

Tuesday September 5						
08:00-09:00	Registration (Main Hall)					08:00-09:00
09:00-10:30	Oral presentations	Baraja/ Wave device development and testing	Diego Vicinanza	Paper ID	Title	Presenter
				138	Analysis of Multi's OWC performance	Isabel Casas
				144	Successful innovation strategies to overcome the technical challenges in the development of wave energy technologies	Pablo Ruiz-Minguela
				266	Spatial focusing of wave energy for improved power capture by an oscillating water column	Robert Mayon
				352	Relevance of Robustness and Uncertainty Analysis in the Optimal Design of Wave Energy Converters	Filippo Giorcelli
				178	Tuning Wave Energy Converters to local wave conditions	Wilson Guachamin-Azoro
		485	Enabling the Ocean Internet of Things with Renewable Marine Energy	Matthew Topper		
		Laboa/ Tidal device development and testing	Stephanie Ordoñez-Sánchez	166	Integrate Active Blade Pitch Control for Cross-Flow Tidal Turbines Using Embedded Electric Drive Systems	Zhao Zhao
				209	Numerical optimisation of the active Wturbines using OpenFOAM's overset method	Ian Robin
				231	Non-dimensional scaling of passive adaptive blades for a marine current turbine	Katherine Van Ness
				264	Optimal Design of a Submerged Tidal Device for Low Current Environment	Chul-hee Jo
				343	Designing Vortex Generators for Tidal Turbine Blades	Marinos Manolelos
				617	Leveraging Explainable Artificial Intelligence for Real-time Detection of Tidal Blade Damage	Muslim Jameel Syed
		Arriaga/ Wave hydrodynamic modelling	Gareth Thomas	317	Verification and validation of MoodyMare - A free simulation tool for modelling moored WEC devices	Johannes Palm
				321	A hybrid linear potential flow - machine learning model for enhanced prediction of WEC performance	Claes Eskilsson
				478	Design Wave analysis of the MA wave energy converter device	Ordine Lynggaard Hansen
				487	Hydrodynamic studies of a 15 MW semi-submersible FOWT to assess the suitability of the inclusion of a damper system	Yu Gao
				145	On the State-of-the-art of CFD simulations for wave energy converters within the open-source numerical framework of OpenFOAM	Aljondro Crespo
	158			A Study on Wave Energy Converter Problem of Turbine-integrated OWC Chamber	Jenny Seok Kim	
	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 Sallard	
			195	Actuator-Line CFD Simulation of Tidal Stream Turbines in a Compact Array	David Apeley	
			218	High-fidelity modeling of a vertical axis tidal turbine model under realistic flow conditions	Mikael Grondreau	
307			Synthetic eddy generation and modelling of turbine operation in a turbulent tidal flow	Matteo Gregori		
334			Impact of lateral turbine spacing on the performance of a multivector tidal energy device	Rachael Smith		
367			A study on tidal ridges under the combined effects of currents and waves using actuator-line CFD simulations	Federico Zito de Arcos		
Refreshments, networking & posters exhibition (Terrace and Chillida room)						
11:00-12:30	Oral presentations	Baraja/ Wave device development and testing	Claes Eskilsson	Paper ID	Title	Presenter
				127	Experimental evaluation of phase and velocity control for a cycloidal wave energy converter	Andrei Ermiakov
				169	Wave Energy Power Take-Off Validation with a Hydraulic 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
				212	A Removable, elevated hinge wave generator for testing marine energy devices	Pedro Lomonaco
				293	Wave energy converter power take-off characterization: comparing dynamometer and field data	Curtis Rusch
				448	Limiting the available pneumatic power in a U-OWC	Joao Henriques
		485	HARPYM: Two-Phase Prototyping Environments for Wave Energy Control	Alexandra Price		
		Laboa/ 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	Tenir Rangan Munawera Thanthirige
				177	Multi-Actuator Full-Scale Fatigue Test of a Tidal Blade	Sergio Lopez Dubon
				203	Experimental techniques for evaluating the performance of high-blockage cross-flow turbine arrays	Aidan Hunt
				277	Observations from structural testing of full-scale tidal turbine blades	William Finnegan
				322	Experimental flow conditions effects on a bottom-mounted ducted twin vertical axis tidal turbine compared to real sea conditions	Marin Moreau
				498	Experimental comparison of the flow-induced loading between a ducted bottom-mounted twin vertical axis tidal turbine at still and in accelerated conditions	Saouli
		Arriaga/ Wave hydrodynamic modelling	Mikel Peñaflita	486	Dynamic Simulation of Wave Power Absorbers Connected to a Central Floating Platform	Thiago Sakamaki Hallak
				628	Hydrodynamic and Static Stability Analysis of a Hybrid Offshore Wind-Wave Energy Generation: An Expansion of Semi-submersible Platform Wave Turbine Concept	Payam Aboulalebi
				626	Heave with Large Eddy Simulations of energy dissipation due to backscatter flow in wave overtopping	Claudio Sandoval
				383	Nonlinear WEC modeling using Spanwise Identification of Nonlinear Dynamics (SINDy)	Brittany Lyden
				392	Numerical and Experimental Characterization of Rotational Floating Body Drift	Bryson Robertson
	465			A Development and Validation of the In-house hydrodynamic code and the OMV software for TACOW wave energy converter	Wacian Shang	
	Oteiza/Tidal hydrodynamic modelling	Gustavo Esteban	416	A turbines-module adapted to the marine site for total farm layout optimization	Mikol Pucci	
			442	High-fidelity modelling of a six-turbine tidal array in the Shetlands	Pablo Otero	
			454	Instabilities in tidal turbine wakes	Amanda Smyth	
505			On the accuracy of BEMT and CFD on the power and trust prediction of tidal turbines	Yabin Liu		
506			The performance of counter-rotating tidal turbine in different sea states	Song Lu		
544			Comparison of Actuator Line Modelling of Tidal Power Kits with ADCP Measurements	Nomai Prabahar		
Lunch & posters exhibition (Terrace and Chillida room)						
12:30-14:00	Oral presentations	Baraja/ Wave device development and testing	Yago Torre-Enciso	Paper ID	Title	Presenter
				242	Experimental investigation into the Air Compressibility Scaling Effect on OWC Performance and Wave Height	André F.L. Gomes
				185	Enhancing the efficiency of an axial impulse turbine with a diffuser	Gustam Saha
				260	Numerical performance assessment of a new wave energy conversion system	André F. L. Gomes
				522	Beam testing of the 1.2-1 MW WEC	Damon Howe
				451	Experimental Investigation on Performance of Counter-rotating Impulse Turbine with Middle Vanes for Wave Energy Conversion	Kichiro Sato
		Laboa/ Tidal device development and testing	Daniel Coles	268	Design of an integrated generator and heaving buoy	Nick Baker
				343	Designing Vortex Generators for Tidal Turbine Blades	Marinos Manolelos
				366	A two-scale blockage correction for an array of tidal turbines	Daniel Dehtyrov
				365	Performance Assessment of a Multi-Rotor Floating Tidal Energy System	Nicholas Kaufmann
				391	The Influence of the Downstream Blade Sweep on Cross-Flow Turbine Performance	Abigale Snorland
				420	Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study	Miguel Gonzalez-Monjoi
		Arriaga/ Wave hydrodynamic modelling	Sara Russo	504	Design and Demonstration of a Passive Pitch System for Tidal Turbines	Stefano Cambuzza
				184	Wave Amplification Study on Open Channel Channel for Wave Energy Conversion in Shallow with Medium Energy Density	Jahn-Hong Chen
				513	System Identification for Modeling MW Wave Energy Converter	Xuefei Wang
				198	Semi-analytical and CFD Simulations of a spherical turbine	Sydney Mavroukas
				278	Special-Domain Modeling of Wave Energy Converters as an Efficient Tool for Adjustment of PTO Model Parameters	Adam Kessler
				333	A multi-scale analysis of a POMEW farm	Jian Tan
	Oteiza/Tidal hydrodynamic modelling	AbuBakr Bahaj	538	Effects of control strategies on the performance of floating WEC port absorbers operating attached to a breakwater by time-domain	Marinos Bonovas	
			579	Experimental characterisation of the wake of a bottom-mounted two tandem of cylinders placed in a high velocity area	Alina Santa Cruz	
			676	Development of a modified BEMT model for the analysis of helical-bladed vertical axis tidal turbines	Mohammad Fereidoonshad	
			199	A comparative study of power production using a generic empirical model in a tidal farm	Kabir Bashir Sharif	
252			Objective Functions for the Blade Shape Optimisation of a Cross-Flow Tidal Turbine under Constraints	Karla Ruiz-Huesmann		
283			Investigating the impact of multivector structure shadowing on tidal stream turbine performance	Bryn Townley		
Refreshments, networking & posters exhibition (Terrace and Chillida room)						
16:00-17:30	Side events	Mixelena/Side event 4	SafeWAVE project (by AZTI / WavEC)			16:00-17:30
		Baraja/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	Baraja/ Wave device development and testing	Luís Gato	Paper ID	Title	Presenter
				318	A Novel Hybrid Floating Breakwater-Wave Energy Converter Device: Preliminary Experimental Investigations	Sara Russo
				329	Optimised-actuator design for wave energy conversion	Jingyi Yang
				555	The Geometrical Design of the L-shaped Oscillating Water Column Using Artificial Neural Network	Chen-Chou Lin
				274	Maximizing the surge amplitude of a floater through an adaptive mooring tightening technique	Andreas Asiklis
				516	Reliability and Cost Assessment of Critical Components: Electrical generator failure of DCOM wave energy converter	Julia Fernandez Chozas
		Arriaga/ Wave hydrodynamic modelling	Jesús M. Blanco	286	Heterogeneous WEC array optimization using the Hobson-Gansky Genetic Algorithm	Habeebullah Abdulkadir
				355	Numerical investigation of a new hybrid floating wind turbine concept	Beatrice Faru
				376	Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data	Mahdiyeh Panayir
				379	An overview of an experimental campaign for arrays of wave energy conversion systems	Nicolas Fiedro
				426	Validation verification of WECs: comparison of methods to estimate structural uncertainties in the DES wave energy modelling task	Claes Eskilsson
				473	Hydro2Dense: An Open-Source Hydrodynamic Package for Project Codes	David Ogden
		Oteiza/ Tidal hydrodynamic modelling	Pablo Ruiz-Minguela	674	Flowline hydrodynamics of a heaving sphere in different seabed, seabed, and combined loads	Jonas Östergård
				607	Modelling the effects of boundary proximity on a tidal rotor using the actuator line method	Huw Edwards
				454	Characterisation of turbulent flow and the wake of a tidal stream turbine in proximity to a ridge	Suleiman Hurnbi
				566	Tidal turbulence in medium depth water, primarily a model study	Göran Bröstrom
				316	Verification and validation of blade-resolved viscous flow tidal turbine simulations	Manuel Reinbrecht
				544	Comparison of Actuator Line Modelling of Tidal Power Kits with ADCP Measurements	Nomai Prabahar
19:00-20:00	Technical programme	Elhoyar	Technical Committee meeting			19:00-20:00
20:00-22:00	Social programme	Track Directors Dinner				20:00-22:00