

Tuesday September 5							
Registration (Main Hall)							
						08:00-09:00	
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter		
	Barroja/ Wave device development and testing	Diego Vicinanza	138	Analysis of Mullik'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	
			296	Spatial housing of wave energy for improved power capture by an oscillating water column	Robert Mayon	09:30-09:45	
			352	Relevance of Robustness and Uncertainties Analysis in the Optimal Design of Wave Energy Converters	Filippo Giorcelli	09:45-10:00	
			176	Tuning Wave Energy Converters to local wave conditions	Wilson Guachamin-Acero	10:00-10:15	
			466	Enabling the Ocean Internet of Things with Renewable Marine Energy	Mathew Topper	10:15-10:30	
	Laboar/ Tidal device development and testing	Stephanie Ordoñez-Sanchez	166	Intake/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 air turbines using OpenFoam's solver 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	
			343	Designing Vortex Generators for Tidal Turbine Blades	George Papadakis	10:00-10:15	
	Arriaga/ Wave hydrodynamic modelling	Gareth Tones	317	Verification and validation of MoodyFlow - 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	Ordine Lynggaard Hansen	09:30-09:45	
			145	On the state-of-the-art of CFD simulations for wave energy conversion within the open-source numerical framework of OpenFOAM	Alexandro Crespo	09:45-10:00	
			158	A Study on Wave Energy Conversion Problem of Turbine-Integrated OWC Chamber	Jeong-Seok Kim	10:00-10:15	
	Oteiza/Tidal hydrodynamic modelling	Tim O'Doherty	503	Large-eddy simulations of interaction between surface waves and a tidal turbine wake in a turbulent channel	Tim Stafford	09:00-09:15	
			195	Actuator-Line CFD Simulation of Tidal-Stream Turbines in a Compact Array	David Apsley	09:15-10:30	
			218	High-fidelity modeling of a vertical axis tidal turbine model under realistic flow conditions	Mikael Grondreau	09:30-09:45	
307			Synthetic eddy generation and modelling of turbine operation in a turbulent tidal flow	Francesco Salvatore	09:45-10:00		
367			A study on tidal return under the combined effects of currents and waves using actuator-line CFD simulations	Federico Zilic de Arcos	10:00-10:15		
							10:15-10:30
Refreshments, networking & posters exhibition (Terrace and Chillida room)							
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter		
	Barroja/ Wave device development and testing	Claes Eskilsson	167	Experimental evaluation of phase and velocity control for a cycloidal wave energy converter	Andrei Ermakov	11:00-11:15	
			169	Wave Energy Power Take-off Validation with a Hydrostatic Actuated Rotary Dynamometer and a Bi-directional High-power DC Supply: Methods for validating wave energy converter mechanical and electrical power conversion systems	Casey Nichols	11:15-11:30	
			212	A Removable elevated-ship 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	
			499	HYPERM: Two Rapid Prototyping Environments for Wave Energy Control	Alexandra Price	12:15-12:30	
	Laboar/ Tidal device development and testing	Alberto Peña	285	A methodology for developing a prediction model for the remaining fatigue life and residual strength of tidal turbine blades	Tenris Rangan Munaweera Thanthirige	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	Aidan Hunt	11:30-11:45	
			277	Observations from structural testing of full-scale tidal turbine blades	William Finnegan	11:45-12:00	
			322	Experimental flow conditions effects on a bottom-mounted ducted twin vertical axis tidal turbine compared to real sea conditions	Marlin 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 non-steady conditions	Saouli	12:15-12:30	
	Arriaga/ Wave hydrodynamic modelling	Markel Peñaalba	496	Numerical Simulation of Wave Port Absorbers Connected by a Common Floating Platform	Thiago Sakamaki Hallak	11:00-11:15	
			628	Hydrodynamic and Static Stability Analysis of a Hybrid Offshore Wind-Wave Energy Converter: An Expansion of Semiheuristic Results and Further Details	Payam Aboulalebi	11:15-11:30	
			628	Study with Large Eddy Simulations of energy dissipation due to backwash flows in wave overtopping	Claudio Sandoval	11:30-11:45	
			383	Nonlinear WEC modeling using Sparse Identification of Nonlinear Dynamics (SINDy)	Brittany Lydon	11:45-12:00	
			392	Numerical and Experimental Characterization of Rotational Floating Body OWC	Bryson Robertson	12:00-12:15	
			466	A development and validation of the eFlow hydrodynamic code and the eFlow software for TAC-OS wave energy converter	David Ogden	12:15-12:30	
	Oteiza/Tidal hydrodynamic modelling	Iñigo Badaguren	416	A turbines-module adapted to the marine site for tidal farms layout optimization	Mikol Puczi	11:00-11:15	
			442	High-fidelity modelling of a six-turbine tidal array in the Shetlands	Pablo Otero	11:15-11:30	
			454	Instabilities in tidal turbine wakes	Anna Young	11:30-11:45	
505			On the accuracy of BEMT and CFD on the power and load prediction of tidal turbines	Ignacio Maria Vela	11:45-12:00		
506			The performance of counter-rotating tidal turbine in different sea states	Cameron Johnstone	12:00-12:15		
544			Comparison of Actuator Line Modelling of Tidal Power Kites with ADCP Measurements	Nomai Prabahar	12:15-12:30		
Lunch & posters exhibition (Terrace and Chillida room)							
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter		
	Barroja/ Wave device development and testing	Yago Torre-Enciso	242	Experimental investigation into the Air Compressibility Scaling Effect on OWC Performance and Wave Height	Nadav Cohen	14:00-14:15	
			185	Enhancing the efficiency of an axial impulse turbine with a diffuser	Gustam Saha	14:15-14:30	
			280	Numerical performance assessment of a new wave energy conversion system	André F. L. Gouveia	14:30-14:45	
			522	Basin testing of the 1:2-1 M4 WEC	Hugh Wolgamot	14:45-15:00	
			451	Experimental investigation on Performance of Counter-rotating Impulse Turbine with Middle Vanes for Wave Energy Conversion	Kichiro Sato	15:00-15:15	
			268	Design of an integrated generator and heaving buoy	Nick Baker	15:15-15:30	
	Laboar/ Tidal device development and testing	Daniel Coles	366	A two-scale blockage correction for an array of tidal turbines	Daniel Dehtyriov	14:00-14:15	
			365	Performance Assessment of a Multi-Rotor Floating Tidal Energy System	Nicholas Kaufmann	14:15-14:30	
			391	The Influence of the Downstream Blade Sweep on Cross-Flow Turbine Performance	Abigale Snordland	14:30-14:45	
			420	Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study	Miguel Gonzalez-Montijo	14:45-15:00	
			504	Design and Demonstration of a Passive Pitch System for Tidal Turbines	Stefano Gambuzza	15:00-15:15	
	Arriaga/ Wave hydrodynamic modelling	Sara Russo	164	Wave Identification made in Open Channel Channel for Wave Energy Conversion in Harbors with Medium Energy Density	Jahn-Hyung Chen	14:00-14:15	
			513	System Identification for Modeling M4 Wave Energy Converter	Xuefei Wang	14:15-14:30	
			198	Semi-analytical and CFD formulations of a spherical floater	Spyridon Zafeiris	14:30-14:45	
			278	Spectral Domain Modeling of Wave Energy Converters as an Efficient Tool for Adjustment of PTO Model Parameters	Antonio Jaquín Lagarda	14:45-15:00	
			333	A multiway analysis of a PTOEC farm	Beatrice Balisti	15:00-15:15	
			538	Effect of control strategies on the performance of floating WEC point absorbers operating attached to a breakwater by line-control	Marinos Bonovas	15:15-15:30	
	Oteiza/Tidal hydrodynamic modelling	AbuBakr Bahaj	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 Fereidoonmehrad	14:15-14:30	
			199	A comparative study of power production using a generic empirical model in a tidal farm	Kabir Bashir Sharif	14:30-14:45	
252			Objective Functions for the Blade Shape Optimization of a Cross-Flow Tidal Turbine under Constraints	Karla Ruiz-Huesman	14:45-15:00		
283			Investigating the impact of multi-rotor structure shadowing on tidal stream turbine performance	Bryn Townley	15:00-15:15		
501			A methodology to capture the single blade loads on a cross-flow tidal turbine flume model	Stefan Hoerner	15:15-15:30		
Refreshments, networking & posters exhibition (Terrace and Chillida room)							
Side events	Mixelena/Side event 3	"SUPPORTING THE FUTURE OF OCEAN ENERGY HERE AND NOW; A GLIMPSE OF BASQUE PUBLIC INITIATIVES TO FOSTER SECTOR SCALE-UP" (by EVE)				16:00-17:30	
	Barroja/Side event 4	Technology Performance Level Assessment (TPL) (by SANDIA LAB. -TPL TEAM-)				16:00-17:30	
	Arriaga/Side event 5	NEMMO Project, On the Cutting Edge of Tidal Blade Design and Materials (by Ocean Energy Europe)				16:00-17:30	
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter		
	Barroja/ Wave device development and testing	Luis Gato	318	A Novel Hybrid Floating Breakwater-Wave Energy Converter Device: Preliminary Experimental Investigations	Sara Russo	17:30-17:45	
			329	Design-adapted dam design for wave energy conversion	Jingyi Yang	17:45-18:00	
			555	The Geometrical Design of the L-shaped Oscillating Water Column Using Artificial Neural Network	Chen-Chou Lin	18:00-18:15	
			274	Measuring the surge amplitude of a floater through an adaptable mooring/lightening technique	Andreas Aslaks	18:15-18:30	
			516	Reliability and Cost Assessment of Critical Components: Electrical generator failure of BCOM wave energy converter	Julia Fernandez Chazas	18:30-18:45	
			286	Heterogeneous WEC array optimization using the Hidden Genetic Genetic Algorithm	Ossama Abdelrhak	18:45-19:00	
	Arriaga/ Wave hydrodynamic modelling	Jesús M. Blanco	355	Numerical investigation of a new hybrid floating wind turbine concept	Beatrice Fenu	17:30-17:45	
			376	Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data	Mahdiyeh Faragrand	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	Ensemble verification of WECs: comparison of methods to estimate numerical uncertainties in the OES wave energy modelling task	Claes Eskilsson	18:15-18:30	
			473	HydroChemo: An Open-Source Hydrodynamic Package for Project Chemo	David Ogden	18:30-18:45	
			474	Nonlinear hydrodynamics of a heaving sphere in diffraction, radiation, and combined loads	Jana Orzechowska	18:45-19:00	
	Oteiza/ Tidal hydrodynamic modelling	Pablo Ruiz-Minguela	407	Modeling the effects of boundary proximity on a tidal rotor using the actuator line method	Hye Edwards	17:30-17:45	
			464	Characterization of turbulent flow and the wake of a tidal stream turbine in proximity to a ridge	Salamen Huruhi	17:45-18:00	
			566	Tidal turbulence in medium depth water, primarily a modal study	Goran Brostrom	18:00-18:15	
			316	Verification and validation of blade-resolved viscous flow tidal turbine simulations	Manuel Rentchler	18:15-18:30	
			544	Comparison of Actuator Line Modelling of Tidal Power Kites with ADCP Measurements	Nomai Prabahar	18:30-18:45	
	Technical programme	Elhuyar	Technical Committee meeting				19:00-20:00
	Social programme	Track Directors Dinner					20:00-22:00