OMAE 2020: 39th International Conference on Ocean, Offshore & Arctic Engineering

OMAE 2020 Virtual Conference Program: Monday - Tuesday

Monday 13:30 - 14:30

SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR		SYMP 4: PRS	SYMP 6: OE	SYMP 6: OE	SYMP7: PAS	SYMP 8: CFD & FSI	SYMP 9: ORE	SYMP 10: OG	SYMP 11: PT
Session Name	1-1-1 Offshore Platforms I	2-9-1 Structural Analysis and Optimization I		04-01-01 Flexibles I	6-1-1 Computational Mehc	6-3-1 Fluid-Stucture, Multi-	7-1-1 Arctic Technology	8-5-1 Internal Flows	9-1-1: Wind Energy 1: Mod	10-1-1 Geotechnics I	11-7-1 Well Drilling Fluids
Session Chair	Anil Sablok	Jonas Ringsbeg		Zhimin Tan	Wei Qiu	Alessandro Iafrati	Marc Cahay, marc.cahay@	Narakorn Srinil	Matthew Hall	Alexia Aubault	Ergun Kuru
Session Co-Chair	Allan Magee	Paulo Mauricio Videiro		José Renato Sousa	Kuang-An Chang		Walter Kuehnlein, wk@a2e	Madhusuden Agrawal	Nhu Nguyen	TBD	Evren Ozbayoglu and Arilc
Paper #1	OMAE2020-18136	OMAE2020-18297		OMAE2020-18204	OMAE2020-19007	OMAE2020-18445	OMAE2020-18166	OMAE2020-18684	OMAE2020-18358	OMAE2020-18107	OMAE2020-19288
Paper #2	OMAE2020-18528	OMAE2020-18037		OMAE2020-18657	OMAE2020-19132	OMAE2020-18588	OMAE2020-18039	OMAE2020-18034	OMAE2020-18353	OMAE2020-18775	OMAE2020-19071
Paper #3	OMAE2020-18229	OMAE2020-18490		OMAE2020-18842	OMAE2020-18089	OMAE2020-18272	OMAE2020-19117	OMAE2020-18760	OMAE2020-18772	OMAE2020-18113	OMAE2020-18336
Paper #4	OMAE2020-18294	OMAE2020-18225		OMAE2020-18881	OMAE2020-18105	OMAE2020-18223	OMAE2020-18731	OMAE2020-18370	OMAE2020-18467	OMAE2020-19304	OMAE2020-18719
Paper #5	OMAE2020-18357	OMAE2020-19110		OMAE2020-18948	OMAE2020-18518	OMAE2020-18224	OMAE2020-18320	OMAE2020-18162	OMAE2020-18365	OMAE2020-19335	OMAE2020-18006
Paper #6	OMAE2020-18314	OMAE2020-18597		OMAE2020-18957	OMAE2020-18499	OMAE2020-18901	OMAE2020-18172		OMAE2020-18798	OMAE2020-18296	OMAE2020-18098
Paper #7	OMAE2020-18533	OMAE2020-18674		OMAE2020-19045	OMAE2020-18789	OMAE2020-19350	OMAE2020-18828		OMAE2020-19257	OMAE2020-18295	OMAE2020-18709
Paper #8	OMAE2020-18542	OMAE2020-18616				OMAE2020-18797	OMAE2020-18181		OMAE2020-19224	OMAE2020-18332	OMAE2020-18824
Paper #9	OMAE2020-18812	OMAE2020-18280				OMAE2020-18860	OMAE2020-18152		OMAE2020-19341	OMAE2020-18396	OMAE2020-18386
Paper #10		OMAE2020-19015					OMAE2020-19068		OMAE2020-19148	OMAE2020-18448	OMAE2020-18730
		OMAE2020-18526									OMAE2020-19108

Monday 15:00 - 16:00

SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR		SYMP3: MAT	SYMP 4: PRS	SYMP 6: OE	SYMP 6: OE		SYMP 9: ORE		SYMP 11: PT
Session Name	1-1-2 Offshore Platforms II, Sta	2-9-2 Structural Analysis and Optimization II		03-01-01 Fracture Assessr	04-03-01 Pipeline Mechani	6-3-2 Fluid-Stucture, Multi-	6-6-1 Modeling, Characterization, Structures and Loa		9-2-2: Wave Energy 1: OWC& other WEC designs		11-2-1 Drilling Mechanics &
Session Chair	Anil Sablok	Jonas Ringsbeg		Xin Wang, Carleton Univer	Mike Paulin	Daniel Costa	Celso Morooka		Yu-Yi-Hsiang		Robello Samuel and Arash
Session Co-Chair	Allan Magee	Paulo Mauricio Videiro		Sheng Bao, Zhejiang Univ	Daniel Carneiro				Sheng, Xu		Z. Michael Liu
Paper #1	OMAE2020-18847	OMAE2020-18897		OMAE2020-18952	OMAE2020-18344	OMAE2020-18000	OMAE2020-18202		OMAE2020-18176		OMAE2020-18414
Paper #2	OMAE2020-19163	OMAE2020-18408		OMAE2020-18048	OMAE2020-18372	OMAE2020-19089	OMAE2020-18453		OMAE2020-18553		OMAE2020-18677
Paper #3	OMAE2020-18844	OMAE2020-18286		OMAE2020-18313	OMAE2020-19313	OMAE2020-18423	OMAE2020-18671		OMAE2020-18839		OMAE2020-19191
Paper #4	OMAE2020-18096	OMAE2020-18848		OMAE2020-18653	OMAE2020-18195	OMAE2020-19133	OMAE2020-18906		OMAE2020-19172		OMAE2020-19149
Paper #5	OMAE2020-18170	OMAE2020-18055		OMAE2020-18021	OMAE2020-18206	OMAE2020-18750	OMAE2020-18989		OMAE2020-19128		OMAE2020-18263
Paper #6	OMAE2020-18805	OMAE2020-18029		OMAE2020-18032	OMAE2020-18747	OMAE2020-19253	OMAE2020-19171		OMAE2020-18106		OMAE2020-19320
Paper #7	OMAE2020-19185	OMAE2020-19086		OMAE2020-18733	OMAE2020-19062		OMAE2020-19190		OMAE2020-18464		OMAE2020-18856
Paper #8	OMAE2020-18806	OMAE2020-18242		OMAE2020-18703					OMAE2020-18427		OMAE2020-19169
Paper #9	OMAE2020-18965	OMAE2020-18388		OMAE2020-18861					OMAE2020-19029		OMAE2020-18052
Paper #10		OMAE2020-18197		OMAE2020-19358							OMAE2020-18923
Paper #11		OMAE2020-18580									

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SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR		SYMP 4: PRS	SYMP 6: OE	SYMP 6: OE	SYMP7: PAS	SYMP 8: CFD & FSI	SYMP 9: ORE	SYMP 10: OG	SYMP 11: PT
Session Name	1-2-1 Hydrodynamics and Desi	2-3-1 Fatigue and Fracture Reliability		04-01-02 Flexibles II	6-4-1 Marine Energy and T	6-10-1 Offshore Industry:	7-2-1 Ships in ice/Ship-ice	8-1-1 Ship & Floating Syst	9-1-2: Wind Energy 2: Cor	10-1-2 Geotechnics II	11-1-1 Well Drilling Techno
Session Chair	Longbin Tao	Yordan Garbatov		Anh Tuan Do	Muk Chen Ong	Guan Yin	Bergström Martin, martin.l	Steve Cosgrove	Alan Wright	Alexia Aubault	Steve Butt
Session Co-Chair	Masoud Hayatdavoodi			Zhimin Tan	Alexandre Simos		Walter Kuehnlein, wk@a2e	Samuel holmes	Matthew Hall	TBD	Aziz Rahman
Paper #1	OMAE2020-19081	OMAE2020-18608		OMAE2020-18212	OMAE2020-19079	OMAE2020-19279	OMAE2020-18023	OMAE2020-19338	OMAE2020-18549	OMAE2020-18452	OMAE2020-18151
Paper #2	OMAE2020-19017	OMAE2020-18821		OMAE2020-18304	OMAE2020-18726	OMAE2020-18634	OMAE2020-18031	OMAE2020-18030	OMAE2020-18770	OMAE2020-18721	OMAE2020-18203
Paper #3	OMAE2020-18130	OMAE2020-18319		OMAE2020-18347	OMAE2020-19033	OMAE2020-18024	OMAE2020-19294	OMAE2020-18755	OMAE2020-18405	OMAE2020-18781	OMAE2020-19286
Paper #4	OMAE2020-19039	OMAE2020-19048		OMAE2020-18525	OMAE2020-18924	OMAE2020-18081	OMAE2020-18131	OMAE2020-18412	OMAE2020-18946	OMAE2020-18784	OMAE2020-18836
Paper #5	OMAE2020-18362	OMAE2020-18613		OMAE2020-18971	OMAE2020-18764	OMAE2020-19160	OMAE2020-19178		OMAE2020-18380	OMAE2020-19060	OMAE2020-18858
Paper #6	OMAE2020-19343	OMAE2020-18661		OMAE2020-19356	OMAE2020-19153	OMAE2020-19061	OMAE2020-18728		OMAE2020-18391	OMAE2020-19206	OMAE2020-18838
Paper #7	OMAE2020-19315	OMAE2020-18794		OMAE2020-18122	OMAE2020-18281		OMAE2020-18808		OMAE2020-18954	OMAE2020-19099	OMAE2020-19035
Paper #8	OMAE2020-19194	OMAE2020-19261			OMAE2020-18093		OMAE2020-18667			OMAE2020-19204	OMAE2020-18115
Paper #9	OMAE2020-18658	OMAE2020-18094			OMAE2020-18651		OMAE2020-18025			OMAE2020-19252	OMAE2020-18220
Paper #10	OMAE2020-18095	OMAE2020-18350								OMAE2020-19186	OMAE2020-18751
											OMAE2020-19082

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SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR	SYMP3: MAT	SYMP 4: PRS	SYMP 5: OSU	SYMP 6: OE	SYMP 6: OE	SYMP 8: CFD & FSI	SYMP 9: ORE	SYMP 10: OG	SYMP 11: PT
Session Name	1-3-1 Design & Analysis II	2-4-1 Reliability of Marine	03-02-01 Fatigue Analysis	04-02-01 Rigid Risers I	5-1-1 Aquaculture and Rel	6-4-2 Marine Energy and T	6-11-1 Offshore Industry:	Structures and Design	9-2-3: Wave energy 2: CFD & numerical methods		11-11-1 Well Drilling Techn
Session Chair	Olaf Walls	Luis Sagrilo	Sheng Bao, Zhejiang Univ	Basim Mekha	Daisuke Kitazawa	Muk Chen Ong	Joel Sena Sales Jr.		Nathan Tom		Aziz Rahman
Session Co-Chair	Masoud Hayatdavoodi		Xin Wang, Carleton Univer	---	Dominique Raddier	Alexandre Simos	Fabricio Correa		Narasimman, Sasikala		Steve Butt
Paper #1	OMAE2020-18126	OMAE2020-18835	OMAE2020-18813	OMAE2020-18065	OMAE2020-18928	OMAE2020-18368	OMAE2020-19114		OMAE2020-18424		OMAE2020-18939
Paper #2	OMAE2020-18124	OMAE2020-18163	OMAE2020-18288	OMAE2020-18190	OMAE2020-18112	OMAE2020-18715	OMAE2020-18399		OMAE2020-18440		OMAE2020-19311
Paper #3	OMAE2020-18056	OMAE2020-19337	OMAE2020-18071	OMAE2020-19085	OMAE2020-18605	OMAE2020-18776	OMAE2020-18982		OMAE2020-18392		OMAE2020-18695
Paper #4	OMAE2020-19302	OMAE2020-18306	OMAE2020-19043	OMAE2020-19281	OMAE2020-18355	OMAE2020-18267	OMAE2020-18882		OMAE2020-18802		OMAE2020-18477
Paper #5	OMAE2020-18063	OMAE2020-18652	OMAE2020-18629	OMAE2020-19303	OMAE2020-18513	OMAE2020-18550	OMAE2020-19011		OMAE2020-18865		OMAE2020-19094
Paper #6	OMAE2020-18118	OMAE2020-18887	OMAE2020-18515	OMAE2020-19308	OMAE2020-18720	OMAE2020-19078			OMAE2020-18510		OMAE2020-18604
Paper #7	OMAE2020-18534	OMAE2020-18628	OMAE2020-18675	OMAE2020-18322	OMAE2020-18875	OMAE2020-18787			OMAE2020-19054		OMAE2020-18682
Paper #8	OMAE2020-18817	OMAE2020-19225	OMAE2020-18646	OMAE2020-19057		OMAE2020-18135			OMAE2020-19255		OMAE2020-18704
Paper #9	OMAE2020-18415	OMAE2020-18127				OMAE2020-18302					
Paper #10	OMAE2020-18753	OMAE2020-18478				OMAE2020-18401					

OMAE 2020 Virtual Conference Program: Wednesday - Thursday

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SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR	SYMP 2: SSR	SYMP 4: PRS	SYMP 6: OE	SYMP 6: OE		SYMP 8: CFD & FSI	SYMP 9: ORE		SYMP 11: PT
Session Name	1-3-2 Design & Analysis III	2-5-1 Reliability of Renewa	2-12-1 Safety in Harsh Env	04-01-03 Flexibles III	6-5-1 Marine Hydrodynam	6-9-1 Positioning Systems I		8-3-1 Advance Computatio	9-1-3: Wind Energy 3: Hydrodynamics		11-7-2 Integrity of Well Bar
Session Chair	Masoud Hayatdavoodi	Zhen Gao	Faisal Khan	José Renato Sousa	Remco Hageman	David Molyneux		Guilherme Vaz	Pegalajar-Jurado, Antonio		Jan David Ytrehus
Session Co-Chair	Olaf Walls	Athanasios Kolios	Max Russo	Zhimin Tan		Parameswaran Krishmankutty			Souto-Iglesias, Antonio		TBD
Paper #1	OMAE2020-18208	OMAE2020-18506	OMAE2020-18045	OMAE2020-18005	OMAE2020-18466	OMAE2020-18167		OMAE2020-18285	OMAE2020-18185		OMAE2020-18277
Paper #2	OMAE2020-18238	OMAE2020-18609	OMAE2020-18744	OMAE2020-18010	OMAE2020-18673	OMAE2020-18309		OMAE2020-18560	OMAE2020-18239		OMAE2020-18178
Paper #3	OMAE2020-18238	OMAE2020-18868	OMAE2020-19119	OMAE2020-18307	OMAE2020-18243	OMAE2020-18694		OMAE2020-18867	OMAE2020-18252		OMAE2020-18623
Paper #4	OMAE2020-18271	OMAE2020-19179	OMAE2020-18947	OMAE2020-19044	OMAE2020-18625	OMAE2020-19103		OMAE2020-18970	OMAE2020-19339		OMAE2020-18496
Paper #5	OMAE2020-18725	OMAE2020-18349	OMAE2020-18505	OMAE2020-18364	OMAE2020-18624	OMAE2020-19008		OMAE2020-18556	OMAE2020-18910		OMAE2020-18215
Paper #6	OMAE2020-18529	OMAE2020-18211	OMAE2020-18210	OMAE2020-18426	OMAE2020-18352	OMAE2020-18146		OMAE2020-18431	OMAE2020-18679		OMAE2020-18713
Paper #7	OMAE2020-18555	OMAE2020-18175	OMAE2020-19329	OMAE2020-18564	OMAE2020-18137	OMAE2020-18444			OMAE2020-18013		OMAE2020-18938
Paper #8	OMAE2020-18650	OMAE2020-18232	OMAE2020-18498	OMAE2020-18231	OMAE2020-18240	OMAE2020-18141			OMAE2020-18076		OMAE2020-18275
Paper #9	OMAE2020-18888	OMAE2020-19292	OMAE2020-19330	OMAE2020-18698	OMAE2020-18356	OMAE2020-18967			OMAE2020-19020		OMAE2020-18468
Paper #10					OMAE2020-18614						

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SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR	SYMP3: MAT	SYMP 4: PRS	SYMP 5: OSU	SYMP 6: OE	SYMP 6: OE		SYMP 9: ORE		SYMP 11: PT
Session Name	1-3-3 Design & Analysis IV, FN	2-6-1 Extreme Loading and	03-03-01 Integirty Assessr	04-03-02 Pipeline Thermo-	5-2-1 Deep Sea and Under	6-5-2 Marine Hydrodynami	6-9-2 Positioning Systems II		9-2-4: Wave Energy 3: Control and Arrays		11-8-1 Well Cementing The
Session Chair	Jang Whan Kim	Spiros Hirdaris	Morten Andre Langøy, Pet	Daniel Carneiro	Sotaro Masanobu	Joel Sena Sales Jr.	David Molyneux		Masoud Hayatdavoodi		Ian Frigaard
Session Co-Chair	Wenhua Zhao	Carlos Guedes Soares	Xin Wang, Carleton Univer	Mike Paulin	Tomoki Ikoma		Parameswaran Krishmankutty		Malara, Giovanni		TBD
Paper #1	OMAE2020-19183	OMAE2020-19345	OMAE2020-19287	OMAE2020-18111	OMAE2020-18346	OMAE2020-18327	OMAE2020-18343		OMAE2020-18156		OMAE2020-18227
Paper #2	OMAE2020-19129	OMAE2020-18904	OMAE2020-18586	OMAE2020-18261	OMAE2020-18688	OMAE2020-18447	OMAE2020-18967		OMAE2020-18669		OMAE2020-18219
Paper #3	OMAE2020-19198	OMAE2020-18335	OMAE2020-18017	OMAE2020-18360	OMAE2020-18194	OMAE2020-18251	OMAE2020-18461		OMAE2020-18961		OMAE2020-18707
Paper #4	OMAE2020-18641	OMAE2020-18200	OMAE2020-18475	OMAE2020-18893	OMAE2020-18257	OMAE2020-18226	OMAE2020-18633		OMAE2020-19156		OMAE2020-18077
Paper #5	OMAE2020-18663	OMAE2020-18434	OMAE2020-18892	OMAE2020-18578	OMAE2020-19105	OMAE2020-19285	OMAE2020-18128		OMAE2020-19306		OMAE2020-18287
Paper #6	OMAE2020-18678	OMAE2020-19187	OMAE2020-18953	OMAE2020-18960	OMAE2020-19112	OMAE2020-18538	OMAE2020-18471		OMAE2020-18554		OMAE2020-18287
Paper #7	OMAE2020-18298	OMAE2020-18179	OMAE2020-19248	OMAE2020-18046		OMAE2020-18144	OMAE2020-18621		OMAE2020-19155		OMAE2020-19344
Paper #8	OMAE2020-19173	OMAE2020-18413	OMAE2020-18249	OMAE2020-18047			OMAE2020-18133		OMAE2020-19266		OMAE2020-18810
Paper #9	OMAE2020-19188	OMAE2020-19170	OMAE2020-18250				OMAE2020-18141				
Paper #10		OMAE2020-18501									

Thursday 13:30 - 14:30

SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR		SYMP 4: PRS	SYMP 6: OE	SYMP 6: OE		SYMP 8: CFD & FSI	SYMP 9: ORE		SYMP 11: PT
Session Name	1-4-1 Wave Loading and Motior	2-10-1 Risk Analysis and Management I		04-01-04 Flexibles & Umbi	6-12-1 Ocean Engineering	6-14-1 Ship Hydrodynamics, Towed and Undesea Ca		8-2-1 Free Surface Flows	9-1-4 Wind Energy 3: Aerodynamics and numerical a		11-9-1 Well Control
Session Chair	Nuno Fonseca	Angelo Teixeira		Zhimin Tan	Alessandro Iafrati	Lin Li		Hans Bihs	Krish Thiagarajan Sharman		Yuanhang Chen
Session Co-Chair	Rajiv Aggarwal	Faisal Khan		Anh Tuan Do					Herbjorn Haslum		Kjell Kare Fjelde and Bernt
Paper #1	OMAE2020-18132	OMAE2020-18995		OMAE2020-18316	OMAE2020-18255	OMAE2020-18134		OMAE2020-18645	OMAE2020-18084		OMAE2020-18049
Paper #2	OMAE2020-18290	OMAE2020-18996		OMAE2020-18859	OMAE2020-18885	OMAE2020-19319		OMAE2020-18160	OMAE2020-18087		OMAE2020-18168
Paper #3	OMAE2020-18284	OMAE2020-19165		OMAE2020-18950	OMAE2020-18891	OMAE2020-18788		OMAE2020-19305	OMAE2020-18173		OMAE2020-18630
Paper #4	OMAE2020-18717	OMAE2020-19184		OMAE2020-19234	OMAE2020-19289	OMAE2020-18147		OMAE2020-18870	OMAE2020-18273		OMAE2020-18324
Paper #5	OMAE2020-18003	OMAE2020-19265		OMAE2020-18011	OMAE2020-18067	OMAE2020-18196		OMAE2020-19019	OMAE2020-18233		OMAE2020-18421
Paper #6	OMAE2020-18154	OMAE2020-18864			OMAE2020-18069	OMAE2020-18256		OMAE2020-18359	OMAE2020-18610		OMAE2020-18540
Paper #7	OMAE2020-19328	OMAE2020-18092			OMAE2020-18230				OMAE2020-18710		OMAE2020-19150
Paper #8	OMAE2020-18079	OMAE2020-18258			OMAE2020-18527				OMAE2020-18889		
Paper #9	OMAE2020-18123	OMAE2020-18911							OMAE2020-18913		
Paper #10	OMAE2020-18886								OMAE2020-18342		

Thursday 15:00 - 16:00

SYMPOSIUM	SYMP 1: OFT	SYMP 2: SSR	SYMP3: MAT	SYMP 4: PRS		SYMP 6: OE		SYMP 8: CFD & FSI	SYMP 9: ORE		SYMP 11: PT
Session Name	1-5-1 Artificial Intelligence and	2-11-1 Risk Analysis and M	03.06.01- Advanced Manuf	04-02-02 Rigid Risers II		6-16-1 Underwater Vehicles and Unsteady Hydrodyna		8-4-1 Risers, Pipelines & V	9-3-1: Tidal energy 1: Numerical models		11-13-1 Unconventional Re
Session Chair	Denby Morrison	Angelo Teixeira	Christina Wang, ABS, USA	Basim Mekha		Wei Qiu		Mike Tognarelli	Hai Sun		Hadi Belhaj
Session Co-Chair	Rajiv Aggarwal	Bernt Leira	Sheng Bao, Zhejiang Unive	---		Eduardo AntounTannuri		Michael Ge	Vengatesan Venugopal		TBD
Paper #1	OMAE2020-18783	OMAE2020-18139	OMAE2020-18544	OMAE2020-18377		OMAE2020-18535		OMAE2020-18759	OMAE2020-19298		OMAE2020-18035
Paper #2	OMAE2020-18354	OMAE2020-18834	OMAE2020-19208	OMAE2020-18382		OMAE2020-18548		OMAE2020-18161	OMAE2020-18473		OMAE2020-19307
Paper #3	OMAE2020-18442	OMAE2020-18670	OMAE2020-19174	OMAE2020-18458		OMAE2020-18999		OMAE2020-18329	OMAE2020-18514		OMAE2020-18470
Paper #4	OMAE2020-18454	OMAE2020-18532	OMAE2020-18922	OMAE2020-19006		OMAE2020-19067		OMAE2020-18596	OMAE2020-19120		OMAE2020-18435
Paper #5	OMAE2020-18818	OMAE2020-18264	OMAE2020-18266	OMAE2020-19032		OMAE2020-19121		OMAE2020-19142	OMAE2020-18894		OMAE2020-18318
Paper #6	OMAE2020-19053	OMAE2020-19284	OMAE2020-18545	OMAE2020-18109		OMAE2020-18474			OMAE2020-18701		OMAE2020-18323
Paper #7	OMAE2020-19080	OMAE2020-19064	OMAE2020-19271	OMAE2020-19209		OMAE2020-19268			OMAE2020-18221		OMAE2020-19355
Paper #8	OMAE2020-19195*	OMAE2020-19283*				OMAE2020-18479			OMAE2020-18830		OMAE2020-19316
Paper #9	OMAE2020-19210	OMAE2020-19165*				OMAE2020-19359			OMAE2020-19109		OMAE2020-18222
Paper #10	OMAE2020-19198*										OMAE2020-18502
											OMAE2020-18590
											OMAE2020-19164

* Indicates the inclusion of a new paper

OMAE 2020 Virtual Conference Program: Friday

Friday 9:00 - 10:00 - Q&A 5.1

SYMPOSIUM	SYMP 2: SSR	SYMP 2: SSR	SYMP 4: PRS	SYMP 5: OSU	SYMP 6: OE	SYMP 6: OE		SYMP 8: CFD & FSI	SYMP 9: ORE		SYMP 11: PT
Session Name	**2-8-1 Ultimate Strength**	**2-1-1 Abnormal and Extrer**	**04-04-01 Subsea, Flow Ass**	**5-3-1 VLFS and Ocean Spa**	**6-17-1 Wave mechanics ar**	**6-15-1 Towed and Undesea**	**Cables and Pipes, Moorir**	**8-1-2 Ship & Floating Syst**	**9-2-5: Wave energy 4: Fatigue analysis**		**11-4-1 Petroleum Producti**
Session Chair	**Masahiko Fujikubo**	**Alex Babanin**	**Daniel Carneiro**	**Zhiming Yuan**	**Allan Magee**	**Ye Li**		**Steve Cosgrove**	**Yu, Yi-Hsiang**		**Celso Marooka**
Session Co-Chair	**De-Yu Wang**	**Elzbieta Bitner Gregersen**	**Mike Paulin**	**Hiroaki Eto**				**Samuel holmes**	**Winter, Andrew**		**Sergio Bordalo**
Paper #1	OMAE2020-18739	OMAE2020-18373	OMAE2020-18890	OMAE2020-18279	OMAE2020-18522	OMAE2020-18400		OMAE2020-19093	OMAE2020-18639		OMAE2020-18472
Paper #2	OMAE2020-18737	OMAE2020-18820	OMAE2020-18393	OMAE2020-18070	OMAE2020-18779	OMAE2020-18655		OMAE2020-18693	OMAE2020-18819		OMAE2020-18845
Paper #3	OMAE2020-19201	OMAE2020-19314	OMAE2020-18027	OMAE2020-18785	OMAE2020-18919	OMAE2020-18699		OMAE2020-18236	OMAE2020-18879		OMAE2020-19296
Paper #4	OMAE2020-18198	OMAE2020-18216	OMAE2020-18188	OMAE2020-19026	OMAE2020-18930	OMAE2020-18253		OMAE2020-18511	OMAE2020-19145		OMAE2020-18432
Paper #5	OMAE2020-18008	OMAE2020-18488	OMAE2020-18348	OMAE2020-18997	OMAE2020-18262	OMAE2020-18241		OMAE2020-18009	OMAE2020-18706		
Paper #6	OMAE2020-18340	OMAE2020-18486	OMAE2020-19242	OMAE2020-19002	OMAE2020-18727*	OMAE2020-18446*		OMAE2020-19014	OMAE2020-18187		
Paper #7	OMAE2020-19122	OMAE2020-18822	OMAE2020-18119	OMAE2020-18958	OMAE2020-18224*	OMAE2020-19280		OMAE2020-19124	OMAE2020-19069*		
Paper #8	OMAE2020-19295	OMAE2020-18850*		OMAE2020-18962		OMAE2020-18814*		OMAE2020-18425			
Paper #9	OMAE2020-18927	OMAE2020-18547									
Paper #10	OMAE2020-18397	OMAE2020-18697									
Paper #11											

Friday 10:30 - 11:30 - Q&A 5.2

SYMPOSIUM	SYMP 2: SSR	SYMP 2: SSR	SYMP 4: PRS	SYMP 5: OSU	SYMP 6: OE	SYMP 6: OE	SYMP 8: CFD & FSI	SYMP 8: CFD & FSI	SYMP 9: ORE		SYMP 11: PT
Session Name	**2-7-1 Collision and Crashworth**	**2-2-1 Probabilistic and Spe**	**04-03-03 Pipeline Installati**	**5-4-1 Coastal Zone and Re**	**6-18-2 Water Wave Mecha**	**6-18-1 Marine Operations**	**8-3-2 Advance Computatio**	**8-4-2 Risers, Pipelines & V**	**9-1-5: Wind Energy 4: Structural design, O&M**		**11-14-1 Data Analytics for**
Session Chair	**Zhiqiang Hu**	**Felice Arena**	**Mike Paulin**	**Motohiko Murai**	**Daniel Costa**	**Yihan Xing**	**Guilherme Vaz**	**Mike Tognarelli**	**Marc Cahay**		**Mayank Tyagi**
Session Co-Chair		**Carlos Guedes Soares**	**Daniel Carneiro**	**Shigeru Tabeta**	**Kuag-an Chang**	**Arun Kamath**		**Dhyan Deka**	**Amrit Verma**		**Rajiv Aggarwal**
Paper #1	OMAE2020-19270	OMAE2020-18654	OMAE2020-18685	OMAE2020-18189	OMAE2020-18724 Guangya	OMAE2020-18171	OMAE2020-19256*	OMAE2020-18085	OMAE2020-18516		OMAE2020-18574
Paper #2	OMAE2020-18217	OMAE2020-18668	OMAE2020-18450	OMAE2020-18409	OMAE2020-18672 Yun Zhi	OMAE2020-18631	OMAE2020-18083	OMAE2020-18378	OMAE2020-19052		OMAE2020-18895
Paper #3	OMAE2020-18700	OMAE2020-18235	OMAE2020-18723	OMAE2020-18595	OMAE2020-18214 William L	OMAE2020-18209	OMAE2020-18086	OMAE2020-18402	OMAE2020-19340		OMAE2020-19025
Paper #4	OMAE2020-19272	OMAE2020-18308	OMAE2020-19269	OMAE2020-18762	OMAE2020-19074 Markus E	OMAE2020-18577	OMAE2020-18088	OMAE2020-18591	OMAE2020-18174		OMAE2020-19259
Paper #5	OMAE2020-18418	OMAE2020-18193	OMAE2020-18611	OMAE2020-19088	OMAE2020-18416 Jie Yang	OMAE2020-18756	OMAE2020-18557	OMAE2020-18607	OMAE2020-18371		OMAE2020-18060
Paper #6	OMAE2020-18142	OMAE2020-19051	OMAE2020-18579	OMAE2020-18234	OMAE2020-18676 Sander V	OMAE2020-18311	OMAE2020-18431	OMAE2020-18073	OMAE2020-18404		OMAE2020-18898
Paper #7	OMAE2020-18581	OMAE2020-18041	OMAE2020-19024	OMAE2020-19215	OMAE2020-19352 Michael	OMAE2020-18857	OMAE2020-18556	OMAE2020-18075	OMAE2020-18935		OMAE2020-18277*
Paper #8	OMAE2020-18615	OMAE2020-18874	OMAE2020-19223	OMAE2020-18228	OMAE2020-19357*	OMAE2020-18862	OMAE2020-18620*	OMAE2020-18180	OMAE2020-19166		
Paper #9	OMAE2020-18741	OMAE2020-18558	OMAE2020-19226	OMAE2020-19301		OMAE2020-19291	OMAE2020-18752*	OMAE2020-18583	OMAE2020-19095		
Paper #10	OMAE2020-18276	OMAE2020-19293	OMAE2020-18325			OMAE2020-19118		OMAE2020-18683	OMAE2020-18059*		
Paper #11		OMAE2020-18300*						OMAE2020-18915			

* Indicates the inclusion of a new paper

OMAE2020 - Virtual Conference

Details of Paper #, Authors, Titles, listed by Q&A Sessions & Symposia.

Symposium 1, 2, 3, 4, 7, 8, 9 only

Symposium 1: Offshore Technology

		Submission	ASME Paper N	Selected Category	Submission Name	Author Name
1.1	**Monday 13:30 - 14:30 - Q&A 1.1**					
	Session Name	**1-1-1 Offshore Platforms I**				
	Session Chair	**Anil Sablok**				
	Session Co-Chair	**Allan Magee**				
	Paper #1	6951	OMAE2020-18123	Technical Paper Publication	Coupled Dynamic Analyses of Deep-Water Semi-Submersible With New Spread Moo	Chandrasekaran, Srinivasan
	Paper #2	7002	OMAE2020-18136	Technical Paper Publication	Full Year Drilling Season for Modu in Arctic Area	Cahay, Marc
	Paper #3	7258	OMAE2020-18528	Technical Paper Publication	Time Domain Analysis of Single Module Movement of Deep Sea Rights Enforcement	YUHAN, WANG
	Paper #4	7359	OMAE2020-18229	Technical Paper Publication	Structural Connection Fatigue Evaluation Methodology Using Time Domain Approach	Samaria, Sagar
	Paper #5	7504	OMAE2020-18294	Technical Paper Publication	Air Gap Assessment of Semi-Submersibles: Efficient Utilization of Model Test Data	Machado-Damhaug, Ulla Edu
	Paper #6	7535	OMAE2020-18357	Technical Paper Publication	Effect of Spudcan Slip on Structure and Rpd of Jack-Up Platform	gao, jie
	Paper #7	7572	OMAE2020-18314	Technical Paper Publication	Time Domain Structural Fatigue Analysis of Floating Offshore Platforms: A Response	Kyoung, Johyun
	Paper #8	8013	OMAE2020-18533	Technical Paper Publication	Design for Flexible Connector of Multi-Floating Structure	YUHAN, WANG
	Paper #9	8025	OMAE2020-18542	Technical Paper Publication	Calculation of Environmental Load for a Large Fpso Undocking	Chunhui, Li
	Paper #10	8465	OMAE2020-18812	Technical Paper Publication	Study on the Structural Safety Evaluation of the Self-Elevating Offshore Wind Turbine	Hou, Jiayi
1.2	**Monday 15:00 - 16:00 - Q&A 1.2**					
	Session Name	**1-1-2 Offshore Platforms II, Station Keeping and Hydrodynamics I**				
	Session Chair	**Anil Sablok**				
	Session Co-Chair	**Allan Magee**				
	Paper #1	8524	OMAE2020-18886	Technical Paper Publication	Pricing Model for Fpso Chartering	Meyer Branski, Regina
	Paper #2	8542	OMAE2020-18847	Technical Paper Publication	Time Domain Turret Load and Motion Analyses for a Fpso	Koo, Bonjun
	Paper #3	10605	OMAE2020-19163	Technical Paper Publication	Numerical and Experimental Comparison of the Wave Response of a Very Light Floa	Goncalves, Rodolfo
	Paper #4	6359	OMAE2020-18844	Technical Paper Publication	Real-Time Prediction of Reliability for Dynamic Positioning Sub-Systems for Computa	Fernandez, Charles
	Paper #5	6537	OMAE2020-18096	Technical Paper Publication	Study on Real-Time Calculation Method of Fpso Soft Yoke Mooring System Respons	Sun, Liping
	Paper #6	7126	OMAE2020-18170	Technical Paper Publication	Detailed Finite Element Modeling of a High Capacity Mooring Steel Wire Rope : Calcı	Martinez, Michaël
	Paper #7	7917	OMAE2020-18805	Technical Paper Publication	Out-of-Plane Bending (Opb) Test of Large Diameter Mooring Chains	Karimi, M.R.
	Paper #8	10645	OMAE2020-19185	Technical Paper Publication	A Generic Allocation Algorithm for Optimal 6dof Motion Control Including Interaction E	van Daalen, Ed
	Paper #9	1923	OMAE2020-18806	Technical Paper Publication	Experimental and Numerical Analysis of Wave Drift Forces and Low Frequency Motio	Fonseca, Nuno
	Paper #10	4756	OMAE2020-18965	Technical Paper Publication	Numerical Analysis of Impact Loads on Subsea Structures During Water Entry in Pres	Momm, Gustavo
2.1	**Tuesday 13:30 - 14:30 - Q&A 2.1**					
	Session Name	**1-2-1 Hydrodynamics and Design Analysis I**				
	Session Chair	**Longbin Tao**				
	Session Co-Chair	**Masoud Hayatdavoodi**				
	Paper #1	4939	OMAE2020-19081	Technical Paper Publication	Caisson Breakwater for an Lng Terminal: A Study on Limiting Wave Conditions for Ca	Lin, Yu
	Paper #2	6780	OMAE2020-19017	Technical Paper Publication	Hydrodynamic Study on the Damping Characteristics of Cylindrical Fpso With the He	Jiang, Meirong
	Paper #3	6983	OMAE2020-18130	Technical Paper Publication	Non-Linear Wave Run-Up Along the Side of Sailing Ships Causing Green Water on D	Van Essen, Sanne
	Paper #4	7105	OMAE2020-19039	Technical Paper Publication	A Sensitivity Study of Vessel Hydrodynamic Model Parameters	Han, Xu
	Paper #5	7695	OMAE2020-18362	Technical Paper Publication	Hydrodynamic Response of Tethered Underwater Robot by Feed-Forward and Increm	Wu, Jiaming
	Paper #6	8159	OMAE2020-19343	Technical Paper Publication	Model Test Study on Anti-Rolling of Ship at Zero Speed	Wei, Yuefeng
	Paper #7	8426	OMAE2020-19315	Technical Paper Publication	A Numerical Investigation Into Hydrodynamic Interaction Coefficients for Multiple Free	ALI, MIR
	Paper #8	10667	OMAE2020-19194	Technical Paper Publication	Consistent State Space Modelling of Hydrodynamic Memory	Kaasen, Karl Erik
	Paper #9	4703	OMAE2020-18658	Technical Paper Publication	An Analytical Method for Calculating Hydrostatics for Jacket Structures	Last, Irene
	Paper #10	4881	OMAE2020-18095	Technical Paper Publication	Lng and Bulk Terminals: An Advanced Approach for Downtime Estimate and Layout C	El Chahal, Ghassan
2.2	**Tuesday 15:00 - 16:00 - Q&A 2.2**					
	Session Name	**1-3-1 Design & Analysis II**				
	Session Chair	**Olaf Walls**				
	Session Co-Chair	**Masoud Hayatdavoodi**				
	Paper #1	6132	OMAE2020-18126	Technical Paper Publication	A Method for the Frequency Domain Seakeeping Analysis of Offshore Structures in th	Liebert, Maximilian
	Paper #2	6141	OMAE2020-18124	Technical Paper Publication	Application of Experimental Design on Small Surface Boat for Resistance and Payloa	Lin, Chun Cheng
	Paper #3	6278	OMAE2020-18056	Technical Paper Publication	Fast Riser Installation – a Field Proven, Safe and Efficient Riser Pull-in Technology	tian, kevin
	Paper #4	6355	OMAE2020-19302	Technical Paper Publication	Nonlinear Optimal Control of a Deep Borehole Trajectory Design	Gulyayev, Valery
	Paper #5	6379	OMAE2020-18063	Technical Paper Publication	Software Application Based on Subsea Engineering Design Codes	Gullaksen, Joannes
	Paper #6	6917	OMAE2020-18118	Technical Paper Publication	Roll Damping Effects in an Fpso With Riser Balcony in a Deep-Water Scenario	Nogueira Corrêa, Fabrício

	Paper #7	6927	OMAE2020-18534	Technical Paper Publication	Application of Peak Distribution Method for Response Based Analysis of Mooring Line	kheili, Ali ghasemi
	Paper #8	7087	OMAE2020-18817	Technical Paper Publication	Development of a Simulation Environment for Hybrid Propulsion Drive Trains – Utiliza	Jannsen, Leif-Erik
	Paper #9	7245	OMAE2020-18415	Technical Paper Publication	Nonlinear Amplifications in the Air-Gap Response of a Deep Draft Semi-Submersible	Song, Anke
	Paper #10	7257	OMAE2020-18753	Technical Paper Publication	Northern Light Co2 Offshore Pipeline - Effects of Negative Transport Temperature Ins	Blasioli, Giuseppe
3.1	**Wednesday 13:30 - 14:30 - Q&A 3.1**					
	Session Name	**1-3-2 Design & Analysis III**				
	Session Chair	**Masoud Hayatdavoodi**				
	Session Co-Chair	**Olaf Walls**				
	Paper #1	7297	OMAE2020-18208	Technical Paper Publication	Slamming Induced Fatigue in a Moonpool With a Recess	Chalkias, Dimitris
	Paper #2	7418	OMAE2020-18238	Technical Presentation Only	Method for the Accurate and Automatic Operation of Offshore Floating Cranes for the	Lee, Hye-Won
	Paper #3	7418	OMAE2020-18238	Technical Presentation Only	Method for the Accurate and Automatic Operation of Offshore Floating Cranes for the	Lee, Hye-Won
	Paper #4	7466	OMAE2020-18271	Technical Paper Publication	Simulating High Mode Vortex Induced Vibration of Riser in Linear Sheared Current U	Kim, Sangwoo
	Paper #5	7842	OMAE2020-18725	Technical Presentation Only	Reliability and Availability, Maintainability Analysis to Optimize Production Efficiency f	Lim, Seunghwan
	Paper #6	7997	OMAE2020-18529	Technical Paper Publication	Design of Water Hammer Protection for Fpso Domestic Water System Based on Aft-I	Huan, Zhang
	Paper #7	8040	OMAE2020-18555	Technical Paper Publication	S-N Curve Model for Assessing Cumulative Fatigue Damage of Deep-Water Compos	Singh, Manander
	Paper #8	8181	OMAE2020-18650	Technical Paper Publication	A global operability index for an offshore vessel	Mauro, Francesco
	Paper #9	8633	OMAE2020-18888	Technical Paper Publication	Detached Breakwater for Lng Terminals: Developing a Design Methodology for the Br	El Chahal, Ghassan
3.2	**Wednesday 15:00 - 16:00 - Q&A 3.2**					
	Session Name	**1-3-3 Design & Analysis IV, FNLG Technology I and CFD Modeling Practice & Verification I**				
	Session Chair	**Jang Whan Kim**				
	Session Co-Chair	**Wenhua Zhao**				
	Paper #1	9902	OMAE2020-19183	Technical Paper Publication	Low-Height Lifting System for Offshore Wind Turbine Installation: Modelling and Hydr	Monteiro, Thiago Gabriel
	Paper #2	10229	OMAE2020-19129	Technical Paper Publication	World's First Carbon Sequestration Project in Salt Caverns Built Offshore in Ultra Dee	Costa, P. v. M.
	Paper #3	10674	OMAE2020-19198	Technical Paper Publication	Utilising Advanced Digital Technologies to Provide Automated Drilling Riser Fatigue T	Bohan, Paul
	Paper #4	2516	OMAE2020-18641	Technical Paper Publication	Structural Design and Validation of Prelude's Marine Loading Arms	Auburtin, Erwan
	Paper #5	7068	OMAE2020-18663	Technical Presentation Only	The Control Logic for Advanved Gas Expansion Liquefaction Cycle	Kim, Hyobin
	Paper #6	8246	OMAE2020-18678	Technical Presentation Only	A Dynamic Modeling Methodology for Main Cryogenic Heat Exchanger in Lng Liquefa	Kim, Chulwoo
	Paper #7	7509	OMAE2020-18298	Technical Paper Publication	Validation of Numerical Wave Tank Simulations Using Reef3d With Jonswap Spectra	Pakozdi, Csaba
	Paper #8	10633	OMAE2020-19173	Technical Paper Publication	Development and Verification of Modelling Practice for Cfd Calculations to Obtain Cu	Koop, Arjen
	Paper #9	10654	OMAE2020-19188	Technical Paper Publication	Development of a Protocol to Couple Wave and Cfd Solvers Towards Reproducible C	Bouscasse, Benjamin
4.1	**Thursday 13:30 - 14:30 - Q&A 4.1**					
	Session Name	**1-4-1 Wave Loading and Motions in Extreme Seas and Artificial Intelligence and Neural Networks in Offshore Technology I**				
	Session Chair	**Nuno Fonseca**				
	Session Co-Chair	**Rajiv Aggarwal**				
	Paper #1	6987	OMAE2020-18132	Technical Paper Publication	Second Order Difference Frequency Loads on Fpsos by Full Qtf and Relevant Approx	Engebretsen, Espen
	Paper #2	7492	OMAE2020-18290	Technical Paper Publication	On the Validity of Cfd for Simulating Extreme Green Water Loads on Ocean-Going Ve	Bandringa, Henry
	Paper #3	7502	OMAE2020-18284	Technical Paper Publication	Distributed Potential Theory and Its Application for Spar-Type Floating Offshore Wind	Engebretsen, Espen
	Paper #4	8252	OMAE2020-18717	Technical Paper Publication	Time-Domain Hydrodynamic Model for Mooring Analysis of a Spread Moored Fpso W	Zhang, Min
	Paper #5	542	OMAE2020-18003	Technical Paper Publication	Risk Perception Oriented Autonomous Ship Navigation in Ais Environment	ZHANG, RUOLAN
	Paper #6	4810	OMAE2020-18154	Technical Paper Publication	Continuous Drilling Data Reconstruction and Prediction via Recurrent Neural Network	Tunkiel, Andrzej
	Paper #7	6628	OMAE2020-19328	Technical Paper Publication	Development of Data-Driven Models for Prediction of Mooring Line Tensions	Kumar, Nitesh
	Paper #8	6659	OMAE2020-18079	Technical Paper Publication	Towards a Methodology to Estimate Environmental Loadings From Time History Moti	Monteiro, Bruno
4.2	**Thursday 15:00 - 16:00 - Q&A 4.2**					
	Session Name	**1-5-1 Artificial Intelligence and Neural Networks in Offshore Technology II**				
	Session Chair	**Denby Morrison**				
	Session Co-Chair	**Rajiv Aggarwal**				
	Paper #1	7320	OMAE2020-18783	Technical Paper Publication	Ship as a Wave Buoy - Estimating Full Directional Wave Spectra From In-Service Shi	Scholcz, Thomas
	Paper #2	7663	OMAE2020-18354	Technical Paper Publication	Application of Machine Learning Algorithm in Optimization of Psv for 110000dwt Oil T	LIU, Xiyang
	Paper #3	7834	OMAE2020-18442	Technical Paper Publication	Research on Fixed Route Speed Optimization Based on Deep Neural Network and G	Wang, Ziming
	Paper #4	7854	OMAE2020-18454	Technical Paper Publication	Autonomous Surface Vessel Obstacle Avoidance Based on Hierarchical Reinforceme	Zhou, Chang
	Paper #5	8464	OMAE2020-18818	Technical Paper Publication	Sensitivity Analysis of an Ann-Based System for Detection of Mooring Line Failure	Sidarta, Djoni
	Paper #6	8735	OMAE2020-19053	Technical Presentation Only	The Virtual Reality Concepts for Offshore Pruduction Platform	Jang, Sangyup
	Paper #7	9681	OMAE2020-19080	Technical Paper Publication	Real-Time Natural Gas Leak Detection of Offshore Platforms Using an Infrared Came	Shi, Jihao
	Paper #8	10668	OMAE2020-19195	Technical Paper Publication	Using Data Science and Artificial Intelligence to Enable Technology-Driven Offshore C	Nanda, Subrat
	Paper #9	10701	OMAE2020-19210	Technical Paper Publication	Offshore Topside Weight Prediction Using Data Science	AHMADIAN, Reza

		SYMP 2 - Structures, Safety and Reliability			
	Submission Code	Session Assigned	ASME Paper Number	Author Name	Submission Name
Monday 13:30 - 14:30 - Q&A 1.1					
Session Name		**2-9-1 Structural Analysis and Optimization I**			
Session Chair		**Jonas Ringsbeg**			
Session Co-Chair		**Paulo Maurício Videiro**			
Paper #1	7441	2-12 Structural Analysis and Optimization	OMAE2020-18297	Alonso Castro, Beatriz	1300 Te Grouted Integrity Support Installation
Paper #2	4667	2-12 Structural Analysis and Optimization	OMAE2020-18037	Becerro González, Francisco Javie	1300 Ton Structural Support to Secure the Integrity of an Offshore Platform
Paper #3	7913	2-12 Structural Analysis and Optimization	OMAE2020-18490	Bigot, Fabien	Spectral Fatigue Analysis of Plate Surface Hot-Spots: A Practical Solution to the Stress Direction Issue
Paper #4	7383	2-12 Structural Analysis and Optimization	OMAE2020-18225	Carobino, Evandro	A Nonlinear Finite Element Model to Analyse the Dynamics of Subsea Lifting Operations Using Synthetic Cables
Paper #5	10256	2-12 Structural Analysis and Optimization	OMAE2020-19110	Chen, Xu	Ratcheting Behavior of Pressurized Elbow Pipe at Intrados Under Different Loading Paths
Paper #6	6835	2-12 Structural Analysis and Optimization	OMAE2020-18597	Dai, Jian	Effect of Wave-Current Interaction on Structural Responses of a Very Long and Side-Anchored Floating Bridge
Paper #7	8257	2-12 Structural Analysis and Optimization	OMAE2020-18674	Datta, Nabanita	Application of Fractional Calculus in Modelling Viscoelastic Foundation of Ship Structures for Passive Vibration Control
Paper #8	7132	2-12 Structural Analysis and Optimization	OMAE2020-18616	Feng, Yanxin	Hydrodynamic Optimization of a Containership
Paper #9	6344	2-12 Structural Analysis and Optimization	OMAE2020-18280	Hong, Yang	Research on Protective Performance of Protective Liquid Tank to Impact Wave Generated by Fragment
Paper #10	8813	2-12 Structural Analysis and Optimization	OMAE2020-19015	Hu, Yumeng	Numerical Simulation of Elastic Deformation Based on Peridynamic Differential Operator
Paper #11	7970	2-12 Structural Analysis and Optimization	OMAE2020-18526	Kang, Sungwook	A Study on the Thermal Deformation of Fillet Joint Friction Stir Welding
Monday 15:00 - 16:00 - Q&A 1.2					
Session Name		**2-9-2 Structural Analysis and Optimization II**			
Session Chair		**Jonas Ringsbeg**			
Session Co-Chair		**Paulo Maurício Videiro**			
Paper #1	8612	2-12 Structural Analysis and Optimization	OMAE2020-18897	Kogo, Bridget	Clamping Effect on Welding Deformations in Dissimilar Welded Clad With Varied Thickness; Axial and Radial Shrinkage and Deformation
Paper #2	7659	2-12 Structural Analysis and Optimization	OMAE2020-18408	Liu, Jun	Topology Optimization Design of the Cantilever Base Structure on a Stiffened Cylindrical Hull
Paper #3	7506	2-12 Structural Analysis and Optimization	OMAE2020-18286	Ni, Yue	Cabin Noise Prediction and Acoustic Optimization Design of a Cruise Ship
Paper #4	8532	2-12 Structural Analysis and Optimization	OMAE2020-18848	Paruolo, Nathalia	Stress Concentration Factors Calculation: Analytical and Numerical Approaches for Welded Tubular Joints
Paper #5	6180	2-12 Structural Analysis and Optimization	OMAE2020-18055	Ringsberg, Jonas	Load-Carrying Characteristics of Foam Core and Joint Geometry in Sandwich Structures
Paper #6	2391	2-12 Structural Analysis and Optimization	OMAE2020-18029	Vladimir, Nikola	A Study Into Engine- and Propeller-Induced Vibration of a Ro-Ro Vessel
Paper #7	9859	2-12 Structural Analysis and Optimization	OMAE2020-19086	Wang, Hanqi	Finite Element Analysis of Structure Strength on Engine Room of a Submerged Waterjet Propelled Ship
Paper #8	4668	2-12 Structural Analysis and Optimization	OMAE2020-18242	Yasuhira, Yamada	Numerical Study on the Slamming Impact of Stiffened Flat Panel Using Icfd Method - Effect of Structural Rigidity on the Slamming Pressure –
Paper #9	7640	2-12 Structural Analysis and Optimization	OMAE2020-18388	Zhang, Lei	Research on Vibration Reduction and Noise Reduction Performance of Marine Power Equipment Installation Pedestal
Paper #10	7216	2-12 Structural Analysis and Optimization	OMAE2020-18197	Zhang, Pan	The Effect of Head Shape of Ceramic Column on the Ballistic Performance of the Sic/uhmwpe Composite Armor
Paper #11	8014	2-12 Structural Analysis and Optimization	OMAE2020-18580	Zhou, Chunqi	Sensitivity Study About Ultimate Strength and Postbuckling Behavior of Stiffened Box Deck Girder Under Compression
Tuesday 13:30 - 14:30 - Q&A 2.1					
Session Name		**2-3-1 Fatigue and Fracture Reliability**			
Session Chair		**Yordan Garbatov**			
Session Co-Chair					
Paper #1	6143	2-4Fatigue and Fracture Reliability	OMAE2020-18608	Andresen, Hendrik	Fretting Fatigue Design of Connectors; a Fundamental Consideration of Interfacial Slip
Paper #2	8360	2-4Fatigue and Fracture Reliability	OMAE2020-18821	Blades, Luke	Fretting Fatigue Design of Connectors; Matching Results Between Pairs of Tests
Paper #3	7582	2-4Fatigue and Fracture Reliability	OMAE2020-18319	Cravero, Sebastian	Fracture Toughness Characterization of Lsaw Uoe Pipes in Sour Media and Implications on Burst Pressure
Paper #4	9319	2-4Fatigue and Fracture Reliability	OMAE2020-19048	De Gracia, Luis	A Study on the Difference in Wave Statistics Based on Storm Model for the Ship Structural Assessment
Paper #5	8102	2-4Fatigue and Fracture Reliability	OMAE2020-18613	Glavind, Sebastian	On Normalized Fatigue Crack Growth Modeling
Paper #6	8173	2-4Fatigue and Fracture Reliability	OMAE2020-18661	Gunda, Chandra sai krishna	Numerical and Experimental Study on Stress Concentration at Ring – Chord Interface of a Stiffened Tubular Joint
Paper #7	8424	2-4Fatigue and Fracture Reliability	OMAE2020-18794	Hageman, Remco	Feasibility of Using Hindcast Data for Fatigue Assessment of Permanently Moored Offshore Units in West-Africa
Paper #8	6464	2-4Fatigue and Fracture Reliability	OMAE2020-19261	Kyaw, Phyo Myat	Comparative Study on Stress Intensity Factors for Surface Cracks in Welded Joint and Flat Plate by Using the Influence Function Method
Paper #9	6627	2-4Fatigue and Fracture Reliability	OMAE2020-18094	Mancini, Federica	A Stress Magnification Factor for Plates With Welding-Induced Curvatures
Paper #10	7636	2-4Fatigue and Fracture Reliability	OMAE2020-18350	Zou, Tao	Projection and Detection Procedures for Long-Term Wave Climate Change Impact on Fatigue Damage of Offshore Floating Structures
Tuesday 15:00 - 16:00 - Q&A 2.2					
Session Name		**2-4-1 Reliability of Marine Structures and Reliability of Mooring and Riser Systems**			
Session Chair		**Luís Sagrilo**			
Session Co-Chair					
Paper #1	8518	2-5Reliability of Marine Structures	OMAE2020-18835	Drumond, Geovana	Study of the Efficiency and Reliability of Pressure Vessel Composite Repair
Paper #2	1082	2-5Reliability of Marine Structures	OMAE2020-18163	Kang, Jichuan	Reliability Analysis of Fpso Oil and Gas Processing System Based on Petri Net
Paper #3	14411	2-6Reliability of Mooring and Riser Systems	OMAE2020-19337	Chen, ruifeng	Long-Term Fatigue Assessment of Offshore Structures Using Artificial Neural Network
Paper #4	7537	2-6Reliability of Mooring and Riser Systems	OMAE2020-18306	Gomes, Ricardo	Reliability Analysis of Mooring Lines of Floating Structures Under Corrosion and Material Degradation
Paper #5	7299	2-6Reliability of Mooring and Riser Systems	OMAE2020-18652	Horn, Agnes Marie	Method for Fatigue Testing of Subsea Wellhead Connection Segments
Paper #6	8118	2-6Reliability of Mooring and Riser Systems	OMAE2020-18887	Horte, Torfinn	Benefit From Structural Reliability Analysis in Risk Evaluation of Collapse of Externally Supported Casing
Paper #7	772	2-6Reliability of Mooring and Riser Systems	OMAE2020-18628	Lone, Erling Neerland	Influence of Mean Tension on Mooring Line Fatigue Life
Paper #8	10731	2-6Reliability of Mooring and Riser Systems	OMAE2020-19225	Paruolo, Nathalia	Floating Hose Behavior During Different Scenarios of an Offloading Operation
Paper #9	6974	2-4Fatigue and Fracture Reliability	OMAE2020-18127	Ahmad, Suhail	Nonlinear Dynamic and Bilinear Fatigue Reliability Analysis of Composite Marine Risers in Deep Offshore Fields
Paper #10	7865	2-4Fatigue and Fracture Reliability	OMAE2020-18478	Chen, Nianzhong	Fatigue Analysis for a Mooring System of Spar-Type Floating Offshore Wind Trubine

Wednesday 13:30 - 14:30 - Q&A 3.1					
Session Name		**2-5-1 Reliability of Renewable Energy Systems**			
Session Chair		**Zhen Gao**			
Session Co-Chair		**Athanasios Kolios**			
Paper #1	7737	2-7Reliability of Renewable Energy Systems	OMAE2020-18506	Barreto, David	Influence of Wind Shear Uncertainty in Long-Term Extreme Responses of an Offshore Monopile Wind Turbine
Paper #2	8142	2-7Reliability of Renewable Energy Systems	OMAE2020-18609	Farrow, Gary	Investigations Into Fatigue of Opb Loaded Offshore Mooring Chains
Paper #3	8557	2-7Reliability of Renewable Energy Systems	OMAE2020-18868	Gonzalez, Gabriel	Artificial Neural Networks Used to Predict Long-Term Statistics Distribution Parameters
Paper #4	10635	2-7Reliability of Renewable Energy Systems	OMAE2020-19179	Park, Taeyoon	Development of a Pile Mooring System for Large Scale Fsrus
Paper #5	7340	2-7Reliability of Renewable Energy Systems	OMAE2020-18349	Rinaldi, Giovanni	Informing Components Development Innovations for Floating Offshore Wind Through Applied Fmea Framework
Paper #6	6992	2-7Reliability of Renewable Energy Systems	OMAE2020-18211	Seabra, Pedro	Long-Term Analysis Applied to Mooring Systems Design
Paper #7	7136	2-7Reliability of Renewable Energy Systems	OMAE2020-18175	Simão, Marina	An Efficient Importance Sampling Method for the Long-Term Mooring Lines Response Estimation Considering Wind Sea and Swell
Paper #8	7403	2-7Reliability of Renewable Energy Systems	OMAE2020-18232	Tang, Hung-Jie	Numerical Simulation of the Domino Effect of Mooring System Failure for an Aquaculture Net Cage Under Waves and Currents
Paper #9	12892	2-7Reliability of Renewable Energy Systems	OMAE2020-19292	Wadhwa, Hema	Detection of Mooring Line Failure Using Machine Learning Models
Wednesday 13:30 - 14:30 - Q&A 3.1					
Session Name		**2-12-1 Safety in Harsh Environments, Data-driven Models for Marine Structures, Probabilistic Response Models and Well Integrity and Reliability Assessment**			
Session Chair		**Faisal Khan**			
Session Co-Chair		**Max Russo**			
Paper #1	4961	2-15 Safety in Harsh Environments	OMAE2020-18045	Burton, Henry	Using Reinforcement Learning to Guide the Repair Scheduling for Pipe Networks Impacted by Hazard Events
Paper #2	8365	2-15 Safety in Harsh Environments	OMAE2020-18744	Di Francesco, Domenic	Bayesian Multi-Level Modelling for Improved Prediction of Corrosion Growth Rate Using Limited Data
Paper #3	10152	2-15 Safety in Harsh Environments	OMAE2020-19119	Eldevik, Simen	Offshore Drilling: Extending the Weather Window for Operations by Optimal Use of Simulations and Probabilistic Machine Learning
Paper #4	715	2-16 Data-driven Models for Marine Structures	OMAE2020-18947	Heo, YeongAe	Algorithms for Supervised Machine Learning-Based Structural Performance Evaluation Framework
Paper #5	7924	2-3Probabilistic Response Models	OMAE2020-18505	Nascimento, Leonardo	Influence of Torpedo Piles Parameters When Assessing Final Penetration Depths
Paper #6	7280	2-8Well Integrity and Reliability Assessment	OMAE2020-18210	Bolger, Davdi	Real Time Monitoring of Subsea Well Foundation Integrity
Paper #7	7922	2-8Well Integrity and Reliability Assessment	OMAE2020-19329	Hashemizadeh, seyed Houssain	Calculation of Fatigue Capacity for a Subsea Wellhead Connector
Paper #8	7925	2-8Well Integrity and Reliability Assessment	OMAE2020-18498	Horte, Torfinn	Structural Reliability Analysis Method for Assessing the Fatigue Capacity of Subsea Wellhead Connectors
Paper #9	8197	2-8Well Integrity and Reliability Assessment	OMAE2020-19330	Horte, Torfinn	Risk Based Integrity Assessment and Life Extension Procedure for Subsea Wellhead Connectors
Wednesday 15:00 - 16:00 - Q&A 3.2					
Session Name		**2-6-1 Extreme Loading and Responses**			
Session Chair		**Spiros Hirdaris**			
Session Co-Chair		**Carlos Guedes Soares**			
Paper #1	15731	2-9Extreme Loading and Responses	OMAE2020-19345	Decorte, Griet	A New Coupled Model for the Assessment of Offshore Structures in Non-Gaussian Seas
Paper #2	8635	2-9Extreme Loading and Responses	OMAE2020-18904	Duz, Bulent	Sensitivity Analysis in Parametric Rolling of a Modern Cruise Ship Using Numerical Simulations in 6-Dof
Paper #3	7440	2-9Extreme Loading and Responses	OMAE2020-18335	Haojie, Wang	Study on Mechanical Properties of Water Mist Acting on Plane Shock Wave
Paper #4	7261	2-9Extreme Loading and Responses	OMAE2020-18200	Jagite, George	A New Approach to Compute the Non-Linear Whipping Response Using Hydro-Elastoplastic Coupling
Paper #5	7819	2-9Extreme Loading and Responses	OMAE2020-18434	Komoriyama, Yusuke	Hull Structural Strength Evaluation Based on Fiber Bragg Gratings Pressure Sensors to Measure Spatial Pressure Distribution on Ship's Hull in Wave
Paper #6	10662	2-9Extreme Loading and Responses	OMAE2020-19187	Lakshmynarayanana, Puramharikr	Coupled Cfd and Fea to Predict the Dynamic Structural Response of Modern Cruise Ship Deck Outfitting Due to Wind-Induced Vibrations.
Paper #7	6267	2-9Extreme Loading and Responses	OMAE2020-18179	LU, JIANGNAN	Statistical Analysis of In-Line Interaction of Closely Spaced Cylinder Arrays in Random Waves
Paper #8	7389	2-9Extreme Loading and Responses	OMAE2020-18413	Sugimoto, Kei	Non Linear Effect on Wave-Induced Loads for Hull Structural Design -Vehicles Carrier, Bulk Carrier, Container Carrier-
Paper #9	10629	2-9Extreme Loading and Responses	OMAE2020-19170	Vigsø, Michael	Estimating Loads From Breaking Waves Using Operational Modal Analysis
Paper #10	7711	2-9Extreme Loading and Responses	OMAE2020-18501	Wang, Kevin	A Fluid-Structure Coupled Computational Model for the Certification of Shock-Resistant Elastomer Coatings
Thursday 13:30 - 14:30 - Q&A 4.1					
Session Name		**2-10-1 Risk Analysis and Management I**			
Session Chair		**Angelo Teixeira**			
Session Co-Chair					
Paper #1	8441	2-13 Risk Analysis and Management	OMAE2020-18995	Abreu, Danilo	Application Fuzzy Logic and Expert Elicitation for Quantitative Offshore Well Integrity Data Collection
Paper #2	8753	2-13 Risk Analysis and Management	OMAE2020-18996	Abreu, Danilo	Development of Accidental Scenarios for Risk Assessment in Restricted Waters
Paper #3	6303	2-13 Risk Analysis and Management	OMAE2020-19283	Ali, Liaqat	High Reliability Analysis and Risk Assessment of Subsea Production Systems
Paper #4	6489	2-13 Risk Analysis and Management	OMAE2020-19165	Ali, Liaqat	Quantitative Risk Assessment for Offshore Installation and Safety Barrier Management in Marine Systems
Paper #5	10631	2-13 Risk Analysis and Management	OMAE2020-19184	Chen, Haibo	Barrier Analysis of Emergency Disconnect on Dp Mobile Offshore Drilling Units
Paper #6	10776	2-13 Risk Analysis and Management	OMAE2020-19265	Hong, JinWuk	Risk Assessment of Weather Standby for Offshore Installation
Paper #7	7564	2-13 Risk Analysis and Management	OMAE2020-18864	Morais, Carlos	The Use of Dominance, Influence, Steadiness and Compliance (Disc) Personality Test in the Assessment of Accidents Likelihood on Offshore Drilling
Paper #8	6766	2-13 Risk Analysis and Management	OMAE2020-18092	Musarra, Raíssa	Alignment of Social Participation Instruments and Public Perception Research Findings in Ccs Activities
Paper #9	1217	2-13 Risk Analysis and Management	OMAE2020-18258	Nubly, Harris	Fire Phenomenon of Natural Gas Leak Accidents on the Lng-Fueled Ship Using Cfd
Paper #10	8654	2-13 Risk Analysis and Management	OMAE2020-18911	Ramos, Marilia	Revisiting the Fpso Cidade De São Mateus Accident From a Human Reliability Perspective Using Phoenix Hra Methodology
Thursday 15:00 - 16:00 - Q&A 4.2					
Session Name		**2-11-1 Risk Analysis and Management I and Risk Based Maintenance**			
Session Chair		**Angelo Teixeira**			
Session Co-Chair		**Bernt Leira**			
Paper #1	7033	2-13 Risk Analysis and Management	OMAE2020-18139	Samarakoon, Samindi	On the Necessity for Minimizing Risk Based Technology Qualification Variability: An Application to Offshore Floating Wind Turbines
Paper #2	8519	2-13 Risk Analysis and Management	OMAE2020-18834	Schleder, Adriana M.	Mil and Miro Diagrams for Risk-Based Positioning of Drilling Rigs With Dynamic Positioning System
Paper #3	7901	2-13 Risk Analysis and Management	OMAE2020-18670	Stachyra, Leszek	Addressing Uncertainties in Flow Induced Vibration in Subsea Piping
Paper #4	8007	2-13 Risk Analysis and Management	OMAE2020-18532	Zhu, Yuan	Risk Assessment and Countermeasure on Drilling and Production Process of Deep Water Gas Hydrate in the South China Sea
Paper #5	7461	2-14 Risk Based Maintenance	OMAE2020-18264	Akinsanya, Akinyemi	Cost-Optimal Planning of Inspections and Maintenance of Sub-Surface Production Wells Subject to Scaling Deterioration
Paper #6	11447	2-14 Risk Based Maintenance	OMAE2020-19284	Bao, Xingxian	A Principal Strain Data-Driven Method for Damage Identification of an Offshore Pile Structure
Paper #7	9433	2-14 Risk Based Maintenance	OMAE2020-19064	Ng, Sok Mooi	Structural Integrity Management (Sim) via a Digitalized Structural Integrity Compliance System
Paper #8	7486	2-12 Structural Analysis and Optimization	OMAE2020-18300	Dev, Partha	A Novel Approach to Improving the Structural Reliability of a Fixed Offshore Platform Subject to Wave-in-Deck Loading Using a Holistic Structural Int

Friday 9:00 - 10:00 - Q&A 5.1					
Session Name		**2-1-1 Abnormal and Extreme Waves**			
Session Chair		**Alex Babanin**			
Session Co-Chair		**Elzbieta Bitner Gregersen**			
Paper #1	7726	2-1Abnormal and Extreme Waves	OMAE2020-18373	Babanin, Alexander V.	Wave-Induced Turbulence, Linking Metocean and Large Scales
Paper #2	8486	2-1Abnormal and Extreme Waves	OMAE2020-18820	Barratt, Dylan	Linearization of the Wave Spectrum: A Comparison of Methods
Paper #3	8285	2-1Abnormal and Extreme Waves	OMAE2020-19314	Bitner-Gregersen, Elzbieta	Occurence Frequency of a Tripple Rogue Wave Group in the Ocean
Paper #4	7317	2-1Abnormal and Extreme Waves	OMAE2020-18216	Fouques, Sebastien	A Numerical Investigation of Steep Irregular Wave Properties With a Mixed-Eulerian Lagrangian Hos Method
Paper #5	6351	2-1Abnormal and Extreme Waves	OMAE2020-18488	Gramcianinov, Carolina	Extratropical Cyclones Associated With Extreme Waves in the Atlantic Ocean in Era5 and Cfsr/cfsv2
Paper #6	7908	2-1Abnormal and Extreme Waves	OMAE2020-18486	Gramcianinov, Carolina	Relation Between Cyclone Evolution and Fetch Associated With Extreme Wave Events in the South Atlantic Ocean
Paper #7	8495	2-1Abnormal and Extreme Waves	OMAE2020-18822	Laface, Valentina	Space-Time Statistics via Trapezoidal Storm Model for Offshore Installations
Paper #8	8536	2-1Abnormal and Extreme Waves	OMAE2020-18850	Osborne, Alfred	Nonlinear Fourier Analysis: A Paradigm Change in the Understanding of Nonlinear and Extreme Waves
Paper #9	7674	2-1Abnormal and Extreme Waves	OMAE2020-18547	Waseda, Takuji	Surface Waves Under the Sea Ice in the Western Arctic During 2019 R/v Mirai Cruise
Paper #10	8227	2-2Probabilistic and Spectral Wave Models	OMAE2020-18697	Bernardino, Mariana	Assessing Climate Change in the North Atlantic Wave Regimes
Friday 9:00 - 10:00 - Q&A 5.1					
Session Name		**2-8-1 Ultimate Strength**			
Session Chair		**Masahiko Fujikubo**			
Session Co-Chair		**De-Yu Wang**			
Paper #1	8132	2-11 Ultimate Strength	OMAE2020-18739	He, Guoyan	Collapse Failure Analysis of Subsea Corroded Pipeline Under Combined External Pressure, Bending Moment and Axial Force
Paper #2	8138	2-11 Ultimate Strength	OMAE2020-18737	Hou, Fu-Heng	Local Buckling of Dented Subsea Pipelines Under the Combined Loadings
Paper #3	10681	2-11 Ultimate Strength	OMAE2020-19201	HtooKo, HanHtoo	Collapse Analysis of Ship Hull Girder Using Hydro-Elastoplastic Beam Model (Part 2)
Paper #4	7254	2-11 Ultimate Strength	OMAE2020-18198	Jagite, George	Dynamic Ultimate Strength of a Container Ship Under Sagging Condition
Paper #5	896	2-11 Ultimate Strength	OMAE2020-18008	Ku, Albert	An Engineering Review of Tubular Conical Transition Strength Design Equations
Paper #6	7463	2-11 Ultimate Strength	OMAE2020-18340	Mei, HongYuan	Numerical and Experimental Study on Ultimate Strength of Stiffened Column Under Axial Compression
Paper #7	7670	2-11 Ultimate Strength	OMAE2020-19122	Park, Sang-Hyun	Experimental Investigations on the Residual Strength of Corroded Steel Stiffened Plates
Paper #8	7275	2-11 Ultimate Strength	OMAE2020-19295	Shiomitsu, Daisuke	Ultimate Strength and Collapse Behavior of Ring-Stiffened Cylindrical Shells Under External Pressure With Shell Buckling or Stiffener Torsional Buck
Paper #9	8674	2-11 Ultimate Strength	OMAE2020-18927	Srikanth, Ishwarya	Integrated Probabilistic-Mechanistic Deterioration Modeling for Preventive Maintenance of Aging Fixed Offshore Jacket-Type Platforms
Paper #10	7752	2-11 Ultimate Strength	OMAE2020-18397	Xianyin, Chen	Model Experimental Research of Ship Section on Structural Ultimate Strength
Friday 10:30 - 11:30 - Q&A 5.2					
Session Name		**2-2-1 Probabilistic and Spectral Wave Models**			
Session Chair		**Felice Arena**			
Session Co-Chair		**Carlos Guedes Soares**			
Paper #1	8196	2-2Probabilistic and Spectral Wave Models	OMAE2020-18654	Bernardino, Mariana	Relation Between Atmospheric Circulation Patterns in the North Atlantic and the Sea States in the Iberian Peninsula in a Changing Climate
Paper #2	8219	2-2Probabilistic and Spectral Wave Models	OMAE2020-18668	Haselsteiner, Andreas	Global Hierarchical Models for Wind and Wave Contours: Physical Interpretations of the Dependence Functions
Paper #3	7408	2-2Probabilistic and Spectral Wave Models	OMAE2020-18235	Islam, Hafizul	Hydrodynamic Assessment of the Uncertainty on Wave Spectra Estimates From Buoys With Biofouling
Paper #4	7544	2-2Probabilistic and Spectral Wave Models	OMAE2020-18308	Mackay, Ed	Estimation of Environmental Contours Using a Storm Resampling Method
Paper #5	6532	2-2Probabilistic and Spectral Wave Models	OMAE2020-18193	Miratsu, Rei	Study on Ship Operational Effect for Defining Design Values on Ship Motion and Wave Loads in North Atlantic
Paper #6	9362	2-2Probabilistic and Spectral Wave Models	OMAE2020-19051	Qiao, Chi	Framework for Constructing Environmental Contours Using the Inverse First Order Reliability Method and the Rosenblatt Transformation
Paper #7	4792	2-2Probabilistic and Spectral Wave Models	OMAE2020-18041	Vanem, Erik	Environmental Contours Based on a Direct Sampling Approach and the I-Form Approach: Contribution to a Benchmark Study
Paper #8	8478	2-9Extreme Loading and Responses	OMAE2020-18874	de Hauteclocque, Guillaume	Assessment of Global Wave Dataset for Long Term Response of Ships
Paper #9	4745	2-9Extreme Loading and Responses	OMAE2020-18558	Shinomoto, Kyohei	Development of Closed Formula of Wave Load Based Upon Long-Term Prediction – Heave Acceleration and Pitch Angle
Paper #10	4793	2-12 Structural Analysis and Optimization	OMAE2020-19293	Vanem, Erik	Adjusting Environmental Contours for Specified Expected Number of Unwanted Events
Friday 10:30 - 11:30 - Q&A 5.2					
Session Name		**2-7-1 Collision and Crashworthiness**			
Session Chair		**Zhiqiang Hu**			
Session Co-Chair		**Sörens Ehlers**			
Paper #1	10990	2-10 Collision and Crashworthiness	OMAE2020-19270	Guo, Kailing	Numerical Studies on Dynamic Behavior of Tubular Pipes Under Repeated Impacts
Paper #2	7342	2-10 Collision and Crashworthiness	OMAE2020-18217	Heidari, Hossein	Experimental and Finite Element Investigations on Crack Direction in Large Shell Structures
Paper #3	8275	2-10 Collision and Crashworthiness	OMAE2020-18700	Jinfen, Zhang	Dynamic Ship Domain Model Based on Ais Data for Collision Risk Assessment in Inland Waterways
Paper #4	11038	2-10 Collision and Crashworthiness	OMAE2020-19272	Kõrgesaar, Mihkel	Treatment of Bending Deformations in Maritime Crash Analyses
Paper #5	7804	2-10 Collision and Crashworthiness	OMAE2020-18418	Li, Pu	Impact Resistance of 3d Re-Entrant Hexagonal Auxetic Structures
Paper #6	7045	2-10 Collision and Crashworthiness	OMAE2020-18142	Liu, Kun	Experimental and Numerical Analysis of Laterally Impacted Square Stiffened Plate With Hat-Profile Stiffeners
Paper #7	8094	2-10 Collision and Crashworthiness	OMAE2020-18581	Liu, Zhenhui	Nonlinear Simulation of Dropped Container Impact With Platform Deck
Paper #8	7981	2-10 Collision and Crashworthiness	OMAE2020-18615	Pan, Jin	Simplified Method Calculation and Modification of the Crushing Forces of Intersection Units in Vessel-Bridge Collision
Paper #9	8174	2-10 Collision and Crashworthiness	OMAE2020-18741	Zhu, Ling	Collision Experiments of Ship Models in Water Tank
Paper #10	7474	2-12 Structural Analysis and Optimization	OMAE2020-18276	Wan, Wenchao	Numerical Simulation of Dynamic Response of Foam Aluminum Sandwich Panel Under Impact Load

OMAE2020: Symposum 3: Material Technology

Monday 13:30 - 14:30 - Q&A 3.1

SYMPOSIUM	SYMP 3:MAT	PAPER TITLE	Corresponding Author
Session Name	**03-01-01 Fracture Assessment - Analysis a& Testing**		
Session Chair	Xin Wang, Carleton University, Canada		
Session Co-Chair	Shen Bao, Zhejiang University, China		
Paper #1	OMAE2020-18952	OMAE2020-18952 A Fracture Characterization Framework for Large-Scale Marine Metal Structures	Juan G. London, Thornton Tomasetti
Paper #2	OMAE2020-18048	OMAE2020-18048 Modeling of Crack Propagation in Defective X100 Line Pipes	Marcelo Paredes
Paper #3	OMAE2020-18313	OMAE2020-18313 Residual Stresses and Stress Intensity Factor Calculations for an Orthotropic	Xin Wang
Paper #4	OMAE2020-18653	OMAE2020-18653 Validation of the Master Curve Approach with Various Welding Conditions - Groove Shapes, Heat Inputs and Welding Processes	JIN HO LEE,
Paper #5	OMAE2020-18021	OMAE2020-18021 Evaluation of the Crack Tip Opening Displacement (CTOD) for an Extending Crack in Clamped Se(t) Specimens with Weld Centerline Crack: Finite Element Analysis and Experiments	Claudio Ruggieri
Paper #6	OMAE2020-18032	OMAE2020-18032 Fracture Behavior of X65 Seamless Pipeline Steel Under Different Strain Rates and Stress States	Marcelo Paredes
Paper #7	OMAE2020-18733	OMAE2020-18733 Experimental Evaluation of Fracture Toughness Values for a Nickel-Chromium Girth Weld by Using the Single and Multi-Specimen Technique	Diego F. S. Burgos
Paper #8	OMAE2020-18703	OMAE2020-18703 Machine Learning and Bayesian Network Based Approach for Estimating Residual Stresses in Girth Welds of Topside Piping	Arvind Keprate
Paper #9	OMAE2020-18861	OMAE2020-18861 Numerical Evaluation of Cracks in Polyvinylidene Fluoride (Pvdf)	Ingrid Cristina Soares Pereira
Paper #10	OMAE2020-19358	OMAE2020-19358 Crack Arresting with Crack Deflecting Holes in Steel Plates	Mostafa Atteya

Tuesday 13:30 - 14:30 - Q&A 3.2

SYMPOSIUM	SYMP 3: MAT	PAPER TITLE	Corresponding Author
Session Name	**03-02-01 Fatigue Analysis and Performance**		
Session Chair	Shen Bao, Zhejiang University, China		
Session Co-Chair	Xin Wang, Carleton University, Canada		
Paper #1	OMAE2020-18813	OMAE2020-18813 Fatigue and Fracture Performance of Underwater Fillet and Complete Penetrations Groove Welded Joints	Steven Altstadt, Wiss Janney
Paper #2	OMAE2020-18288	OMAE2020-18288 Evaluation of the Solutions for Calculating Misalignment-Induced Stress Concentration Factor at Girth Welds in Pipelines	Yanhui Zhang
Paper #3	OMAE2020-18071	OMAE2020-18071 Fatigue Performance of Thick Section Titanium Grade 29 Girth Welds	Gabriel Rombado
Paper #4	OMAE2020-19043	OMAE2020-19043 Fatigue Performance of Hybrid Welded Steel Beams	Jeroen Van Wittenbergh
Paper #5	OMAE2020-18629	OMAE2020-18629 Characterization of Magnetic Field in Crack Propagation Stage and Application to Non-Destructive Evaluation	Sheng Bao
Paper #6	OMAE2020-18515	OMAE2020-18515 Study on the Effect of Stress-Strain Relation on Fatigue Crack Propagation Behaviour Using Numerical Simulation of the Fatigue Crack Propagation Considering the Crack Opening and Closing Behaviour	Koji Gotoh
Paper #7	OMAE2020-18675	OMAE2020-18675 Using Bayesian Neural Network for Predicting Fatigue Strength Based on Composition and Process Parameters	Arvind Keprate
Paper #8	OMAE2020-18646	OMAE2020-18646 A Suggested Shaping Exponent in Wheeler Approach Under Overload Condition for High Manganese Steel	Jeongyeol Park
Paper #9			
Paper #10			

Wednesday 13:30 - 14:30 - Q&A 3.3

SYMPOSIUM	SYMP 3: MAT	PAPER TITLE	Corresponding Author
Session Name	**03-03-01 Integirty Assessment and Life Extension**		
Session Chair	Morten Andre Langøy, Petroleum Safety Authority, Norway		
Session Co-Chair	Xin Wang, Carleton University, Canada		
Paper #1	OMAE2020-19287	OMAE2020-19287 In-Service Experiences of Offshore Ship Shaped Units	Marita Halsne
Paper #2	OMAE2020-18586	OMAE2020-18586 Challenges Due to Welds Fabricated at a Close Proximity on Offshore Structures, Pipelines and Piping: State of the Art	SACHIN BHARDWAJ
Paper #3	OMAE2020-18017	OMAE2020-18017 On the Effect of Various Post Weld Heat Treatments on Microstructure of Aisi 4130 Steel Used in Sour Service Pipes	Dmitry Vysochinskiy

Paper #4	OMAE2020-18475	OMAE2020-18475 A Holistic Method to Enhance the Sustainable Design, Manufacture, Operation, and End-of-Life of the Vessel	Mincui Liang
Paper #5	OMAE2020-18892	OMAE2020-18892 Sub-Zero Temperature Fatigue Strength of Butt-Welded Normal and High-Strength Steel Joints for Ships and Offshore Structures in Arctic Regions	Moritz Braun
Paper #6	OMAE2020-18953	OMAE2020-18953 Effect of Annealing Temperature on Physical Features of Pvdf Pipe Material	Christine Rabello Nascimento
Paper #7	OMAE2020-19248	OMAE2020-19248 Assessment of a Polyamide Used in Flexible Pipes After Aging in Deoxygenated Water	Danyelle Costa
Paper #8	OMAE2020-18249	OMAE2020-18249 High Strength Heavy Gauge Linepipe Steels for Ultra Deep Water Application	Kyono Yasuda
Paper #9	OMAE2020-18250	OMAE2020-18250 Collapse Resistance Under Combined External Pressure and Bending Deformation of Coated Linepipe	Takahiro Sakimoto
Paper #10			

Thursday 13:30 - 14:30 - Q&A 3.6

SYMPOSIUM	**SYMP 3: MAT**	**PAPER TITLE**	**Corresponding Author**
Session Name	**03.06.01- Advanced Manufacuring**		
Session Chair	Christina Wang, ABS, USA		
Session Co-Chair	Shen Bao, Zhejiang University, China		
Paper #1	OMAE2020-18544	OMAE2020-18544 Development of 3d Fe Models for Incremental Forming Process Analysis of Uoe Linepipes	Shuwen Wen
Paper #2	OMAE2020-19208	OMAE2020-19208 Study on Prevention of Solidification Cracking on Tandem Gmaw on Ship Butt Welding	Shintaro Maeda
Paper #3	OMAE2020-19174	OMAE2020-19174 Nonlinear Mechanical Fe Analysis of Thin-Plate Complex Structures Using Shell-Solid Mixed Method	Kazuki Ikushima
Paper #4	OMAE2020-18922	OMAE2020-18922 Additive Manufacturing: Challenges and Solutions for Marine and Offshore Applications	Dongchun Qiao,
Paper #5	OMAE2020-18266	OMAE2020-18266 Feasibility Study on Fabrication of Large-Scale Offshore Structural Steel Component Using Laam Technology	Youxiang Chew
Paper #6	OMAE2020-18545	OMAE2020-18545 Effect of Wire Composition on Microstructure Transformation and Properties of Wire-Arc Additive Manufactured Nickel-Aluminum Bronze	CHANGWOOK JI
Paper #7	OMAE2020-19271	OMAE2020-19271 Additive Manufacturing in the Oil & Gas Industry Overview	Carlo De Bernardi
Paper #8			
Paper #9			

Symposium 4: OMAE2020: Pipelines, Risers, Subseas.

Monday 13:30 - 14:30

SYMPOSIUM			SYMP 4: PRSS
Session Name	4.1 - Flexibles I		
Session Chair	Zhimin Tan		
Session Co-Chair	José Renato Sousa		
Paper #1	OMAE2020-18204	Zhixun Yang, C	Research on Lateral Buckling Mechanism of Tensile Armor Wires in Unbonded Flexible Pipe
Paper #2	OMAE2020-18657	Jose Renato M	A Three-Dimensional Fe Approach for the Fatigue Analysis of Tensile Armors Inside End Fittings
Paper #3	OMAE2020-18842	Gabriel	Descompression Analysis of Multi-Layer Barrier Flexible Pipes
Paper #4	OMAE2020-18881	Henrique Rigor	Flexible Pipe Annulus Management System - Pipeacom
Paper #5	OMAE2020-18948		SPIRE: Flexible Riser Condition Monitoring System Applied to Pre-Salt Fields With High CO2
Paper #6	OMAE2020-18957		Seal Tight Endfitting and Means to Identify Annulus Condition for Pre-Salt Flexibles in Brazil
Paper #7	OMAE2020-19045		Dynamic Flexible Riser Ancillary Equipment: North Sea Asset Integrity Management Experience and Lessons Learned
Paper #8			
Paper #9			
Paper #10			

Monday 15:00 - 16:00

SYMPOSIUM			SYMP 4: PRSS
Session Name	4.2 - Pipeline Mechanics I		
Session Chair	Mike Paulin		
Session Co-Chair	Daniel Carneiro		
Paper #1	OMAE2020-18344	Alastair Walker	The Effect of Including the Bauschinger Phenomenon in the Buckling Pressure of Thin-Walled Pipes
Paper #2	OMAE2020-18372		
Paper #3	OMAE2020-19313		Collapse Pressure Enhancement of Offshore Pipeline Considering ERW Pipe Manufacturing Process
Paper #4	OMAE2020-18195	Fa-Cheng Wan	Numerical Study on Torsional Behavior of Carbon Steel-Concrete-Stainless Steel Double-Skin Tube (Dst) Used in Submarine Pipeline
Paper #5	OMAE2020-18206	Yi Yu, Subsea	Finite Element Analysis of Trawl Pull-Over Behaviour of Pipe-in-Pipe With Residual Curvatures
Paper #6	OMAE2020-18747	Daniil Vasilikis	Fracture Assessment of Flaws in Undermatching Welds
Paper #7	OMAE2020-19062	Jie Yang, Colle	Coupling Response Analysis of Deep-Water Pipeline Based on Rapid Regulation of Stinger Radius
Paper #8			
Paper #9			
Paper #10			

Tuesday 13:30 - 14:30

SYMPOSIUM			SYMP 4: PRSS
Session Name	4.3 - Flexibles II		
Session Chair	Anh Tuan Do		
Session Co-Chair	Zhimin Tan		
Paper #1	OMAE2020-18212	Vinicius Ribeir	Convolutional Neural Networks Applied to Flexible Pipes for Fatigue Calculations
Paper #2	OMAE2020-18304	Linfa Zhu, BH	A Knn Based Collapse Methodology and Recent Qualification of Flexible Pipes in Deepwater Application
Paper #3	OMAE2020-18347	Weimin Chen,	Dynamic Characteristics and Stability of Flexible Riser Under Consideration of Non-Uniform Tension and Internal Flow
Paper #4	OMAE2020-18525	Krassimir Doyn	Validation of Predictions of Wire Stress of Flexible Pipe With Damaged Tensile Armor Wires Under Combined Tension and Bending
Paper #5	OMAE2020-18971	Jun Yan, Dalian	A Research on Effective Shear Performance of Helically Wound Structures Based on the New Implementation of Asymptotic Homogenization
Paper #6	OMAE2020-19356	Mohsen Saneia	Evaluation of the Inner Liner Part in Unbonded Flexible Pipelines in the Sealing System of End-Fitting
Paper #7	OMAE2020-18122		Analysis on Unbonded Flexible Pipes Under Loads
Paper #8			
Paper #9			
Paper #10			

Tuesday 15:00 - 16:00

SYMPOSIUM			SYMP 4: PRSS
Session Name	4.4 - Rigid Risers I		
Session Chair	Basim Mekha		
Session Co-Chair	---		
Paper #1	OMAE2020-18065	Hao Song, ABS	Integrity Management for Steel Catenary Risers With Design Life of 30 Years

Paper #2	OMAE2020-18190	Rasoul Hejazi,	A Bayesian Machine Learning Approach for Efficient Integrity Management of Steel Lazy Wave Risers
Paper #3	OMAE2020-19085	Basim Mekha,	The Role of Engineering Critical Assessment in the Life Extension of Risers Connected to Floating Systems
Paper #4	OMAE2020-19281	Chen Shi, Chir	Improved Empirical Formulation for Seabed Trench Profile at Touchdown Zone and its Effects on Fatigue of Steel Catenary Risers
Paper #5	OMAE2020-19303	Ghiath (Guy) M	Tubular Connection Assembly for Improved Fatigue Performance of Metallic Risers
Paper #6	OMAE2020-19308	Mayank Lal, Te	Steel Lazy Wave Riser Optimization Using Artificial Intelligence Tool
Paper #7	OMAE2020-18322	Rohit Vaidya, 2	Operational Challenges for Drilling Shallow Water Wells With Dynamically Positioned Rigs
Paper #8	OMAE2020-19057	Jose Mesa, Ch	Gulf of Mexico Hurricane Single Event Fatigue Method for Riser Analysis
Paper #9			
Paper #10			

Wednesday 13:30 - 14:30

SYMPOSIUM			**SYMP 4: PRSS**
Session Name	**4.5 - Flexibles III**		
Session Chair	**José Renato Sousa**		
Session Co-Chair	**Zhimin Tan**		
Paper #1	OMAE2020-18005	Rodrigo Prova	Frictional Flexible Pipe Model Using Macroelements
Paper #2	OMAE2020-18010	Fernando Gere	Parallelized Element-by-Element Solver for Structural Analysis of Flexible Pipes Using Finite Macroelements
Paper #3	OMAE2020-18307	Jiabei Yuan, B	Frequency Domain Fatigue Analysis for a Unbonded Flexible Riser – Damage Induced by Dynamic Bending
Paper #4	OMAE2020-19044	Damir Tadjiev, A	Anomaly Criteria for Subsea Visual Inspection of Dynamic Flexible Risers and Seabed Flexible Flowlines and Jumpers
Paper #5	OMAE2020-18364	Chuanzhen Ma	Experimental Investigation of the Effects of the In-Line Top-Motion on the Vortex-Induced Vibration Response of a Flexible Riser
Paper #6	OMAE2020-18426	Weizheng An, (	Line Type Optimization of the Flexible Jumper for New Generation Subsea Suspended Manifold Production System
Paper #7	OMAE2020-18564	Pavel Trapper,	Feasible Numerical Technique for Analysis of Offshore Pipelines and Risers
Paper #8	OMAE2020- 18231		An Efficient Model for Estimating Wake Velocity Distributions Behind a Two-Dimensional Circular Cylinder
Paper #9	OMAE2020-18698		Flexible Riser Cross Under Mooring Lines
Paper #10			

Wednesday 15:00 - 16:00

SYMPOSIUM			**SYMP 4: PRSS**
Session Name	**4.6-Pipeline Thermo-Mechanical & Composites**		
Session Chair	**Daniel Carneiro**		
Session Co-Chair	**Mike Paulin**		
Paper #1	OMAE2020-18111	Qiang Bai, Tec	Feasibility Study of Lateral Buckling Using Residual Curvature Method for Deep Water Pipelines
Paper #2	OMAE2020-18261	Martin Teigen,	Analytical Formulae for the Lateral Buckling Behaviour of Pipelines Installed With Residual Curvature
Paper #3	OMAE2020-18360	Daniel Carneir	Pipeline Walking Due to Temperature Transient - Enhanced Analytical Calculations
Paper #4	OMAE2020-18893		High Temperature Flowline Thermal Design Using Rotating Buoyancy Modules
Paper #5	OMAE2020-18578		Dynamic Analysis of a Subsea Spool Under Dropped Container Impact Loads
Paper #6	OMAE2020-18960		Subsea Pipeline Engineering Challenges in Sand Wave Area: The Lufeng Feed Project
Paper #7	OMAE2020-18046	Chen Shi,)	Effects of Thickness and Winding Angle of the Laminate on Internal Pressure Capacity of Thermoplastic Composite Pipes
Paper #8	OMAE2020-18047	Jialu Wang, Ch	Numerical Evaluation on Lateral Impact Resistance of Thermoplastic Composite Pipes in Terms of Internal Pressure Capacity
Paper #9			
Paper #10			

Thursday 13:30 - 14:30

SYMPOSIUM			**SYMP 4: PRSS**
Session Name	**4.7 - Flexibles & Umbilicals**		
Session Chair	**Zhimin Tan**		
Session Co-Chair	**Anh Tuan Do**		
Paper #1	OMAE2020-18316	Sherry Xiang, S	Development Study on Sea Water Intake Riser Using High Density Polyethylene Pipe for Floating Prodcution Unit Application
Paper #2	OMAE2020-18859	Rafael Luis Me	Bending Strain Effects on Pvdf Morphology and Post-Tensile Behavior.
Paper #3	OMAE2020-18950	Celso Pesce, U	Crushing of a Steel Tube Umbilical Cable During Laying Operation: A FE Method Assessment at the Entry/exit Regions of Tensioner Shoes
Paper #4	OMAE2020-19234	Xu Yin, Harbin	Optimization Design of the Cross-Section of the Umbilical Based on the Pseudo Mechanical Mechanism
Paper #5	OMAE2020-18011	Fernando Gere	Parametric Analysis of Steel-Tube Umbilical Armor Pots
Paper #6			
Paper #7			
Paper #8			

Paper #9			
Paper #10			

Thursday 15:00 - 16:00

SYMPOSIUM			**SYMP 4: PRSS**
Session Name	**4.8 - Rigid Risers II**		
Session Chair	**Basim Bekha**		
Session Co-Chair	**---**		
Paper #1	OMAE2020-18377	Chenteh Alan	Feasibility Study of S-Lay Installation for Deepwater Scrs and Pipelines
Paper #2	OMAE2020-18382	Yongming Che	Design Challenges of Scrs in Deepwater and Ultra Deepwater
Paper #3	OMAE2020-18458	Leonardo Sale	Dynamic Behaviour of a Free Hanging Vertical Pipe Forced to Oscillate at the Top
Paper #4	OMAE2020-19006	Nicolas Pilisi, E	How Reliability Based Design Can Increase Operating Window for 20k Drilling Risers
Paper #5	OMAE2020-19032	Shaosong Zha	Irregular Wave Simulation and Its Impact on Riser Extreme Response for a Production Semi
Paper #6	OMAE2020-18109	Depeng Liu, H	Dynamic Modelling of Deep-Water Riser With Slug Flows Based on Ale-Ancf
Paper #7	OMAE2020-19209		Numerical-Experimental Study of Global Buckling in Catenary Risers
Paper #8			
Paper #9			
Paper #10			

Friday 9:00 - 10:00

SYMPOSIUM			**SYMP 4: PRSS**
Session Name	**4.9 - Subsea, Flow Assurance, Innovative**		
Session Chair	**Daniel Carneiro**		
Session Co-Chair	**Mike Paulin**		
Paper #1	OMAE2020-18890	Ali Cetin, 4Sub	Robust Method for Wellhead Loads Estimation Based on Lower Stack Motion Measurements
Paper #2	OMAE2020-18393	Yanjun Li, Flori	Numerical Study of Underwater Inflatable Co-Prime Sonar Array
Paper #3	OMAE2020-18027	Victoria Kurush	Influence of Combined Empirical Functions on Slug Flow Predictions of Pipelines With Variable Inclinations
Paper #4	OMAE2020-18188	Jianbo Zhang,	An Efficient Method for Hydrate Plugging Prevention During Deep-Water Gas Well Testing
Paper #5	OMAE2020-18348	Yi Hualei, CNC	A Study on Hydrate Inhibition of Marginal Gas Field Development
Paper #6	OMAE2020-19242	Hemant Priyad	Subsea Hipps Monetary Value - Perception and Reality
Paper #7	OMAE2020-18119	Zhenguo Gao,	Experimental Study of Hydrodynamic Damping for Water Intake Riser
Paper #8	OMAE2020-18854	Filipe Almeida	Wellhead Fatigue Analysis Considering Global and Local Effects
Paper #9			
Paper #10			

Friday 10:30 - 11:30

SYMPOSIUM			**SYMP 4: PRSS**
Session Name	**4.10 - Pipeline Installation & Fatigue**		
Session Chair	**Mike Paulin**		
Session Co-Chair	**Daniel Carneiro**		
Paper #1	OMAE2020-18685	Eric GIRY, Saip	Machine Learning for Subsea Pipeline Reeling Mechanics
Paper #2	OMAE2020-18450	Tomasz Tkaczy	Effect of Pre-Strain on Bending Strain Capacity of Mechanically Lined Pipe
Paper #3	OMAE2020-18723	Kuo Huang, Co	Dynamic Analysis on Critical Responses of Pipeline and Cable During Pipeline End Termination Installation
Paper #4	OMAE2020-19269	Dan Lee, McDe	A Novel Bi-Modal Wave Analysis Approach to Pipelay Installation Analysis
Paper #5	OMAE2020-18611	Ittyarachan Vad	Elevated Pipelay Initiation and Cost Optimized Lowering of Subsea Rigid Pipeline
Paper #6	OMAE2020-18579	Andries Van W	Measurements of Low Frequency Vibration in Subsea Piping Using Rov Video Analysis
Paper #7	OMAE2020-19024		A New Rigid Jumper VIV Response Model: JIP Development
Paper #8	OMAE2020-19223		Deepwater Span Management on a Mobile Seabed
Paper #9	OMAE2020-19226		Pluck Tests on Operating Deepwater Pipeline Spans
Paper #10	OMAE2020-18325	Leixin Ma, MIT	Using Machine Learning to Identify Important Parameters for Flow-Induced Vibration

Symposium 6: Ocean Engineering

Monday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-1-1 Computational Mehcanics and Coastal Engineering		
Session Chair	Wei Qiu		
Session Co-Chair	Kuang-An Chang		
Paper #1	OMAE2020-19007	Guo, Wenqiang	Fluid Slip Flow With a Slip Boundary Condition in the Dugks
Paper #2	OMAE2020-19132	ZHANG, Peng	A New Higher-Order Euler-Bernoulli Beam Element of Absolute Nodal Coordinate Formulation
Paper #3	OMAE2020-18089	Mohapatra, Amar	Wave Interaction of a Horizontal Submerged Wavy Composite Porous Plate Attached to a Vertical Wall
Paper #4	OMAE2020-18105	Neelamani, Subramaniam	Wave Interaction With Rubble Mound Offshore Breakwaters of Uniform Porosity and Different Relative Heights
Paper #5	OMAE2020-18518	zheng, zhenjun	Low-Frequency Oscillations Within the Hambantota Port During the Southwest Monsoon, 2019
Paper #6	OMAE2020-18499	Raju, Rahul Dev	Numerical Investigation on Wave Transmission by a Submerged Reef Using Mike 3 Wave Fm
Paper #7	OMAE2020-18789	Jun, Huang	Numerical Investigation of Scour Beneath a Subsea Piggyback Pipeline
Paper #8			
Paper #9			
Paper #10			

Monday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-3-1 Fluid-Stucture, Multi-body and Wave-body Interaction I		
Session Chair	Alessandro Iafrati		
Session Co-Chair			
Paper #1	OMAE2020-18445	Chen, Yingyu	Transient Response of the Steel Plate to Underwater Explosion Bubble
Paper #2	OMAE2020-18588	Gupta, Aditya	Effect of Emerged Moving Coastal Vegetation on Wave Damping
Paper #3	OMAE2020-18272	Houtani, Hidetaka	Towing Experiment of a Hydro-Structural Container Ship Model in Bow-Quartering Modulated Wave Trains
Paper #4	OMAE2020-18223	Mintu, Shafiul	Ship-Wave Impact Generated Sea Spray. Part 1: Formulating Liquid Water Content and Spray Cloud Duration
Paper #5	OMAE2020-18224	Mintu, Shafiul	Ship-Wave Impact Generated Sea Spray. Part 2: Formulating Spray Frequency
Paper #6	OMAE2020-18901	BAKTI, FARID	Second Order Difference Frequency Wave-Current Loading Using Kelvin-Newman Approximation
Paper #7	OMAE2020-19350	yuan, zhiming	Unsteady Wave-Making Resistance of an Accelerating Ship
Paper #8	OMAE2020-18797	Clément, Constance	Numerical Wave Tank Including a Constrained Cylinder Submitted to Waves, Towards the Investigation of Floating Offshore Wind Turbine Hydrodynamics
Paper #9	OMAE2020-18860	De Oliveira Costa, Daniel	Instantaneous Center of Rotation of a Vessel Submitted to Oblique Waves
Paper #10			

Monday 15:00 - 16:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-3-2 Fluid-Stucture, Multi-body and Wave-body Interaction II		
Session Chair	Daniel Costa		
Session Co-Chair			
Paper #1	OMAE2020-18000	Pahos, Spiro	A Review of Mooring Analysis Methodologies for Permanent Offshore Installations
Paper #2	OMAE2020-19089	Pelerin, Jean-Luc	Suction Pile Splash Zone Crossing Modeling
Paper #3	OMAE2020-18423	Srinil, Narakorn	Capturing Wake Stiffness in Wake-Induced Vibration of Tandem Cylinders
Paper #4	OMAE2020-19133	Youssef, Mohamed	Experimental Investigation of the Tip Vortex Influence on Viv of a Circular Cylinder at High Reynolds Numbers
Paper #5	OMAE2020-18750	Lu, Lin	Hydroelastic Analysis of the Bending-Torsional Coupling Vibrations of an Ultra-Large Container Ship
Paper #6	OMAE2020-19253	Davis, Jacob	Design, Analysis, and Development of a Wave-Current Laboratory
Paper #7			
Paper #8			
Paper #9			
Paper #10			

Monday 15:00 - 16:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-6-1 Modeling, Characterization, Structures and Loads		
Session Chair	Celso Morooka		
Session Co-Chair			
Paper #1	OMAE2020-18202	Lubis, Michael Binsar	Effects of Empirical Orthogonal Function in Simplification of Structural Response of a Deep-Water Offshore System Under Current Profile Loading
Paper #2	OMAE2020-18453	Dong, Sheng	Estimating Design Loads for Floating Structures Using Environmental Contours
Paper #3	OMAE2020-18671	Stefanakos, Christos	Nearshore Wave Modelling in a Norwegian Fjord
Paper #4	OMAE2020-18906	Saint-Rose, Bruno	Waves in the Great Pacific Garbage Patch: Cross Validation of Three Measurement Techniques and Two Ww3 Models
Paper #5	OMAE2020-18989	Qiao, Chi	Modeling Spatio-Temporal Characteristics of Metocean Conditions During Hurricanes Using Deep Neural Networks
Paper #6	OMAE2020-19171	Ortega, Joaquin	Stationary Intervals for Random Waves by Functional Clustering of Spectral Densities
Paper #7	OMAE2020-19190	Wada, Ryota	SPATIAL FEATURES OF EXTREME WAVES IN GULF OF MEXICO
Paper #8			
Paper #9			

Symposium 6: Ocean Engineering

Tuesday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-4-1 Marine Energy and Technology I		
Session Chair	Muk Chen Ong		
Session Co-Chair	Alexandre Simos		
Paper #1	OMAE2020-19079		
Paper #2	OMAE2020-18726	Sui, HaiBo	Numerical Simulation of Motion Response of Multi Floating Body System Considering Different Gap Between Tlp and Tad
Paper #3	OMAE2020-18924	Iannaccone, Tommaso	Safety Analysis of Liquefied Natural Gas Bunkering and Simultaneous Port Operations for Passenger Ships
Paper #4	OMAE2020-18764	Guo, Bingjie	Cfd-Based Operation Optimization of Hybrid Ships
Paper #5	OMAE2020-19153	Kim, Sang-Yeob	Study on Data Analysis of On-Board Measurement Data for Ship's Speed Power Performance
Paper #6	OMAE2020-18281	Murray, Brian	Unsupervised Trajectory Anomaly Detection for Situation Awareness in Maritime Navigation
Paper #7	OMAE2020-18093	Balestra, Lorenzo	Study on the Architecture of a Zero Emission Hydrogen Fuel Cell Vessel Power Generating Unit
Paper #8	OMAE2020-18651	Guo, Bingjie	A Modelling System for Power Consumption of Marine Traffic
Paper #9			
Paper #10			

Tuesday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-10-1 Offshore Industry: Model Testing, Aquaculture, Mining, etc.		
Session Chair	Guan Yin		
Session Co-Chair			
Paper #1	OMAE2020-19279	Yim, Solomon	Hydrodynamic Analysis of Macroalgae Local Model Using Computational Fluid Dynamics
Paper #2	OMAE2020-18634	MENG, Xun	Optimization-Based Multi-Attribute Decision Making for the 7th Generation Semi-Submersible Drilling Unit
Paper #3	OMAE2020-18024	He, Yuhang	A 6-Dof Ship-Borne Antenna Platform With Large Orientation Workspace
Paper #4	OMAE2020-18081	Li, Tao	Performance Analysis of the Ship Based on the Stewart Platform and the Three-Axis Gyroscope Composite Anti-Rolling Device
Paper #5	OMAE2020-19160	Li, Tao	Performance Analysis of the Ship Based on the Stewart Platform and the Three-Axis Gyroscope Composite Anti-Rolling Device
Paper #6	OMAE2020-19061	Zhang, zizhao	Research on the Static and Dynamics Characteristics of Soft Yoke Mooring System Based on Multi-Rigid Body Interaction
Paper #7			
Paper #8			
Paper #9			

Tuesday 15:00 - 16:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-4-2 Marine Energy and Technology II		
Session Chair	Muk Chen Ong		
Session Co-Chair	Alexandre Simos		
Paper #1	OMAE2020-18368	Bui, Khanh	A Decision Support Framework for Cost-Effective and Energy-Efficient Shipping
Paper #2	OMAE2020-18715	Wennersberg, Lars Andreas Lien	Analysing Supply Chain Phases for Design of Effective Autonomous Ship Technology in New Transport System Solutions
Paper #3	OMAE2020-18776	Sun, Wenyu	An Optimization Method for Economical Ship-Routing and Ship Operation Considering the Effect of Wind-Assisted Rotors
Paper #4	OMAE2020-18267	Tang, Ziying	An Optimized Thrust Allocation Algorithm for Dynamic Positioning System Based on Rbf Neural Network
Paper #5	OMAE2020-18550	Wang, Peng	Research on Position Keeping and Path Following Strategy for the Under-Actuated Waved Glider
Paper #6	OMAE2020-19078	Jiang, Xiyun	The Course Control of Air Cushion Vehicle With Uncertainties and Input Saturation
Paper #7	OMAE2020-18787	Ji, Mingyao	A Basic Research on the Influence of Descent Flow From Small Unmanned Aerial Vehicle (Quadcopter) on a Small Floating Body
Paper #8	OMAE2020-18135	Nordahl, Håvard	An Ontology-Based Approach for Simplified Fmu Variable Connections With Automatic Verification of Semantically Correct Configuration
Paper #9	OMAE2020-18302	ge, yongqiang	A New Type of Device Used on Submarine Landslides Monitoring
Paper #10	OMAE2020-18401	Zhang, Peihao	A New Type of Robot Used for Deep Stratum Drilling in Seabed
Paper #11			

Tuesday 15:00 - 16:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	6-11-1 Offshore Industry: Structures and Design		
Session Chair	Joel Sena Sales Jr.		
Session Co-Chair	Fabricio Correa		
Paper #1	OMAE2020-19114	ISLAM, MD SHAFIQUL	Development of Methods for Temperature Calculation of Lng Carrier Hull
Paper #2	OMAE2020-18399	Saito, Akira	A Study of Detecting for Dragging Anchor
Paper #3	OMAE2020-18882	Chung, Woo Chul	Dynamic Response Comparison of Mono and Dual Submerged Floating Tunnels
Paper #4	OMAE2020-19011	Jin, Chungkuk	Monitoring-System Development of Gillnet Using Artificial Neural Network
Paper #5			
Paper #6			
Paper #7			
Paper #8			

Symposium 6: Ocean Engineering

Wednesday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-5-1 Marine Hydrodynamics I**		
Session Chair	**Remco Hageman**		
Session Co-Chair			
Paper #1	OMAE2020-18466	Terziev, Momchil	Experimental and Numerical Study of an Obliquely Towed Ship Model in Confined Waters
Paper #2	OMAE2020-18673	Marimon Giovannetti, Laura	The Effects of Hydrodynamic Forces on Maneuvrability Coefficients for Wind-Assisted Ships
Paper #3	OMAE2020-18243	Seo, Min-Guk	Evaluation of Wave Drift Force and Maneuvering Performance in Wave of Kcs
Paper #4	OMAE2020-18625	Jin, Yuting	Kcs Manoeuvring in Steady Current and Regular Waves With System-Based Modelling
Paper #5	OMAE2020-18624	ZHENG, Yingying	Maneuvering and Seakeeping Performance of a Generic Tug Based on Numerical Simulations
Paper #6	OMAE2020-18352	Yihan, Zhang	Stability and Chaos Analysis of Nonlinear Roll Motion of Trimaran Ship With Variable Layouts Under Wind and Waves
Paper #7	OMAE2020-18137	Xie, Zhitian	Study on 2nd-Order Wave Loads With Forward Speed Through Aranha's Formula and Neumann-Kelvin Linearization
Paper #8	OMAE2020-18240	Lee, Donghyun	A Study on the Power Increase Test in Regular Waves for Estimation of Minimum Propulsion Power in Adverse Conditions
Paper #9	OMAE2020-18356	Yihan, Zhang	Nonlinear Roll Damping and Roll Motion Study of Asymmetric Catamaran With Variable Layout
Paper #10	OMAE2020-18614	Deng, Baoli	Prediction of Wave-Induced Motions and Loads of Ships With Forward Speed by Matching Method

Wednesday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-9-1 Positioning Systems I**		
Session Chair	**David Molyneux**		
Session Co-Chair	**Parameswaran Krishmankutty**		
Paper #1	OMAE2020-18167	Reijmerink, Bas	Innovative Mooring in the Port of the Future: Scale Model Testing of the Shoretension System
Paper #2	OMAE2020-18309	Rindarøy, Martin	Hybrid Dp Simulations
Paper #3	OMAE2020-18694	Du, Junfeng	A Novel Adjustment Method of Mooring Line Pre-Tension in Model Test
Paper #4	OMAE2020-18814	Li, Xu	Experimental Study on the Effects of Mooring System on Air Gap Response of Semi-Submersible platform
Paper #5	OMAE2020-19103	Sauder, Thomas	From Soft Mooring System to Active Positioning in Laboratory Experiments.
Paper #6	OMAE2020-19008	Yokota, Saori	Detailed Study on the Behavior of Ships in Very Short Waves
Paper #7	OMAE2020-18146	Dong, Qing	Experimental Study on Dynamic Responses of Two Semi-Submersibles Connected by a Gangway
Paper #8	OMAE2020-18444	Yu, Liwei	Model Tests on the Parametric Resonance of the Deep Draft Semisubmersible Under Regular and Irregular Waves
Paper #9	OMAE2020-18141	Jianwei, Deng	Measurements of Green Water Overtopping a Model Fpso With 2-Dof Freedom in a Water Flume
Paper #10	OMAE2020-18967	Ramos, Aureo	Active Absorption of Random Waves in Wave Flume Using Artificial Neural Networks

Wednesday 15:00 - 16:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-5-2 Marine Hydrodynamics II**		
Session Chair	**Joel Sena Sales Jr.**		
Session Co-Chair			
Paper #1	OMAE2020-18327	Ishihara, Yuki	Experimental Study of Slam Forces on External Turrets With Different Top Angles
Paper #2	OMAE2020-18447	Sun, Shili	Investigation on Motion and Load Response of a Fpso in Regular Waves by Fully Nonlinear Method
Paper #3	OMAE2020-18226	Sbragio, Ricardo	Design and Cfd Self-Propulsion Analysis of a Ducted Propeller for a Darpa Suboff Hull Autonomous Underwater Vehicle
Paper #4	OMAE2020-19285	ZHANG, Li	Improved Ittc Uncertainty Analysis Method of Ship Model Self-Propulsion Tests
Paper #5	OMAE2020-18538	Kumar, Ashok	Numerical Study on the Performance Analysis and Vibration Characteristics of Flexible Marine Propeller
Paper #6	OMAE2020-18144	Wang, Jia-xia	Experimental Study on the Behavior of a Bubble in the Vicinity of an Air Bubble Attached to a Fixed Structure
Paper #7	OMAE2020-18659	Rajendran, Suresh	Horizontal and Torsional Modes of an Ultra Large Container Ship (Ulcs)

Wednesday 15:00 - 16:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-9-2 Positioning Systems II**		
Session Chair	**David Molyneux**		
Session Co-Chair	**Parameswaran Krishmankutty**		
Paper #1	OMAE2020-18343	Liu, Zhen	Marginal Hilbert Spectrum for the Raos of a Drilling Vessel Under Transient Wave Packets
Paper #2	OMAE2020-18967	Ramos, Aureo	Active Absorption of Random Waves in Wave Flume Using Artificial Neural Networks
Paper #3	OMAE2020-18461	Jiang, Yufeng	Neural Network-Based Method for Structural Damage and Scour Estimation Using Modal Parameters and Dynamic Responses
Paper #4	OMAE2020-18633	chen, yingying	Design and Fabrication of a Fully Elastic Ship Model
Paper #5	OMAE2020-18128	wan, churui	Cavitation Performance of Low Speed Ice-Classed Propeller
Paper #6	OMAE2020-18471	Ombor, Pereowei Garrick	Simulating the Acceleration to Take-Off Phase of a Wig-Craft Using Results of Constrained Model Experiment.
Paper #7	OMAE2020-18621	Zhang, Min	Finite-Element-Model Updating for Fpso by Parameter Sensitivity Analysis
Paper #8	OMAE2020-18133	Rodríguez Castillo, Claudio Alexis	Experimental Investigation of the Hydrodynamic Interaction of Syde-by-Syde Fpsos in Waves
Paper #9	OMAE2020-18141	Jianwei, Deng	Measurements of Green Water Overtopping a Model Fpso With 2-Dof Freedom in a Water Flume

Symposium 6: Ocean Engineering

Thursday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-12-1 Ocean Engineering Technology, Measurement and Data Interpretation**		
Session Chair	**Allan Magee**		
Session Co-Chair			
Paper #1	OMAE2020-18885	Saint-Rose, Bruno	Monitoring and Performance Evaluation of Plastic Cleanup Systems (Part I): Description of the Experimental Campaign
Paper #2	OMAE2020-18891	Saint-Rose, Bruno	Monitoring and Performance Evaluation of Plastic Cleanup Systems (Part Ii): Results and Analysis
Paper #3	OMAE2020-19289	Ma, Chengqian	Numerical Simulation on Oblique Towing Tests and Pure Yaw Tests of a Containership on Surf-Riding Condition
Paper #4	OMAE2020-18067	Yang, Seung Ho	Study on the Parametric Rolling of Medium-Sized Containership Based on Nonlinear Time Domain Analysis
Paper #5	OMAE2020-18069	HE, HONGWEI	Black-Box Modeling of Ship Maneuvering Motion Using System Identification Method Based on Neural Network
Paper #6	OMAE2020-18230	Lyu, Hongguan	Research on the Slamming Effects in a Moonpool With a Recess Under the Wave-Current Interactions
Paper #7			
Paper #8			

Thursday 13:30 - 14:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-14-1 Ship Hydrodynamics, Towed and Undesea Cables and Pipes, Mooring, and Buoy Technology**		
Session Chair	**Lin Li**		
Session Co-Chair			
Paper #1	OMAE2020-18134	Viswanathan, Savin	Dynamic Simulation of a Mooring Catenary Based on the Lumped-Mass Approach -- Openmodelica and Python Implementations
Paper #2	OMAE2020-19319	Yamamoto, Ikuo	Development of Strong Mooring Rope With Embedded Electric Cable
Paper #3	OMAE2020-18788	O'Rourke, Brian	3-D Simulation of Iceberg Towing Operations: Cable Modeling and Frictional Contact Formulation Using Finite Element Analysis
Paper #4	OMAE2020-18147	Meng, Qingrui	Measurement for the Force Coefficients of the Model of an Ultra-Deep Water Work-Class Rov in the O-Tube Facility
Paper #5	OMAE2020-18196	Anderlini, Enrico	Simple and Effective Method for the Detection of the Loss of a Wing for Underwater Gliders
Paper #6			

Thursday 15:00 - 16:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-16-1 Underwater Vehicles and Unsteady Hydrodynamics**		
Session Chair	**Wei Qiu**		
Session Co-Chair	**Eduardo AntounTannuri**		
Paper #1	OMAE2020-18535	Ji, Xueqin	Numerical Design Study of Duct and Stator for a Pump-Jet Propulsor
Paper #2	OMAE2020-18548	Xue, Ying	Numerical Prediction of Cavitation Performance of Controllable Pitch Propellers With Different Pitch Adjustment Velocities
Paper #3	OMAE2020-18999	Kim, Seungnam	Prediction of Performance of Tip Loaded Propeller and Its Induced Pressures on the Hull
Paper #4	OMAE2020-19067	Yiew, Lucas	Thruster Performance of an Azimuth Stern Drive Tug
Paper #5	OMAE2020-19121	Li, Mingyuan	Numerical Simulation and Experimental Research of Hydrophone Flow Noise
Paper #6	OMAE2020-18474	Chen, Ke	Experimental Study of Wave Loading by Internal Solitary Waves on a Submerged Slender Body
Paper #7	OMAE2020-19268	Duz, Bulent	Comparison of the Cfd Results to Piv Measurements in Kinematics of Spilling and Plunging Breakers
Paper #8	OMAE2020-18479	Chen, Ke	Inertia and Drag Coefficients in Morison Equation for Isw Loads on Platform Columns
Paper #9			

Symposium 6: Ocean Engineering

Friday 9:00 - 10:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-17-1 Wave mechanics and Wave Effects**		
Session Chair	**Allan Magee**		
Session Co-Chair			
Paper #1	OMAE2020-18522	Gao, Xiang	Characteristic Analysis for Spectrum of Swell Dominated Seas With In-Situ Measurement
Paper #2	OMAE2020-18779	Zhou, Zhuowei	A Numerical Study on the Evolution of Random Seas With the Occurrence of Rogue Waves
Paper #3	OMAE2020-18919	Tang, Tianning	Comparison of Two Versions of the Mnls With the Full Water Wave Equations
Paper #4	OMAE2020-18930	Bouscasse, Benjamin	Generation of 3hr Long-Crested Waves of Extreme Sea States With Hos-Nwt Solver
Paper #5	OMAE2020-19357	Pushkarev, Andrei	Nonlinear Laser-Like Ocean Waves Radiation Orthogonal to the Wind
Paper #6	OMAE2020-18262	Wang, Weizhi	High-Fidelity Representation of Three-Hour Offshore Short-Crested Wave Field in the Fully Nonlinear Potential Flow Model Reef3d::fnpf
Paper #7	OMAE2020-18727	Johannessen, Thomas B.	Estimating Wave Induced Kinematics Underneath Measured Time Histories of Surface Elevation

Friday 9:00 - 10:00

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-15-1 Towed and Undesea Cables and Pipes, Mooring, and Buoy Technology**		
Session Chair	**Ye Li**		
Session Co-Chair			
Paper #1	OMAE2020-18400	Klamo, Joseph	On the Role That the End Shape of an Underwater Vehicle Plays on Wave-Induced Vertical Forces
Paper #2	OMAE2020-18655	Vamrák Solheim, Astrid	Deep sea mining: Towards conceptual design for underwater transportation
Paper #3	OMAE2020-18699	Qu, Zhaoyu	Experimental Study on Cavitation Motion of Underwater Vehicle With Protrusions.
Paper #4	OMAE2020-18253	Umeda, Jun	Sea Trials and Simulations for Leader Follower Formation Control of Cruising-Type Auvs
Paper #5	OMAE2020-18241	Taniguchi, Tomoki	Path Following Control of Autonomous Underwater Vehicle Using Nonlinear Model Predictive Control
Paper #6	OMAE2020-18446	Wang, Daoyong	Research on the Dynamic Obstacle Avoidance Strategy for the Wave Glider Based on the Improved Artificial Potential Field Method
Paper #7	OMAE2020-19280	Guggilla, Mukesh	Cfd Investigation on the Hydrodynamic Characteristics of Blended Wing Unmanned Underwater Gliders With Emphasis on the Control Surfaces

Friday 10:30 - 11:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-18-2 Water Wave Mechanics & Hydrodynamics**		
Session Chair	**Daniel Costa**		
Session Co-Chair	**Kuag-an Chang**		
Paper #1	OMAE2020-18724	Guangyao Wang	Data Assimilation for Phase-Resolved Ocean Wave Forecast
Paper #2	OMAE2020-18672	Yun Zhi Law	Numerical Investigation of the Physics of Spurious Waves Generated in a Physical Wave Tank
Paper #3	OMAE2020-18214	William Lambert	On the Effect of Non-Linear Boundary Conditions on the Wave Disturbance and Hydrodynamic Forces of Underwater Vehicles Travelling Near the Free-Surface
Paper #4	OMAE2020-19074	Markus Brühl	Analysis of Bore Characteristics Using Kdv-Based Nonlinear Fourier Transform
Paper #5	OMAE2020-18416	Jie Yang	The Effect of Storm-Induced Precipitation on Flooding in Macau City
Paper #6	OMAE2020-18676	Sander Wahls	Nonlinear Fourier Analysis of Free-Surface Buoy Data Using the Software Library Fnft
Paper #7	OMAE2020-19352	Michael Odzer	Acoustic Study of Wave-Breaking to Enhance the Understanding of Wave Physics

Friday 10:30 - 11:30

SYMPOSIUM	SYMP 6: OE	Author	Title
Session Name	**6-18-1 Marine Operations & Subsea Engineering**		
Session Chair	**Yihan Xing**		
Session Co-Chair	**Arun Kamath**		
Paper #1	OMAE2020-18171	Jiang, Zhiyu	Effect of a Passive Tuned Mass Damper on Offshore Installation of a Wind Turbine Nacelle
Paper #2	OMAE2020-18631	Fu, Zhenqiu	Experiment-Scale Multi-Vessel Dynamic Positioning System for the Twin-Lift Decommissioning Operation
Paper #3	OMAE2020-18209	Fang, Sheng	Research on Intelligent Loading of Bulk Carriers
Paper #4	OMAE2020-18577	Li, Wei	A Newly Designed Dynamic Positioning System of Single Vessel for the Twin-Lift Decommissioning Operation
Paper #5	OMAE2020-18756	Gran, Viktor	Hydrodynamic Analysis of Floating Docks With Alternative Geometries for Floating Wind Turbine Installation
Paper #6	OMAE2020-18311	Andrade, Emerson	Time-Domain Simulation of Subsea Equipments Installation Using Hydrodynamic Derivatives
Paper #7	OMAE2020-18857	Koo, Bonjun	Vessel/stinger/pipeline Fully Coupled Analysis for Pipelaying Operation
Paper #8	OMAE2020-18862	Gupta, Anupam	Stinger Structural Analysis Using Fully Coupled Model for Pipelay Operations
Paper #9	OMAE2020-19291	Fernandes, Antonio Carlos	Hse Consequences of Fpso Mooring Lines Pretension Uncertainty in Deep Waters Applications
Paper #10	OMAE2020-19118	Guo, Ruinan	Numerical Invertigation of Water Entry of a Subsea Module With Deflated Cavity Shells

Symposium 7- Polar & Arctic

Monday 13:30 - 14:30 - Q&A 1.1

SYMPOSIUM						SYMP7: PAS		SYMP 10: OG	SYMP 11: PT	SYMP 12: PL
Session Name						7-1-1 Arctic Technology				
Session Chair						Marc Cahay, marc.cahay@technipfmc.com				
Session Co-Chair						Walter Kuehnlein, wk@a2o.xyz				
Paper #1						OMAE2020-18166	Martin Bergström: Analysis of Future Polar Shipping Scenarios			
Paper #2						OMAE2020-18039	Nicolas Fournier: Sea Ice Thickness Forecast Performance in the Barents Sea			
Paper #3						OMAE2020-19117	Jon Bjørnø, Guidance Model Representing an Ice Field for Path-Planning in Ice Management			
Paper #4						OMAE2020-18731	Yuan Zhang: Peridynamic Analysis of Fragmentation of Ice Plate Under Explosive Loading With Thermal Effects			
Paper #5						OMAE2020-18320	R. U. Franz Von Bock Und Polach: Case Based Scaling: Recent Developments in Ice Model Testing			
Paper #6						OMAE2020-18172	Chana Sinsabvarodom: Extreme Value Estimation of Mooring Loads Based on Station-Keeping Trials in			
Paper #7						OMAE2020-18828	Jillian Adams: Evaluation of the Ice Load Acting on an Arctic Offshore Structure With Different Ice			
Paper #8						OMAE2020-18181	Alessandro Toffoli: Wave Propagation in Continuous Sea Ice: An Experimental Perspective			
Paper #9						OMAE2020-18152	Moritz C. N. Hartmann: Damping of Regular Waves in Model Ice			
Paper #10						OMAE2020-19068	Sthéfano Lande Andrade: Numerical Study of Large Pendulum Ice Impact Load			

Monday 15:00 - 16:00 - Q&A 1.2

SYMPOSIUM	SYM	SYMP	SYMP3	SYMP 4	SYMP 5	SYMP 6	SYMP7: PAS	SYMP 8: CFD & FSI	SYMP 9: ORE	SYMP 10: OG	SYMP 11: PT	SYMP 12: PL
Session Name												
Session Chair												
Session Co-Chair												
Paper #1												
Paper #2												
Paper #3												
Paper #4												
Paper #5												
Paper #6												
Paper #7												
Paper #8												
Paper #9												
Paper #10												

Tuesday 13:30 - 14:30 - Q&A 2.1

SYMPOSIUM	SYM	SYMP	SYMP3	SYMP 4	SYMP 5	SYMP 6	SYMP7: PAS	SYMP 8: CFD & FSI	SYMP 9: ORE	SYMP 10: OG	SYMP 11: PT	SYMP 12: PL
Session Name							7-2-1 Ships in ice/Ship-ice interaction					
Session Chair							Marc Cahay, marc.cahay@technipfmc.com					
Session Co-Chair							Walter Kuehnlein, wk@a2o.xyz					
Paper #1							OMAE2020-18023	Quentin Hisette: Methodology to Investigate the Icebreaking Process of Ships With Non-Typical Icebreaking Bow Shapes				
Paper #2							OMAE2020-18025	Jonas Ringsberg: Safe and Fuel-Efficient Voyage Planning for the Northeast Passage by Combining Reliable Ship Performance, Weather				
Paper #3							OMAE2020-18031	Sören Ehlers: Simulation of Ship-Ice Interaction in Level Ice				
Paper #4							OMAE2020-18131	Marc Cahay: Influence of Ice Floe Shape and Distribution on Ship Resistance				
Paper #5							OMAE2020-18667	Jonas Behnen: A Discrete Element Model for Brash Ice Simulations				
Paper #6							OMAE2020-18728	Rob Hindley: Dimensioning of Rudder Systems for Ice Class Ships				
Paper #7							OMAE2020-18808	Nabil Panchi: Do Vessels Remain Within Their Operational Limitations in Ice? Analyzing the Risks of Vessels Operating in the Kara Sea				
Paper #8							OMAE2020-19178	Johanna Marie: Impact of Forced Roll Motion on the Ice Resistance of Modern Icebreaking Bow Geometries				
Paper #9							OMAE2020-19294	Luofeng Huang: Ship Resistance When Operating in Floating Ice Floes: A Derivation of Empirical Equations				
Paper #10							OMAE2020-18103	Kurt Wurthmann: Using Isotropic and Anisotropic Models to Determine Solar Module Tilt to Maximize Incident Energy and Pv Electricity				
Paper #11							OMAE2020-19290	Mike Paulin: The Status of Arctic Offshore Pipeline Standards and Technology				

Symposium 8: CFD & Fluid-Structure Interacton (FSI)

OMAE 2020 Paper Live Q&A Session Grid Symp-8

Monday 13:30 - 14:30 EDT - Q&A 1.1

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-5-1 Internal Flows	
Session Chair	Narakorn Srinil	
Session Co-Chair	Madhusuden Agrawal	
Paper #1	OMAE2020-18034	Bowen Ma, Experiment on the Effect of Superficial Gas-Liquid Velocities on Slug Flow-Induced Vibration in an Inclined Sagged Riser
Paper #2	OMAE2020-18162	Ruinan Lin, Experimental Investigation of Flow-Induced Vibration in Gas/shear-Thinning Liquid Flows in Vertical Pipe
Paper #3	OMAE2020-18620	Matthieu Minguez, Experimental and Numerical Assessment of Both Slug and Vortex Induced Vibrations on a Spool Model
Paper #4	OMAE2020-18684	Guang Yin, Numerical Simulations of Turbulent Flow Through an Orifice Plate in a Pipe
Paper #5	OMAE2020-18760	Paul Emmerson, Multiphase Flow Induced Vibration Analysis of Topside Piping at High Pressure

Tuesday 13:30 - 14:30 EDT - Q&A 2.1

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-1-1 Ship & Floating Systems	
Session Chair	Steve Cosgrove	
Session Co-Chair	Samuel holmes	
Paper #1	OMAE2020-18030	Mohd Atif Siddiqui, Analysis of Open-Source CFD Tools for Simulating Complex Hydrodynamic Problems
Paper #2	OMAE2020-18412	Kenshiro Takahashi and Prasanta K. Sahoo, Numerical Study on the Hydrodynamic Performance of the DARPA Suboff Submarine for Steady Translation
Paper #3	OMAE2020-18755	Nicholas Husser, An Uncertainty Evaluation of Different Fidelity Methods to Predict Ship Motions and Structural Loading in Waves
Paper #4	OMAE2020-19338	Brecht Devolder, Roll Damping Simulations of an Offshore Heavy Lift DP3 Installation Vessel Using the CFD Toolbox OpenFOAM

Wednesday 13:30 - 14:30 EDT - Q&A 3.1

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-3-1 Advance Computation	
Session Chair	Guilherme Vaz	
Session Co-Chair		
Paper #1	OMAE2020-18285	Nicholas Tavouktsoglou, Application of Two Phase Eulerian Cfd Model to Simulate High Velocity Jet Induced Scour
Paper #2	OMAE2020-18560	Rajeev Kumar Jaiman, Vortex-Induced Vibration of a Spherical Body With Free Surface Effects: Application to Tugboats With Low Length-to-Beam Ratio
Paper #3	OMAE2020-18752	Luis Eca, Assessing Rans Numerical and Modelling Properties in the Simulation of the Flow Around Fixed and Moving Cylinders
Paper #4	OMAE2020-18867	Chunlin Wu, Turbulent Flow Past a 3-D Hydrofoil Predicted by a Distributed Vorticity Method
Paper #5	OMAE2020-18970	Hakun Jang, Effect of Sinusoidal Oscillatory Flow on a Vertical Wall-Mounted Cylinder

Thursday 13:30 - 14:30 EDT - Q&A 4.1

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-2-1 Free Surface Flows	
Session Chair	Hans Bihs	
Session Co-Chair		
Paper #1	OMAE2020-18160	Csaba Pakozdi, Representation of Breaking Wave Kinematics in the Fully Nonlinear Potential Flow Model Reef3d::fnpf
Paper #2	OMAE2020-18359	Taiga Kanehira, Numerical Recreation of the Draupner Wave in Crossing Wave Systems Using Smoothed Particle Hydrodynamics
Paper #3	OMAE2020-18645	Kristjan Tabri, Free Fall Water Entry of a Two-Dimensional Asymmetric Wedge in Oblique Slamming: A Numerical Study
Paper #4	OMAE2020-18870	Wen-Huai Tsao, Local Study of Jet of a Fluid Sloshing Inside a Rolling Tank
Paper #5	OMAE2020-19019	John Gilbert, Validating a Coupled Sph-Fem Solver for Modeling Surface Effect Ship (Ses) Bow Seal Dynamics
Paper #6	OMAE2020-19305	Finn-Christian Wickmann Hanssen, A Coupled Harmonic Polynomial Cell and Higher-Order Spectral Method for Nonlinear Wave Propagation

Thursday 15:00 - 16:00 EDT - Q&A 4.2

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-4-1 Risers, Pipelines & VIV	
Session Chair	Mike Tognarelli	
Session Co-Chair	Michael Ge	
Paper #1	OMAE2020-18759	Jie Wu, Time Domain Viv Analysis Tool Vivana-Td: Validations and Improvements
Paper #2	OMAE2020-18161	Pierre-Adrien Opinel, Laboratory Experiment of Two-Degree-of-Freedom Vortex-Induced Vibrations of Circular Cylinder in Regular Waves
Paper #3	OMAE2020-18329	Robert Zueck, Fluid Drag With and Without Induced Vibrations
Paper #4	OMAE2020-18596	Prethiv Kumar, Experimental Investigation of Vortex Induced Vibration of Cross Flow Response for a Flexible Riser Under Uniform Current
Paper #5	OMAE2020-19142	Ningyu Li, Numerical Simulation and Experiments of Flow-Induced Oscillations of Single-Cylinder With Large Passive Turbulence Control
Paper #6	OMAE2020-18075	Danilo Boulhosa Vizeu Lima, Two-Dimensional Oscillatory Flow Simulation Around Circular Cylinders at High Rn-Kc Range
Paper #7	OMAE2020-18683	Marek Janocha, Modal Analysis of Wake Structures of Vibrating Piggyback Cylinders
Paper #8	OMAE2020-18915	Marcelo Damasceno, Using Kriging Surrogate Models to Predict the Vibration Responses of a Submerged Riser
Paper #9	OMAE2020-18180	Juan P. Pontaza, Flow-Induced Vibration Screening of a Thermoplastic Composite Pipe Water Injection Jumper

Friday 9:00 - 10:00 EDT - Q&A 5.1

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-1-2 Ship & Floating Systems	
Session Chair	Steve Cosgrove	
Session Co-Chair	Samuel holmes	
Paper #1	OMAE2020-18009	Rodolfo T. Gonçalves, Experimental Study of the Effect of the Pontoon Dimensions on the Flow-Induced Motions of a Semi-Submersible w/ 4 Square Columns
Paper #2	OMAE2020-18236	Yan-Yun Zhang, RANS Simulation of the Flow Around a Ship Advancing in Shallow Water
Paper #3	OMAE2020-18425	Azim Hosseini, Performance Prediction of Hard-Chine Planing Hulls Using Different CFD Models
Paper #4	OMAE2020-18511	Yosuke Toyoda, Column Interference Effect of Multi-Column Floating Structures on Vortex-Induced Motion Using Numerical Prediction Model
Paper #5	OMAE2020-18693	Pengfei Zhi, Numerical Investigation of Heaving Hydrodynamic Behavior of a Single Cylinder and a Dual Coaxial-Cylinder System Using CFD
Paper #6	OMAE2020-19014	Shuang Wang, An Investigation Into KCS Parametric Rolling Through Coupling Different DOFs
Paper #7	OMAE2020-19093	Li Zhang, Verification and Validation of CFD Uncertainty Analysis Based on SST K-ω Model
Paper #8	OMAE2020-19124	Baoyu Ni, Study on Ship Resistance Performance in Brash Ice Area Based on CFD-DEM Coupling Model

Friday 10:30 - 11:30 EDT - Q&A 5.2

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-3-2 Advance Computation	
Session Chair	Guilherme Vaz	
Session Co-Chair		
Paper #1	OMAE2020-18083	Xuehua Chen, Numerical Study on the Resistance and Sinkage of Inland Vessels Passing Through Navigable Tunnel
Paper #2	OMAE2020-18086	Decheng Wan, Numerical Simulation of Three-Layer-Liquid Sloshing by Multiphase Mps-Gpu Method
Paper #3	OMAE2020-18088	Decheng Wan, Numerical Study of Air-Layer Drag Reduction on a Plate With Different Kinds of Cavity Design
Paper #4	OMAE2020-18431	Takeharu Fujisawa, Study on Estimation of Flow Around Marine Propeller by Large-Scale Les and Affection of Grid Resolution and Reynolds Number
Paper #5	OMAE2020-18556	Sandeep Reddy Bukka, Deep Convolutional Recurrent Autoencoders for Flow Field Prediction
Paper #6	OMAE2020-18557	Hoang Huy Nguyen, Reduced Order Model for Simulations of Flows With Moving Objects and Turbulence
Paper #7	OMAE2020-19256	Xia Wu, The Study on Flow Past a Static Hydrofoil Using Deep Neural Network

Friday 10:30 - 11:30 EDT - Q&A 5.2

SYMPOSIUM	SYMP 8: CFD & FSI	
Session Name	8-4-2 Risers, Pipelines & VIV	
Session Chair	Mike Tognarelli	
Session Co-Chair	Dhyan Deka	
Paper #1	OMAE2020-18085	Decheng Wan, Thick Strip Model for Vortex-Induced Vibration of Two Flexible Cylinders in Tandem Arrangements
Paper #2	OMAE2020-18378	Dan Tang, Study on the Suppression of Vortex Induce Oscillation of Cylinder by Forward Jets
Paper #3	OMAE2020-18402	Mengmeng Zhang, Experimental Investigation on Viv Responses of Dual Pipe With Different Diameters Under Uniform Flow
Paper #4	OMAE2020-18591	Dipanjan Karanjai, Experimental and Numerical Investigation on Vortex Induced Vibration Response of a Flexible Slender Cylinder Subjected to Sheared Flow.
Paper #5	OMAE2020-19310	Hongyi Jiang, Numerical Modeling of Turbulent Wall-Bounded Oscillatory Flow and Its Effect on Small-Diameter Pipelines
Paper #6	OMAE2020-18073	Chao Wang, Numerical Simulation of Flow Past a Transversely Oscillating Cylinder
Paper #7	OMAE2020-18583	Huaicheng Wang, Direct Numerical Simulations on the Flow Normal to A Plate with Transit Shape from Circular Disk to Triangle

Symposium #9: Ocean Renewable Energy

Monday 13:30 - 14:30

SYMPOSIUM	SYMP 9: ORE	Authors	Title	Authors
Session Name	9-1-1: Wind Energy 1: Moorings and VAWT			
Session Chair	**Matthew Hall**			
Session Co-Chair	**Nhu Nguyen**			
Paper #1	OMAE2020-18358	SU, JIE	Swept Blade for Performance Improvement on a Vertical Axis Wind Turbine	
Paper #2	OMAE2020-18353	REN, YAJUN	Dynamic Responses of Spar Type Floating Offshore Wind Turbine Under Mooring Failure Conditions	
Paper #3	OMAE2020-18772	Connaire, Adrian	Methodology for Mitigation of Armour Wire Bird Caging in Offshore Wind Export Cables	
Paper #4	OMAE2020-18467	Liang, Guodong	Modelling of a Shared Mooring System for a Dual-Spar Configuration	
Paper #5	OMAE2020-18365	Li, Jiawen	Mooring Design for a Semisubmersible Floating Wind Turbine at an Intermediate Water Depth	
Paper #6	OMAE2020-18798	Guignier, Lucie	Design of Dynamic High Voltage Cables for Floating Substation	
Paper #7	OMAE2020-19257	Nguyen, Nhu	Development of a Numerical Dynamic Mooring Model for Visco-Elastic and Visco-Plastic Deformation of Synthetic Ropes	
Paper #8	OMAE2020-19224	MacNicoll, Michael	Reduction in Mooring System Lifetime Due to Coupled Fatigue and Corrosion Mechanisms	
Paper #9	OMAE2020-19341	Hall, Matthew	Moordyn V2: New Capabilities in Mooring System Components and Load Cases	
Paper #10	OMAE2020-19148	Shadman, Milad	Offshore Wind Powered Oil and Gas Fields: A Preliminary Investigation of the Techno-Economic Viability for the Offshore Rio De Janeiro, Brazil	

Monday 15:00 - 16:00

SYMPOSIUM	SYMP 9: ORE			
Session Name	9-2-2: Wave Energy 1: OWC& other WEC designs			
Session Chair	**Yu-Yi-Hsiang**			
Session Co-Chair	Sheng, Xu			
Paper #1	OMAE2020-18176	Mendes, Antonio	Wavetank Tests With a 1:20 Scale Model of a Distensible Tube Device for Wave Power Harnessing in the Azores	
Paper #2	OMAE2020-18553	Afonja, Adetoso	Dynamic Response of a Wave Energy Converter With Resonant U-Tank	
Paper #3	OMAE2020-18839	Sheng, Xu	EXPERIMENTAL STUDY OF THE PERFORMANCE OF A COMPACT MOORING SYSTEM FOR A DUAL CHAMBER FLOATING OSCILLATING WATER COL	
Paper #4	OMAE2020-19172	Iino, Mitsumasa	Estimation of Cumulative Output Energy of Oscillating Water Column Wave Energy Converter Considering Power Take Off Damping	
Paper #5	OMAE2020-19128	Davidson, Josh	Blowing the Top on Parametric Resonance - Relief Valve Control for the Stabilisation of an Owc Spar Buoy	
Paper #6	OMAE2020-18106	CHIBA, SEIKI	Investigation of a Novel Wave Energy Generator Using Dielectric Elastomer	
Paper #7	OMAE2020-18464	CHIBA, SEIKI	Possibilities for a Novel Wave Power Generator Using Dielectric Elastomer （High Efficiency Artificial Muscle Generator Becoming Feasible）	
Paper #8	OMAE2020-18427	Tan, Jian	The Fair Evaluation of Typical Types of Wave Energy Converters	
Paper #9	OMAE2020-19029	Peng, Wei	Experimental Investigation on Hydrodynamic Effectiveness of a Wave Energy Converter Using Floating Breakwater	
Paper #10				

Tuesday 13:30 - 14:30

SYMPOSIUM	SYMP 9: ORE			
Session Name	9-1-2: Wind Energy 2: Control systems			
Session Chair	**Alan Wright**			
Session Co-Chair	**Matthew Hall**			
Paper #1	OMAE2020-18549	Hara, Naoyuki	State Estimator for Floating Offshore Wind Turbines and Performance Evaluation	
Paper #2	OMAE2020-18770	Lenfest, Eben	Tuning of Nacelle Feedback Gains for Floating Wind Turbine Controllers Using a 2dof Model	
Paper #3	OMAE2020-18405	ZHAO, SHILUN	Dynamic Load Analysis of Tower Structure of Floating Wind Turbine Under Random Wind and Wave Excitation	
Paper #4	OMAE2020-18946	Louazel, Pauline	Impact of a Wind Turbine Blade Pitch Rate on a Floating Wind Turbine Substructure During an Emergency Shutdown	
Paper #5	OMAE2020-18380	Wang, Wenhua	Vibration Control of a Jacket Offshore Wind Turbine Under Earthquake Wind and Wave Loads by Multiple Tuned Mass Damper	
Paper #6	OMAE2020-18391	Zhao, Zhixin	Structural Control of the Ultra-Large Semi-Submersible Floating Offshore Wind Turbine	
Paper #7	OMAE2020-18954	Jose, Alwin	Jump Bifurcation Phenomenon During Varying Wind Speeds in Floating Offshore Wind Turbines	
Paper #8				
Paper #9				
Paper #10				

Tuesday 15:00 - 16:00

SYMPOSIUM	SYMP 9: ORE			
Session Name	9-2-2: Wave energy 2: CFD & numerical methods			

Session Chair	Nathan Tom			
Session Co-Chair	Narasimman, Sasikala			
Paper #1	OMAE2020-18424	Jiang, Changqing	Motion Decay Simulations of a Moored Wave Energy Converter	
Paper #2	OMAE2020-18059	Narasimman, Sasikala	3d Sph Simulation of Wave Interaction Between Wecs: Towards Optimum Wave Power Absorption in Wave Farms	
Paper #3	OMAE2020-18440	Mayon, Robert	A Nonlinear Dual-Phase Numerical Model Investigate the Efficiency Response of Varied Owc Chamber Geometries	
Paper #4	OMAE2020-18392	Koo, Weoncheol	Nonlinear Time-Domain Simulation of the Heaving-Buoy Type Wave Energy Converter by Using Three-Dimensional Potential Numerical Wave T	
Paper #5	OMAE2020-18802	Zou, Shangyan	Hydrodynamic Analysis of Variable-Shape Wave Energy Converters	
Paper #6	OMAE2020-18865	DO, Ninh (Vincent)	Data-Based Approach to Optimizing the Ocean Wave Energy Carpet Using Deep Neural Network	
Paper #7	OMAE2020-18510	Silva, Leandro	Nonlinear Analysis of an Oscillating Wave Surge Converter in Frequency Domain via Statistical Linearization	
Paper #8	OMAE2020-19054	Tom, Nathan	Numerical Model Development of an Attenuator Wec With Variable Geometry	
Paper #9	OMAE2020-19069	Chandrasekaran, Srini	Analysis of a Floating Wave Energy Converter With Hydraulic-Mechanical Power Take Off Using Wec-Sim and Simscape	
Paper #10	OMAE2020-19255	Forbush, Dominic	Development and Validation of Passive Yaw in the Open-Source Wec-Sim Code	

Wednesday 13:30 - 14:30

SYMPOSIUM	**SYMP 9: ORE**			
Session Name	9-1-3: Wind Energy 3: Hydrodynamics			
Session Chair	Pegalajar-Jurado, Antonio			
Session Co-Chair	Souto-Iglesias, Antonio			
Paper #1	OMAE2020-18185	Jiang, Yichen	Influence of Frustum Shape Column of Floating Offshore Wind Turbine on Reducing Vertical-Plane Motions	
Paper #2	OMAE2020-18239	Carmo, Lucas	Analysis of a Fowt Model in Bichromatic Waves: An Investigation on the Effect of Combined Wave-Frequency and Slow Motions on the Calibrat	
Paper #3	OMAE2020-18252	Chujo, Toshiki	Study on the Consideration Method of Damage Stability Criteria Corresponding to Iec Iec 61400-3-2 for Floating Offshore Wind Turbine	
Paper #4	OMAE2020-19339	Clodic, Gaël	Hull Shape Optimization of an Energy Ship for Far-Offshore Wind Energy Conversion	
Paper #5	OMAE2020-18910	Pegalajar-Jurado, Ant	Accelerated Hydrodynamic Analysis for Spar Buoys With Second-Order Wave Excitation	
Paper #6	OMAE2020-18679	Souto-Iglesias, Antoni	Scale Effects in Heave-Plates: Piv Investigation	
Paper #7	OMAE2020-18013	Pétrié, François	Experimental and Numerical Study of the Influence of Drag Coefficient on Snap Loads in Mooring Lines of a Floating Offshore Wind Turbine	
Paper #8	OMAE2020-18076	Pétrié, François	On the Real Time Hybrid Modelling of Floating Offshore Wind Turbine Using Ducted Fan(s)	
Paper #9	OMAE2020-19020	Wright, Christopher	Experimental Identification of an Advanced Spar's Low Frequency Drag Damping in Waves	
Paper #10				

Wednesday 15:00 - 16:00

SYMPOSIUM	**SYMP 9: ORE**			
Session Name	9-2-3: Wave Energy 3: Control and Arrays			
Session Chair	Masoud Hayatdavoodi			
Session Co-Chair	Malara, Giovanni			
Paper #1	OMAE2020-18156	Anderlini, Enrico	Towards Real-Time Reinforcement Learning Control of a Wave Energy Converter	
Paper #2	OMAE2020-18669	Tona, Paolino	Experimental Assessment of the Ifpen Solution to the Wec Control Competition	
Paper #3	OMAE2020-18961	Karayaka, Bora	Investigating the Impact of Pto System Parameters and Control Law on a Rotational Wec's Peak-to Average Power Ratio Reduction	
Paper #4	OMAE2020-19156	Song, Jiajun	Genetic Optimization of Shape and Control of Nonlinear Wave Energy Converters	
Paper #5	OMAE2020-19306	Malara, Giovanni	Efficient Nonlinear Response Determination of an Array of Owc Energy Harvesters	
Paper #6	OMAE2020-18554	Kim, Jeongrok	Heave Motion Performance of Multiple Wave Energy Converters Arrayed in a Water Channel Resonator	
Paper #7	OMAE2020-19155	Lyu, Jianyang	Optimization of Both the Layout of an Array and the Buoy Dimension for Two Types of Arrays	
Paper #8	OMAE2020-19266	Sergiienko, Nataliia	Design Optimisation of a Multi-Mode Wave Energy Converter	
Paper #9				
Paper #10				

Thursday 13:30 - 14:30

SYMPOSIUM	**SYMP 9: ORE**		\	
Session Name	Wind Energy 3: Aerodynamics and numerical analysis			
Session Chair	Gulherme Vaz			
Session Co-Chair	Herbjorn Haslum			
Paper #1	OMAE2020-18084	Wan, Decheng	Numerical Analysis of Aeroelastic Responses of Wind Turbine Under Shear Inflow	
Paper #2	OMAE2020-18087	Wan, Decheng	Numerical Study of Yawed Wind Turbine Under Unstable Atmospheric Boundary Layer Flows	
Paper #3	OMAE2020-18173	Verma, Amrit	Leading Edge Erosion of Wind Turbine Blades: Effects of Environmental Parameters on Impact Velocities and Erosion Damage Rate	
Paper #4	OMAE2020-18273	Haslum, Herbjørn	Aerodynamic Roll-Yaw Instabilities of Floating Offshore Wind Turbines	

Paper #5	OMAE2020-18233	Nelson, Bryan	Real-Time Load Assessment of Wind Turbine Support Structures in an Offshore Wind Farm	
Paper #6	OMAE2020-18610	Choisnet, Thomas	On the Correlation Between Floating Wind Turbine Accelerations, Rotor and Tower Loads	
Paper #7	OMAE2020-18710	Ahn, Hyeonjeong	Development of a 10 Megawatt Semisubmersible Type Floating Offshore Wind Turbine for the East Sea, Korea	
Paper #8	OMAE2020-18889	Araujo, Eloi	Evaluation of a Hybrid Representation to Model the Wind Turbine, Platform and Mooring Lines in the Analysis of Floating Offshore Wind Turbin	
Paper #9	OMAE2020-18913	Vaz, Guilherme	High-Fidelity Modelling of Floating Offshore Wind Turbine Platforms	
Paper #10				

Thursday 15:00 - 16:00

SYMPOSIUM	**SYMP 9: ORE**			**SYMP 11: PT**
Session Name	9-3-1: Tidal energy 1: Numerical models			
Session Chair	**Hai Sun**			
Session Co-Chair	Vengatesan Venugopal			
Paper #1	OMAE2020-19298	Venugopal, Vengatesa	Modelling Wave-Current-Turbulence Interactions for Tidal Energy Applications	
Paper #2	OMAE2020-18473	Sun, Hai	Modeling of a Hydrokinetic Energy Converter With Two Tandem Cylinders in Flow-Induced Oscillations	
Paper #3	OMAE2020-18514	ZHAO, Ruiwen	Numerical Modelling of a Vertical-Axis Cross-Flow Tidal Turbine	
Paper #4	OMAE2020-19120	Sun, Hai	Hydrokinetic Energy Conversion by Flow-Induced Oscillation of Two Tandem-Cylinders of Different Stiffness	
Paper #5	OMAE2020-18894	Kazemi, Amirkhosro	Energy Harvesting From the Tidal Currents Using a Mangrove-Like System	
Paper #6	OMAE2020-18701	Draycott, Samuel	Tidal Turbine Load Variability in Following and Opposing Irregular Wave Conditions	
Paper #7	OMAE2020-18221	Yan, Xuhua	Investigation Into Tidal Current Turbine System Faults and Fault Tolerant Control Strategies	
Paper #8	OMAE2020-18830	Ortega Malca, Arturo	Variable Speed Torque Control of a Laboratory Scale Hydrokinetic Tidal Turbine - Cfd Simulation and Validation	
Paper #9	OMAE2020-19109	LI, QIAN	Combined Wave-Current-Turbulent Flow Environments Generation for Tidal Turbine Design	
Paper #10				

Friday 9:00 - 10:00

SYMPOSIUM			
Session Name	9-2-4: Wave energy 4: Fatigue analysis		
Session Chair	**Yu, Yi-Hsiang**		
Session Co-Chair	Winter, Andrew		
Paper #1	OMAE2020-18639	Katsidoniotaki, Eirini	Loads on a Point Absorber Wave Energy Converter in Regular and Focused Extreme Wave Events
Paper #2	OMAE2020-18819	Sheng, Xu	Experimental Investigation on a Point Absorber Moored by Taut Mooring System and Mooring Fatigue Analysis
Paper #3	OMAE2020-18879	Yu, Yi-Hsiang	Umbilical Fatigue Analysis for a Wave Energy Converter
Paper #4	OMAE2020-19145	Winter, Andrew	Development of a Hydro-Elastic Fluid-Structure Interaction Model of an Oscillating Wave Surge Converter Using Openfoam
Paper #5	OMAE2020-18706	Yang, Can	Hydrodynamic Investigation of a Dual-Cylindrical Owc Wave Energy Converter Integrated Into a Fixed Caisson Breakwater
Paper #6	OMAE2020-18187	Xie, Li-Quan	Energy Harvesting in a Coastal Resonant Reservoir
Paper #7			
Paper #8			
Paper #9			
Paper #10			

Friday 10:30 - 11:30

SYMPOSIUM			
Session Name	9-1-4: Wind Energy 4: Structural design, O&M		
Session Chair	Marc Cahay		
Session Co-Chair	**Amrit Verma**		
Paper #1	OMAE2020-18516	Anderlini, Enrico	Towards Real-Time Reinforcement Learning Control of a Wave Energy Converter
Paper #2	OMAE2020-19052	Richmond, Mark	Impact of Accelerometer Placement on Modal Extraction of Offshore Wind Structures
Paper #3	OMAE2020-19340	Chuang, Zhenju	Dynamic Response of Jacket-Support Offshore Wind Turbine Under Ice Crushing Load
Paper #4	OMAE2020-18174	Milano, Daniel	Numerical Prototyping of Floating Offshore Wind Turbines: Virtual Operation in Real Environmental Conditions
Paper #5	OMAE2020-18371	Karamanos, Spyros	Structural Design of a Floating Offshore Steel Platform for Wind/wave Energy Production
Paper #6	OMAE2020-18404	Zuntao, Feng	Lifting Technique of Composite Bucket Foundation for Offshore Wind Turbine
Paper #7	OMAE2020-18935	Sander, Aljoscha	Relative Motion During Single Blade Installation: Measurements From the North Sea
Paper #8	OMAE2020-19166	Xu, Jiafeng	Virtual Prototyping of a Low-Height Lifting System for Offshore Wind Turbine Installation
Paper #9	OMAE2020-19095	Ibrahim, Ibrahim	Application of Renewable Energy for Maritime Development
Paper #10			