

Monday 8th September

WHM	Wave hydrodynamic modelling 1		ROOM 1
Chair: Gareth Thomas			
Time	ID	Title	Authors
14.00	700	Additional features in HAMS-MREL: a new open-source BIEM solver for offshore energy applications	Vaibhav Raghavan; Andrei Metrikine; George Lavidas
	704	Development of a Digital Twin for the Mutriku Oscillating Water Column Plant	Cristina Casal Escaloni; Álvaro Rodríguez Luis; Sergio Fernández Ruano; Raúl Guanche García; Jon Lekube; Endika Aldaiturriaga
	716	Variable-fidelity CFD modelling of horizontal-axis tidal turbines and arrays	Thomas Hogan; Kush Bubbar
	722	Numerical modelling of an undulating membrane tidal energy converter	Can Yang; An Hu; Liangyu Shen; Hailong Chen; Lars Johanning
	TBC	TBC	TBC
15.30	Coffee Break		
WHM	Wave hydrodynamic modelling 2		ROOM 1
Chair: Jørgen Hals Todalshaug			
16.00	699	Exploring the hydrodynamics of Mixed Wave Energy farms	Vaibhav Raghavan; Andrei Metrikine; George Lavidas
	725	Validation of Capytaine for Single-Body Hydrodynamic Modelling Using the SWELL Experimental Dataset	Andreas Asiikkis; Dimokratis Grigoriadis; Antonis Vakis
	746	A data-driven approach leveraging multi-fidelity datasets for modeling arrays of wave energy converters	Charitini Stavropoulou; Nicolás Faedo; Malin Göteman
	764	An experimental study of the forces on vertical cylinders for an offshore floating photovoltaic energy structure	Oier Peña Vega; Urko Izquierdo Ereño; Iñigo Albaina Lopez de Armentia; Gustavo Adolfo Esteban Alcalá; Iñigo Bidaguren Diego; Iñigo Mendikoa Alonso; Maxim Finenko; Jesús Maria Blanco Ilzarbe
17.30	TBC	TBC	TBC

WRC		Wave resource characterization 1		ROOM 2	
Chair: Diego Vicinanza					
Time	ID	Title		Authors	
14.00	765	Automated WEC Metocean design basis from ResourceCode data		Remy Pascal; Bernardo Kahn; Maxime Chenimeau	
	811	Assessing the Impact of Storms on Offshore ScotWind Assets: An Analysis of Frequency and Intensity Trends Across Scotland's Growing Renewable Frontier		John-Luke McWhirter; Bahareh Kamranzad; Paul Evans; Matt Lewis	
	903	Advancing Wave Resource Assessment: The Mutriku OWC Case Study – MAR+ Project		Eva Romano-Moreno; Cristina Casal; Antonio Tomás; Gabriel Díaz-Hernández; Raul Guanche; Jon Lekube; Endika Aldaiturriaga; Laura Zubiate; Yago Torre-Enciso	
	956	Wave Energy Resource and Complementarity with Wind and Solar for Madeira – Calculating the Optimal 100% Renewable Mix		Eva Romano-Moreno; Cristina Casal; Antonio Tomás; Gabriel Díaz-Hernández; Raul Guanche; Jon Lekube; Endika Aldaiturriaga; Laura Zubiate; Yago Torre-Enciso	
	TBC	TBC		TBC	
15.30	Coffee Break				
ESP	Supply chain, economic, social, legal and political aspects of ocean energy			ROOM 2	
Chair: Juan Portillo					
16.00	762	Techno-economic evaluation of high-TRL WECs in European Nearshore Areas		Manuel Alejandro Corrales González; Emiliano Gorr-Pozzi; Giuseppe Giorgi	
	788	The socio-economic benefits of tidal power to the European economy		Donald Noble; Kristofer Grattan; Henry Jeffrey	
	883	The role of patenting in emerging renewable energy technologies: the case of wave energy technology developmen		Carrie Anne Barry; Peter Conlon; John Ringwood	
	897	Evaluating the Cost and Schedule Risk of Tidal Energy Projects		Mike Bartlett	
17.30	1008	Development of a Supply Chain Competitiveness Framework to Support the European Ocean Energy Sector		Kristofer Grattan; Donald Noble; Henry Jeffrey	

TRC	Tidal resource characterization 1		ROOM 3
Chair: Cameron Johnstone			
Time	ID	Title	Authors
14.00	705	Remote Sensing Applications in Tidal Current Hotspot Mapping	Hellen Dianne Pereira de Souza; Hugo Rocha Mendonça; Shigeaki Leite de Lima
	838	Prediction of tidal currents in the Inner Sound of the Pentland Firth using RTide	Thomas Monahan; Tianning Tang; Stephen Roberts; Thomas Adcock
	845	Towards parametrized modeling of the current vertical structure during extreme events: application to Alderney Race.	Martin Goix; Anne-Claire Bennis; Musiedlak Pierre-Henri
	931	Quantifying the regional blockage effects of tidal arrays within multi-scale channel network models	Emils Brazovskis; Athanasios Angeloudis; Lindsay Beevers
	TBC	TBC	TBC
15.30	Coffee Break		
SMM	Structural mechanics: materials, fatigue, loadings 1		ROOM 3
Chair: Sergio Lopez Dubon			
16.00	723	A Helical Magnetic Torsion Spring for an Ocean Observation Buoy Wave Energy Converter	Jonathan Bird; Colton Bruce; Bert Dechant; Weston Baker; David Gibson; Alex Goglin; Sean Sevier
	757	Numerical Simulation of Adhesive-Free Glass Fibre Hydrofoil Structural Demonstrators under Flexural Bending	Yadong Jiang; Conor Kelly; Diarmuid Flatharta; Omid Sam-Daliri; Tomas Flanagan; Jamie Goggins; William Finnegan
	812	Advancements in Structural Testing and Life Predictions of Tidal Turbine Blades	TENIS RANJAN Munaweera Thanthirige; Michael Flanagan; Ciaran Kennedy; Jamie Goggins; William Finnegan
	815	Vortex Induced Strain of a Dynamic Power Cable in Lazy Wave Configuration under waves and currents	Venki Venugopal; Rameeza Moideen
17.30	924	Immersed composite materials testing for tidal turbines	Edward Fagan; Michael Walls; Michael Flanagan; Clement Courade; Jeffwin George; Patrick Cronin

THM	Tidal hydrodynamic modelling 1		ROOM 4
Chair: Francesco Salvatore			
Time	ID	Title	Authors
14.00	737	Modelling an Underwater Kite Array in the Faroe Islands	Paul Evans; Danny Coles
	759	Controlling tip vortices and cavitation with a grooved-tip design for tidal turbines	Yabin Liu; Junchen Tan; Ignazio Maria Viola
	847	Impact of Hydrodynamic Loads-Induced Blade Deflections on Tidal Turbine Performance	Martina Lomele; Amanda S. M. Smyth; Xiaosheng Chen; Richard H. J. Willden
	878	On the analysis of new sites for the future installation of floating tidal stream turbines	Stephanie Ordoñez-Sánchez
15.30	Coffee Break		
THM	Tidal hydrodynamic modelling 2		ROOM 4
Chair: Abel Arredondo-Galeana			
16.00	879	Benchmarking machine learning models for predicting aerofoil performance	Oliver Summerell; Gerardo Aragon-Camarasa; Stephanie Ordonez-Sanchez
	891	Combined optimization of the blade shape and operating point of a cross-flow tidal turbine for increased performance and reduced fatigue loadings	Karla Ruiz-Hussmann; Pierre-Luc Delafin; Cyrille Bonamy; Yves Delannoy; Stefan Hoerner; Dominique Thévenin
	900	A Parametric Analysis of Wave Effects on a Hydrokinetic Turbine Using Computational Fluid Dynamics	Yavar Mohammadi; Bradford Knight
	1046	Enabling dynamic positioning of floating tidal turbines in open regional-scale 3D hydrodynamic model	Raymond Lam; Chris Old; Brian Sellar
17.30	TBC	TBC	TBC