

Tuesday September 5								
08:00-09:00	Registration (Main Hall)					08:00-09:00		
09:00-10:30	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter		
		Barroja/ 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	
				298	Spatial focusing of wave energy for improved power capture by an oscillating water column	Robert Mayon	09:30-09:45	
				352	Reference of Robustness and Uncertainties 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-Azoro	10:00-10:15	
				456	Enabling the Ocean Internet of Things with Renewable Marine Energy	Matthew Topper	10:15-10:30	
		Laboar/ Tidal device development and testing	Stephanie Ordoñez-Sánchez	166	Integrable Active Blade Pitch Control for Cross-Flow Tidal Turbines Using Embedded Electric Drive Systems	Zhao Zhao	09:00-09:15	
				209	Numerical optimization 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	
				343	Designing Vortex Generators for Tidal Turbine Blades	George Papadakis	10:00-10:15	
		Arriaga/ Wave hydrodynamic modelling	Gareth Thomas	317	Verification and validation of MoodyMare - A new 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 M1 wave energy converter device	Orlaine Lynggaard Hansen	09:30-09:45	
				146	On the state-of-the-art of CFD simulations for wave energy conversion within the open-source numerical framework of OpenFOAM	Alejandro 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 Stallard	09:00-09:15	
				195	ActuatorLine CFD Simulation of Tidal-Stream Turbines in a Compact Array	David Apsley	09:15-09:30	
				218	High-fidelity modeling of a vertical axis tidal turbine model under realistic flow conditions	Mikael Gondeau	09:30-09:45	
				307	Synthetic eddy generation and modelling of turbine operation in a turbulent tidal flow	Francesco Salvatore	09:45-10:00	
		10:30-11:00	Refreshments, networking & posters exhibition (Terrace and Chillida room)					10:30-11:00
		11:00-12:30	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter
Barroja/ Wave device development and testing	Claes Eskilsson			187	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-barge 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 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	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	Martin Moreau	12:00-12:15	
Arriaga/ Wave hydrodynamic modelling	Markel Peñaalba			498	Experimental comparison of the flow-induced loading between a ducted, bottom-mounted twin vertical axis tidal turbine at still and in-situ loaded conditions	Saouli	12:15-12:30	
				496	Numerical Simulation of Wave Power Absorption Connected to a Coastal Floating Platform	Thiago Sakamaki Hatate	11:00-11:15	
				628	Hydrodynamic and Static Stability Analyses of a Hybrid Offshore Wind-Wave Energy Converter: An Expansion of Benthosombrina Pereira (Wind-Jetted System)	Payam Aboulshah	11:15-11:30	
				628	Study with Large Eddy Simulations of energy dissipation due to backwash flows in wave overtopping	Claudio Sandomeni	11:30-11:45	
				393	Nonlinear WEC modeling using Sparse Identification of Nonlinear Dynamics (SINDy)	Billyann Lydon	11:45-12:00	
Oteiza/Tidal hydrodynamic modelling	Ilgo Bidaguren			392	Numerical and Experimental Characterization of Resonant Floating Buoy Array	Bryson Robertson	12:00-12:15	
				486	Development and validation of the 6-rotor hydrodynamic code and the DEM software for TACOS wave energy converter	David Ogden	12:15-12:30	
				416	A turbines module adapted to the marine site for tidal farms layout optimization	Mikol Puczi	11:00-11:15	
				442	High-fidelity modeling of a six-turbine tidal array in the Shetlands	Pablo Otero	11:15-11:30	
12:30-14:00	Lunch & posters exhibition (Terrace and Chillida room)					12:30-14:00		
14:00-15:30	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	André F.L. Gomes	14:00-14:15	
				185	Enhancing the efficiency of an axial impulse turbine with a diffuser	Geelam Saha	14:15-14:30	
				280	Numerical performance assessment of a new wave energy conversion system	André F. L. Gomes	14:30-14:45	
				522	Basin testing of the 1:2-1 M1 WEC	Hugh Wolgamot	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	
		Laboar/ Tidal device development and testing	Daniel Coles	288	Design of an integrated generator and housing buoy	Nick Baker	15:15-15:30	
				366	A two-scale blockage correction for an array of tidal turbines	Daniel Dehtyrov	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 Snorrland	14:30-14:45	
				420	Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study	Miguel Gonzalez-Monfijo	14:45-15:00	
		Arriaga/ Wave hydrodynamic modelling	Sara Russo	504	Design and Demonstration of a Passive Pitch System for Tidal Turbines	Stefano Gambuzza	15:00-15:15	
				124	Wave Amplification Inside an Open Channel Channel for Wave Energy Conversion in Harbors with Medium Energy Density	Jiahui-Hong Chen	14:00-14:15	
				513	System Identification for Modelling M1 Wave Energy Converter	Xueli Wang	14:15-14:30	
				198	Remanufacture and CFD simulations of a spherical float	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 Jaquin Lagarda	14:45-15:00	
		Oteiza/Tidal hydrodynamic modelling	AbuBakr Bahaj	333	A multiway analysis of a PnWEC farm	Beatrice Balbi	15:00-15:15	
				538	Effects of control strategies on the performance of floating WEC point absorbers operating attached to a breakwater by sea-locks	Marissa Bonavita	15:15-15:30	
				579	Experimental characterization of the wake of a bottom-mounted two tandem of cylinders placed in a high velocity area	Alina Santa Cruz	14:00-14:15	
				676	Development of a modified BEMT model for the analysis of helical bladed vertical axis tidal turbines	Mohammad Fereidoonmehr	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-Husmann	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 farm model			Stefan Hoerner	15:15-15:30			
15:30-16:00	Refreshments, networking & posters exhibition (Terrace and Chillida room)					15:30-16:00		
16:00-17:30	Side events	Mixelena/Side event 4	"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 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		
17:30-19:00	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	Optimised-adapted claim design for wave energy conversion	Jingyi Yang	17:45-18:00	
				555	The Geometrical Design of the L-shaped Oscillating Water Columns Using Artificial Neural Network	Chen-Chou Lin	18:00-18:15	
				274	Maximizing the surge amplitude of a float through an adaptable mooring lightning technique	Andreas Aslaks	18:15-18:30	
				516	Reliability and Cost Assessment of Critical Components: Electrical generator failure of DCOM wave energy converter	Julia Fernandez Chozas	18:30-18:45	
		Arriaga/ Wave hydrodynamic modelling	Jesús M. Blanco	286	Heterogeneous WEC array optimization using the Modern Genetic Algorithm	Ossama Abdelkhalik	18:45-18:59	
				355	Numerical investigation of a new hybrid floating wind turbine concept	Beatrice Balbi	17:30-17:45	
				376	Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data	Mahdiyeh Farjand	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	Solution verification of WECs: comparison of methods to estimate numerical uncertainties in the CES wave energy modelling tool	Claes Eskilsson	18:15-18:30	
		Oteiza/ Tidal hydrodynamic modelling	Pablo Ruiz-Minguela	473	HydroChemo: An Open-Source Hydrodynamics Package for Project Chemo	David Ogden	18:30-18:45	
				474	Nonlinear hydrodynamics of a heaving sphere in diffraction, radiation, and combined tests	Jana Orzechowska	18:45-19:00	
				407	Modelling the effects of boundary proximity on a tidal rotor using the actuator line method	Huw Edwards	17:30-17:45	
				454	Characterisation of turbulent flow and the wake of a tidal stream turbine in proximity to a ridge	Sulaiman Hurebi	17:45-18:00	
		Technical programme	Elhuyar	566	Tidal turbulence in medium depth water: primary a model study	Goran Brostrom	18:00-18:15	
				316	Verification and validation of blade-resolved cross-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	
				544	Comparison of Actuator Line Modelling of Tidal Power Kites with ADCP Measurements	Nomai Prabahar	18:45-19:00	
19:00-20:00	Track Directors Dinner					19:00-20:00		
20:00-22:00	Track Directors Dinner					20:00-22:00		