

Conference schedule at glance

Sunday, July 10	
17:00 -19:00	Registration
Monday, July 11	
08:00 – 08:45	Registration
08:45 – 09:10	Conference start, welcoming remarks
09:10 – 10:50	Morning I – Loads & Ships (4)
10:50 – 11:20	Coffee break
11:20 – 13:00	Morning II – Sloshing & Cargo (4)
13:00 – 14:20	Conference Lunch
14:20 – 16:00	Afternoon I – Slamming impact (4)
16:00 – 16:20	Coffee break
16:20 – 18:00	Afternoon II – Spec. Session: Learning from data in hydroelastic problems (4)
19:30 – 21:00	Welcome reception
Tuesday, July 12	
08:30 – 10:10	Morning I – Offshore structures (4)
10:10 – 10:40	Coffee break
10:40 – 12:20	Morning II – Ice sheets (4)
12:20 – 13:00	General Discussion – What’s next in hydroelasticity?
13:00 – 14:20	Conference Lunch
14:20 – 16:00	Afternoon I – Wave – Plate Interaction (4)
16:00 – 16:20	Coffee break
16:20 – 18:00	Afternoon II: Spec. Session: Exploring multi-disciplinarity (4)
18:00 – 19:00	Standing Committee Meeting (hybrid form)
19:30	Departure for Conference Banquet
20:00 – 23:00	Conference Banquet
Wednesday, July 13	
08:30 – 10:10	Morning I – Underwater & Acoustics (4)
10:10 – 10:40	Coffee break
10:40 – 12:45	Morning II – Methods in hydroelasticity (5)
12:45 – 14:00	Conference Lunch
14:00 – 15:15	Afternoon I – Fish & Foils (3)
15:15 – 15:30	Coffee break
15:30 – 16:45	Afternoon II – Offshore air & wind (3)
16:45 – 20:00	Technical tour to CNR-INM experimental facilities

Technical Sessions

Monday 11/07 (P = in-presence / R = remote)

09:10-10:50 Morning I Loads and Ships				
Time	First author	Title	No	Type
09:10-09:35	S. Tavakoli	The Hydroelastic Response of Flat Plate Structures Some Recent Experiences	35	P
09:35-10:00	I. Drummen	Multifidelity Approach for Predicting Extreme Global Bending Load Effects	4	P
10:00-10:25	I-H Jang	Whipping Analysis of Arctic LNG Carrier	44	P
10:25-10:50	C. Tiao	Investigation on Modal Characteristics of Test Models of Ultra Large Containership for Hydroelastic Responses	45	R

11:20-13:00 Morning II Sloshing and Cargo				
Time	First author	Title	No	Type
11:20-11:45	M. Pizzoli	Neural-Network-Based Reduced-Order Model for Vertical Sloshing FSI Simulations	29	P
11:45-12:10	J. Lee	Hydroelastic Responses of LNG CCS due to Sloshing Loads I: Hydrodynamic Impact due to Different Liquids and Gases	26	P
12:10-12:35	D. Mikail	Ship-cargo Interaction for Vessels Carrying Large Wind Turbine Monopiles	47	P
12:35-13:00	C. Park	Hydroelastic Responses of LNG CCS due to Sloshing Loads II: Structural Responses due to Different Impact Patterns	27	R

14:20-16:00 Afternoon I Slamming Impact				
Time	First author	Title	No	Type
14:20-14:45	A. Korobkin	Three-Dimensional Hydroelastic Impact onto a Floating Circular Plate	16	P
14:45-15:10	S. Malenica	On Three Dimensional Hydroelastic Impact	17	P
15:10-15:35	E. Spinosa	Analysis of the Fluid-Structure Interaction During the Water Entry of a Flat Plate at High Horizontal Speed	56	P
15:35-16:00	Z. Sun	Effect of Fluid Gravity on Slamming Force	40	R

16:20-18:00 Afternoon II Special Session – Learning from Data				
Time	First author	Title	No	Type
16:20-16:45	A. Korobkin	Estimation of VIV-Parameters Based on Response Measurements and Bayesian Machine Learning Algorithms	46	P
16:45-17:10	S. Malenica	A Data Clustering Approach to Identifying Slamming Types in Irregular Waves	53	P
17:10-17:35	E. Spinosa	Application of Machine Learning on The Classification of Slamming Events	54	P
17:35-18:00	Z. Sun	Machine Learning Models for the Estimation of the Stability Number of Rubble-Mound Breakwaters and Feature Analysis	42	R

Tuesday 12/07

08:30-10:10 Morning I Offshore Structures				
Time	First author	Title	No	Type
08:30-08:55	M. Mukhlas	Experimental and Numerical Investigation of a Vertical Pre-tensioned Membrane Sheet in Regular Waves	48	P
08:55-09:20	A. Ahani	Experimental Analysis of High and Steep Wave Impacts and Related Hydroelastic Effects for Offshore Structures in Steel	30	P
09:20-09:45	N. Disibuyuk	An Asymptotic Method for the Diffraction of Hydro-Elastic Waves by Nearly Circular Cylinders	20	R
09:45-10:10	S. Li	Numerical Study of Mean Drift Force on Flexible Structures	33	R

10:40-12:20 Morning II Ice Sheets				
Time	First author	Title	No	Type
10:40-11:05	K. Maki	Viscoelastic Response of Level Ice to Ship Wakes	3	P
11:05-11:30	K. Shishmarev	Hydroelastic Waves Propagating in Ice Channel with a Variable Thickness of Ice	19	0
11:30-11:55	Y. Chen	Interaction of Nonlinear Waves with Floating, Elastic Sheets in Arbitrary Water Depths	9	R
11:55-12:20	Y. Semenov	Ice Sheet/Liquid Interaction in A Channel of Arbitrary Topography	28	R

14:20-16:00 Afternoon I Wave – Plate Interaction				
Time	First author	Title	No	Type
14:20-14:45	S. Boral	Flexural Gravity Wave Blocking due to a Floating Submerged Plate Resting on a Viscoelastic Foundation	6	R
14:45-15:10	P. Negi	Scattering of Long Flexural Waves by An Articulated Floating Elastic Plate in The Context of Wave Blocking	21	R
15:10-15:35	M. Singh	Wave Interaction with A Flexible Plate of Variable Thickness in Presence of Vertical Porous Plates	24	R
15:35-16:00	S. Barman	Scattering of Flexural-Gravity Waves Due to A Finite Gap in The Context of Blocking Dynamics	25	R

16:20-18:00 Afternoon II Special Session – Exploring Multidisciplinarity in Ocean Energy Harvesting				
Time	First author	Title	No	Type
16:20-16:45	E. Renzi	Wave Energy Extraction by Elastic Floaters	18	P
16:45-17:10	T. Kristiansen	A Floating Membrane Solar Island Study	32	P
17:10-17:35	D. Dessi	Reduced-Order Model of Flexible Floaters for Wave Energy Harvesting	55	P
17:35-18:00	L. Huang	Fully-coupled CFD+CSM Analysis on an Elastic Floating/Submerged Plate for Wave Energy Harvest	2	R

Wednesday 13/07

08:30-10:10 Morning I Underwater & Acoustics				
Time	First author	Title	No	Type
08:30-08:55	L-W Jiang	Acoustic Radiation and Propagation Integrated Analysis of Underwater Elastic Structures Based on Sono-Elasticity Theory	49	R
08:55-09:20	Z. Fu	A Hybrid Computational Scheme for Vibration and Acoustic Radiation Analysis of Underwater Structure	37	R
09:20-09:45	L. Qi	Study On the Influence of Modeling Water Added and In the Side of A Ship On Structural Vibration And Acoustic Radiation	41	R
09:45-10:10	S. Hossain	Effects of Flexible Bottom on Generation of Surface Waves by A Moving Oscillatory Disturbance	38	R

10:40-12:20 Morning II Methods in hydroelasticity				
Time	First author	Title	No	Type
10:40-11:05	M. Park	Non-Matching Mesh Treatment in Hydro-Elastic Analysis	10	P
11:05-11:30	C. Jiang	Simulation of an Elastic Plate Interacting with Free Surface Flow Using a FV-FV Coupled Approach	15	P
11:30-11:55	B. Zhou	Hydroelastic Solutions Using a High-order Finite Difference Method on Overlapping Grids	39	P
11:55-12:20	Q-B Wang	A Three-Dimensional Hydroelastic Analysis Method for The Multiply-Connected Domain Floating Structure In Time Domain	36	R
12:20-12:45	Y. Chen	A Discrete-Module-Finite-Element Based Hydroelasticity Method in Analyzing Dynamic Response of Floating Flexible Structures	23	R

14:00-15:15 Afternoon I Fish and Foils				
Time	First author	Title	No	Type
14:00-14:25	E. Paifelman	Hydroelastic Model for Fish-Like Propulsion	34	P
14:25-14:50	O. D'Ubaldo	Experimental Flutter Testing of a NACA-16012 Hydrofoil Model	52	P
14:50-15:15	G.C. Caccia	Hydroelastic Characterization of a Composite Kitesurf Hydrofoil Using MBDyn	12	R

15:30-16:45 Afternoon II Offshore Air & Wind				
Time	First author	Title	No	Type
15:30-15:55	W. J. Otto	Hydro-Elastic Behavior of an Inflatable Mattress in Waves	7	P
15:55-16:20	G.C. Caccia	Effect of Waves on the Efficiency of Off-Shore Wind Turbines	11	R
16:20-16:45	A. Lamei	Hydroelastic Response of Wind-Tracing Floating Offshore Structures to Irregular Waves and Wind	5	R