



TENTATIVE PROGRAMME

Date	Time	Schedule	Venue
9 th December	15:00-22:00 (Ice breaker: 17:00-19:00)	Registration	Haiji Hotel & Nanyang Hotel
10 th December	8:30-9:00	Opening ceremony	Hailan hall, Haiji Hotel
	9:00-9:40	Plenary speech	
	9:40-10:10	Group photograph & Tea break	
	10:10-11:50	Plenary speeches	
	12:00-13:30	Lunch	School canteen
	13:30-18:00 (Tea Break: 15:25-15:45)	P1 Wave, tidal and wind energy	203, Teaching Building
		P2 Coastal and ocean structures, breakwaters, and revetments	224, Teaching Building
		P3 Coastal hydrodynamics and coastal processes	220, Teaching Building
		S2 Marine aquaculture engineering	209, Teaching Building
		S3 Evolution and modeling of the Yellow River Estuary	226, Teaching Building
S4 Coastal Hazards and Integrated Management Options		201, Teaching Building	
18:00-20:00	S5 Marine geotechnics	Banquet	Haiji Hotel
11 th December	9:00-12:00 (Tea Break: 10:10-10:30)	P2 Coastal and ocean structures, breakwaters, and revetments	224, Teaching Building
		P4 Estuary and coastal environment and eco-hydraulics	203, Teaching Building
		S1 Coastal reservoirs for SDG6	209, Teaching Building
		S2 Marine aquaculture engineering	220, Teaching Building
		S4 Coastal hazards and integrated management options	226, Teaching Building
		S5 Marine geotechnics	201, Teaching Building



	12:00-13:30	Lunch	School canteen
	13:30-17:30	Technical tour	
	17:30-19:30	Dinner	School canteen
12 th December	8:30-12:05 (Tea Break: 10:10-10:30)	P3 Coastal hydrodynamics and coastal processes	224, Teaching Building
		P5 Laboratory techniques and measurement systems	201, Teaching Building
		P6 Field measurement, floating bodies, wave generation and analysis	209, Teaching Building
		P7 Sediment transport, erosion, and sedimentation	203, Teaching Building
		S2 Marine aquaculture engineering	220, Teaching Building
		S4 Coastal hazards and integrated management options	226, Teaching Building
	12:00-13:30	Lunch	School canteen
	14:20-16:20	Plenary speeches	Hailan hall, Haiji Hotel
	16:20-	Closing ceremony	



Opening ceremony & Plenary speeches

Thursday, 10 th December (Haiji Hotel)	
8:30-9:00	Opening ceremony: LOC Chair: Pengzhi Lin Prof. Joseph H.W. Lee, The president of IAHR Ruifei Wang, Zhejiang University
9:00-9:40 On-site	Plenary speech: Foundation behavior of offshore wind turbine Lizhong Wang (Zhejiang University)
9:40-10:10	Group photograph & Tea break
Chair: Dezhi Ning	
10:10-10:50 Online	Plenary speech: Swash flows generated by bores with variable length Philip L.-F. Liu (National University of Singapore)
10:50-11:30 Online	Plenary speech: Surface wave breaking in the laboratory and field: A review of the history and recent progress in predicting its onset and strength James T. Kirby (University of Delaware)
11:30-12:10 Online	Plenary speech: An extended Stokes solution for turbulent wave boundary layers Liang Cheng (The University of Western Australia)
12:10-13:30	Lunch



P1 Wave, tidal and wind energy

Thursday, 10 th December (203, Teaching Building)	
Chair:	
13:30-13:55 On-site keynote	Orientation of the wave and tidal energies, from basic research to commercial application Hongda Shi (Ocean University of China)
13:55-14:10 On-site	Mechanical metamaterials piezoelectric nanogenerator (MM-PENG) Pengcheng Jiao (Zhejiang University)
14:10-14:25 On-site	Experimental study of the hydrodynamic effects of tidal turbines in staggered array Yaling Chen (Lanzhou University)
14:25-14:40 On-site	Synthetic mooring ropes for renewable energy applications Yushun Lian (Hohai University)
14:40-14:55 On-site	Analysis on the power fluctuation of tidal stream turbine in the turbulence flow combined with regular waves Yuquan Zhang (Hohai University)
14:55-15:10 On-site	An effective framework for wake predictions of tidal-current turbines Chen Long (Changsha University of Science & Technology)
15:10-15:25 Online	Development of coupling program and dynamic response of articulated offshore wind turbine Pei Zhang (Tianjin University)
15:25-15:45	Tea break
Chair:	
15:45-16:10 Online keynote	A bottom-sitting wave energy converter: characteristics of local flow field and scour Zhenhua Huang (University of Hawaii at Manoa)
16:10-16:25 On-site	Hydrodynamic performance of WECs embedded in a breakwater Yang Zhang (Harbin Engineering University)
16:25-16:40 On-site	Wave energy focusing due to three-dimensional bragg resonance with undulating bottom of V-shaped layout Haiming Zhang (Hohai University)
16:40-16:55 On-site	Energy Properties for Higher-order Stokes Waves over Horizontal Bottom Xiang Gao (Dalian University of Technology)
16:55-17:10 On-site	Numerical simulation of an offshore single-chamber heave-only oscillating water column device Pinjie Wang (Zhejiang University)
17:10-17:25 Online	Experimental development of a hybrid wave energy converter for rubble mound breakwaters Paulo Rosa Santos (Faculty of Engineering of the University of Porto)
17:25-17:40 On-site	Design and Optimization of a Hybrid System of Wave Energy converters and Floating Breakwaters Binzhen, Zhou (South China University of Technology)
18:00-19:30	Banquet



P2 Coastal and ocean structures, breakwaters, and revetments

Thursday, 10th December (224, Teaching Building)	
Chair:	
13:30-13:55 Online keynote	Towards development of entirely Lagrangian meshfree computational methods for hydroelastic fluid-structure interactions in coastal engineering Abbas Khayyer (Kyoto University)
13:55-14:10 On-site	Study on hydrodynamics of ecologically vegetated honeycomb-type revetment under waves Jinfeng Zhang (Tianjin University)
14:10-14:25 On-site	Hydrodynamic behavior of net cage in the open sea TiaoJian Xu (Dalian University of Technology)
14:25-14:40 On-site	Experiment on vortex-induced vibration response of submarine flexible pipeline near seabed Hongjun Zhu (Southwest Petroleum University)
14:40-14:55 On-site	Study on interaction between wave and dense-row pile breakwater Yifeng Zhang (Tianjin Research Institute for Water Transport Engineering)
14:55-15:10 On-site	Experimental study on local scour around a subsea porous cubic caisson in steady current Fan Yang (Dalian University of Technology)
15:10-15:25 Online	Tests on reversed open filters on sand-covered rock mounds Bas Hofland (Delft University of Technology)
15:25-15:45	Tea break



P3 Coastal hydrodynamics and coastal processes

Thursday, 10th December (224, Teaching Building)

Chair:

15:45-16:10 On-site keynote	Some Advances in Modeling Tropical-Cyclone Induced Coastal Disasters Xiping Yu (Tsinghua University)
16:10-16:35 Online keynote	Necessity of using a wave friction factor in tsunami numerical simulation Hitoshi Tanaka (Tohoku University)
16:35-17:00 Online keynote	Research Development of China Numerical Tank Wenyang Duan (Harbin Engineering University)
17:00-17:15 On-site	How precise can we conduct the laboratory experiments? Haijiang Liu (Zhejiang University)
17:15-17:30 On-site	Evolution of Infragravity Waves Over a Shoal Under Nonbreaking Conditions Ye Liu (Tianjin University)
17:30-17:45 On-site	Study on wave attenuation in following and opposing currents due to rigid vegetation Chuyan Zhao (Dalian University of Technology)
17:45 -18:00 On-site	Discussion of instability analysis for triad resonance among free surface waves, ambient currents and rippled bottoms Jun Fan (Hohai University)
18:00-19:30	Banquet



S2 Marine aquaculture engineering

Thursday, 10 th December (220, Teaching Building)	
Chair: Fukun Gui	
13:30-14:00 On-site keynote	Migration of aquaculture facility system to offshore Jun Yan (Zhan jiang wan Laboratory)
14:00-14:20 On-site	Aquaculture facility and intelligent associated equipment Fuxiang Liu (CIMC Marine Fishery Co., Ltd.)
14:20-14:40 On-site	Design and application of distributed-type net cage Zhenlin Liang (Shandong University)
14:40-15:00 On-site	Design and application of offshore aquaculture ship Zhixin Chen (Fishery machinery and Instrument Research Institute)
15:00-15:20 On-site	Design and application of offshore aquaculture facility Yongfei Peng (Aqualis Offshore Marine Services (Shanghai))
15:20-15:40	Tea break
Chair: Nils Goseberg	
15:40-16:10 On-site	Fluid-structure interactions of cage based aquaculture: from structures to organisms Yunpeng Zhao (Dalian University of Technology)
16:10-16:30 On-site	Numerical study on scattering waves around a porous horizontal elliptic plate using reef3d Fenfang Zhao (China Ocean University)
16:30-16:50 On-site	Effects of hydroid-fouling on the hydrodynamics of the fish cage netting Chunwei Bi (Dalian University of Technology)
16:50-17:10 On-site	Effect of design configuration on structural response of longline aquaculture in waves Dejun Feng (National Engineering Research Center for Marine Aquaculture)
17:10-17:30 Online	Dynamics of fish cages with elastic net in current and waves Gianluca Zitti (Università politecnica delle marche)
17:30-17:50 Online	Large-scale laboratory experiments on mussel dropper lines Rebekka Gieschen (Leichtweiß-Institute for Hydraulic Engineering and Water Resources)
18:00-19:30	Banquet



S3 Evolution and modeling of the Yellow River Estuary

Thursday, 10 th December (209, Teaching Building)	
Chair: Shunqi Pan, Yuanfeng Zhang	
13:30-13:55 On-site keynote	Study on the Morphological Processes Leading to Estuarine Channel Avulsion Wanzhan Wang (Yellow River Institute of Hydraulic Research)
13:55-14:10 On-site	Sediment Transport During Regulation Season of Water and Sediment in the Lower Yellow River Yuanfeng Zhang (Yellow River Institute of Hydraulic Research)
14:10-14:25 On-site	Geomorphological Response of the Yellow River (Huanghe) Mouth to the Changes in its Boundary Conditions Naishuang Bi (Ocean University of China)
14:25-14:40 On-site	Evolution of Coast Erosion and the Formed Land Area of the Yellow River Estuary Shoubing Yu (Yellow River Institute of Hydraulic Research)
14:40-14:55 On-site	Simulating the Morphological Evolution of Deltaic Lobes in the Yellow River Estuary Lehong Zhu (Zhejiang University)
14:55-15:10 On-site	The Yellow River Delta in Transition: Insights from Long-term Morphological Evolution Yutao Fu (East China Normal University)
15:10-15:25 On-site	Extensions of the Yellow River plume under the impact of reservoir operation in Spring Yaoshen Fan (Yellow River Institute of Hydraulic Research)
15:25-15:45	Tea break
Chair: Shunqi Pan, Yuanfeng Zhang	
15:45-16:10 Online keynote	Evolution of the Yellow River Delta under Changing Environment - from Numerical Modelling Perspectives Shunqi Pan (Cardiff University)
16:10-16:25 On-site	Hydrodynamics and Sedimentary Processes of a Turbid Estuary under the Changing Environment Hongyu Ji (East China Normal University)
16:25-16:40 On-site	Historical changes of tidal and sediment dynamics due to coastline changes in Hangzhou Bay since Tang Dynasty Yueying Zha (Zhejiang University)
16:40-16:55 On-site	Application of 3D laser scanning technology in the physical model of the Yellow River Estuary Xiang Zhao (China Institute of Water Resources and Hydropower Research)
18:00-19:30	Banquet



S4 Coastal hazards and integrated management options

Thursday, 10 th December (226, Teaching Building)	
Chair: Zaijin You, Peter Nielsen	
13:30-13:55 Online keynote	Flood over China in summer of 2020: A Perspective from Three Oceans Chunzai Wang (South China Sea Institute of Oceanology)
13:55-14:10 On-site	Wave overtopping mitigation by a porous layer on a rock slope Weidong Chen (Dalian University of Technology)
14:10-14:25 On-site	An experimental study on flow kinematic characteristics of dam-break flow Ting Tan (Dalian University of Technology)
14:25-14:40 On-site	Numerical modelling the typhoon waves and storm surges in the Bohai Sea and the North Yellow Sea Mingliang Zhang (Dalian Ocean University)
14:40-14:55 On-site	The role of simplified storms in sand wave formation: a numerical modeling study Zhenlu Wang (Ocean University of China)
14:55-15:10 Online	Hydrogeological characterization of coastal aquifers and borefield optimization Ye Ma (Dalian Maritime University)
15:10-15:25 On-site	Performance of geotextile sandbags revetment: in-situ coastal experimental station Yongqing Li (Dalian University of Technology)
15:25-15:45	Tea break
Chair: Chun-zai Wang,	
15:45-16:10 On-site keynote	Storm-induced coastal hazards and their impacts on the coast of China Zaijin You (Dalian Maritime University)
16:10-16:25 On-site	Practice and exploration of Chinese living shorelines Aifeng Tao (Hohai University)
16:25-16:40 Online	Novel approaches to predicting the water levels in mega-estuaries Min Gan (Hohai University)
16:40-16:55 On-site	An ISPH model for simulating sediment transport and turbulence under breaking waves Dong Wang (Dalian Maritime University)
16:55-17:10 On-site	A computationally efficient subgrid model for coupled surface and groundwater flows Yujie Chen (Ocean University of China)
17:10-17:25 On-site	Observation of wave overwash on an artificial beach Zhubin Cao (Hohai University)
18:00-19:30	Banquet



S5 Marine geotechnics

Thursday, 10th December (201, Teaching Building)	
Chair: L.Z. Wang & B. Zhu	
14:20-14:40 Online keynote	Porous models for fluid-seabed-structure interaction with OpenFOAM: Model validations and applications D.S. Jeng (Griffith University)
14:40-15:00 Online keynote	Numerical modelling of cyclic horizontal loading of piles in sand and clay using hypoplasticity D. Masin (Charles University)
15:00-15:20 Online keynote	Offshore caisson foundation in sand: from numerical modelling to macroelement design tool Z.Y. Yin (The Hong Kong Polytechnic University)
15:20-15:40	Tea break
Chair: F.Y. Liang & J.H. Li	
15:40-16:00 On-site keynote	Characterization of spatial and temporal distributions of wave-induced pore pressure in a non-cohesive seabed F.P. Gao (Institute of Mechanics, Chinese Academy of Sciences)
16:00-16:20 On-site keynote	Improved prediction of spudcan penetration resistance by an observation-optimized model D. Wang (Ocean University of China)
16:20-16:40 On-site keynote	An anisotropy state-dependent gassy sand model with its application to submarine landslide modelling Y. Hong (Zhejiang University)
16:40-17:00 On-site keynote	Developments of cavity expansion solutions and their applications to offshore geotechnical engineering P.Q. Mo (Chinese University of Mining and Technology)
18:00-19:30	Banquet



P2 Coastal and ocean structures, breakwaters, and revetments

Friday, 11th December (224, Teaching Building)	
Chair:	
9:00-9:25 On-site keynote	Performance analysis of perforated caisson structures under water wave action Yong Liu (Ocean University of China)
9:25-9:40 On-site	Smartphone-Enabled Structural Health Monitoring Using Magnetic Field Intensity Ali Matin Nazar (Zhejiang University)
9:40-9:55 On-site	Numerical simulation of chloride ion diffusion in concrete based on stochastic convex polygon coarse aggregate model Zhen Liu (Tianjin University)
9:55-10:10 On-site	Stability analysis of seabed structures in macro-tidal turbid sea waters Zixuan Li (Zhejiang University)
10:10-10:30	Tea break
Chair:	
10:30-10:55 Online keynote	A Simplified Physically-Based Model of Coastal Dike and Barrier Breaching Weiming Wu (Clarkson University)
10:55-11:10 On-site	Numerical simulations for body hydrodynamic responses within uneven seabed conditions Aichun Feng (Shanghai Jiao Tong University)
11:10-11:25 On-site	Experimental study of solitary waves propagating over a suspended plate Xuyang Niu (Dalian University of Technology)
11:25-11:40 Online	Effectiveness of dummy water levels in physical models to optimize the toe and the crest levels D. P. L. Ranasinghe (Lanka Hydraulic Institute Ltd.)
12:00-13:30	Lunch break



P4 Estuary and coastal environment and eco-hydraulics

Friday, 11th December (203, Teaching Building)

Chair:

9:00-9:25 On-site keynote	A new in-situ annular flume for measurements of the erosion threshold on intertidal flats Zheng Gong (Hohai University)
9:25-9:40 On-site	Numerical study of porous material layer effects on mitigating sloshing Mi-An Xue (Hohai University)
9:40-9:55 On-site	Effect of submerged and rigid artificial vegetation distributions on curved channel flow Yu Yang (Zhejiang University)
9:55-10:10 Online	Integrated Coastal Zone Management: A Global Overview K.Thiruvenkatasamy (To be determined)
10:10-10:30	Tea break
Chair:	
10:30-10:55 Online keynote	Experimental testing of ecosystem-flow interactions Ryan Lowe (The University of Western Australia)
10:55-11:20 Online keynote	Numerical detection of natural CO₂ seepage in coastal area using adjoint method Toru Sato (The University of Tokyo)
11:20-11:35 On-site	Flow characteristics around the reef surf zone under the combined effects of wave and c urrent Yu Yao (Changsha University of Science and Technology)
11:35-11:50 Online	Measuring hydrodynamics in aquatic vegetation canopies: Challenges and opportunities Arnold Van Rooijen (University of Western Australia)
11:50-12:05 Online	Experimental and numerical investigation of wave attenuation by flexible vegetation Kai Yin (Southeast University)
12:00-13:00	Lunch break



S1 Coastal reservoirs for SDG6

Friday, 11th December (209, Teaching Building)	
Chair: Guangqiu Jin, Ji Chen	
9:00-9:25 Online keynote	How to design a coastal reservoir? Shuqing Yang (University of Wollongong)
9:25-9:40 On-site	Two-Phase Risk Hedging Rules for Informing Conservation of Flood Resources in Reservoir Operation Considering Inflow Forecast Uncertainty Bin Xu (Hohai University)
9:40-9:55 On-site	Simulation of dam-break flow through porous media by wc-mps mesh-free method Tibing Xu (Ningbo University)
9:55-10:10 Online	The Opportunities and Challenges of Coastal Reservoir Strategy for Sustainable Water Resources Devel Honnasiddaiah Ramesh (National Institute of Technology Karnataka)
10:10-10:30 Tea break	
Chair: Shuqing Yang, Tibing Xu	
10:30-10:55 On-site keynote	Hydrological processes in the surrounding aquifer affect the salt dynamics in the coastal reservoir Guangqiu Jin (Hohai University)
10:55-11:10 Online	A new perspective of acquiring water resources for coastal regions: utilization of atmospheric water resources Ji Chen (The University of Hong Kong)
11:10-11:25 Online	Numerical Study of Brisbane River Estuary and Moreton Bay Khalil Usman (University of Wollongong)
11:25-11:40 On-site	The influence of the dam/cut-off wall on seawater intrusion in coastal reservoirs Chaoqun Xu, Yuhang Tian, Jicong Xie (Hohai University)
11:40-11:55 Online	Hydro-environmental modelling of North Wales Tidal Lagoon using Telemac-2D Bin Guo (Cardiff University,)
11:55-12:10 Online	Mechanism of sediment transport beneath the tidal wave and experimental verification Muhammad Zain Bin Riaz (University of Wollongong)
12:00-13:30 Lunch break	



S2 Marine aquaculture engineering

Friday, 11th December (220, Teaching Building)

Chair: Yunpeng Zhao

9:00-9:30 On-site keynote	Offshore net enclosure engineering: from failure to success Fukun Gui (Zhejiang Ocean University)
9:30-9:50 On-site	Design and application of energy supply system for offshore aquaculture Junhua Chen (College of Science & Technology Ningbo University)
9:50-10:10 On-site	Construction of offshore net enclosure engineering Wei Song (East China Sea Fisheries Research Institute)
10:10-10:30 On-site	Application of the Ultra High Molecular Weight Polyethylene Fibe (UHMWPE) for offshore aquaculture Ping Wei (Shandong Laiwei New Materials Co.,Ltd)
10:30-10:50 On-site	Property and application of PET net Zhiyuan Zhang (Ningbo Hopenet Marine Technology Co.,Ltd)
10:50-11:10 On-site	Property and application of high strong core spun PE net Guoyi Le (Zhoushan Lanjing New Materials Co.,Ltd)
11:10-11:30 On-site	Design and safety analysis of fish farm for offshore aquaculture Xiaohua Huang (South China Sea Fisheries Research Institute)
12:00-13:30	Lunch break



S4 Coastal hazards and integrated management options

Friday, 11th December (226, Teaching Building)	
Chair: Yuxiang Ma, Chi Zhang	
9:00-9:25 On-site keynote	Sediment transport over the muddy tidal flat: The influence of bio-physical processes and human activities Yaping Wang (East China Normal University)
9:25-9:40 On-site	Modelling long-period wave impacts onto seashore areas induced by storm surge based on hybrid numerical model Ming Xiao (Ningbo University)
9:40-9:55 On-site	Experimental Study of Clear-Water Scour for Submerged Piles in Steady Currents Shengtao Du (Ningbo University)
9:55-10:10 On-site	Spatial and temporal characteristics of wave energy resources in Yellow and Bohai sea based on ERA5 Hongyuan Shi (Ludong University)
10:10-10:30 Tea break	
Chair: Ling Li, Aifeng Tao	
10:30-10:55 On-site keynote	Beach safety accidents in Chinese mainland coasts Chi Zhang (Hohai University)
10:55-11:10 On-site	Laboratory Investigation of Beach Profile Evolution under Slowly Varying Storm Waves Jun Wang (Ocean University of China)
11:10-11:25 Online	Human-induced changes on sedimentary environment in a macro-tidal estuary Zhixin Cheng (Dalian Maritime University)
11:25-11:40 On-site	Real-time phase-resolved ocean wave forecast with data assimilation Guangyao Wang (Tianjin University)
12:00-13:30 Lunch break	



S5 Marine geotechnics

Friday, 11 th December (201, Teaching Building)	
Chair: F.P. Gao, D. Wang	
9:00-9:20 On-site keynote	Centrifuge modelling of lateral behaviour of tetrapod piled jacket foundations for offshore wind turbines B. Zhu (Zhejiang University)
9:20-9:40 On-site keynote	Methods for predicting and monitoring the scour depth of underwater foundations X.G. Chen (Ocean University of China)
9:40-10:00 On-site keynote	Effects of gas dissociation on mechanical behavior of a fine-grained sediments with carbonate shells C.F. Chiu (Shantou University)
10:00-10:30	Tea break
Chair: X.G. Chen & Z. Guo	
10:30-10:50 On-site keynote	To be determined F.Y. Liang (Tongji University)
10:50-11:10 On-site keynote	Physical modelling the failure mechanism of spatially variable soils J.H. Li (Harbin Institute of Technology)
11:10-11:30 On-site keynote	The dynamic responses of offshore open-ended pile in sands J.W. Liu (Qingdao University of Technology)
12:00-13:30	Lunch Break



P3 Coastal hydrodynamics and coastal processes

Saturday, 12th December (224, Teaching Building)

Chair:

8:30-8:55 Online keynote	Quasi-steady dam-break wave propagation on rough, horizontal beds Peter Nielsen (University of Queensland)
8:55-9:10 On-site	Moving particle method in simulating hydrodynamics in ocean engineering Tibing Xu (Ningbo University)
9:10-9:25 On-site	Experimental study on the interactions between counterflowing gravity currents Samuel Ukpong Okon (Zhejiang University)
9:25-9:40 On-site	Stepwise alterations in tidal hydrodynamics in a highly human-modified estuary: the role of channel deepening and narrowing Ping Zhang (Sun Yat-sen University)
9:40-9:55 On-site	Impacts of channel dredging on suspended sediment and siltation in the Jiaojiang Estuary Xueqian Chen (Zhejiang University)
9:55-10:10 On-site	Resonance of long waves around a circular island and its relation to edge waves Zhengdong Yu (Tsinghua University)
10:10-10:30	Tea break
Chair:	
10:30-10:45 Online	High-fidelity simulation of solitary wave propagation and evolution Yichen Huang (Shanghai Jiao Tong University)
10:45-11:00 On-site	Physical modeling of regular wave induced horizontal circulation over a reef-lagoon-channel system Shubin Chen (Hohai University)
11:00-11:15 On-site	Modeling the hydrodynamics changes by the construction of Yangshan Harbor, Shanghai, China Wenyun Guo (Shanghai Maritime University)
11:15-11:30 On-site	Water surface response within a harbor to atmospheric disturbances moving along shoreline Qiuyi Sun (Tsinghua University)
11:30-11:45 On-site	Asymmetric tidal dynamics in the marco-tidal Hangzhou Bay, China Yihan Ren (Zhejiang University)
11:45-12:00 On-site	Propagation and turbulence characteristics of continuous-flux release gravity currents over rough beds Dongrui Han (Zhejiang University)
12:00-13:30	Lunch break



P5 Laboratory techniques and measurement systems

Saturday, 12th December (201, Teaching Building)	
Chair:	
8:30-8:55 Online keynote	Combined Energy Harvesting and Data Compression Approaches for Efficient Extreme Events Monitoring in Civil Infrastructure Nizar Lajnef (Michigan State University)
8:55-9:10 On-site	The properties of Rational function Wave Spectrum (RWS) and its application to island waves in the south china sea Yigeng Wang (Dalian University of Technology)
9:10-9:25 On-site	The contact measurement method of motion response for a constrained floating object under wave action Tengxiao Wang (Ningbo Institute of Technology, Zhejiang University)
9:25-9:40 On-site	Coupling Simulation of Waves and Storm Surges in a Wave-Current Flume Yanting Li (Nanjing Hydraulic Research Institute)
9:40-9:55 On-site	Experimental study on the three dimensional scour around marine pipelines Titi Sui (Hohai University)
9:55-10:10 On-site	Research on special shape wave maker technology Xin Jin (Beijing Sinfotek Technology Co., Ltd.)
10:10-10:25 Online	Flow measurements under aerated plunging and spilling breaking waves using particle image velocimetry Byoungjoon Na (Korea University)
12:00-13:30	Lunch break



P6 Field measurement, floating bodies, wave generation and analysis

Saturday, 12 th December (209, Teaching Building)	
Chair:	
8:30-8:55 On-site keynote	Long-term Field Measurements of Beach-dune Dynamic Profiles on the Coast of Shandong Province, China Zaijin You (Dalian Maritime University)
8:55-9:10 Online	Harbour wave agitation analysis in the port of manta, ecuador William Jaen (To be determined)
9:10-9:25 On-site	Freak wave impact on a floating platform in the small-air-gap condition Min Luo (Zhejiang University)
9:25-9:40 On-site	Environmental Capacity Assessment in Sanmen Bay Jiahao Zhu (Zhejiang University)
9:40-9:55 On-site	High-speed soft robots enabled by combustion for structural health monitoring in ocean engineering Haipeng Wang (Zhejiang University)
9:55-10:10 Online	Mapping tidal currents at a tidal channel junction using fluvial acoustic tomography system Xiao Cong (Hiroshima University)
10:10-10:30	Tea break
Chair:	
10:30-10:55 On-site keynote	Hydrodynamics of floating breakwaters (FBs) in near-reef sea areas Chunyan Ji (Jiangsu University of Science and Technology)
10:55-11:10 Online	Extraction of higher harmonics in a focused wave group Xingya Feng (Southern University of Science and Technology)
11:10-11:25 On-site	Two-layered liquid sloshing in a tank under vertical excitation Dongming Liu (Tianjin University)
11:25-11:40 On-site	Internal Solitary Wave Breaking on Gaussian Ridge Junyang Yu (Zhejiang University)
11:40-11:55 On-site	Impacts of Three Gorges Dam on the spatial-temporal water level dynamics in the Yangtze River estuary, China Huayang Cai (Sun Yat-sen University)
12:00-13:30	Lunch break



P7 Sediment transport, erosion, and sedimentation

Saturday, 12th December (203, Teaching Building)	
Chair:	
8:30-8:55 On-site keynote	Development and application of a two-phase mixture model for sediment laden flows Bingchen Liang (Ocean University of China)
8:55-9:10 On-site	Unified theory of sediment transport threshold and rate across subaqueous bedload, windblown sand, and windblown snow Thomas Pähtz (Zhejiang University)
9:10-9:25 On-site	Floc size distributions of suspended cohesive sediments in estuarine and coastal waters Xiaoteng Shen (Hohai University)
9:25-9:40 On-site	Boundary layer flow approximation for asymmetric oscillatory sheet flow Xin Chen (China Agricultural University)
9:40-9:55 On-site	Rheology and its mechanism of clay sediment Yuan Lin (Zhejiang University)
9:55-10:10 Online	Mixing and propagating of weakly and strongly stratified two-layer lock-exchange gravity currents Rui Zhu (Zhejiang University)/
10:10-10:30	Tea break
Chair:	
10:30-10:45 Online	Phosphorus transfer and transformation dynamics at sediment-water interface under propeller jet flow Zhi Yu (Changsha University of Science and Technology)
10:45-11:00 On-site	Influence of three-dimensional topography on different regions of density Jingyao Chen (Zhejiang University)
11:00-11:15 Online	A theoretical model for describing channel axis deviation and cross-section change under the action of cross flow in coastal region Wang Na (Jiangsu ocean university)
11:15-11:30 On-site	A logarithmic bottom boundary model for the unsteady and non-uniform swash Fangfang Zhu (University of Nottingham Ningbo China)
11:30-11:45 Online	Coastline change analysis along Quang Nam coast Vu Huong Ngan (Thuyloi University)
11:45-12:00 Online	Numerical simulation of hydrodynamic and sediment transport at Cua Lo Inlet, Quang Nam Province, Vietnam Nguyen Quang Duc Anh (Thuyloi University)
12:00-13:30-	Lunch break



S2 Marine aquaculture engineering

Saturday, 12th December (220, Teaching Building)

Chair: Dejun Feng

8:30-8:50 On-site	Dynamic response analysis of steel structure pen under the action of waves Yong Cui (Yellow Sea Fisheries Research Institute)
8:50-9:10 On-site	Experimental study on hydrodynamic characteristics of fishing nets with different materials in waves and currents Changping Chen (Dalian Ocean University)
9:10-9:30 On-site	Numerical simulation of the influence of the distances among artificial reefs on artificial reef flow effects Xinxin Wang (China Ocean University)
9:30-9:50 On-site	Hydrodynamic aspects of a floating fish farm with circular collar Peng Li (Harbin Engineering University)
9:50-10:10 On-site	Turbulence characteristics and mass transport in the near wake of fishing net panel Dongdong Shao (Beijing Normal University)
10:10-10:30	Tea break
Chair: Yong Cui	
10:30-10:50 On-site	Submarine cable online observation system and its application in marine Ranch Yanzhen Gu (China Ocean University)
10:50-11:10 On-site	Numerical simulation of hydrodynamic responses of a multi-body fish cage with single-point mooring system Chao Ma (Dalian University of Technology)
11:10-11:30 On-site	Numerical study of the hydrodynamic characteristics of a semi-submersible aquaculture facility in waves Hangfei Liu (Dalian University of Technology)
11:30-11:50 On-site	Numerical analysis of hydrodynamic loads on the structure of a marine fish cage Ziming Xu (Shanghai Jiao Tong University)
12:00-13:30	Lunch break



S4 Coastal hazards and integrated management options

Saturday, 12 th December (226, Teaching Building)	
Chair: Xiao-Hua Wang, Paul Liu	
8:30-9:55 Online keynote	Dynamic response of coasts and estuaries to human impacts Xiaohua Wang (UNSW Canberra, Australia)
9:55-9:10 Online	Alarming message from Asian major river deltas J. Paul Liu (North Carolina State University, USA)
9:10-9:25 Online	Epidemic Mechanics: Three Theoretical Fundamental Epidemic Laws Based on Data of COVID-19 Pandemic Junke Guo (University of Nebraska-Lincoln, USA)
9:25-9:40 Online	Modelling near-shore processes using an unstructured-mesh model Yongsheng Wu (Bedford Institute of Oceanography, Dartmouth, Canada)
9:40-9:55 Online	Stochastic Modeling of the Fate and Behaviours of Oil Spill in the Salish Sea Haibo Niu (Dalhousie University, Canada)
9:55-10:10 Online	A modified expression of bottom friction factor beneath nonlinear nearshore waves Mingxiao Xie (Tianjin Research Institute for Water Transport Engineering)
10:10-10:30	Tea break
Chair: Ya-ping Wang	
10:30-10:55 On-site keynote	Surface water and groundwater interactions in coastal wetlands Ling Li (Westlake University)
10:55-11:10 On-site	Numerical investigation of transformation and runup of solitary wave over permeable fringing reef using a non-hydrostatic model Ke Qu (Changsha University of Science & Technology)
11:10-11:25 On-site	Summer monsoon facilitated off-shelf transport of dissolved aluminum across the East China Sea Zhaowei Wang (Dalian Maritime University)
11:25-11:40 Online	Particle track modelling and observations to better understand complex sediment transport pathways, Darwin Harbour, Northern Territory, Australia David Williams (inStream techniques, Darwin NT, Australia)
12:00-13:30	Lunch break



Plenary speeches & Closing ceremony

Saturday, 12 th December (Haiji Hotel)	
Chair:	
14:20-15:00 Online	Plenary speech: Coastal Hydrodynamics of Coral Reefs and Islands Jinhai Zheng (Hohai University)
15:00-15:40 Online	Plenary speech: Wave and current damping in mangroves Marcel Stive (Delft University of Technology)
15:40-16:20 Online	Plenary speech: Development of the multi-float wave energy converter M4: experiments, linear modelling, mean forces and moorings Peter Stansby (University of Manchester)
16:20-	Closing ceremony