

Thursday 11th September			
WHM	Wave hydrodynamic modelling 6		ROOM 1
Chair: Jørgen Hals Todalshaug			
Time	ID	Title	Authors
9.00	1007	Effects of Inclination and Cross-Sectional Variations on Resonance Characteristics of Oscillating Water Columns	Aya Kanai; Mitsumasa Iino
	1029	One-way energy absorption in OWC chambers – passive vs. active venting	Harry Bradford Bingham; Robert Read; Bardur Joensen; Kim Nielsen
	1033	High-fidelity numerical modeling of a pneumatic PTO for floating oscillating water column devices	Beatrice Mina; Bonaventura Tagliafierro; Iván Martínez-Estévez; Giovanni Malara; Felice Arena; Alejandro JC Crespo; Moncho Gómez
	1067	Towards Efficient Learning of Neural Fluid ForceEstimators from CFD-Sampled Regular Waves	Antoine Dupuis; Salvatore Capasso; Bonaventura Tagliafierro; Malin Göteman; Jens Engström
	TBC		
10.30	Coffee Break		
WHM	Wave hydrodynamic modelling 7		ROOM 1
Chair: Alessandra Romolo			
11.00	1113	Automated Design Exploration of the TALOS Wave Energy Converter Using the TOP-WEC Framework	David Ogden; Salman Husain; George Aggidis; Wanan Sheng; Aidan Bharath; Jochem Weber
	1190	Comparing Numerical Models of a Floating Oscillating Water Column Wave Energy Converter	Jeff Grasberger; Jorge Leon-Quiroga; Mohamed Shabara; Markel Peñalba; Beatrice Fenu; Yeraí Peña-Sanchez
	1210	Analysis of Chamber's Fillet Geometry on OWC Power Capture Performance	CHEN-CHOU LIN; Yi-Chih Chow; K.-Y. Li; Duy Tong Nguyen
	1226	Generalising the performance of an optimised top-hinged WEC to irregular waves	Emma Edwards
	TBC		
12.30	Lunch Break		

WHM	Wave hydrodynamic modelling 8		ROOM 1
Chair: Gareth Thomas			
Time	ID	Title	Authors
14.00	951	A SIMPLIFIED APPROACH TO OPTIMIZE WAVE ATTENUATION FOR FLOATING ENERGY ISLANDS: THE ROLE OF FLAT PLATES	Sara Russo; Luis Daniel Luna Anguilar; Andrea Bardazzi; Diego Vicinanza; Claudio Lugni
	984	A study on wave energy converter arrays using data-driven polynomial chaos expansion	Avni Jain; Jian Tan; Vaibhav Raghavan; George Lavidas
	1057	Set-membership identification of an inertial wave energy system	Edoardo Pasta; Nicolas Faedo
	1064	Parametric modelling of radiation forces for marine offshore renewable energy systems: A Loewner based approach	Nicolás Faedo; Maria Luisa Celesti; Bruno Paduano
15.30	TBC		
THM	Electrical Generators 1		ROOM 2
Chair: Judith Apsley			
Time	ID	Title	Authors
9.00	925	Superconducting Linear Generators for Wave Energy Converters: A Novel Switched Reluctance Design with Optimized AC Loss Management. Marcos	Robert Ellis, Joshua Bowman, Matthew Allmark, Shanti Bhushan, David Thompson, Allan Mason-Jones, Tim O'Doherty
	933	Stand-alone system for Oscillating Water columns: Design and numerical simulation Margarida Galvão; Pedro Costa; Luís M. C. Gato; Ana A. D. Carrelhas	Mohammed A. Almoghayer and David K. Woolf
	1206	Modular electrical generator power take off system for wave - MEGA WAVE PTO Markus Mueller; Miguel Vicente; Paula Bastos; Ana Brito e Melo; Joseph Burchell;	Milo Feinberg, P´al Schmitt, James Donegan and Jarlath McEntee
	TBC		
	TBC		
10.30	Coffee Break		

SMM	Electrical Generators 2		ROOM 2
Chair: Markus Mueller			
11.00	839	Investigation of Novel Designs of Linear Generators Based on Transverse-Flux Machines for Wave Energy Conversion Systems	Oleksii Duniev; Andrii Yehorov; Andrii Masliennikov; Larysa Shylkova; Mario Stamann; Rupert Gouws; Oleksandr Dobzhanskyi
	934	Stand-alone system for Oscillating Water columns: Experimental testing and comparison with numerical model	Margarida Galvão; Pedro Costa; Luís M. C. Gato; Ana A. D. Carrelhas
	982	The MARES Project: Development of a New Wave Energy Power Take-Off Based on a Superconducting Switched Reluctance Machine	Luis Garcia-Tabares; Marcos Blanco; Gustavo Navarro; Javier Munilla; Luis Antonio Gonzalez; Carlos Hernando; Carlos Gil; Rafael Iturbe; Gustavo
	1211	DESIGN, CONSTRUCTION AND RESULTS OF A TEST SYSTEM OF REAL ELECTRICAL MACHINES TO BE USED IN WAVE ENERGY	Juan Luis Larrabe Barrena; Miguel Angel Gómez Solaetxe
	TBC		
12.30	Lunch Break		
WRC	Wave resource characterization 3		ROOM 2
Chair: Sara Russo			
Time	ID	Title	Authors
14.00	732	Wave Energy Potential in the Mediterranean: Insights from High-Resolution Satellite Altimetry, In-Situ Data and the ERA5 reanalysis	Sonia Ponce de Leon
	889	A machine learning model for 2D significant wave height forecasts around Scotland	Victoria Martí Barclay; Bahareh Kamranzad
	941	Analysis of Weather Windows and Impacts of Time to Repair on Device Availability at Two Wavepiston Deployment Sites	Colm J. Fitzgerald; Eugenio Gelós; Emiel Schut; Steen Grønkjær Thomsen; John Ringwood
	1192	Studies on Selection of Characteristic Sea State Conditions for Wave Energy Converters in Taiwan	Shiaw-Yih Tzang; S.-J. Lin; C.-E. Lin
15.30	TBC		

TDD	Tidal device development and testing 6		ROOM 3
Chair: Stephanie Ordóñez-Sánchez			
11.00	995	Optimizing the interplay between the chord to radius ratio, camber and pitch of cross-flow turbine blades	Ari Athair; Aidan Hunt; Han-Wen Chi; Owen Williams
	1001	Blade root force measurements on vertical axis tidal turbine	Robin Linant; Gregory Germain; Benoît Gaurier; Christophe Penisson; Guillaume Maurice
	1034	Hinged connected platforms for floating tidal turbines	Abel Arredondo-Galeana; Yongqiang Chen; Saishuai Dai; Xiantao Zhang; Feargal Brennannan
	1062	Direct-Driven Blade-Embedded Pitch Actuator for High Dynamic Pitching Applications	Adhithiyan Jayaprakash; Stefan Hoerner; Roberto Leidhold
	TBC		
12.30	Lunch Break		
TRC	Tidal resource characterization 3		ROOM 3
Chair: AbuBakr Bahaj			
Time	ID	Title	Authors
14.00	1026	Comparing satellite based tidal resource assessment	Daniela Vignali
	1037	Co-location of Tidal and Offshore Wind Energy Generation: Hydrodynamic Analysis of Monopile Impact on Tidal Energy Resource	Mahdi Alemi; Kai Chu; Ozlem Ceyhan Yilmaz
	1092	Large Eddy Simulation of an Energetic Tidal Strait with Device-Scale Turbulence	Angus Creech; Adrian Jackson; Richard Karsten; Alex Hay; Justin McMillan
	TBC		
15.30	TBC		

WDD		Wave device development and testing 8		ROOM 4	
Chair: Markel Penalba					
Time	ID	Title		Authors	
9.00	726	Modeling and Validation of a Small-Scale Wave Energy Converter for Unmanned Underwater Vehicle Applications		Hannah Walker; Eugene Pawlak; Michael Tolley	
	877	Sea trials of the Seaturns 1:4 scale wave energy converter		Martin Träsch; Arthur Chauliac; Vincent Perier; Michel Répécaud; Gabriel Canteins; Vincent Tournerie	
	1053	A simple method for optimizing wave energy harvest from a spar buoy WEC		Raphael Hon; Megan Lee Anderson; Jeff Grasberger	
	1115	Numerical Modeling of Flexible Oscillating Water Columns for Wave Energy Conversion		Ossama Abdelkhalik	
	TBC				
10.30	Coffee Break				
GPC	Grid/off-grid integration, power take-off and control 4			ROOM 4	
Chair: John Ringwood					
11.00	751	Assessment of tidal stream energy's ability to enhance system resilience		Danny Coles; Thomas Adcock	
	928	Integrated Hydrodynamic and Electromechanical Modelling of Tidal Turbine PTO		Mohammad Rafiei; Mona Shayegan; Marco Di Benedetto; Francesco Salvatore	
	963	Optimal control of tidal barrages considering economic factors		Agustina Skiarski; Nicolas Faedo; John Ringwood	
	1095	Power Take-Off Design, Integration and Commissioning of an Instrumented Open-Source Tidal Energy Converter (OSTEC) Testbed		Parviz Sedigh; Robert Cavagnaro; Aidan Bharath; Vincent Neary; Mason Bichanich; Martin Wosnik	
	TBC				
12.30	Lunch Break				

SMF	Station-keeping, moorings and foundations 3		ROOM 4
Chair: Tim Warren			
Time	ID	Title	Authors
14.00	942	COUPLED FREQUENCY DOMAIN FATIGUE DAMAGE EVALUATION FOR MOORING SYSTEMS IN WAVE ENERGY TECHNOLOGIES	Eguzkiñe Martinez Puente; Irati Azpilgain; Yeraí Peña Sanchez; Iñigo Llavori; Markel Penalba
	991	Design and Validation for OE35 mooring system chenyu zhao;	Lars Johanning
	1018	Full-Scale Load Testing of the Swift Rock Anchors	Nicholas Kaufmann; Penny Jeffcoate; Nick Cresswell; Matteo Ciantia
	1104	Integrated Site Investigations for Wave and Tidal Energy systems: Optimizing Foundation Design and Site Selection	Amadeu Deu
15.30	TBC		