

Technical programma Coastlab24

version 6, 13 May 2024



Tuesday 14-05-2024

	Room A: Centrale	Room B: Chemie	Room C: Chaos
08:00 - 09:00	Registration		
09:00 - 09:20	Welcome		
09:20 - 10:00	Keynote 1: Heidi Neff Vegetation hydrodynamics to inform climate mitigation and adaptation		
10:00 - 11:00	Wave overtopping 1 chair: Corrado Altomare	Modelling Nature 1 chair: Maria Maza	Laboratory Technologies 1 chair: Davide Wuthrich
10:00	8 - Mariel Inias Mata Hybrid Modelling Of Wave Overtopping At Rubble Mound Breakwaters	90 - Arnold Van Rooijen Physical Experiments Of Wave Attenuation Over Submerged Shellfish Reefs	2 - Manuel Corrales-Gonzalez Novel Real-Time Data Acquisition System Of Hydrodynamic Signals Obtained In Laboratory
10:15	9 - Marcel R.A. Van Gent Low-Crested Structures In Front Of Rubble Mound Breakwaters	68 - Marco Ghisalbani Reefness: Design Of A Porous Modular Hybrid Reef For Coastal Protection	24 - Malte Paul Adapting Methods For Bed Level Assessment In And Around Submerged Vegetation
10:30	19 - Jorge Molines Individual Wave Overtopping Volumes On Mound Breakwaters	69 - Justin Geldard Experimental Observations And Prediction Of Wave Attenuation Using A Coral Reef Restoration Approach	51 - Sarah Krogh Iversen Directional Spectrum Estimation For Sea States Generated By The Single Summation Method
10:45	15 - Vera Van Bergeijk Overtopping Reduction By Artificial Reefs	11 - Aruna Nandasena Small-Scale Experimental Evidence On The Use Of Date Palm Forest To Mitigate Tsunami In The Arabian Sea	38 - Christina Carstensen Generation Of Scaled Long-Period Ship Waves In A Pump-Driven Flume
11:00 - 11:30	Coffee Break (Boiler Room)		
11:30 - 12:30	Wave overtopping 2 chair: Alessandro Romano	Field Measurements 1 chair: Paul Bayle	Case studies 1 chair: Ian Coghlan
11:30	48 - Margaret Libby Quantifying Overtopping Performance Of Green-Gray Hybrid Infrastructure	98 - Charlotte Dreger Short-Term Coastal Impact Of Lakeshore For Natural Reserve Protection	92 - Dennis Van Kester 2D Model For Addu City Project - Wave Transformation Over Reef Flat
11:45	74 - Jordan Keck The Effects Of Overtopping On Green/Grey Infrastructure	93 - Sara Russo Preliminary: The Lab Of The Mediterranean Sea For Marine Renewable Energy	10 - Carl Wehlitz Hydraulic Stability Of The New Cubloki® Armour Unit On A 3:4 Slope
12:00	21 - Corrado Altomare Overtopping Flow Velocity Characterisation Of Focused Waves On Promenades Using The Bubble Image Velocimetry Technique	130 - Ruurd Jaarsma SCOR suspended sediment transport monitoring using acoustic particle radius	66 - Francois Flocard 50 Years Of Harbour Concrete Units In Australia And New Zealand: Lessons Learned From Physical Modelling Studies And Recently Built Structures
12:15	136 - Marc Willems Performance Analysis Of An Innovative Field Measurement Setup For Wave Overtopping At A Dike On A Shallow Foreshore	95 - Yiqun Ye Observation Of Ocean Wave Based On Binocular Vision In The Swath Zone Of Yezhou Bay	164 - Enrique Escobar Valencia 2D And 3D Physical Model Testing For The Rehabilitation On The Froul Port Breakwater (France)
12:30 - 13:45	Lunch break (Boiler Room)		
13:45 - 14:45	Wave overtopping 3 chair: Vera van Bergeijk	Coastal hydrodynamics 1 chair: Ioan Nistor	Composite Modelling 1 chair: Sang-Ho Oh
13:45	122 - Fatemeh Hajvalie Experimental Study On The Effect Of The Wavelength On Wave Overtopping Over Recurved Walls	40 - Amit Ravindra Patil A Multiscale 3D-2D Coupled Model Of The Scheidt Estuary Rivers And The European Continental Shelf	37 - Joost Den Bieman Validation Of An Efficient Non-Hydrostatic Wave Model As A Design Tool For Forecasters In Physical Models
14:00	123 - Yuri Pepi Effectiveness Of Stilling Wave Basins In Reducing Wave Overtopping On Dikes And Rubble Mound Breakwaters	65 - Kevin Bobiles Adcp Measurements Of Flow Over Low-Angle Bottoms In A Laboratory Flume Setup	134 - David Lucio Enhancing Coastal Flooding Preparedness To Climate Change: An Experimental Analysis Of Urban-Integrated Non-Conventional Adaptation Solutions
14:15	140 - Daniele Celli Numerical Tools For Wave Overtopping At Rubble Mound Breakwaters With Submerged Berms	68 - Christine Baker Wave Breaking, Eddies, And Transient Rip Current Dynamics In Large Scale Wave Basin Experiments	41 - Phan Khanh Linh A Model Of Wave Attenuation In Vegetated Environments
14:30	92 - Zhang Peng Laboratory Study On Wave Overtopping Across Coastal Dikes With A Vegetated Foreshore	82 - Francisco Pinto Scour Hole Evolution Near A Detached Low-Crested Rubble-Mound Breakwater	
14:45 - 15:05	Coffee Break (Boiler Room)		
15:05 - 16:20	Wave-structure interaction 1 chair: Phan Khanh Linh	Wave generation & analysis chair: Alessandro Antonini	Tsunamis chair: Nils Goseberg
15:05	29 - Emmano De Almeida Wave Loads On Hydraulic Structures	12 - Thomas Lykke Andersen Applicability Of Reflection Separation Algorithms To Nonlinear Irregular Waves Over Sloping Foreshores	14 - Storm Roberts Physical Modelling Of Boulder Transport Under The Influence Of Tsunami Waves
15:20	30 - Jose Luis Galmes Giralt Physical Modelling Of A Caisson Breakwater Under Impulsive Cyclonic Waves - Case Of Port East (Reunion Island)	25 - Mads Raga Eldrup Generation Of Highly Nonlinear Waves In A Short Wave Flume	45 - Kellen Doyle Tsunami Debris Damming Drag Forces And Associated Coefficients On Elevated Coastal Structure Columns
15:35	84 - Maximilian Herbst Full-Scale Experimental Study On Wave Impacts At Stepped Revetments	76 - Pedro Lomonaco Performance Assessment Of Two Active Absorption Systems In A Large Wave Flume	77 - Maarten Bultelaar Dam-Break Waves Over Rough Beds
15:50	127 - Matteo Cerrorami Alessandro Romano Parametric Analysis Of Wave-Induced Forces And Overtopping On Composite Vertical Breakwaters With Retreated Crown Wall	173 - Dennis Belleter Considerations for designing a new wave generator system in an existing flume	87 - David McGovern Tsunami Runup Attenuation By Onshore Obstacles
16:05	135 - Georges Govaere Run Up Reflection And Stability Coefficients For Ordered Cube Slopes With Energy Dissipation	42 - Menno De Ridder Validation Of A Nonlinear Wave Decomposition Method Including Shoaling	157 - Erica Treflik-Body Large-Scale Laboratory Experiments On The Wave Generation Due To The Collapse Of Partially And Fully Submerged Granular Columns
16:20 - 16:40	Coffee Break (Boiler Room)		
16:40 - 17:40	Highlighted talks chair: Vincent Gruwez	Coastal Structures 1 chair: Mads Raga Eldrup	Modelling Nature 2 chair: Malke Paul
16:40	107 - Paulo Rosa Santos Experimental study on wave damping potential of seaweed aquaculture systems on the Portuguese coast	4 - Prasanthi Ranasinghe Adaptation Of Different Scales In The Same 3D Physical Model To Assess The Different Armour Sizes	111 - Bamapratim Sarma Flow Structure Of A Heterogeneous Seagrass Canopy
16:55	136 - Nils Goseberg Arctic Coastline Erosion: Novel Experimental Avenues Help Understand Its Response To A Changing Climate	7 - Sergio Muñoz-Palao Digital Profiler Based On A Low-Cost 3D-Scanner To Evaluate The Hydraulic Performance Of Homogeneous Low-Crested Structures	72 - Mitchel Provan Large-Scale Experimental Model Of Edge Treatments For Constructed Salt Marshes
17:10	141 - Ian Chandler Tsunami Ring-Pong: Generating The Whole Tsunami Event	18 - Young-Taek Kim Stability Of Concrete Armor Unit (Tetrapod) On Rear Side Of The Rubble Mound Structures With Rectangular Super Structure	115 - Garance Marlier Determination Of Drag And Inertia Coefficients By An Analytical Model
17:25	16 - Maarten Kleinhans Turning The Tide: Live-Bed Scale Experiments Of Bar-Dominated Estuaries And Effects Of Dredging On Intertidal Habitat	44 - Mohammadkazem Imani Experimental Study Of Parsian Port Breakwater Toe Stability	138 - Viktoria Kosmala Towards Accurate Modeling Of Aboveground Vegetation In White Dunes: Biomechanics Of Marram Grass (Ammophila Arenaria)

Meeting of the JWRH Mainline Committee

Wednesday 15-05-2024

09:00	09:40	Keynote 2: Josep Medina Breakwaters in a living environment		
09:45	10:45	Modelling Nature 3 chair: Heidi Neuf		
		Infragravity Waves 1 chair: Peter Troch	Flood safety chair: Vana Tsimopoulou	
09:45	10:00	116 - Maria Mata A New Formulation For Vegetation Induced Damping Under Waves And Currents Based On Their Standing Biomass	54 - Gal Akelah Unstructured swan modelling of free infragravity waves over the Southern North Sea	70 - Daniel McMan Small-Scale Experiments' Ability To Augment Large Lab Testing For Designing Nature-Based And Hybrid Solutions For Coastal Flood Hazard Mitigation
10:00	10:15	103 - Alessandro Antonini Large-Scale Test Of Extreme Hydrodynamic Conditions Over Coastal Salt Marshes	78 - Patrick Oosterlo Wave And Wave Overtopping Measurements In A Complex Area And At A Real Dike	137 - Mario Van Den Beeg Large-Scale Levee Breach Experiments With Foreshoes
10:15	10:30	63 - Ganga Caldera Seasonal Variation Of Wave Attenuation Capacity Of Canadian Saltmarsh Vegetation	144 - Myriam Bellodi Characterization Of Very Low Frequency Wave Energy Distribution In A Coral Reef-Lagoon System	152 - Mariana Roldán Upegui Analysis Of Hybrid Solutions For Coastal Protection Combining Physical And Numerical Cfd Modeling
10:30	10:45	23 - Su Kallou Physical Modeling Tests With Flexible Woody Vegetation Mimics	158 - Damien Sous Coupled Short-Ig Wave Dynamics Over A Shallow Barrier Reef	118 - Fuyuan Chen Study Of The Effect Of Spur Dikes On Beach Protection Based On Physical Model Experiment
10:45	11:05	Coffee Break (Boiler Room)		
11:05	12:05	Wave-structure Int. 2 chair: Giorgio Bellotti		
		Infragravity Waves 2 chair: Marion Tissier	Case studies 2 chair: Jorge Molinas	
11:05	11:20	46 - Suzanna Zwaneburg Large Scale Physical Model Study On Clay Erosion With Grass Cover On Primary Coastal Defence Structures	142 - Lorenzo Melito Lagrangian Measurements Of Surface Water Waves: Relation Between Drift Velocities And Set-Down	27 - Etienne Baillet Study Of The Hydraulic Response Of A High Permeable Breakwater Using Physical Modelling
11:20	11:35	8 - Pilar Diaz-Carrasco Neural Network Calibration Method For Various Models To Analyse Wave-Porous Structures Interaction	125 - Vincent Grueze Field Observations Of The Influence Of Infragravity Waves On Wave Overtopping At A Dike On A Shallow Foreshore	128 - Annelie Balnes Innovative Coastal Structure Solutions And The Role Of Physical Modelling In The Design Process (Dawish Mog2 Casino)
11:35	11:50	143 - Benaventura Tagliarfero The Surweck Project: An Open-Source Experimental Database For Extreme Loads On A Moored Cylinder Under Regular And Focused Waves	98 - Henry Altam Hybrid Forecast System Of Overtopping With Infragravity Wave Included	150 - Wim Kortelev Physical Model Study Of Standing Wave Impact Loads On Gates And Decks Of The Existing Discharge Sluices In The Afsluitdijk The Netherlands
11:50		73 - Sargol Memar Stability Of Estuarine Gyroline During Overflowing Long-Period Primary Ship-Induced Waves Based On Laboratory Experiments	148 - Cláudia Ribeiro Observing And Characterizing Infragravity Waves Through Different Sampling Devices: A Case-Study Off The Belgian Coast	39 - Hong Son Truong Flow Exchange In Vegetated Environments: Integrating Experimental Insights Into Practical Engineering

Thursday 16-05-2024

09:00	09:40	Keynote 3: Coen Kulper and Emiel Boerma The role of physical modelling in the rehabilitation works for the Afsluitdijk.		
09:45	10:45	Coastal Structures 2 chair: Patricia Mares Nasarre		
		Laboratory Technologies 2 chair: Maximilian Streicher	Field Measurements 2 chair: Patrick Oosterlo	
09:45	10:00	49 - Ryan Lowe Wave Basin Experiments Of Wave-Driven Hydrodynamics Over Submerged Coastal Structures And Artificial Reefs	75 - Chi-Yu Li Measurement Of Spatial-Temporal Waves In The Laboratory Using Computer Vision Technology	99 - Georges Govaere Spectral Wave Characterization Of The Pacific Coast Of Costa Rica
10:00	10:15	52 - Sang-Ho Oh Wave Pressures Acting On The Pavement Behind The Sloping Revetment	79 - Paul Bayle The Delta Transport Processes Laboratory: Lab For Surface And Internal Wave-Induced Currents Under Rotation	114 - Jim Tukker Decay Of Bow Thruster Induced Near-Bed Flow Velocities At A Vertical Quay Wall: A Field Measurement
10:15	10:30	61 - Beatriz Rodriguez A New Wave Breaking Benchmark On Rubble Mound Breakwaters	90 - Dorethe Regout Air-Water Flow Properties In Highly Unsteady Flows	64 - Marta Alvir Application Of Remote Sensing Technologies On Industrial Outfalls
10:30	10:45	105 - Sungwon Shin Experimental And Numerical Inter-Comparison On Green And Gray Mitigation Alternatives In Flooding Reduction In Coastal Region	100 - Ronald Viquez Acosta Design Of Passive Energy Absorbers For The Inmares-Ulv' Wave Tank.	101 - Xiaolin Han Coastal Tidal Flat And Tidal Current Observation Based On Satellite Remote Sensing
10:45	11:15	Coffee Break (Boiler Room)		
11:15	12:15	Coastal Structures 3 chair: Josep Medina		
		Coastal hydrodynamics 2 chair: Ryan Lowe	Renewable energy chair: Francisco Taveiro-Pinto	
11:15	11:30	59 - Minelle Escudero Sustainable And Bioengineered Concrete For Armor Units Of Low-Crested Structures	94 - Yaxiong Shen Wave Impacts On Cliffs: From The Field To The Laboratory	96 - Myrta Castellino Experimental Test Bench In A Wave Flume For The Development Of A New Mini Morphable Wells Turbine
11:30	11:45	110 - Serim Dogac Sayar Integration Of Eco-Friendly Armour Units Into Coastal Structures	109 - Ioannis Karpadakis Breaking Wave Statistics In Short-Crested Seas	20 - Timothy Verwee Physical Modelling Of A Centralized Controlled Array Of Five Weefarm Wave Energy Converters
11:45	12:00	147 - Aron Laminiczak Investigation Of Coastallock Performance On A Breakwater With Porous Core	119 - Joe Muller Quantifying Wave-Induced Hydrodynamics Near A Saltmarsh Cliff: An Experimental Piv Study	81 - Mario Lopez Gallego Wave Tank Experiments Of A Novel Floating Photovoltaic System
12:00	12:15	139 - Tim Ruweil The application of flexible and porous concrete structures in training works and scour protection		83 - Laurens Cromheeke Physical Modelling Of The Wave Field Around An Array Of Centrally Controlled Wave Energy Converters
12:15	13:45	Lunch break (Boiler Room)		
13:45	14:45	Laboratory Technologies 3 chair: Prasanthi Ranasinghe		
		Composite Modelling 2 chair: Thomas Lykke Andersen	Sediment and Scour chair: Marcel van Gent	
13:45	14:00	113 - Dimitrios Demertzoglou Wave Reflection Analyses On Laser Scan Data From A Model Salt Marsh	62 - Antonio Tomas Local Head Losses And Drag Coefficients Characterization In Coastal Infrastructures	22 - Etse Nota A Morphological Assessment On The Effects Of Embankments On Sediment Transport In Sandy Estuaries
14:00	14:15	129 - Bas Holland Rocking Of Single Layer Armour Units Measured By Embedded Sensors	28 - Pauline Berte Assessment Of Wave Loads On Bridge Piers Using Physical And Numerical Modelling	132 - Björn Mehrtens Experimental Investigation Of Coastal Fore-dune Erosion
14:15	14:30	131 - Maximilian Streicher Evaluation Of The Accuracy Of The Generated Wave Fields In The Coastal & Ocean Basin (Cob)	117 - Maria Gkougkoudi-Papaloannou Numerical And Physical Modelling Of The Pore Pressure Development Around A Monopile Foundation	139 - Thomas Van Vleeten How Artificial Salt Marsh Vegetation Reduces The Threshold For Sediment Resuspension In Wave-Current Flows
14:30	14:45	148 - Steven Le Bars Concrete Armour Unit Breakwater Physical Model Monitoring With 3D Modeling Tools	124 - Joe El Rahi Exploring Wave-Vegetation Interaction At Blade Scale: A Comprehensive Analysis Of A Flexible Cylinder Through Experimental Data And A Direct Numerical Simulation	145 - Lukas Ahrenbeck Exploring The Influence Of Artificial Root Systems Modeled After Marram Grass (Ammophila Arenaria) On Dune Erosion
14:45	15:15	Coffee Break (Boiler Room)		
15:15	16:15	Coastal Structures 4 chair: Pedro Lomonaco		
		Case studies 3 chair: Myrta Castellino		
15:15	15:30	133 - Patricia Mares-Nassarre Armor Damage On Groins Under Ship-Wave Attack Using Field Data	17 - Ivardito Herdayanditya Experimental Study Of The Wave Field Around A Monopile Due To Moderate Steepness Irregular Incident Waves	
15:30	15:45	97 - Nazim Nassangour Analysis Of Upgrading Low-Crested Structures As An Adaptation Measure To Climate Change For Coastal Protection: A Hybrid Approach	56 - Rens Van Der Meijden Combined Pullout Tests And Wave Overtopping Simulations On Three Species-Rich Grass Covered Dikes In The Netherlands	
15:45	16:00	121 - Ian Coghlan Physical Modelling Of Rock Bags Under Wave Attack	156 - Vana Tsimopoulou Geophysical Monitoring Of Large-Scale Levee Overflow Experiments With Electric Resistivity Tomography	
16:00	16:15	159 - Jahan Niewel Verification Of New Double Suspension Keofloat To Minimise Wave Height Inaccuracies In A Physical Model Resulting From Rotation In A 3D Wave Agitation Study	57 - Christian Van Nieuwenhuizen Physical Modelling Of Propeller Jet Induced Scour Near Quay Walls	
16:15	16:45	Closing Ceremony		