

Tuesday September 5								
Registration (Main Hall)						08:00-09:00		
	Room /Track	Chairman	Paper ID	Title	Presenter			
Oral presentations	Baroja/ Wave device development and testing	Diego Vicinanza	138	Analysis of Mutlu's OWC performance	Isabel Casas	09:00-09:15		
			144	Successful Innovation strategies to overcome the technical challenges in the development of wave energy technologies	Pablo Ruiz-Minguela	09:15-09:30		
			266	Spatial focussing of wave energy for improved power capture by an oscillating water column	Robert Mayon	09:30-09:45		
			352	Reference of Robustness and Uncertainty Analysis in the Optimal Design of Wave Energy Converters	Filippo Giorelli	09:45-10:00		
			176	Tuning Wave Energy Converters to local wave conditions	Wilson Guachaman-Azaro	10:00-10:15		
	Laboa/ Tidal device development and testing	Stephanie Ordoñez-Sánchez	466	Enabling the Ocean Internet of Things with Renewable Marine Energy	Matthew Topper	10:15-10:30		
			166	Interscale Active Blade Pitch Control for Cross-Flow Tidal Turbines Using Embedded Electric Drive Systems	Zhao Zhao	09:00-09:15		
			209	Numerical optimisation of the active lift turbines using OpenFoam's overset method	Ian Robin	09:15-09:30		
			231	Non-dimensional scaling of passive adaptive blades for a marine current turbine	Katherine Van Ness	09:30-09:45		
			264	Optimal Design of a Submerged Tidal Device for Low Current Environment	Seoung-won Jeong	09:45-10:00		
	Arriaga/ Wave hydrodynamic modelling	Gareth Tomas	343	Designing Vortex Generators for Tidal Turbine Blades	George Papadakis	10:00-10:15		
			617	Leveraging Explainable Artificial Intelligence for Real-time Detection of Tidal Blade Damage	Muslim Jameel Syed	10:15-10:30		
			317	Verification and validation of MoodyMare - A free simulation tool for modelling moored WEC devices	Johannes Palm	09:00-09:15		
			321	A hybrid linear potential flow - machine learning model for enhanced prediction of WEC performance	Claes Eskilsson	09:15-09:30		
			476	Design Wave analysis of the M4 wave energy converter device	Orlaine Lynggaard Hansen	09:30-09:45		
	Oteiza/Tidal hydrodynamic modelling	Tim O'Doherty	487	Hydrodynamic studies of a 15 MW semi-submersible FOWT to assess the suitability of the inclusion of a damper system	Yu Gao	09:45-10:00		
			145	On the state-of-the-art of CFD simulations for wave energy conversion within the open-source numerical framework of OpenFOAM	Aljondro Crespo	10:00-10:15		
			158	A Study on Wave Energy Conversion Problem of Turbine-Integrated OWC Chamber	Jenny Seok Kim	10:15-10:30		
			503	Large-scale simulations of interaction between surface waves and a tidal turbine wake in a turbulent channel	Tim Stallard	09:00-09:15		
			463	Actuator-Line CFD Simulation of Tidal-Stream Turbines in a Compact Array	David Appleby	09:15-09:30		
0	Refreshments, networking & posters exhibition (Terrace and Chillida room)						10:30-11:00	
	Baroja/ Wave device development and testing	Claes Eskilsson	167	Experimental evaluation of phase and velocity control for a cycloidal wave energy converter	Andrei Ermiakov	11:00-11:15		
			169	Wave Energy Power Take-Off Validation with a Hydraulically Actuated Rotary Dynamometer and a Bi-directional High-power DC Busby: Methods for validating wave energy converter mechanical and electrical power conversion systems	Casey Nichols	11:15-11:30		
			212	A Removable elevated-chimney wave generator for testing marine energy devices	Pedro Lomonaco	11:30-11:45		
			293	Wave energy converter power take-off characterization: comparing dynamometer and field data	Curtis Rusch	11:45-12:00		
			448	Limiting the available pneumatic power in a U-OWC	Joao Henriques	12:00-12:15		
	Laboa/ Tidal device development and testing	Alberto Peña	468	seafarm: Two Rotor Prototyping Environments for Wave Energy Control	Alexandra Price	12:15-12:30		
			285	A methodology for developing a prediction model for the remaining fatigue life and residual strength of tidal turbine blades	Tenir Ranjan Munaweraa Thambirige	11:00-11:15		
			177	Multi-Actuator Full-Scale Fatigue Test of a Tidal Blade	Sergio Lopez Dubon	11:15-11:30		
			203	Experimental techniques for evaluating the performance of high-blockage cross-flow turbine arrays	Ardan Hunt	11:30-11:45		
			277	Observations from structural testing of full-scale tidal turbine blades	William Finnegan	11:45-12:00		
	Arriaga/ Wave hydrodynamic modelling	Markel Peñaalba	322	Experimental flow conditions effects on a bottom-mounted ducted twin vertical axis tidal turbine compared to real sea conditions	Martin Moreau	12:00-12:15		
			498	Experimental comparison of the flow-induced loading between a ducted, bottom-mounted twin vertical axis tidal turbine at still and in-pulsed conditions	Saouli	12:15-12:30		
			496	Dynamic Simulation of Wave Pile-Archetype Connected in a Coastal Floating Platform	Thiago Sakamaki Hattai	11:00-11:15		
			628	Hydrodynamic and Static Stability Analyses of a Hybrid Offshore Wind-Wave Energy Converter: An Expansion of Barmahammar Floating Wind Turbine Concept	Payan Aboulghafa	11:15-11:30		
626			Floats with Large Elastic Restorations of energy dissipation due to backward flow in wave overtopping	Claudio Sandoval	11:30-11:45			
0	Oteiza/Tidal hydrodynamic modelling	Gustavo Esteban	353	Nonlinear WEC modeling using Sparse Identification of Nonlinear Dynamics (SINDy)	Brittany Lyden	11:45-12:00		
			392	Numerical and Experimental Characterization of Resonant Floating Body Drift	Bryson Robertson	12:00-12:15		
			486	A development and validation of the 3-bladed hydrodynamic code and the 2D6 code for TACOS wave energy converter	Wenbin Shang	12:15-12:30		
			416	A turbine module adapted to the marine site for tidal farms layout optimization	Mikol Pucci	11:00-11:15		
			442	High-fidelity modelling of a six-turbine tidal array in the Shetlands	Pablo Otero	11:15-11:30		
	0	Lunch & posters exhibition (Terrace and Chillida room)						12:30-14:00
		Baroja/ Wave device development and testing	Yago Torre-Enciso	242	Experimental investigation into the Air Compressibility Scaling Effect on OWC Performance and Wave Height	André F.L. Gomes	14:00-14:15	
				185	Enhancing the efficiency of an axial impulse turbine with a diffuser	Geelam Saita	14:15-14:30	
				260	Numerical performance assessment of a new wave energy conversion system	André F. L. Gomes	14:30-14:45	
				522	Basin testing of the 1:3-1 M4 WEC	Damon Howe	14:45-15:00	
451	Experimental investigation on Performance of Counter-rotating Impulse Turbine with Mobile Vanes for Wave Energy Conversion			Kichiro Sato	15:00-15:15			
Oral presentations	Laboa/ Tidal device development and testing	Daniel Coles	268	Design of an integrated generator and heaving buoy	Nick Baker	15:15-15:30		
			343	Designing Vortex Generators for Tidal Turbine Blades	Marinos Manolesos	14:00-14:15		
			366	A two-scale blockage correction for an array of tidal turbines	Daniel Dehyjov	14:15-14:30		
			365	Performance Assessment of a Multi-Rotor Floating Tidal Energy System	Nicholas Kraftmann	14:30-14:45		
			391	The Influence of the Downstream Blade Shape on Cross-Flow Turbine Performance	Abigale Snorland	14:45-15:00		
	Arriaga/ Wave hydrodynamic modelling	Sara Russo	420	Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study	Miguel Gonzalez-Monjillo	15:00-15:15		
			504	Design and Demonstration of a Passive Pitch System for Tidal Turbines	Stefano Gambuzza	15:15-15:30		
			184	Wave Amplification made as Open-Source-Code for Wave Energy Conversion in Waters with Medium Energy Density	Jiahui Hong Chen	14:00-14:15		
			513	System Identification for Modelling M4 Wave Energy Converter	Xuelin Wang	14:15-14:30		
			198	Geomechanical and CFD Simulations of a spherical float	Spyridon Zafeiris	14:30-14:45		
0	Oteiza/Tidal hydrodynamic modelling	AbuBakr Bahaj	278	Spatio-Temporal Modeling of Wave Energy Converters as an Efficient Tool for Adjustment of PTD Model Parameters	Adam Keeler	14:45-15:00		
			333	A multi-scale analysis of a PTOEC farm	Jan Tan	15:00-15:15		
			538	Effects of current strategies on the performance of floating WEC-piered archetypes operating attached to a breakwater by three-point moorings	Marinos Bonavola	15:15-15:30		
			579	Experimental characterisation of the wake of a bottom-mounted two tandem of cylinders placed in a high velocity area	Alma Santa Cruz	14:00-14:15		
			676	Development of a modified BEMT model for the analysis of helical bladed vertical axis tidal turbines	Mohammad Fereidoonmehdizad	14:15-14:30		
	0	Refreshments, networking & posters exhibition (Terrace and Chillida room)						15:30-16:00
		Side events	Mixelena/Side event 4	SafeWAVE project (by AZTI / WavEC)				16:00-17:30
			Baroja/Side event 5	Technology Performance Level Assessment (TPL) (by SANDIA LAB. -TPL TEAM-)				16:00-17:30
			Arriaga/Side event 6	NEMMO Project, On the Cutting Edge of Tidal Blade Design and Materials (by Ocean Energy Europe)				16:00-17:30
		Oral presentations	Baroja/ Wave device development and testing	Luis Gato	318	A Novel Hybrid Floating Breakwater: Wave Energy Converter Driven: Preliminary Experimental Investigations	Sara Russo	17:30-17:45
329	Optimised/adaptive dam design for array of wave energy conversion				Jingyi Yang	17:45-18:00		
535	The Geometrical Design of the L-shaped Oscillating Water Column Using Artificial Neural Network				Chen-Chou Lin	18:00-18:15		
274	Maximizing the surge amplitude of a floatier through an adaptable mooring lightening technique				Andreas Aslirikis	18:15-18:30		
516	Reliability and Cost Assessment of Critical Components: Electrical generation part of 100M wave energy converter				Julia Fernandez Chozas	18:30-18:45		
Arriaga/ Wave hydrodynamic modelling	Jesús M. Blanco		286	Heterogeneous WEC array optimization using the Hidden Genetic Algorithm	Habeebullah Abdulkadir	18:45-19:00		
			355	Numerical investigation of a new hybrid floating tidal turbine concept	Beatrice Freni	17:30-17:45		
			376	Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data	Mahdiyeh Farayand	17:45-18:00		
			379	An overview of an experimental campaign for arrays of wave energy conversion systems	Nicolas Faedo	18:00-18:15		
			426	Robust verification of WECs: comparison of methods to estimate numerical uncertainties in the OEC wave energy modelling task	Claes Eskilsson	18:15-18:30		
Oteiza/ Tidal hydrodynamic modelling	Pablo Ruiz-Minguela		473	HydroClimo: An Open-Source Hydrodynamics Package for Project Climates	David Ogden	18:30-18:45		
			474	Robust hydrodynamic analysis of a breaking surface in offshore, offshore, and offshore seas	Jens Grønsbo	18:45-19:00		
			407	Modeling the effects of boundary proximity on a tidal rotor using the actuator disk method	Wes Edwards	17:30-17:45		
			464	Characterization of turbulent flow and the wake of a tidal stream turbine in proximity to a ridge	Sulaiman Hurbis	17:45-18:00		
			566	Tidal turbulence in medium depth water, primarily a model study	Goran Brostrom	18:00-18:15		
Technical programme	Elhoyar		316	Verification and validation of blade-resolved viscous flow tidal turbine simulations	Manuel Rentschler	18:15-18:30		
			544	Comparison of Actuator Line Modelling of Tidal Power Kites with ADCP Measurements	Nomai Prabahar	18:30-18:45		
			Technical Committee meeting				19:00-20:00	
			Social programme	Track Directors Dinner				20:00-22:00