

Technical Program

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

09:10-10:50	Morning I	Loads and Ships		
	Chairman	Y. Kim		
Time	Presenter	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. Tian	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		
	Chairman	I. Drummen		
Time	Presenter	Title	No	Type
11:20-11:45	A. Grammatikopoulos	Ship-cargo Interaction for Vessels Carrying Large Wind Turbine Monopiles	47	P
11:45-12:10	F. Saltari	Neural-Network-Based Reduced-Order Model for Vertical Sloshing FSI Simulations	29	P
12:10-12:35	Y. Kim	Hydroelastic Responses of LNG CCS due to Sloshing Loads I: Hydrodynamic Impact due to Different Liquids and Gases	26	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		
	Chairman	M. Greco		
Time	Presenter	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	X.P. Sui	Effect of Fluid Gravity on Slamming Force	40	R

16:20-18:00	Afternoon II	Special Session – Learning from Data		
	Chairman	K. Maki		
Time	Presenter	Title	No	Type
16:20-16:45	D. Dessi	Unsupervised and Supervised Machine Learning Techniques for Slamming Classification from SHM data	54	P
16:45-17:10	M. Diez	A Data Clustering Approach to Identifying Slamming Types in Irregular Waves	53	P
17:10-17:35	M.Andersen	Estimation of VIV-Parameters Based on Response Measurements and Bayesian Machine Learning Algorithms	46	P
17:35-18:00	S. Saha	Machine Learning Models for the Estimation of the Stability Number of Rubble-Mound Breakwaters & Feature Analysis	42	R

Tuesday 12/07

08:30-10:10		Morning III	Offshore Structures		
		Chairman	B. Leira		
Time	Presenter	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.X. Fu	Numerical Study of Mean Drift Force on Flexible Structures	33	R	

10:40-12:20		Morning IV	Ice Sheets		
		Chairman	A. Korobkin		
Time	Presenter	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	R	
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 III	Wave – Plate Interaction		
		Chairman	Y.M.Scolan		
Time	Presenter	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	

16:20-17:35		Afternoon IV	Offshore Air & Wind		
		Chairman	T. Kristiansen		
Time	Presenter	Title	No	Type	
16:20-16:45	W. J. Otto	Hydro-Elastic Behavior of an Inflatable Mattress in Waves	7	P	
16:45-17:10	G.C. Caccia	Effect of Waves on the Efficiency of Off-Shore Wind Turbines	11	R	
17:10-17:35	A. Lamei	Hydroelastic Response of Wind-Tracing Floating Offshore Structures to Irregular Waves and Wind	5	R	

Wednesday 13/07

08:30-10:10		Morning V	Underwater & Acoustics		
		Chairman	A. Iafrati		
Time	Presenter	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 VI	Methods in Hydroelasticity		
		Chairman	S. Malenica		
Time	Presenter	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 V	Fish and Foils		
		Chairman	M. Diez		
Time	Presenter	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 VI	Special Session – Exploring Multidisciplinarity in Ocean Energy Harvesting		
		Chairman	E. Ciappi		
Time	Presenter	Title	No	Type	
15:30-15:55	T. Kristiansen	A Floating Membrane Solar Island Study	32	P	
15:55-16:20	E. Renzi	Wave Energy Extraction by Elastic Floaters	18	R	
16:20-16:45	L. Huang	Fully-coupled CFD+CSM Analysis on an Elastic Floating/Submerged Plate for Wave Energy Harvest	2	R	