



ASME® 2021 IOWTC

Preliminary Program

Start	Finish	Tuesday, February 16, 2021		
8:00AM	8:45AM	Welcome Keynote by Prof. Mario Garcia-Sanz Talk Title		
8:45AM	9:00AM	Break		
9:00AM	9:50AM	Session Title	Session Description	Presenter
		Session: FOWT's Performance Presentations on different type of floaters, focusing on global performance		
		IOWTC2020-3503	A Reduced Order Mathematical Model for the Current-Induced Motion of a Floating Offshore Wind Turbine	Éverton L. de Oliveira
		IOWTC2020-3536	Modeling the Dynamics of Freely-Floating Offshore Wind Turbine Subjected to Waves With an Open-Source Overset Mesh Method	Romain Pinguet
		IOWTC2020-3501	Numerical Research on the Interaction of Multidirectional Random Waves With a Large-Scale Offshore Wind Turbine Foundation	Xinran Ji
		IOWTC2020-3511	Study of Motion Performance of a Floating System With Four Moonpools and Twin Vawts	TAN Lei
		IOWTC2020-3561	Concept for a Wind-Yawing Shallow-Draft Floating Turbine	Jim Papadopoulos
9:50AM	10:00AM	Break		
10:00AM	10:50AM	Session: Aero-Hydro and Model tests Presentations focusing on aero-hydro dynamics modeling and performance, including model testing.		
		IOWTC2020-3537	Investigation of Nonlinear Difference-Frequency Wave Excitation on a Semisubmersible Offshore-Wind Platform With Bichromatic-Wave Cfd Simulations	Lu Wang
		IOWTC2020-3558	Verification Study on Cfd Simulation of Semi-Submersible Floating Offshore Wind Turbine Under Regular Waves	Yu Wang
		IOWTC2020-3515	A Cfd Study for Floating Offshore Wind Turbine Aerodynamics in Turbulent Inflow	Yang Zhou
		IOWTC2020-3508	Experimental Validation of a Wave Elevation Observer on a Floating Wind Turbine Model	Di Carlo, Simone
		IOWTC2020-3542 *	<i>The Focal Experimental Program</i>	<i>Robertson, Amy</i>
10:50AM	11:00AM	Break		
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11:00AM	11:50AM	Session: Mooring and Cable Systems		
		Presentations focusing on the mooring and cable systems of a FOWT		
		IOWTC2020-3553	Mooring Fatigue Verification of the Windcrete for a 15 Mw Wind Turbine	Trubat, Pau
		IOWTC2020-3565	Implementation and Verification of Cable Bending Stiffness in Moordyn	Matthew Hall
		IOWTC2020-3524	Prevention of Offshore Wind Power Cable Incidents by Employing Offshore Oil/gas Common Practices	David McLaurin
		IOWTC2020-3546	Integrated Numerical Model and Coupled Dynamic Analysis of a New Hybrid Braceless Semisubmersible Fowt Platform Combined With Flap Type Wec Under Metoceon Condition	Atul Krishna Banik
		IOWTC2020-3510 *	<i>Parametric Study of a Shallow Water Mooring System for a Floating Wind Turbine in Offshore Taiwan</i>	<i>Chuang, Tzu-Ching</i>
End of Day 1				
All Times Eastern Standard				

Wednesday, February 17, 2021				
8:00AM	8:45AM	Welcome Keynote by Dr. Leif Delp "Executing large scale commercial floating offshore wind projects"		
8:45AM	9:00AM	Break		
9:00AM	9:50AM	Session Title	Session Description	Presenter
		Session: Turbine design and modeling		
		Presentations focusing on the design and performance of wind Turbines		
		IOWTC2020-3527	Wind Turbine Anomaly Detection Based on Bi-Directional Long Short-Term Memory Neural Network	Gryllias, Konstantinos
		IOWTC2020-3518	Numerical Design of a Floating Offshore Wind Turbine Large Scale Model for Control Purposes	Taruffi, Federico
		IOWTC2020-3516	Simplified Aerodynamic Loading Model for Idling and Parked Conditions for Floating Wind Systems Design	Armando Alexandre
		IOWTC2020-3533	Functional Requirements for the Weis Toolset to Enable Controls Co-Design of Floating Offshore Wind Turbines	Jason Jonkman
IOWTC2020-3522	Evaluation of Deep-Water Floating Wind Turbine to Power an Isolated Water Injection System	Salles, Mauricio		



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		IOWTC2020-3567	Performance Analysis of Tachless Rotation Speed Estimation Methods for Condition Monitoring of Gearboxes of Offshore Wind Farm	Peeters, Cédric
9:50AM	10:00AM	Break		
10:00AM	10:50AM	Session: Structural Design Presentations focusing on the structural aspects of FOWTS		
		IOWTC2020-3532	A Multi-Dimensional Approach for Determination of Stress Concentration Factors in Offshore Jacket Structures	Kris Hectors
		IOWTC2020-3552	A Comparison of Time Domain Seismic Analysis Methods for Offshore Wind Turbine Support Structures: Superelement Approach Versus Integrated Approach	William Collier
		IOWTC2020-3554	Scour Effects on the Structural Integrity of Offshore Wind Turbine Monopiles	George E. Varelis
		IOWTC2020-3505 *	Effect of the Swell on the Dynamic Response of a Floating Wind Turbine Under the Extreme Sea State	Kim, Eungsoo
		IOWTC2020-3531 *	<i>Digifloat:</i>	<i>Bruce Martins</i>
10:50AM	11:00AM	Break		
11:00AM	11:50AM	Session: Design basis requirements Presentations focusing on the inputs to the design of FOWTS		
		IOWTC2020-3545	Investigation of the Capacity Factor of Weather-Routed Energy Ships Deployed in the Near-Shore	Roshamida Binti Abd Jamil
		IOWTC2020-3547	Noaa-Cfsr Offshore Wind Validation	Claudia Pizzigalli
		IOWTC2020-3564	Geo-Hazards to Floating Offshore Wind Farms in the U S Pacific Waters	Dr Tayebah Tajalli Bakhsh
		IOWTC2020-3539	Large-Scale Model Investigation for Monopile Decommissioning of Offshore Wind Turbines – Overpressure and Vibratory Pile Extraction	Nils Hinzmann
		IOWTC2020-3543 *	<i>Latest Updates to the Abs Floating Offshore Wind Turbine Guide</i>	<i>Yu, Qing</i>
<i>Note* Presentation only, no manuscript in proceedings</i>				
End of Day 2				
All Times Eastern Standard				