu
- 12:00 | P25 Evaluation of Wave Energy Dissipation Effect of Double Barrier Floating Breakwater
• Oki, Tsujimoto, Yuhi
- 12:05 | P26 Experimental Study on the Wave Decayed by Multi-Inclined Plates Submerged Breakwater
• Chen, Dai

D5 Beach and Dune Evolution I – Ranasinghe

- 10:40 | 290 Prediction of Formation of Dynamically Stable Ebb Tidal Delta and Measures for Preventing Offshore Sand Loss
• Uda, Serizawa, San-Nami
- 11:00 | 291 Field Observation of Beach Responses to Storm Waves at Hasaki in Japan
• Mizuguchi
- 11:20 | 292 Sediment Exchange Between the Sub-Aqueous and Sub-Aerial Coastal Zone
• de Vries, de Schipper, Stive
- 11:40 | 293 Modelling Shoreline Evolution Under A Wide Range of Climate Change Wave Scenarios
• Reeve, Zacharioudak

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E5 Tsunamis III– Takahashi

- 10:40 | 376 Tsunami Run-up on the Horizontal Beach
• Shugan, Hwung, Yang
- 11:00 | 377 Numerical Study on Tsunami Run-up and Inundation Influenced by Macro Roughness Elements
• Goseberg, Schlurmann
- 11:20 | 378 Three-Dimensional Numerical Analysis on Deformation of Run-up Tsunami and Tsunami Force Acting on Square Structures
• Nakamura, Mizutani, Fujima
- 11:40 | 379 Reflection and Run-up of Tsunami on Quay Wall and Behavior of Drifted Vessels Due to Tsunami
• Mizutani, Nakamura, Koike

A6 Wave Modeling III – Zou

- 13:30 | 26 Global Error Control and CPU-Time Minimization in Deterministic Wave Models Exemplified by A Fast Convolution-Type Model
• Schäffer
- 13:50 | 27 A Fully Nonlinear Boussinesq Model for Water Wave Propagation
• Zhang, Zhou, Hong
- 14:10 | 28 Green-Naghdi Modelling of Wave Transformation, Breaking and Runup, Using A High Order Finite-Volume Finite-Difference Scheme
• Tissier, Bonneton, Marche
- 14:30 | 29 Numerical Computation of Infragravity Wave Dynamics and Velocity Profiles Using A Fully Nonlinear Boussinesq Model
• Cienfuegos, Duarte, SuÁRez
- 14:50 | 30 Validation of A Double-Layer Boussinesq-Type Model for Highly Nonlinear and Dispersive Waves
• Chazel, Benoit, Ern
- 15:10 | 31 Boussinesq Modelling of Wave Propagation, Breaking, Runup and Overtopping
• Orszaghova, Borthwick, Taylor

B6 Coastal Protection I – Overton

- 13:30 | 116 Assessment of Alternative Beach Placement on Surfing Resources
• Miller, Mahon, Herrington
- 13:50 | 117 Ecologically Based Approach to Coastal Defence Design and Planning
• Zanuttigh, Losada, Thompson
- 14:10 | 118 Laboratory Experiment on Cross-Shore Barrier Evolution During Storms
• Nguyen, Larson, Donnelly
- 14:30 | 119 Reinforcement Performance of Geocell/Geogrid Systems for Inner Sea Dike Slopes Against Overflow
• Dang, Geisenhainer, Oumeraci
- 14:50 | 120 Arctic Artificial Island Shore Protection: Physical and Numerical Model Testing of Rock Berm and Steel Sheet Pile Perimeter Wall
• Sultan, Beynet, Cox
- 15:10 | 121 Application of Inspect System for the Analysis of Tide, Wave, Tsunami and Storm Surge on the Coasts of Shikoku Island, Japan
• Shibaki, Hara, Mimura

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C6 Wave-Structure Interaction II – Whalin

- 13:30 | 203 Design Methods for Pile-Supported Floating Wave Attenuators
• Kriebel
- 13:50 | 204 Hydraulic Performance of Bonded Permeable Elastomeric Revetments and Subsoil Response to Wave Loads
• Oumeraci, Staal, Pfortner
- 14:10 | 205 Semi-Analytical Formulae vs. Numerical Models for the Stability of Coastal Structures Made of Geotextile Sand Containers
• Recio, Oumeraci
- 14:30 | 206 IH-3VOF: A Three Dimensional Navier-Stokes Model for Wave and Structure Interaction
• Lara, Losada, del Jesus
- 14:50 | 207 Reassessing Reliability Based on Survived Loads
• Schweckendiek
- 15:10 | 208 Effect of Venting on Wave-in-Deck Loads
• Gaeta, Lamberti

D6 Beach and Dune Evolution II – Misra

- 13:30 | 294 On the initiation of Nearshore Morphological Rhythmicity
• de Schipper, Ranasinghe, Reniers
- 13:50 | 295 Wave-Induced Overwash and Destruction of Sand Dunes
• Figlus, Kobayashi, Gralher, Iranzo
- 14:10 | 296 Beach Morphologies at Notsukezaki Sand Spit, Japan
• Hayashi, Hashimoto, Yagisawa
- 14:30 | 297 The Effect of the Longshore Dimension on Dune Erosion
• van Thiel de Vries, Reniers
- 14:50 | 298 The Significance of Wave Reflection on the Morphology of Inter-Tidal Mudflats
• Chellew, Rossington, Townend
- 15:10 | 299 Development of Giant Cusp Along Tottori Sand Dune Coast
• Kimura, Kimura, Ohno

E6 Monitoring and Measurements I – Ole Madsen

- 13:30 | 380 Bed Shear Stress in Unsteady Flow
• Guard, Nielsen
- 13:50 | 381 On the Bottom Shear Stress in Long Wave Runup and Backwash
• Shimoazono, Okayasu, Mishima
- 14:10 | 382 HHT Analysis of Temporal Variation of Turbidity
• Kato, Larson, Okabe
- 14:30 | 383 Measurements of Particle Velocities and Trajectories in A Wave-Current Motion Using PIV and PTV
• Umeyama, Shintani, Watanabe
- 14:50 | 384 Swash Zone Bed Level Changes and Sediment Entrainment at the Surf-Swash Boundary
• Jensen, Aagaard, Baldock
- 15:10 | P44 Use of Multivariate Parameter Analysis and Videomagey Techniques for the Definition of 3-D Maps of Vulnerability
• Gómez, Molina, Castillo

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A7 Storm Surge II – Lin

- 15:50 | 32 Rapid Probabilistic Hurricane Surge and Damage Forecasting Using Surge Response Functions
• Irish, Udoh, Ferreira
- 16:10 | 33 The Numerical Simulation of Storm-Surge and Coastal Inundation of 2007 Typhoon Sepat
• Lin, Hwung, Fang
- 16:30 | 34 Storm Surge in Seto Inland Sea with Consideration of the Impacts of Wave Breaking on Surface Currents
• Lee, Yamashita, Komaguchi
- 16:50 | 35 Uncertainty of Extreme Storm Surge Estimation by High Wind Sea Surface Drag Coefficient and Future Typhoon Change
• Kawai, Hashimoto, Yamashiro
- 17:10 | 36 A Coastal Storms Intensity Scale and Induced Coastal Hazards for the NW Mediterranean
• Mendoza, Jiménez, Sánchez-Arcilla
- 17:30 | 37 A Multivariate Statistical Model for Advanced Storm Surge Analyses in the North Sea
• Wahl, JüJensen, Mudersbach

B7 Estuary Morphology II – He

- 15:50 | 122 Quantitative Prediction of Sand Discharge into Submarine Canyon off Morito River on Seisho Coast, Japan
• Furuike, Uda, Serizawa
- 16:10 | 123 A Process-Based Approach to Morphodynamics of the Yangtze Estuary
• Chu, Wang, de Vriend
- 16:30 | 124 Sediment Budgets Based on the Mass of Silt and Clay on Intertidal Flat Adjacent to River Mouth
• Yamada, Kobayashi, Shirakawa
- 16:50 | 125 Influence of Turbulence Closure on Estuarine Sediment Dynamics and Morphodynamics
• Amoudry, Souza
- 17:10 | 126 Dune Migration and Sand Transport Rates in Tidal Estuaries: The Example of the River Elbe
• Zorndt, Wurpts, Schlurmann
- 17:30 | P9 Morphological Response to the Deep Waterway Project Around the Changjiang Estuary, China
• Pan, Ding, Ge
- 17:35 | P10 Regulation Project of South and North Channel Bifurcation in Yangtze Estuary and Its Engineering Effect
• Zheng, Zhao, Zhang
- 17:40 | P11 Modeling Suspended Sediment Transport in A Tidal Estuarine System
• Liu, Lee
- 17:45 | P12 Modeling Sediment Transport in the Yellow River Mouth
• Zong, Ding, Shi
- 17:50 | P13 Refined Hydrodynamic Modelling of the Gironde Estuary, France
• Huybrechts, Van, Hervouet

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C7 Wave-Structure Interaction III – Nistor

- 15:50 | **209** Pressure Distributions on A Vertical Breakwater: Experimental Study and Scale Effects
• Pérez Romero, Correa, Ortega-Sánchez
- 16:10 | **210** Study on the Performance-Based Design for Breakwater with Wave Dissipating Block
• Seki, Arikawa, Mizutani
- 16:30 | **211** Simulation of Irregular Wave Pressure on Perforated Breakwaters
• Chen, Li, Kong
- 16:50 | **212** Experimental Results of Breaking Wave Impact on A Vertical Wall with An Overhanging Horizontal Cantilever Slab
• Kisacik, Troch, van Bogaert
- 17:10 | **213** Study of Reflection of New Low-Reflectivity Quay Wall Caisson
• Garrido, Ponce de León, Berruguete
- 17:30 | **214** An Ensemble Modelling for the Assessment of Random Wave-Induced Liquefaction Risks
• Dong, Xu
- 17:50 | **P27** Characteristics of Vortex Shedding Process Induced by Solitary Waves Propagating over Submerged Structures
• Ho, Lin, Hwang
- 17:55 | **P28** A Statistical Model for Damage Accumulation in Breakwaters
• Castillo, Molina, Gómez
- 18:00 | **P29** Numerical Analysis of Deformation Based Design for Caissons
• Cihan, Arı, Yüksel
- 18:05 | **P30** Physical Experiment and Numerical Simulation of Waves on Perforated Caisson Wharf
• Jiang, Chen, Ge

D7 Sediment Transport Modeling – Rozynski

- 15:50 | **300** Investigation of Sediment Transport and Ripple Dynamics Under Strong Waves and Tidal Current in the Presence of Near Shore Breakwaters
• Li, Spanakis, Thorn
- 16:10 | **301** Cross-Shore Transport on Gravel Beaches
• Hicks, Kobayashi, Puleo
- 16:30 | **302** Numerical Simulations of Sediment Transport Induced by the 2004 Indian Ocean Tsunami near the Kirinda Port in Sri-Lanka
• Kihara, Matsuyama
- 16:50 | **303** Simulation of Sorting Sedimentation in the Channel of Huanghua Harbor by Using 3D Multi-Sized Sediment Transport Model of EFDC
• Zhang, Tao, Wang
- 17:10 | **304** Numerical Study of the Morphodynamic Change of An Intertidal Flat Due to Tidal and Coastal Currents
• Uzaki, Kuriyama, Sakamoto
- 17:30 | **305** Planform Optimization Due to Sediment Deposition Inside Harbors
• Hejazi, Soltanpour, Jafari
- 17:50 | **306** An Implicit 2-D Depth-Averaged Finite-Volume Model of Flow and Sediment Transport in Coastal Waters
• Wu, Sanchez, Zhang

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July 2 Friday

E7 Sea Level Rise and Climate Change – Jiménez

- 15:50 | **385** Fuzzy Vulnerability Assessment of Coastal Areas to Sea Level Rise
• Ozyurt, Ergin, Baykal
- 16:10 | **386** Assessing Present and Future Mediterranean Sea Level Rise Impact on Israel's Coast & Mitigation Ways Against Beach and Cliff Erosion
• Rosen
- 16:30 | **387** Improved Estimates of Sea Level Change in the South-Eastern North Sea Since 1844
• Jensen, Wahl, Frank
- 16:40 | **388** Investigations to the Effects of Climate Changes to the Sea State at the German Part of the Baltic Sea
• Schlamkow, Dreier, Fröhle,
- 17:10 | **389** Evaluating the Consequences of Climate Change for Coastal Zone Habitats in England
• Bain, Sayers, Brooks
- 17:30 | **390** An Attempt to Homogeneously Describe 60 Years Statistics of Tropical Cyclone Activity in E Asia, 1948-2007
• von Storch, Feser, Barcikowska
- 17:50 | **P45** Wave Climate Change Projection at the End of 21st Century
• Shimura, Mori, Yasuda
- 17:55 | **P46** An Empirical Approach to Detect An Accelerated Sea-Level Rise
• Fickert, Strotmann
- 18:00 | **P47** Coastal Disasters Impact by Sea Level Rise in Chaiyi Coast
• Chen, Kuo
- 18:05 | **P48** Bribie Island Tidal Breakthrough Risk Analysis
• Colleter, Charteris, Duperray

Conference Program

July 3 Saturday

A8 Storm Surge III – Tomita

- 14:00 | 38 Forecasting Storm Surge in Coastal Mississippi -- A Data Mining Approach
• Das, Jung, Ebersole
- 14:20 | 39 Prediction of Storm Surge Intensity in Coastal Disaster Evaluation
• Dong, Ji
- 14:40 | 40 Investigation of Wave Induced Storm Surge within A Large Coastal Embayment - Moreton Bay (Australia)
• Treloar, Taylor, Prenzler
- 15:00 | 41 An Advanced Statistical Extreme Value Model for Evaluating Storm Surge Heights Considering Systematic Records and Climate Scenarios
• Mudersbach, Jensen
- 15:20 | 42 A Real-Time Storm Surge Prediction and Visualization System
• Zhang, Li, Shen
- 15:40 | 43 Stochastic Typhoon Model and Its Application to Future Typhoon Projection
• Yasuda, Mase, Kunitomi

B8 Coastal Protection II – Steetzel

- 14:00 | 127 Increasing Overtopping Security as A Countermeasure to Accelerating Sea-Level Rise
• Niemeyer, Kaiser, Berkenbrink
- 14:20 | 128 How to Decide When to Adapt Coastal Protection to Climate Change
• Soerensen, Jensen, Klagenberg
- 14:40 | 129 Storm Beach Buffer Requirement for Storm Waves from A Tropical Cyclone
• Lee, Lin, Hsu
- 15:00 | 130 Design of A Coastal Protection Scheme for Ada at the Volta-River Mouth (Ghana)
• Trouw, Lerouge, Hoffman
- 15:20 | 131 An Experimental Study of Flow Characteristics of Submerged Rigid and Flexible Vegetation on Tideland
• Xu, Dong, Feng
- 15:40 | 132 State-of-the-Art in Japan on Controlling Wind-Blown Sand on Beaches
• Hotta, Harikai

Conference Program

July 3 Saturday

C8 Wave-Structure Interaction IV– Suh

- 14:00 | 215 Jetties at Bodega Bay Harbor
• Magoon, Treadwell
- 14:20 | 216 Gravel Beaches with Seawalls
• van der Werf, van Gent
- 14:40 | 217 Wake Effects Behind A Farm of Wave Energy Converters for Irregular Long-Crested and Short-Crested Waves
• Troch, Beels, de Rouck
- 15:00 | 218 Large Model Tests of Drifting Container Impact Force Due to Surge Front Tsunami
• Arikawa, Tomita, Takahashi
- 15:20 | 219 Multiphase Modeling of Wave Propagation over Semicircular Obstacles Using WENO and Level Set Methods
• Kasem, Sasaki
- 15:40 | 220 The Interaction of Oblique Waves with A Partially Immersed Wave Absorbing Breakwater
• Liu, Li

D8 Beach and Dune Evolution III – Sumer

- 14:00 | 307 Suspended Sediment Based Beach Morphology Model Applied to Submerged Groin System
• Uno, Goda, Ono
- 14:20 | 308 Reliability of Dune Erosion Assessment Along Curved Coastlines
• Hoonhout, den Heijer
- 14:40 | 309 Experimental Analysis of Erosive Cohesive Coastline Morphology
• Caplain, Astruc, Regard
- 15:00 | 310 Erosion Due to High Flow Velocities: A Description of Relevant Processes
• Bisschop, Visser, van Rhee
- 15:20 | 311 Beach Erosion Control on Haeundae Beach in Korea
• Kim, Widayati
- 15:40 | 312 Application of Xbeach to Model Storm Response on A Macrotidal Gravel Barrier
• de Alegria-Arzaburu, Williams, Masselink

E8 Storm Disasters – Pyun

- 14:00 | 391 Immediate Impacts of Hurricane Ike on the Texas Coast
• Edge, Ewing, Dean
- 14:20 | 392 Inundation and Destruction on the Bolivar Peninsula During Hurricane Ike
• Kennedy, Dosa, Zarama
- 14:40 | 393 Breaching of Sea Dikes
• Bernitt, Lynett
- 15:00 | 394 Characteristics of Harbor Damage by Cyclone Nargis in 2008
• Hiraishi
- 15:20 | 395 Comparison of Storm Surge Disasters in Asia ---Cases of Cyclones Sidr in 2007 and Nargis in 2008
• Shibayama
- 15:40 | 396 Is South Africa's Coast Ready for Climate Change? Analysis of Recent Storm Damage
• Phelp, Rossouw, Theron

Conference Program

July 3 Saturday

A9 Wave Propagation I – Guohai Dong

- 16:20 | 44 Application of A Parametric Wave Transformation Model on A Coral Reef
• Su, Sheremet, Smith
- 16:40 | 45 Experimental and Numerical Studies on Wave Transformation over Artificial Reefs
• Ou, Hsu, Lin
- 17:00 | 46 Oblique Wave Transmission Through Rough Impermeable Rubble Mound Submerged Breakwaters
• Vanlighthout, Verhagen, Troch
- 17:20 | 47 Using the Rasinterfoam CFD Model for Wave Transformation and Coastal Modelling
• Morgan, Zang, Greaves
- 17:40 | 48 Numerical Analyses on Propagation of Nonlinear Internal Waves
• Yamashita, Kakinuma, Nakayama
- 18:00 | 49 Wave-Flume Experiments of Dissipating Waves on Soft Mud
• Soltanpour, Samsami
- 18:20 | P1 Model-Data Comparisons of the Fraction of Breaking Waves and Implications for the Modeling of Dissipation
• Catalan, Haller
- 18:25 | P2 Momentum Balance Under Plunging Breakers: The Role of Advection in Sediment Mobilisation and Transport
• Torres-Freyermuth, án Pedrozo-Acuña, Reeve

B9 Coastal Protection III – Ewing

- 16:20 | 133 Examination of Climate Change Adaptation Strategies for Coastal Protection
• Kaiser, Knaack, Niemeyer
- 16:40 | 134 Extreme Scenarios for Coastal Protection at the North Sea--A Numerical Model Study
• Bruss, Gönnert, Mayerle
- 17:00 | 135 Design of A Sandy Protection of A Mayor Sea Dike in the Netherlands
• Steetzel
- 17:20 | 136 Weathering of Rock as Armoustone: A Case Study on Bahrain Limestone
• Caricato, Woods, Mohan
- 17:40 | 137 Environmentally Friendly Beach Restoration in the Seychelles
• Smith, Soltau, du Plessis
- 18:00 | 138 Optimum Condition on Stability of Artificial Beach with A Gravel Filter Layer Under Irregular Wave Actions
• Tsujimoto, Hosoyamada, Kakinoki
- 18:20 | P14 Coastal Protection Concepts in A Changing Climate: the THESEUS Approach
• Barbara Zanuttigh
- 18:25 | P15 Hydraulic Stability of Tunnel Protection, Busan - Geoje Link, S. Korea
• Uguccioni, Truelsen, Jackson

Conference Program

July 3 Saturday

C9 Wave-Structure Interaction V – Losada

- 16:20 | 221 Analysis of Soliton Fission over A Submerged Structure Using “Nonlinear Fourier Transform”
• Brühl, Oumeraci
- 16:40 | 222 3D Simulation of Wave Interaction with Permeable Structures
• Wellens, Borsboom, van Gent
- 17:00 | 223 Wave Structure Interaction: Role of Entrapped Air on Wave Impact and Uplift Forces
• Bozorgnia, Lee, Raichlen
- 17:20 | 224 Development on Offshore Structure with Wave Force Reduction
• Anno, Nishihata
- 17:40 | 225 Practical Measures Against Sea Salt Particles from An Existing Vertical Wall
• Yamashiro, Yoshida, Nishii
- 18:00 | 226 Loads on Wind Turbines Access Platforms with Gratings
• Andersen, Frigaard, Rasmussen
- 18:20 | 227 The Influence of Core Permeability on the Stability of Concrete Armour Layers, Case Study Ijmuiden Breakwaters
• Dorst, Reedijk, van Zwicht

D9 Beach and Dune Evolution IV – Dabees

- 16:20 | 313 An Analytical Model to Predict Dune Notching Due to Wave Impact
• Larson, Bayram, Sunamura
- 16:40 | 314 The Effect of Longshore Topographic Variation on Overwash Modelling
• McCall, Plant
- 17:00 | 315 Effects of Coastal Landform Changes on Storm Surge Along the Hatteras Island Breach Area
• Kurum, Mehran, Kumar
- 17:20 | 316 Morphological Development of the Rif and the Engelsmanplaat, An Intertidal Flat Complex in the Frisian Inlet, Dutch Wadden Sea
• Wang, Oost
- 17:40 | 317 Post-Monitoring of An Artificially Nourished Bay Beach Site after Storms at Sizihwan in Taiwan
• Wu, Hsu, Lee
- 18:00 | 318 Numerical Model of 3D Morphodynamic After Offshore Nourishment
• Kuroiwa, Shibusaki, Matsubara

E9 Flood Risk – Jonkman

- 16:20 | 397 To Risk or not to Risk: Many Questions -- Few Answers
• Kortenhaus, Oumeraci
- 16:40 | 398 Failure Probability of Flood Defence Structures/ Systems in Risk Analysis for Extreme Storm Surges
• Naulin, Kortenhaus, Oumeraci
- 17:00 | 399 New Safety Standards for Coastal Flood Defences in the Netherlands
• Jonkman, Jongejan, Maaskant
- 17:20 | 400 Integrated Flood Risk Analysis for Extreme Storm Surges
• Burzel, Kortenhaus, Oumeraci
- 17:40 | 401 Coastal Management and Disaster Planning on the Basis of Flood Risk Calculations
• Mertens, Verwaest, Delgado
- 18:00 | 402 Barrier Island Restoration for Storm Damage Reduction: Willapa Bay, Washington, USA
• Michalsen, Babcock, Lin

Conference Program

July 4 Sunday

A10 Wave Propagation II – Sheremet

- 08:40 | 50 Experimental and Numerical Studies on Wave Propagation over Coarse Grained Sloping Beach
• Lai, Hsu, Lan
- 09:00 | 51 Practical Application of A Jacket Type Breakwater with A Water Cahmber to the Fishing Port
• Nakamura, Kouno
- 09:20 | 52 A Numerical Model for Wave Propagation over Muddy Slope
• Niu, Yu
- 09:40 | 53 Wave Transformation and Wave-Driven Circulation on Natural Reefs Under Extreme Hurricane Conditions
• Mariño-Tapia, Silva-Casarín, Enriquez-Ortiz
- 10:00 | 54 Experimental Research on Coefficient of Wave Transmission Through Immersed Vertical Barrier of Open-Type Breakwater
• Ju, Li, Yang

B10 Coastal Protection IV – Zanuttigh

- 08:40 | 139 Climate Change, Sea Level Rise and Coastal Protection - Adaptation Strategies for Sandy Coasts -
• Fröhle
- 09:00 | 140 Comparison of Geosynthetic Materials as Substrates on Coastal Structures - Gold Coast (Australia) and Arabian Gulf
• Corbett, Jackson, Restall
- 09:20 | 141 Coastal and Maritime Plan at Ostend: Design of Soft and Hard Protection Measures
• Gysens, Willems, De Rouck
- 09:40 | 142 Opportunities and Drawbacks of Mobile Flood Protection Systems
• Koppe, Brinkmann
- 10:00 | 143 Local Concentration of Slowly Varying Wave and Current Fields Around the Abruptly Changing Bottom Slopes Along the Shore
• Tajima, Sato

C10 Waves in Harbors - Smith

- 08:40 | 228 Harbor Resonance: A Comparison of Field Measurements to Numerical Results
• Xing, Lee, Raichlen
- 09:00 | 229 Quay Design and Operational Oceanography. The Case of Bilbao Harbour
• Sánchez-Arcilla, Espino, Grifoll
- 09:20 | 230 On Basic Conditions for Long-Wave Simulations in Harbors by the Boussinesq Model
• Ota, Yoshida, Yamashiro
- 09:40 | 231 Investigation of Long Period Waves and Reduction of Harbor Resonance in Gamcheon Port, Korea
• Shin, Kim, Pyun
- 10:00 | 232 Numerical Modelling of Wave Penetration in Ostend Harbour
• Stratigaki, Vanneste, Troch

Conference Program

July 4 Sunday

D10 Morphodynamics I – Tao

- 08:40 | 319 Empirical Relationship Between Inlet Cross-Section and Tidal Prism
• Stive, Li, Brouwer
- 09:00 | 320 What Determines Nearshore Sandbar Response?
• Smit, Reniers, Stive
- 09:20 | 321 Stability and Engineering Effect of Shoals and Channels in Caofeidian Deep-Water Harbor Area, China
• Lu, Ji, Zuo
- 09:40 | 322 Seasonal and Storm-Scale Morphodynamics of A Meso-Tidal Nourished Beach Fronted by Nearshore Rock Structures
• Taylor, O'Donoghue
- 10:00 | P31 Model for Predicting Formation of Bay Barrier
• Serizawa, Ud
- 10:05 | P32 A Hydro-Morphodynamic Numerical Model of A Wadden Sea Area
• Falke, Albers, Pasche
- 10:10 | P33 Coastal Area Morphological Simulation of A Migrating Tidal Inlet
• Williams, Pan, Williams
- 10:15 | P34 Near Shore Morphodynamic of Drained Beaches
• Damiani, Petrillo, Saponieri

E10 Monitoring and Measuring Devices – Yang-Yih Chen

- 08:40 | 403 Lagrangian Drogue-Based Drifter for Monitoring Suspended Sediment Transport in Intertidal Environment
• Nishi, Lemckert, Hayashi
- 09:00 | 404 The Best Way of Measuring Flow Patterns on Tidal Marshes
• Horstman, Balke, Dohmen-Janssen
- 09:20 | 405 Airborne Lidar Bathymetry Applied to Coastal Hydrodynamic Processes
• Long, Aucoin, Montreuil
- 09:40 | 406 Field Measurement of Aeolian Sand Flux Using Ceramic Sand Flux Sensor UD-101 at A Sand Dune
• Udo, Junaidi, Mitsushio

A11 Wave Analysis I – van der Westhuysen

- 10:40 | 55 New Conundrums in Extreme Wave Climate Analysis
• Mendez, Losada, Minguez
- 11:00 | 56 Statistical Equivalence of Wave Systems from Hindcast and Observations
• Loffredo, Anderson, Monbaliu
- 11:20 | 57 Evaluation of Wave Climate Schematization Methodologies for Morphological Models over Engineering Time-Scales
• Benedet, Dobrochinski, Klein
- 11:40 | 58 Spatial Variations of Ocean Surface Waves Measured by Terrasar-X and Nautical X-Band Marine Radar
• Lehner, Li, Pleskachevsky

Conference Program

July 4 Sunday

B11 Beach and Coastal Evolution I – Verhagen

- 10:40 | 144 A Morphological Evolution Model Including Erosion and Accretion
• Johnson
- 11:00 | 145 Numerical Calculation on Shoreline Conservation in Majuro Atoll, Marhsall Islands
• Sato, Yokoki
- 11:20 | 146 The Bar-Berm Dynamics of A Composite Beach
• Grandes, Kingston, Simmonds
- 11:40 | 147 Long-Term Monitoring on the Sand Spit Morphodynamics at the Tenryu River Mouth
• Liu, Tajima, Sato

C11 Wave Runup – van der Meer

- 10:40 | 233 On the Effect of Wind and Current on Wave Run-up and Wave Overtopping
• Lorke, Brüning, Bornschein
- 11:00 | 234 Regular Periodic Waves Runup and Overtopping Simulations by Lagrangian Blocks
• Tan, Chu
- 11:20 | 235 Propagation and Run-up of Tsunami Waves with Boussinesq Model
• Zhao, Wang, Liu
- 11:40 | 236 Extreme Wave Runup on Natural Beaches
• Mather, Stretch, Garland

D11 Morphodynamic Modeling I – Miller

- 10:40 | 324 A Methodology to Simulate Medium Term Morphological Changes in A Practical Computing Time
• Jimenez, Mayerle
- 11:00 | 325 Morphodynamic Upscaling with the MORFAC Approach
• Ranasinghe, Swinkels, Luijendijk
- 11:20 | 326 Detailed Morphological Modeling with Delft3D; A Quest for Optimal Free Parameter Settings
• Brière, Giardino, van der Werf

E11 Monitoring and Measurements II – Sheng Dong

- 10:40 | 407 Comparative Analysis of Suspended Sand Concentration with Different Techniques in A Rippled Bed Regime
• Ahmari, Oumeraci, Gruene
- 11:00 | 408 Optical Techniques for Measuring Swash Zone Morphodynamics
• Stancanelli, Musumeci, Marini
- 11:20 | 409 Measurements of the Steady Currents Outside the Surf Zone
• Scandura, Capodicasa, Foti
- 11:40 | 410 Seepage Flow in A Breaker Zone
• Kakinuma, Ohishi, Nakamura

Conference Program

July 4 Sunday

A12 Wave Analysis II – Yu

- 13:30 | 59 Incorporation of Weibull Distribution in L -Moments Method for Regional Frequency Analysis of Peaks-over-Threshold Wave Heights
• Goda, Kudaka, Kawai
- 13:50 | 60 Wave Height Distributions in Shallow Waters
• Mai, Wilhelmi, Barjenbruch
- 14:10 | 61 Improved Determination of Directional Wave Spectrum for Swell Waves Using X-Band Radar Imaging
• Yoo, Lee, Jun
- 14:30 | 62 Separation of Low-Frequency Waves by An Analytical Method
• Ma, Dong, Ma
- 14:50 | 63 Verification of A Modified Bayesian Method for Estimating Directional Wave Spectra From HF Radar
• Lukijanto, Hashimoto, Yamashiro
- 15:10 | 64 Applying Bivariate HHT to Horizontal Velocities of Multi-Directional Waves
• Moura, Neves, Telles

B12 Beach and Coastal Evolution II – Hanson

- 13:30 | 148 Long-Term Evolution of Sand and Gravel Beaches on the Miyazaki Coast
• Sato, Kishimoto, Hiramatsu
- 13:50 | 149 The Influence of Pre-Existing Bed-Forms on Crescentic Bed Pattern Development
• Tiessen, Dodd, Garnier
- 14:10 | 150 Aerial Photograph of Sendai Coast for Shoreline Behavior Analysis
• Pradjoko, Tanaka
- 14:30 | 151 Modelling the Long Term Effect of Climate Change on Cliff-Shore Morphology of North Norfolk, UK
• Chini, Stansby, Walkden
- 14:50 | 152 Assimilating Models and Data to Enhance Predictions of Shoreline Evolution
• Long, Plant
- 15:10 | 153 Characterisation of Mixed Beach Sediment
• She, Yu, Thomas

C12 Breakwater Stability – Oumeraci

- 13:30 | 237 Stability of Breakwater Roundheads During Construction
• van Gent
- 13:50 | 238 Oblique Wave Attack on Cube and Rock Armoured Rubble Mound Breakwaters
• Wolters, van Gent
- 14:10 | 239 Validity of Simplified Analysis of Stability of Caisson Breakwaters on Rubble Foundation Exposed to Impulsive Loads
• Andersen, Burcharth, Andersen
- 14:30 | 240 Toe Rock Stability of Rubble Mound Breakwaters
• Baart, Ebbens, Nammuni-Krohn
- 14:50 | 241 Stability of Rubble Mound Breakwaters in Shallow Water and Surf Zone: An Experimental Study
• Prévot, Bouchet, Trmal
- 15:10 | 242 Modified Goda Formula to Simulate Sliding of Composite Caisson Breakwater
• Esteban, Takagi, Shibayama

Conference Program

July 4 Sunday

D12 Morphodynamics II – Lu

- 13:30 | 327 Morphodynamic Modeling of A Tidal Channel Near An Oil Platform Using Process-Based Model
• Nguyen, Etri, Runte
- 13:50 | 328 Long-Term Approach for Morphodynamic Processes in Tidal Marsh-Watercourses
• Donner, Pasche, Nehlsen
- 14:10 | 329 A First Investigation into the Impact of Very Large-Scale Offshore Sand Mining Along the Dutch Coast
• van der Werf, Giardino, Mulder
- 14:30 | 330 Investigating the Morphodynamic Characteristics of the Great Yarmouth Bank System
• Bakare, Simons, Morley
- 14:50 | 331 Impact of Mega-Scale Sand Extraction on Tidal Dynamics in Semi-Enclosed Basins
• de Boer, Roos, Hulscher, Stolk
- 15:10 | 332 Effects of Wave-Current Interaction on A Submarine Sand Pit Morphodynamics
• Faraci, Foti, Marini

E12 Nourishment Performance I – Basco

- 13:30 | 411 Experimental Study Investigating Various Shoreface Nourishment Designs
• Walstra, Hoyng, Tonnon
- 13:50 | 412 Formation of Dynamically Stable Lakeshore Under Seasonally Changing Wave Direction
• Ishikawa, Uda, San-Nami
- 14:10 | 413 Beach Nourishment in China: tatus and Future Prospects
• Cai, Dean
- 14:30 | 414 Modeling Biogeomorphological Interactions in Underwater Nourishments
• Borsje, van der Werf, Kruijt
- 14:50 | 415 Performance Analysis of the Emergency Nourishment Project on West Beach of Beidaihe, China
• Yang, Zhang, Kuang
- 15:10 | 416 Artificial Nourishment and Sand by-Passing in the Aveiro Inlet, Portugal - Numerical Studies
• Coelho, Silva, Veloso-Gomes

Conference Program

July 4 Sunday

A13 Wave Attenuation – Houston

- 15:50 | 65 The Effectiveness of Mangroves in Attenuating Cyclone-Induced Waves
• Narayan, Suzuki, Stive
- 16:10 | 66 Effects of Coastal Vegetation Species and Ground Slope on Storm Surge Disaster Mitigation
• Das, Imura, Tanaka
- 16:30 | 67 Global and Local Processes of Tsunami Attenuation by Mangrove Forest - Scale Model Test Results
• Husrin, Strusińska, Oumeraci
- 16:50 | 68 Experimental Research on Pore Pressure Attenuation in Rubble Mound Breakwaters
• Vanneste, Troch
- 17:10 | 69 Attenuation of Waves by Surface Turbulence
• Beya, Peirson, Banner
- 17:30 | 70 Response of Posidonia Oceanica Plants to Wave Motion in Shallow-Waters - Preliminary Experimental Results
• Cavallaro, Re, Paratore
- 17:50 | 71 Numerical Analysis of Bulk Drag Coefficient in Dense Vegetation by Immersed Boundary Method
• Suzuki, Arikawa

B13 Beach and Coastal Evolution III – Brøker

- 15:50 | 154 Modeling Long-Term Beach Change Under Interacting Longshore and Cross-Shore Processes
• Hanson, Larson, Kraus
- 16:10 | 155 Sand Accumulation in Wave Shelter Zone of Oharai Port and Change in Grain Size of Bed Material on Nearby Coast
• Matsu-ura, Uda, Kumada
- 16:30 | 156 Modelling Infiltration on Gravel Beaches with An Xbeach Variant
• Jamal, Simmonds, Magar
- 16:50 | 157 Shoreline Rotation Caused by Large-Scale Excavation of Reef Flat on Sanur Beach in Bali
• Endo, Kobayashi, Uda
- 17:10 | 158 Spatial and Temporal Variability of Longshore Transport Along Gold Coast, Australia
• Splinter, Golshani, Stuart
- 17:30 | 159 On Modelling Beach Profile Evolution
• Karunaratna, Reeve, Spivack
- 17:50 | 160 Passage Rate of Bedload Transport Due to A Groin in Consideration of Wave Climate
• Nakamura

Conference Program

July 4 Sunday

C13 Breakwater Design – Burcharth

- 15:50 | 243 Geotechnical Design of A Breakwater in Ostend (Belgium) on Very Soft Soil
• de Rouck, van Doorslaer, Goemaere
- 16:10 | 244 Caisson Breakwater Design for Sliding
• Hutchinson, Young, Macleod
- 16:30 | 245 Basic Design of the Pars Petrochemical Port Breakwaters Within A Region of Deep Water and High Seismic Activity
• Banijamali, Banijamali
- 16:50 | 246 Optimization of Caisson Breakwaters Using A 2DV RANS-VOF Numerical Model
• Misra, Narayanaswamy, Shi
- 17:10 | 247 Optimizing Breakwater Design Considering the System of Failure Modes
• Campos, Castillo, Molina
- 17:30 | 248 Optimal Design of Detached Breakwaters in Ports Using Numerical Algorithms
• ElChahal, Younes, Lafon
- 17:50 | 249 The Deformation Analysis and Meso Observation Tests of Pile Side Fine Sand Under Lateral Loading
• Liu, Guo, Deng

D13 Wave Boundary Layers – van Vledder

- 15:50 | 333 Vertical Scales and Shear Stresses in Wave Boundary Layers over Movable Beds
• Nielsen, Guard
- 16:10 | 334 Simulation of Turbulent Wave Boundary Layers on Spatially Varying Bottom Roughness
• Fuhrman, Sumer, Fredsøe
- 16:30 | 335 Wave Boundary Layer Hydrodynamics During Onshore Bar Migration
• Henriquez, Reniers, Ruessink
- 16:50 | 336 Lattice Boltzmann Simulation to Characterize Roughness Effects of Oscillatory Boundary Layer Flow over A Rough Bed
• Ding, Zhang
- 17:10 | 337 Boundary Layer Flow and Sand Transport Under Full Scale Surface Waves
• Schretlen, Ribberink, O'Donoghue
- 17:30 | 338 Numerical Model of Current and Sediment Transport in the Wave Boundary Layer
• Zhu, Ma, Wang

Conference Program

July 4 Sunday

E13 Nourishment Performance II – Uda

- 15:50 | 417 Field Experiment on Beach Nourishment Using Gravel at Jinkoji Coast
• Kumada, Uda, Matsu-ura
- 16:10 | 418 Detailed Planning of Beach Nourishment Based on Monitoring of Coastline Undulations and Dune Erosion
• Madsen, Knudsen, Soerensen
- 16:30 | 419 Morphodynamic Modeling of the Dutch “Sand Engine” Mega-Nourishment Pilot
• Tonnon, Mulder
- 16:50 | 420 Shoreline Sand Waves and Beach Nourishments
• van den Berg, Falqués, Ribas
- 17:10 | 421 Comparison of Tidal Currents Under Different Nourishment Schemes on West Beach of Beidaihe, China
• Kuang, Zhang, He
- 17:30 | 422 Sand Engine: Pro-Active Response to Sea Level Rise by Upscaling of Nourishments
• Mulder, Luijendijk, Tonnon

Conference Program

July 5 Monday

A14 Wave Breaking – Goda

- 08:40 | 72 Breaking Criteria for Laboratory Experiments Based on the Phase-Time Method (PTM)
• Irschik, Oumeraci, Schimmels
- 09:00 | 73 Short Wave Breaking Effects on Low Frequency Waves
• Daly, Roelvink, van Dongeren
- 09:20 | 74 Bore Propagation Speed at the Termination of Wave Breaking
• Okamoto, Fortes, Basco
- 09:40 | 75 Wave Breaking over Submerged Breakwaters
• Penchev, Shukrieva
- 10:00 | 76 Spectral Description of Energy Dissipation in Breaking Wave Groups
• El Safty, Kaihatu

B14 Beach and Coastal Evolution IV – Walstra

- 08:40 | 161 Modeling Regional Sediment Transport and Shoreline Response in the Vicinity of Tidal Inlets on the Long Island Coast, United States
• Hoan, Hanson, Larson
- 09:00 | 162 A Hybrid Model of Swash-Zone Longshore Sediment Transport on Reflective Beaches
• Jiang, Hughes, Cowell
- 09:20 | 163 Sorting and Selective Movement of Sediment on Coast with Steep Slope- Measurements and Prediction
• San-Nami, Uda, Serizawa
- 09:40 | 164 An Introduction to Event-Based Model for the Study of Sediment Transport in the Swash Zone
• Shanehsazzadeh, Holmes
- 10:00 | 165 Short-Term Swash Zone Beach Profile Change Model Focusing on Berm Formation and Erosion
• Suzuki, Kuriyama

C14 Loading of Structures – van Gent

- 08:40 | 250 Wave Loads and Stability of New Foundation Structure for Offshore Wind Turbines Made of Ocean Brick System (OBS)
• Pfoertner, Oumeraci, Kudella
- 09:00 | 251 An Experimental Study of Wave and Current Forces on An Array of Vertical Cylinders
• Kudeih, Nistor, Cornett
- 09:20 | 252 Numerical Simulation of the Uplift Wave Forces of Submerged Platforms
• Liu, Jin, Jing
- 09:40 | 253 Experimental Study on the Loading and Scour of the Jacket Type Offshore Wind Turbine Foundation
• Chen, Yang, Jiang
- 10:00 | 254 Stability of Girder Bridge Against Tsunami Fluid Force
• Araki, Ishino, Deguchi

Conference Program

July 5 Monday

D14 Morphodynamic Modeling II – Mulder

- 08:40 | 339 Medium-Term Morphodynamic Modelling of Mixed Mud and Sand in the Tidal Basin Jadebusen
• Witting, Wehmeyer, Niemeyer
- 09:00 | 340 Application and Validation of Xbeach for Three Different Field Sites
• Bolle, Mercelis, Roelvink
- 09:20 | 341 Generating Initial Bed Composition for Long-Term Morphological Modeling of Tidal Basins
• Dastgheib, van der Wegen, Roelvink
- 09:40 | 342 Long Term Modelling of Coastal Morphology
• Kristensen, Deigaard, Taaning
- 10:00 | 343 A Case Study of Hydrodynamic and Morphological Modeling of A Re-Migrating Inlet
• Sorourian, Banijamali

E14 Water Quality – Townend

- 08:40 | 423 Measurement of Dissolved Carbon Dioxide Concentration in A Surf Zone
• Otsuka, Watanabe, Saruwatari
- 09:00 | 424 Towards A Generic Modeling Framework for the Assessment of the Contribution of Estuaries for Nutrient Fluxes and CO₂ Pumping
• Spiteri, Regnier, Arndt
- 09:20 | 425 Spatial Distribution of Hypoxic Water Mass Based on A Monitoring Campaign of Bay Environment at Tokyo Bay, Japan
• Horie, Furukawa, Okada
- 09:40 | 426 A Practical Methodology for Estimating Wave and Dissolved Oxygen Transmission in Harbor Basins Through Flushing Culverts
• Gaitanis, Tsoukala, Stamou
- 10:00 | P49 Development of A Hydrodynamic and Water Quality Model for the Los Angeles and Long Beach Harbors
• Poon, Kimura, Jirik
- 10:05 | P50 Water Quality Improvement After Establishing Seawater Exchange System at Jumunjin Harbor in Korea
• Oh, Lee, Lee

A15 Wind-Generated Wave – Groeneweg

- 10:40 | 77 Revisiting the Jonswap Bottom Friction Formulation in Wind-Driven Storm Seas
• van Vledder, Zijlema, Holthuijsen
- 11:00 | 78 Wave Growth Under Variable Wind Conditions
• Alomar, Bolaños- Sánchez, Sanchez-Arcilla
- 11:20 | 79 Study of Hurricane Ike (2008) Nearshore Waves: Simulations and Measurements
• Bender, Smith, Kennedy
- 11:40 | 80 Development of An Inverse Estimation Method of Sea Surface Drag Coefficient Under Strong Wind Conditions
• Yokota, Hashimoto, Kawaguchi

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B15 Surf Zone Dynamics – Lynett

- 10:40 | 166 Quasi-3D Modelling of Surf Zone Dynamics
• Luijendijk, Henrotte, Walstra
- 11:00 | 167 Choice of Random Wave Simulation in Surf Zone Process Models
• Yuan, Madsen
- 11:20 | 168 Numerical Modeling of Optical Properties Inside the Surfzone
• Shi, Ma, Kirby
- 11:40 | 169 A New 3D Roller Approach for Facing Rotational Surf Zone Hydrodynamics
• Viviano, Musumeci, Foti

C15 Armour Units I – Magoon

- 10:40 | 255 Influence of Armor Unit Placement on Armor Porosity and Hydraulic Stability
• Medina, Gomez-Martin, Corredor
- 11:00 | 256 Models for Profile Change of Rubble Mound Revetment and Performance Evaluation
• Ota, Matsumi, Hirayama
- 11:20 | 257 Experimental Study on Engineering Effect of Hollow-Block Mound Breakwater
• Wu, Zhang
- 11:40 | 258 Evolution of Damaged Armor Layer Profile
• Farhadzadeh, Kobayashi, Melby

D15 Sedimentation – Niemeyer

- 10:40 | 344 Experimental Study on Bottom Topography Change in Harbor Due to Tsunami
• Sakakiyama, Matsuyama, Yoshii
- 11:00 | 345 Thyborøn Harbour - Study of Wave Agitation and Sedimentation
• Niemann, Sloth, Buhl
- 11:20 | 346 Prediction of Morphological Response of Dredged Channels and Borrow Pits
• Lu, Nairn, Dibajnia
- 11:40 | 347 Three-Dimensional Numerical Model for Simulating the Accumulation Process of Immersed Tube Tank of HMZ Bridge
• Wang, Geng, Lu

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E15 Harbor Management – Noble

- 10:40 | 427 Spanish Port Development in the First Decade of the XXI Century
• Gutiérrez-Serret, Grassa, Grau
- 11:00 | 428 An Early-Alert System to Support Construction of Port Infrastructures
• Diaz-Hernandez, Losada, Mendez
- 11:20 | 429 Simulation Model for Harbor Verification and Management
• Solari, Moñino, Baquerizo
- 11:40 | 430 Field Measurement of Pohang New Harbor for Investigating Downtime Factors
• Kwak, Jeong, Ryu
- 12:00 | P51 Operational Modeling Tools for Dredging and Disposal
• Yassuda, Tominaga, Jorgetti
- 12:05 | P52 Investigations on Functional Design of Wave Protection Structures and Layout for A Special Situated Marina
• Weichbrodt, Schlamkow, Haverland

A16 Wave-Current Interaction – Okayasu

- 13:30 | 81 Depth-Integrated Numerical Modeling of Turbulent Transport by Long Waves and Currents
• Kim, Lynett
- 13:50 | 82 Steady Currents Induced by Sea Waves Propagating over A Sloping Bottom
• Capodicasa, Scandura, Foti
- 14:10 | 83 Modeling of Wave-Current Interaction Using A Multidirectional Wave-Action Balance Equation
• Ding, Wang
- 14:30 | 84 Improvement of Bottom Boundary Layers Modeling Under Interactions of Wave and Wave-Induced Current
• Zheng, Zhang, Wang
- 14:50 | 85 Improved Modelling of Wave-Current Interaction in SWAN
• van der Westhuysen

B16 Rip Currents and Sea Level – Zheng

- 13:30 | 170 Rip Current Observation with X-Band Radar
• Takewaka, Yamakawa
- 13:50 | 171 A Forecasting System of Dangerous Rip Currents in Haeundae Beach, Korea
• Lee, Lee
- 14:10 | 172 Fluctuation of Rip Current Measured in Shallow Water Region with Small Tidal Range
• Deguchi, Arita, Yoshii
- 14:30 | 173 A Review and Comparison of the Main Methods for Estimating Probabilities of Extreme Sea Levels: Observations from UK and Australian Tide Gauge Records
• Haigh, Pattiaratchi
- 14:50 | 174 The Numerical Modelling of the Effect of Occurrence Duration on the Water Level Difference for the Bosphorus Strait
• Öztürk, Yüksel
- 15:10 | 175 Monthly Variation of Wave Set-up Height in the Yoneshiro River Mouth
• Tanaka, Nakura, Tinh

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C16 Armor Units II – de Rouck

- 13:30 | 259 Stability of Cubipod Armoured Roundheads in Short Crested Waves
• Burcharth, Andersen, Medina
- 13:50 | 260 Incipient Motion Response Detection of Articulated Block Revetment Under Wave Loading
• Russo, Willson, Smith
- 14:10 | 261 Drop Tests of Prototype Cube and Cubipod Armor Units
• Corredor, Miñana, Gómez-Martín
- 14:30 | 262 Impact Force Analysis on Wave Dissipating Concrete Blocks During Rocking Motion
• Mitsui, Yamamoto, Noboru
- 14:50 | 263 Effect of the Concrete Density on the Stability of XBLOC Armour Units
• van Zwicht, Verhagen, Bakker
- 15:10 | 264 Wave Run-up and Reflection of Rubble Mound Breakwaters Armoured with ECOPODE™
• Calabrese, Buccino, Ciardulli

D16 Local Scour – Nielsen

- 13:30 | 348 Effect of Turbulence on Local Scour
• Dixen, Sumer, Fredsøe
- 13:50 | 349 Local Scour Characteristics of Groins at Tidal Reaches and Their Simulation
• Dou, Zhang, Wang
- 14:10 | 350 Physical Modeling of Scours Around Tripod Foundation Structures for Offshore Wind Energy Converters
• Stahlmann, Schlurmann
- 14:30 | 351 Turbulent Behavior of Fluidized Sediments in Composite Shear Flow
• Saruwatari, Matsuzaki, Watanabe
- 14:50 | 352 Modeling Morphological Evolution in the Vicinity of Coastal Structures
• Nam, Larson, Hanson
- 15:10 | 353 Morphology Variability in the Vicinity of Coastal Structures
• Ritphring, Tanaka

E16 Coastal Management – Hwung

- 13:30 | 431 A Risk-Informed Approach to Coastal Zone Management
• Jongejan, Vrijling, Ranasinghe
- 13:50 | 432 Community Resilience: Lessons from Recent Disasters
• Ewing, Synolakis
- 14:10 | 433 Coastal Regional Sediment Management Plan
• Noble, Moore
- 14:30 | 434 Integrated Beach Management at Igea Marina, Italy: Results of Ten-Years Monitoring
• Preti, Zanuttigh, De Nigris
- 14:50 | 435 A Coastal Development Idea for Gulf of Thailand to Improve Global Trades
• Chuen-Im, Lee
- 15:10 | 436 A New Way of Engaging Coastal Stakeholders: Coastranger MS
• Pontee, Hamer, Morris

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A17 Extreme Waves and Wave Groups – Tajima

- 15:50 | 86 Experimental Study of Solitary Wave Evolution over A 3D Shallow Shelf
• Lynett, Swigler, Song
- 16:10 | 87 Freak Waves and Weather Conditions
• Mori, Mase, Yasuda
- 16:30 | 88 Trend Model of Sea Extremes
• Kitano, Kioka, Takahashi
- 16:50 | 89 Applying the Wavelet Transform to Study the Features of Freak Waves
• Wu, Kao, Lee
- 17:10 | 90 Engineering Design in the Presence of Wave Groups
• Shand, Peirson, Cox
- 17:30 | 91 A Small-Scale Field Experiment for the Validation of A theory on Reflection of Nonlinear Short-Crested Wave Groups
• Romolo, Arena

B17 Waves and Structures – Kobayashi

- 15:50 | 176 Transient Waves Generated by A Moving Bottom Obstacle
• Madsen
- 16:10 | 177 Waves Generated by Two or More Ships in A Channel
• Nascimento, Neves, Maciel
- 16:30 | 178 Seiche Generation in A T-Shape Bay of Kami-Koshiki Island, Japan
• Asano, Yamashiro, Kakinuma
- 16:50 | P16 Wave Interaction with Deck of Jetty on A Slope
• Meng, Chen, Yan
- 16:55 | P17 Comparison of Drag and Inertia Coefficients for A Circular Cylinder in Random Waves Derived from Different Methods
• Mai, Wilms, Hildebrandt
- 17:00 | P18 A Shoreline Model for Breaking Waves
• Re, Musumeci, Foti

C17 Submerged Structures – Penchev

- 15:50 | 265 Dumping Geotextile Sand Containers in Water During Construction of Fully Submerged GSC-Structures
• Dassanayake, Oumeraci, Verhagen
- 16:10 | 266 Experimental and Numerical Study on Hydraulic Performance of Artificial Reef Under Solitary Wave Conditions
• Strusińska, Oumeraci
- 16:30 | 267 Wave Breaking and Wave Setup of Artificial Reef with Inclined Crown
• Murakami, Maki
- 16:50 | 268 Stability Against Waves and Currents of Rubble Mounds over Pipelines and of Rubble on Flat Beds
• Arntsen, Tørum, Kuester
- 17:10 | 269 Stability Considerations and Case Studies for Submerged Structures Constructed from Large Geotextile Containers
• Borrero, Recio
- 17:30 | 270 Design and Construction of the Boscombe Multi-Purpose Reef
• Mead, Blenkinsopp, Borrero

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D17 Harbors and Channels – Russo

- 15:50 | 354 Construction of Two New Breakwaters at Ostend Leading to An Improved Harbour Access
• Verhaeghe, van Damme, Goemaere
- 16:10 | 355 Evaluation of A Proposed Channel on Circulation and Morphology Change at Kawaihae Harbor and Pelekane Bay, Hawaii, USA
• Li, Brown, Kraus
- 16:30 | 356 The Effect of Yangshan Deepwater Harbor Project on Morphological Change
• Ying, Ding
- 16:50 | 357 Physical Model Experiments on Reclamation Project of Fangcheng Port
• Zhao, Ma, Wang
- 17:10 | P35 Applicability of the Predictive Formulae for Suspended Sediment Concentration on Full-Scale Rippled Beds and Sheet Flows
• Jayaratne, Shibayama
- 17:15 | P36 Near-Bed Sediment Dynamics Beneath A Marine Pipeline
• Ong, Holmedal, Utnes

E17 Wave Energy Converters – Kim

- 15:50 | 437 Near-Shore Floating Wave Energy Converters: Applications for Coastal Protection
• Ruol, Zanuttigh, Martinelli
- 16:10 | 438 Wave Energy Conversion Using A Blow-Jet System
• Mendoza, Silva, Sánchez
- 16:30 | 439 Generating Electricity at A Breakwater in A Moderate Wave Climate
• Schoolderman, Vrijling, Reedijk
- 16:50 | 440 Wave Predictions at the Site of A Wave Energy Conversion Array
• Oskamp, Özkan-Haller
- 17:10 | 441 Physical and Numerical Modeling of the WaveCat Wave Energy Converter
• Fernández, Iglesias, Carballo
- 17:30 | P53 Modelling Tidal Energy Resource and Extraction
• Bourban, Durand, Coates
- 17:35 | P54 Tidal Power Plant Along the Western Scheldt
• Mooyaart, van Duivendijk, Jonkman
- 17:40 | P55 The Coastal Energy Resource: A New Assessment Methodology and Its Application to N Spain
• Iglesias, Carballo, Castro