

PRELIMINARY PROGRAMME **for the 15th European Wave &** **Tidal Energy Conference**

BILBAO 
3rd -7th SEPTEMBER 2023

	Day 1 Sunday September 3	Day 2 Monday September 4	Day 3 Tuesday September 5				Day 4 Wednesday September 6				Day 5 Thursday September 7				Day 6 Friday September 8				
08:00-08:30	Bus departure to Getxo Regatta	Registration (Main Hall)	Registration (Main Hall)				Registration (Main Hall)				Registration (Main Hall)				Social programme Guided tour through the river by BILBOATS	08:00-08:30			
08:30-09:00			Registration (Main Hall)				Registration (Main Hall)				Registration (Main Hall)					08:30-09:00			
09:00-09:30			Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD	Oral presentation TDD	Oral presentation TRC	Oral presentation EIA		Oral presentation GPC	Oral presentation WRC	Oral presentation ESP		09:00-09:30			
09:30-10:00			Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD	Oral presentation TDD	Oral presentation TRC		Oral presentation WDD	Oral presentation GPC	Oral presentation WRC	Oral presentation ESP		09:30-10:00			
10:00-10:30	Regatta La mar en calma Sailing School in Getxo (10:00-15:00h)	Opening Ceremony (Mixelena Auditorium)	Refreshments, networking & posters exhibition (Terrace and Chillida room)												Social programme Guided tour through the river by BILBOATS	10:00-10:30			
10:30-11:00		Refreshments, networking & posters exhibition (Terrace and Chillida room)												10:30-11:00					
11:00-11:30		Keynote lectures + JRL-ORE (Mixelena Auditorium)	Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD	Oral presentation TDD	Oral presentation TRC		Oral presentation WDD	Oral presentation GPC	Oral presentation WRC	Oral presentation ESP		11:00-11:30			
11:30-12:00		Keynote lectures + JRL-ORE (Mixelena Auditorium)	Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD	Oral presentation TDD	Oral presentation TRC		Oral presentation WDD	Oral presentation GPC	Oral presentation WRC	Oral presentation ESP		11:30-12:00			
12:00-12:30		Lunch (Terrace and Chillida room)												12:00-12:30					
12:30-13:00		Lunch (Terrace and Chillida room)												12:30-13:00					
13:00-13:30		Lunch (Terrace and Chillida room)												13:00-13:30					
13:30-14:00		Lunch (Terrace and Chillida room)												13:30-14:00					
14:00-14:30		Oral presentation WHM	Oral presentation ONM	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD		Oral presentation TRC	Oral presentation EIA	Oral presentation WDD			Oral presentation WRC	Oral presentation ESP	14:00-14:30
14:30-15:00		Bus returning to Bilbao	Oral presentation WHM	Oral presentation ONM	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD	Oral presentation TDD	Oral presentation WHM	Oral presentation THM	Oral presentation WDD		Oral presentation TRC	Oral presentation EIA		Oral presentation WDD		Oral presentation WRC	Oral presentation ESP
15:00-15:30	2 Buses departing to Olatua Building Getxo Cruise Terminal every 30 minutes (around 6 buses)	Refreshments, networking & posters exhibition (Terrace and Chillida room)												Closing Ceremony				15:00-15:30	
15:30-16:00		Refreshments, networking & posters exhibition (Terrace and Chillida room)												Closing Ceremony				15:30-16:00	
16:00-16:30		Side event 1	Side event 2	Side event 3		Side event 4	Side event 5	Side event 6		Side event 7	Side event 8	Side event 9		Technical visits: Option 1: MUTRIKU Option 2: BIMEP				16:00-16:30	
16:30-17:00		Side event 1	Side event 2	Side event 3		Side event 4	Side event 5	Side event 6		Side event 7	Side event 8	Side event 9						16:30-17:00	
17:00-17:30	Side event 1	Side event 2	Side event 3		Side event 4	Side event 5	Side event 6		Side event 7	Side event 8	Side event 9		17:00-17:30						
17:30-18:00	Side event 1	Side event 2	Side event 3		Side event 4	Side event 5	Side event 6		Side event 7	Side event 8	Side event 9		17:30-18:00						
18:00-18:30	Welcome Reception (Olatua Building Getxo Cruise Terminal)	Oral presentation WHM	Oral presentation SMF	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD		Oral presentation WHM	Oral presentation THM	Opening of the galleries of the Museum (exclusive for Delegates)				(Executive Board Meeting and Dinner)				18:00-18:30	
18:30-19:00		Oral presentation WHM	Oral presentation SMF	Oral presentation SMM	Oral presentation GPC	Oral presentation WDD		Oral presentation WHM	Oral presentation THM									18:30-19:00	
19:00-19:30		Technical Committee Meeting (Elhuyar room)				Gala Dinner (Atrium of the Guggenheim Museum)												19:00-19:30	
19:30-20:00		Social programme Pintxos Route																(Track Directors Dinner)	
20:00-20:30	Social programme Pintxos Route				(Track Directors Dinner)					20:00-20:30									
20:30-21:00	Social programme Pintxos Route				(Track Directors Dinner)					20:30-21:00									
21:00-21:30	Registration available	Social programme Pintxos Route				(Track Directors Dinner)				Gala Dinner (Atrium of the Guggenheim Museum)				(Executive Board Meeting and Dinner)				21:00-21:30	
21:30-22:00	Registration available	Social programme Pintxos Route				(Track Directors Dinner)												21:30-22:00	
22:00-22:30	All Buses returning to Bilbao	Social programme Pintxos Route				(Track Directors Dinner)												22:00-22:30	
22:30-23:00	All Buses returning to Bilbao	Social programme Pintxos Route				(Track Directors Dinner)												22:30-23:00	
23:00-23:30	All Buses returning to Bilbao	Social programme Pintxos Route				(Track Directors Dinner)				Gala Dinner (Atrium of the Guggenheim Museum)				(Executive Board Meeting and Dinner)				23:00-23:30	
	All Buses returning to Bilbao	Social programme Pintxos Route				(Track Directors Dinner)												23:00-23:30	
	All Buses returning to Bilbao	Social programme Pintxos Route				(Track Directors Dinner)												23:00-23:30	
	All Buses returning to Bilbao	Social programme Pintxos Route				(Track Directors Dinner)												23:00-23:30	

Colour code:	Olatua Building	Mixelena (440 pax)	Main Hall	Barandiarán (16 pax)	Elhuyar (24 pax)	Chillida (220 m2)	Oteiza (60 pax)	Terrace (800+400 m2)	Baroja (160 pax)	Laboa (110 m2)	Arriaga (60 pax)
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Important Note: The Organizing Committee of the EWTEC'23 reserves the right to modify this program at any time according to the circumstances

08:00-10:00	Monday September 4						
	Registration (Main Hall)						08:00-10:00
	10:00-10:50	Opening Ceremony	Mitxelena Auditorium	Jesús M. Blanco	Local Committee Chairman	10:00-10:10	
				Cameron Johnstone	EWTEC Executive Board Chair	10:10-10:20	
				Jose L. Villate	Local Committee Chairman	10:20-10:30	
				Gorka Moreno	Vicerector campus UPV/EHU	10:30-10:40	
				Arantxa Tapia	Basque Government	10:40-10:50	
	11:00-12:20	Keynote lectures (Mitxelena Auditorium)	Mitxelena Auditorium	Iñigo Losada	IH-Cantabria	11:00-11:40	
				Andrew Scott	Orbital Marine Power	11:40-12:20	
	12:20-12:30	JRL-ORE	Mitxelena Auditorium	Eider Robles	JRL-ORE	12:20-12:30	
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	
		Baroja/ Wave hydrodynamic modelling	Deborah Greaves	142	Numerical modelling of a box-type and bottom-detached oscillating water column wave energy conversion device: a comparison with experimental data and between BEM and CFD numerical modelling	Vaibhav Raghavan	14:00-14:15
				192	Numerical and experimental studies of the effects of WEC motion on a combined wind-wave energy platform	Hongbin Kim	14:15-14:30
				265	Fast time-domain model for an array of interactive point-absorbers	Charitini Stavropoulou	14:30-14:45
				547	Farm Layout Optimization of an innovative type of Hybrid Floating Breakwater	Sara Russo	14:45-15:00
				163	A CFD-FEM analysis for Anaconda WEC with mooring lines	Yang Huang	15:00-15:15
				153	CMP6 wave climate simulation in the European North East Atlantic Basin using WaveWatch III	Ponni Maya	15:15-15:30
		Laboa/ Operations, maintenance and decommissioning	Gregorio Iglesias	173	A method for the growth inhibition of biofouling in Sihwa Tidal Power Plant	SeoYeong Lee	14:00-14:15
				262	Informing Early Design Decisions Through Functional Analysis of Maintenance Drivers: Applications in Marine Renewables	Nathan Algarra	14:15-14:30
				259	Lubrication of offshore mechanical components: towards sustainable & reliable power production	Juan Guillermo Zapata Tamayo	14:30-14:45
				535	SEASNAKE: Impact - Marine operations modelling for evidence-based results detailing the impact of using a new fully dynamic cable design for ocean energy devices	Ben Kennedy	14:45-15:00
							15:00-15:15
							15:15-15:30
		Arriaga/ Structural mechanics - materials, fatigue, loadings	Claudio Lugni	181	Structural testing and numerical modelling of a glass fibre-reinforced composite demonstrator for turbine blades	Yadong Jiang	14:00-14:15
				469	Antifouling and anticorrosive prevention with ceramic coatings on offshore structures for renewable energy	David Sanchez	14:15-14:30
				389	Understanding the force motion trade off of rigid and hinged floating platforms for marine renewables	Abel Arredondo-Galeana	14:30-14:45
				147	Reducing the uncertainty of ULS load estimates in offshore structural design	Joao Cruz	14:45-15:00
				222	Critical Feature and Seawater Testing of Cross-Flow Rotor Components Fabricated with Additive Manufacturing	Rob Cavagnaro	15:00-15:15
				267	Material characterization of elastomeric bearing elements in Wave Energy Converters	Rimmie Duraisamy	15:15-15:30
		Oteiza/ Grid integration, power take-off and control	John Ringwood	174	Experimental validation of rollout-based model predictive control for wave energy converters on a two-body, taut-moored point absorber prototype	Zechuan Lin	14:00-14:15
				288	Control co-design and uncertainty analysis of the LUPA's PTO using WecOptTool	Carlos Michelen Strofer	14:15-14:30
				396	Tidal barrage operation optimization using moment-based control	Agustina Skarski	14:30-14:45
				434	Laboratory Tests Assessment of a Mechanical Sensor-less MPPT Control Strategy for Tidal Turbines	Mohammad Rafiei	14:45-15:00
590	Design considerations for a hybrid wind-wave platform under energy-maximising control			Maria Luisa Celesti	15:00-15:15		
468	Wave Excitation Force Estimation for a Multi-DoF WEC via a Cubature Kalman Filter: Improved Design and Results			Jiamin Zhu	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	Mitxelena/Side event 1	"Supergen ORE Hub Wave and Tidal Energy research and opportunities" (by SUPERGEN-ORE HUB - University of Plymouth)				16:00-17:30
		Baroja/Side event 2	"Distributed Embedded Energy Conversion Technology (DEEC-Tec)" (by Wave Energy Scotland / NREL)				16:00-17:30
		Arriaga/Side event 3	"Morphing Blades: New-Concept Tidal and Wind Turbine Blades for Unsteady Load Mitigation" (by University of Edinburgh)				16:00-17:30
17:30-19:00	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter	
		Baroja/ Wave hydrodynamic modelling	Siming Zheng	152	An Experimental Study for Wave Energy Converter of WaveStar Type using Real-Time Hybrid Model Testing Technique	Yoon-Jin Ha	17:30-17:45
				643	Demonstrating real-time hydrodynamic motion response in force control for regular waves in a robotized dry test rig with a point-absorber WEC	Dana Salar	17:45-18:00
				534	Data-base Hydrodynamic Coefficients Interpolator for Control Co-Design of Wave Energy Converters	Demian Garcia-Violini	18:00-18:15
				261	Review of TEAMER Awards for WEC-Sim Support	Beatrice Battisti	18:15-18:30
				182	Performance Enhancement of Fluidic Diode for a Wave Energy System through Genetic Algorithm	Emeel Kenikous	18:30-18:45
				272	Parametric resonance: a risk to be avoided or an opportunity to be exploited? A case for a 2:1 wave energy converter	Giuseppe Giorgi	18:45-19:00
		Laboa/ Station-keeping, moorings and foundations	Iñaki Zabala	344	Control synthesis via Impedance-Matching in panchromatic conditions: a generalised framework for moored systems	Bruno Paduano	17:30-17:45
				582	Hydrodynamic Response of Mocean Wave Energy Converter in Extreme Waves	John Ashlin Samuel	17:45-18:00
				427	The Dynamic response of floating offshore renewable energy devices: Sensativity to mooring rope stiffness	Katie Smith	18:00-18:15
				485	Experimental measurements of two elastic taut-slack mooring configurations for the multi-float M4 WEC	Samuel Draycott	18:15-18:30
							18:30-18:45
							18:45-19:00
		Arriaga/ Structural mechanics - materials, fatigue, loadings	Vincenzo Nava	410	Fatigue-life prediction methods of a dynamic power cable for a floating testing platform – a numerical approach	Daniela Benites-Munoz	17:30-17:45
				419	Beta-version Testing and Demonstration of the Design Load Case Generator: A Web-based Tool to Support IEC 62600-2 Standard Design Load Case Analyses	Vincent Neary	17:45-18:00
				490	Fatigue Life Assessment for Wave Energy Converter Mooring Lines under Realistic Wave Climates	Eguzkike Martinez	18:00-18:15
				584	Numerical Study on Overtopping Performance of Multi-stage Overtopping Wave Energy Converters	Guoliang Zhang	18:15-18:30
							18:30-18:45
							18:45-19:00
		Oteiza/ Grid integration, power take-off and control	Jon Lekube	207	A comparison of AC and DC collection grids for marine current energy	Christoffer Fjellstedt	17:30-17:45
				315	Power quality assessment of a wave energy converter using energy storage	Md Imran Ullah	17:45-18:00
				552	Dimensioning and optimization of multi-source offshore renewable energy parks	Anton Schaap	18:00-18:15
				308	A novel proposal of PTO direct-drive linear generator, an Azimuthal Multi-translator Switched Reluctance Machine (AMSRM): mechanical, characterization and performance tests.	Marcos Lafoz	18:15-18:30
375	Observer-Based Fault Estimation Applied to a Point Absorber Wave Energy Converter			Guglielmo Papini	18:30-18:45		
394	Control of multiple PTOs in single OWCs air chambers			Juan Portillo	18:45-19:00		
20:00-22:00	Social programme	Pintxos Route					20:00-22:00

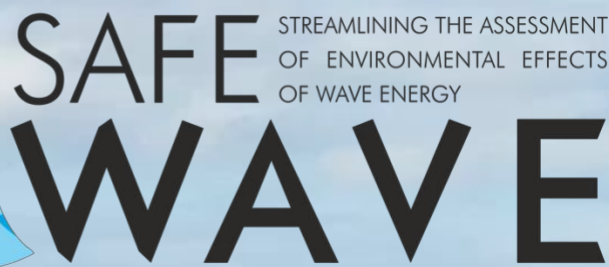
Tuesday September 5									
08:00-09:00	Registration (Main Hall)					08:00-09:00			
09:00-10:30	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter			
		Baroja/ Wave device development and testing	Diego Vicinanza	138	Analysis of Multi's OWC performance	Isabel Casas	09:00-09:15		
				144	Successful innovation strategies to overcome the technical challenges in the development of wave energy technologies	Pablo Ruiz-Minguela	09:15-09:30		
				266	Spatial 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 Giordano	09:45-10:00		
				176	Tuning Wave Energy Converters to local wave conditions	Wilson Guachamin-Azoro	10:00-10:15		
				465	Enabling the Ocean Internet of Things with Renewable Marine Energy	Matthew Topper	10:15-10:30		
		Laboa/ Tidal device development and testing	Stephanie Ordoñez-Sánchez	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 Wturbines 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		
				617	Leveraging Explainable Artificial Intelligence for Realtime Detection of Tidal Blade Damage	Muslim Jameel Syed	10:15-10:30		
		Arriaga/ Wave hydrodynamic modelling	Gareth Tomas	317	Verification and validation of MoodyMare - A free simulator tool for modelling moored WRE 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 IM wave energy converter device	Orlaine Lynggaard Hansen	09:30-09:45		
				497	Hydrodynamic studies of a 10 MW semi-submersible FOWT to assess the suitability of the inclusion of a damping system	Yu Gao	09:45-10:00		
				145	On the state-of-the-art of CFD simulations for wave energy converters within the open-source numerical framework of OpenFOAM	Aljondro Crespo	10:00-10:15		
				159	A study on Wave Energy Converter Problem of Turbine-integrated OWC Chamber	Jenny Seok Kim	10:15-10:30		
		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	Actuator-Line CFD Simulation of Tidal-Stream Turbines in a Compact Array	David Aspey	09:15-09:30		
				218	High-fidelity modeling of a vertical axis tidal turbine model under realistic flow conditions	Mikael Grondiau	09:30-09:45		
307	Synthetic eddy generation and modeling of turbine operation in a turbulent tidal flow			Matteo Gregori	09:45-10:00				
334	Impact of lateral turbine spacing on the performance of a multitorotor tidal energy device			Rachael Smith	10:00-10:15				
367	A study on tidal nodes under the combined effects of currents and waves using actuator-line CFD simulations			Federico Zito de Arcos	10:15-10:30				
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			
		Baroja/ Wave device development and testing	Claes Eskilsson	167	Experimental evaluation of phase and velocity control for a cylindrical wave energy converter	Andrei Ermakov	11:00-11:15		
				189	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	11:15-11:30		
				212	A Removable elevated-tide 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	WAVDYM: Two Rapid Prototyping Environments for Wave Energy Control	Alexandra Price	12:15-12:30		
		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	Tenris Rangan Munawera 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	Ardan 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		
				498	Experimental comparison of the flow-induced loading between a ducted - bottom-mounted twin vertical axis tidal turbine at still and in-undulated conditions	Saouli	12:15-12:30		
		Arriaga/ Wave hydrodynamic modelling	Markel Perlañza	496	Dynamic Simulation of Wave Piled Absorbers Connected to a Central Floating Platform	Thiago Sakamaki Hatada	11:00-11:15		
				428	Hydrodynamic and Static Stability Analysis of a Hybrid Offshore Wind-Wave Energy Generator: An Expansion of Semi-submersible Floating Wind Turbine Concept	Payan Aboulkhalil	11:15-11:30		
				426	Study with Large Eddy Simulations of energy dissipation due to backwash flow in wave overlapping	Claudio Sandoval	11:30-11:45		
				383	Nonlinear WEC modeling using Sparse Identification of Nonlinear Dynamics (SINDy)	Brittany Lyden	11:45-12:00		
				292	Revised and Experimental Characterization of Rotational Floating Body Deep	Bryson Robertson	12:00-12:15		
				465	A development and validation of the xFlow hydrodynamic code and the xFlow software for TACOS wave energy converter	Wacian Shang	12:15-12:30		
		Oteiza/Tidal hydrodynamic modelling	Gustavo Esteban	416	A turbine-module adapted to the marine site for tidal farm layout optimization	Mikol Pucci	11:00-11:15		
				442	High-fidelity modeling of a six-turbine tidal array in the Shetlands	Pablo Otero	11:15-11:30		
				454	Instabilities in tidal turbine wakes	Amanda Smyth	11:30-11:45		
505	On the accuracy of BEMT and CFD on the power and trust prediction of tidal turbines			Yabin Liu	11:45-12:00				
506	The performance of counter-rotating tidal turbine in different sea states			Song Fu	12:00-12:15				
544	Comparison of Actuator Line Modeling of Tidal Power Kits with ADCP Measurements			Nomai Prabahar	12:15-12:30				
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			
		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	Geelan Saha	14:15-14:30		
				260	Numerical performance assessment of a new wave energy conversion system	André F. L. Gomes	14:30-14:45		
				522	Beam testing of the 1.2-1 MW 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 Suto	15:00-15:15		
				256	Design of an integrated generator and bearing bush	Nick Baker	15:15-15:30		
		Laboa/ Tidal device development and testing	Daniel Coles	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 Dehytyov	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 Sweep on Cross-Flow Turbine Performance	Abigale Snorland	14:45-15:00		
				420	Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study	Miguel Gonzalez-Monjón	15:00-15:15		
				504	Design and Demonstration of a Passive Pitch System for Tidal Turbines	Stefano Cambuzza	15:15-15:30		
		Arriaga/ Wave hydrodynamic modelling	Sara Russo	164	Wave Amplification made an Open Circular Cavity for Wave Energy Conversion in Waters with Medium Energy Density	Jiahua-Hong Chen	14:00-14:15		
				513	System Identification for Modeling MW Wave Energy Converter	Xuefei Wang	14:15-14:30		
				198	Semi-analytical and CFD formulations of a spherical rotor	Spyridon Zafeiropoulos	14:30-14:45		
				278	Specialized Modeling of Wave Energy Converters as an Efficient Tool for Adjustment of FTO Model Parameters	Adam Kessler	14:45-15:00		
				333	A multi-scale analysis of a PoWEC farm	Jan Tan	15:00-15:15		
				538	Effects of control strategies on the performance of floating WEC point absorbers operating attached to a breakwater by line-control	Marino Bonavola	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	Alina Santa Cruz	14:00-14:15		
				676	Development of a modified BEMT model for the analysis of helical biased vertical axis tidal turbines	Mohammad Fereidoonshad	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 Optimisation of a Cross-Flow Tidal Turbine under Constraints			Karla Ruiz-Husmann	14:45-15:00				
283	Investigating the impact of multitorotor 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	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			
17:30-19:00	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter			
		Baroja/ 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 clam 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 adjustable mooring tightening technique	Andreas Aslaks	18:15-18:30		
				516	Reliability and Cost Assessment of Critical Components: Electrical generator failure of ICOM wave energy converter	Julia Fernandez Chozas	18:30-18:45		
				298	Heterogeneous WEC array optimization using the Hidden Genetic Genetic Algorithm	Habeebullah Abdulkadir	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		
				378	Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data	Mahdiyeh Faragmand	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 OES wave energy modeling task	Claes Eskilsson	18:15-18:30		
				473	HydroChorus: An Open-Source Hydrodynamics Package for Project Chorus	David Ogden	18:30-18:45		
				474	Nonlinear hydrodynamics of a heaving sphere in diffraction, radiation, and combined tests	Jana Orszagova	18:45-19:00		
		Oteiza/ Tidal hydrodynamic modelling	Pablo Ruiz-Minguela	407	Modelling the effects of boundary proximity on a tidal rotor using the actuator line method	Huw Edwards	17:30-17:45		
				464	Characterisation of turbulent flow and the wake of a tidal stream turbine in proximity to a ridge	Sulaimen Huruji	17:45-18:00		
				566	Tidal turbulence in medium depth water, primarily a model study	Göran Broström	18:00-18:15		
				316	Verification and validation of blade-resolved viscous-flow tidal turbine simulations	Manuel Rentschler	18:15-18:30		
				544	Comparison of Actuator Line Modeling of Tidal Power Kits with ADCP Measurements	Nomai Prabahar	18:30-18:45		
				Technical programme					
		19:00-20:00	Technical programme						Elhuyar
		20:00-22:00	Social programme	Track Directors Dinner					20:00-22:00

Wednesday September 6						
08:00-09:00	Registration (Main Hall)					08:00-09:00
09:00-10:30	Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter
		Baroja/ Wave device development and testing	Martyn Hann	291	Simulations of extreme wave load on an oscillating water column wave energy converter	Nhu Nguyen
				298	On the survivability of WECs through submergence and passive controllers	Elie Al Shami
				393	A probabilistic framework for fatigue damage of lift based wave energy converters	Abel Arredondo-Galeana
				382	Preliminary design of an OWC wave energy converter battery charger	D.N. Ferreira
				540	Development & performance enhancement of an AUV wave-charging system	Brian Rosenberg
				550	A methodology to measure the energy flux captured by a submerged U-OWC by using temperature sensors	Luana Gurnari
		Laboa/ Tidal device development and testing	Gustavo Esteban	137	CFD analysis of hydrodynamic force on a horizontal axis tidal turbine	Kai Xu
				150	Dynamic Responses of a 1:5-Scale Ocean Current Energy Converter	Shun-Han Yang
				328	The Development of a passive blade-pitch mechanism to reduce the loads on a tidal turbine in high-flow conditions	Thomas Summers
				348	Effects of non-isotropic blockage on a tidal turbine modeled with the Actuator-Line method	Enzo Mascrier
				400	Intracycle Control Sensitivity of Cross-Flow Turbines	Ari Athair
				402	Development of an Unmanned Mobile Current Turbine Platform	Manhar Dhanak
		Arriaga/ Tidal resource characterization	Cameron Johnstone	258	Validation of the energy resource assessment with experimental data for the site selection of a tidal turbine in the Tanes River estuary	Benedicte Hood
				302	On tidal array layout sensitivity to regional and device model representation	Connor Jordan
				457	Resource assessment using a combination of seabed mounted and semi-stationary vessel-mounted ADCP measurements	Larissa Perez
				228	Measurements of tidal flow variability in Ramsey Sound, Penobscot Bay	Jon Miles
				171	Investigation of Low Order Parameters Affecting Tidal Stream Energy Resource Assessments	Misha Patel
				178	Mapping the Unresolved Tidal Resource in Estuaries	Matt Lewis
		Oteiza/ Environmental impact and appraisal	Andrea Copping	187	Acoustic Characterization around the CalWave Wave Energy Converter	Kaustubha Raghumkar
				214	A conditional probabilistic encounter-impact model for fish-turbine interactions	Jezella Peraza
				303	SafeWAVE: The contribution of the SafeWAVE EU project to the future development of ocean energy	Juan Bald
				623	Automated detection of wildlife in proximity to marine renewable energy infrastructure using machine learning of underwater imagery	David Gold
				221	Choose Your Own Marine Energy Adventure Game: Collision Risk	Lenaig Hemery
				284	Measurements of the wake from a floating tidal energy platform	Maricarmen Guerra Paris
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
		Baroja/ Wave device development and testing	Urko Izquierdo	270	Biofilm prevention in the generator of a direct drive wave energy converter	Nick Baker
				330	Hydro-elastic interaction of polymer materials with regular waves	Krishnendu Puzhukkil
				380	Degrees of Freedom Effects on a Laboratory Scale WEC Point Absorber	Courtney Beringer
				155	Effects of projected wave climate changes on the sizing and performance of OWCs: a focus on the Mediterranean and Atlantic European coastal waters	Irene Simonetti
				211	A multi-PTO Wave Energy Converter for Low Energetic Seas: Ensenada Bay Case	Paulino Meneses Gonzalez
				216	Graphene oxide reinforced room-temperature-vulcanising elastomers for flexible wave energy converters	Xinyu Wang
		Laboa/ Tidal device development and testing	Iñigo Bidaguren	418	Design, Manufacture and Testing of an Open-Source Benchmark Composite Hydrokinetic Turbine Blade	Miguel Gonzalez-Montijo
				456	Wake characterization of tidal turbines in the Pentland Firth using vessel-mounted ADCP measurements	Marion Huchet
				553	Tidal Turbine Benchmarking Project: Stage I - Steady Flow Experiments	S.W. Tucker Harvey
				574	Tidal Turbine Benchmarking Project: Stage I - Steady Flow Blind Predictions	R.H.J. Wilden
				567	On the design of a small scale tidal converter for long time deployment at sea	Damiano Alizzio
		Arriaga/ Tidal resource characterization	Vincenzo Nava	323	Influence of the spatial variation of upstream velocity on a vertical-axis tidal turbine performance	Lilia Flores Mateo
				339	Tracking a large vortex at a tidal power site	Philippe Mercier
				577	Overview of Resource and Turbine Modeling in the Tidal Stream Industry Energiser project: TIGER	Edward MacKay
				165	Evaluating the performance of turbulence closure models for tidal stream resource characterization	Zhaoping Yang
				296	Tidal turbine wake characterization by vessel-mounted ADCP data analysis	Patxi Garcia Novo
				299	Estimation and characterisation of the wave-induced turbulent kinetic energy and turbulent dissipation from ADCP data	Clément Calvino
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
		Baroja/ Wave device development and testing	Iñigo Albaina	263	A Dual Hardware-In-the-Loop (DHIL) platform for testing and validation of WEC subsystems	Giacomo Alessandri
				430	Hardware-in-the-loop testing framework for active accumulator wave energy converters	Chen Zeng
				354	Multi wave absorber platform design, modelling and testing: Investigating the integration of multiple devices	Nial McLean
				481	Analysis of data from the full-scale prototype testing of the WASP – A novel wave measuring buoy	Brendan Walsh
				484	Open Sea Trial of a Wave-Energy Converter at Tullibole Port – Challenges	Abdus Samad
				576	Testing rig for submerged transmissions in wave energy converters as a development tool for dynamic analysis	Anthon Jonsson
		Arriaga/ Tidal resource characterization	Luke Blunden	390	Turbine fatigue load prediction from field measurements of waves and turbulence	Hannah Mullings
				428	Development of a Tool to Optimise Tidal Stream Energy Sites	Paul Evans
				432	Principles of ADCP deployment methodologies	Penny Jeffcoat
				467	Assessing wave-turbulence separation from ADCP measurements with artificial flow data	Michael Togneri
				478	Multi-criteria analysis to evaluate tidal energy potential in France	Florian Castillo
				563	Improved Modelling of Vertical Velocity Profiles at a Tidal Energy Site	Lilli Enders
		Oteiza/ Environmental impact and appraisal	Juan Bald	220	Siting tidal energy projects through resource characterization and environmental considerations	Andrea Copping
				326	ITSASDRONE, an autonomous marine surface drone for fish monitoring around wave energy converters	Ainhize Uriarte
				600	Empowering communities to participate in marine energy planning and development	Grace Chang
				374	Assessing the effect of onshore and offshore Wave Energy Converters on seafloor integrity and benthic habitats	Iñigo Muxika
				554	Effects of the spacing between two hydrokinetic turbines on the bedforms by numerical simulation	Fatima Khaled
				675	Underwater noise impact assessment of a wave energy converter in the northern Atlantic (Spain)	José Antonio García
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 7	"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
		Baroja/Side event 8	Wave Energy Converter Simulator (WEC-Sim) (by SANDIA LAB. -WEC-SIM TEAM-)			16:00-17:30
		Arriaga/Side event 9	"Instrumentation for Environmental Monitoring around Marine Energy Devices" (by Coastal Science Division-PNNL and WavEC)			16:00-17:30
20:00-22:00	Social programme	Gala Dinner (Atrium of the Guggenheim Museum)				20:00-22:00

Thursday September 7						
Registration (Main Hall)						
						08:00-09:00
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter	
	Laboa/ Grid integration, power take-off and control	Joao Henriques	472	A time domain approach for the optimal control of wave energy converter arrays	Mohamed Shabara	09:00-09:15
			493	Optimisation of Air turbines for OWC Wave Energy Converters: Sensitivity of Realistic Wave Climates	Andar Zarketa-Astigarra	09:15-09:30
			500	Integrated hydrodynamic-electrical hardware model for wave energy conversion with M4 ocean demonstrator	Judith Apsley	09:30-09:45
			409	On data-based control-oriented modelling applications in wave energy systems	Edoardo Pasta	09:45-10:00
			592	The Performance evaluation of 30kW class OWC wave power plant integrated with breakwater	Kilwom Kim	10:00-10:15
			161	Investigation on the extreme peak mooring force distribution of a point absorber wave energy converter with and without a survivability control system	Zahra Shahroozi	10:15-10:30
	Arriaga/ Wave resource characterization	Pasquale Contestabile	140	Analysis of the North Atlantic offshore energy flux from different reanalysis and hindcasts	Matias Alday	09:00-09:15
			175	Wave Spectral Analysis for designing Wave Energy Converters	Jesus Portilla-Yandun	09:15-09:30
			275	Long term wave load trends against offshore monopile structures: A case study in the Bay of Biscay	Nahia Martinez-Irujo	09:30-09:45
			279	Numerical modelling of wave and tidal current interactions and their impact on wave parameters	Tian Tan	09:45-10:00
			205	On the errors in annual energy yield estimation due to monodirectional wave spectra assumption	Giulia Cervelli	10:00-10:15
			305	Validation of ERA5 Wave Energy Flux through Sailor diagram in Spain (2005-2014)	Jon Saenz	10:15-10:30
	Oteiza/ Economical, social, legal and political aspects of ocean energy	Pablo Ruiz-Minguela	154	Do recent renewable energy policy changes in Ireland satisfy the requirements of a nascent wave energy technology development sector?	Carrie Anne Barry	09:00-09:15
			157	Integration of wave energy into Energy Systems: an insight to the system dynamics and ways forward	George Lavidas	09:15-09:30
			306	Can Risk-Based Approaches benefit future Marine Renewable Energy deployment, planning and consenting processes?	Emma Verling	09:30-09:45
			351	Towards increased social acceptability of marine renewable energy	Niall P. Dunphy	09:45-10:00
			362	Environmental Effects of MRE: Advancing the Industry through Broad Outreach and Engagement	Mikaela Freeman	10:00-10:15
	397	Informing development of a socioeconomic data collection toolkit for marine energy: a literature review	Deborah Rose	10:15-10:30		
Refreshments, networking & posters exhibition (Terrace and Chillida room)						10:30-11:00
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter	
	Baroja/ Wave device development and testing	Urko Izquierdo	453	The Impact of Uncertainty on the Control of a Multi-Axis Wave Energy Converter	Carrie Hall	11:00-11:15
			531	Spectral control co-design of wave energy converter array layout	Yerai Peña-Sánchez	11:15-11:30
			548	A new seawater low-head turbine for the OBREC	Pasquale Contestabile	11:30-11:45
			549	Experimental investigation on the hydrodynamic performance of a pile-supported OWC-type breakwater	Yusuf Almaliki	11:45-12:00
			661	Weight Reduction Methodologies for Wave Energy Devices: A Structural Analysis Approach	Michael O'Shea	12:00-12:15
	Laboa/ Grid integration, power take-off and control	Eider Robles	215	Wave Farms Integration in a 100% renewable isolated small power system: frequency stability and grid compliance analysis	Marcos Blanco	11:00-11:15
			309	Wave-to-Wire Control of an Oscillating Water Column Wave Energy System Equipped with a Wells Turbine	Marco Rosati	11:15-11:30
			510	Maximizing Wave Energy Converter Power Extraction by Utilizing a Variable Negative Stiffness Magnetic Spring	Jeff T. Grasberger	11:30-11:45
			561	Development of control strategies for novel systems of a full scale OWC for the WEDUSEA project	James Kelly	11:45-12:00
			346	Enhancing energy system resilience using tidal stream energy	Danny Coles	12:00-12:15
	Arriaga/ Wave resource characterization	Jesús M. Blanco	551	Analysis of Ocean Energy Integration in Ibero-American Electric Grids	Marcos Lafoz	12:15-12:30
			529	Impact of Resource Uncertainties on the Design of Wave Energy Converters	Markel Peñaiba	11:00-11:15
			539	Discussions on Wave energy period in higher wave energy potential marine waters of Taiwan	Shiao-Yih Tang	11:15-11:30
			159	Internal waves: A potentially untapped marine energy resource	Kastubha Raghukumar	11:30-11:45
			197	Feasibility of wave energy harvesting in the Ligurian Sea	Manuel Alejandro Corrales-González	11:45-12:00
	Oteiza/ Economical, social, legal and political aspects of ocean energy	Yago Torre-Enciso	378	Identification of optimal sites for the deployment of wave energy converters: the importance of a technology-centred approach	Riccardo Novo	12:00-12:15
			558	Operating and Extreme weather conditions for testing Offshore Devices at Marine Renewable Energy Lab (MaRELab)	Pasquale Contestabile	12:15-12:30
			398	Techno-economic analysis of marine hybrid clusters in two potential Latin American markets	Emilian Gorr-Pozzi	11:00-11:15
			399	Techno-economic optimization of an offshore hybrid power system: Argentine Basin case study	Sarah Palmer	11:15-11:30
452			Ensuring Resilience in Ocean Energy Power Plants: A Survey of Cybersecurity Measures	Thailia Nazare	11:30-11:45	
340	On the complementarity of wave, tidal, wind and solar resources in Ireland	Hafiz Ashan Said	11:45-12:00			
335	A comparison of the European Regulatory Framework for the deployment of Wave Energy Converters	Claudio Moscoloni	12:00-12:15			
507	Ocean Energy: Markets – Currency – Impact. Dimension of & Choices in the Technology Development Space	Jochem Weber	12:15-12:30			
Lunch & posters exhibition (Terrace and Chillida room)						12:30-14:00
Oral presentations	Room /Track	Chairman	Paper ID	Title	Presenter	
	Baroja/ Wave device development and testing	Tony Lewis	350	Performance enhancement of pitching WECs via oscillating water columns technology	Marco Fontana	14:00-14:15
			357	Numerical investigation of the energy performance of a wave energy converter comprising a multi-body power take-off	Félix Elefant	14:15-14:30
			395	Hybrid wind-wave systems: The case of the VoltumUS-S semi-submersible platform	Maximilian Hengstmann	14:30-14:45
			439	Analysis of the viability of a radial Double Decker Turbine for application in Oscillating Water Column devices	Alto Vega-Valladares	14:45-15:00
			445	An Early Design Phase Method for Characterizing and Comparing Wave Energy Converter Archetypes	Aeron Roach	15:00-15:15
	Arriaga/ Wave resource characterization	Jose L. Villate				15:15-15:30
			564	Upsampling wave temporal resolution: Investigating wave parameters and the influence on WEC power performance	Hannah Mankie	14:00-14:15
			619	On spatial interpolation of ocean energy source variables: A comparative analysis	Leonardo Gambarelli	14:15-14:30
			475	The application of temporal gating in the measurement of response amplitude operators	Ben Cazzolato	14:30-14:45
			310	Analysis of the impact of hoister interactions on the power extraction of a dense WEC array	Alva Bechlenberg	14:45-15:00
	483	New design options for the improvement of the Mutriku power plant	Urko Izquierdo	15:00-15:15		
	Oteiza/ Economical, social, legal and political aspects of ocean energy	Jochem Weber				15:15-15:30
			223	Using human-centered design to develop a national research landscape for marine energy in the United States	Samantha Quinn	14:00-14:15
385			Choosing Wave Energy Devices for Community Led Marine Energy Development	Molly Gear	14:15-14:30	
388			A Socioeconomic, Environmental, and Regulatory Assessment for Current Energy Converter Technologies	Jonathan Colby	14:30-14:45	
413	Floating wind and wave energy technologies: applications, synergies and role in decarbonization in Portugal	Craig White	14:45-15:00			
436	Wave energy communication and social opposition: can we improve perception of ocean energy development projects?	Maria C. Uyarra	15:00-15:15			
Closing ceremony	Mixelena Auditorium	Jesús M. Blanco	Local Committee	15:40-15:45		
		Jose L. Villate	Local Committee	15:45-15:50		
		Iñigo Ansola	Chair EVE	15:50-15:55		
		Bruce Cameron	Chair PAMEC 2024	15:55-16:00		
		C H Jo	Chair AWTEC 2024	16:00-16:05		
		Cameron Johnstone	EWTEC Executive Board	16:05-16:10		
		Luis Gato	IST Lisbon (Chair of EWTEC25)	16:10-16:15		
Social programme	Technical visits: Option 1: MUTRIKU Option 2: BIMEP					16:30-20:30
	(Executive Board Meeting and Dinner)					21:00-22:30

Paper ID	Title of the poster	Authors' List
342	Vortex induced vibrations of marine risers: validating turbulence models	Chang, Wang; Antonis Vakis; Arthur Veldman; Eize, Stamhuis
313	Grid value of co-located offshore renewable energy	Erik, Jonasson; Irina, Temiz
545	Preliminary performance assessment from towing tank testing of a horizontal-axis turbine	David, Lande-Sudall; Sondre, Tollefsen; Kjetil, Gravelsæter; Harald, Moen; Jan Bartl
377	Life Cycle Assessment of a wave energy device – LiftWEC	Paula, Bastos; Fiona, Devoy-McAuliffe; Abdel, Arredondo-Galeana; Julia Chozas; Paul, Lamont-Kane; Pedro, Almeida Vinagre
184	Experimental passive and reactive control of a Laboratory Scale WEC Point Absorber	Bret, Bosma; Courtney, Beringer; Bryson, Robertson;
586	Combining offshore wind and wave energy to supply a big size desalination plant	Beatriz, Del Rio Gamero; Julieta, Schallenberg Rodríguez; Pedro, Suarez Arocha
422	Design, installation, capacities and expenses of an indoor multipurpose modular 2D wave flume and circulating water channel	Iñigo, Bidaguren; Natalia, Montalbán; Urko, Izquierdo; Iñigo, Albaina; Alberto, Peña; Egoitz, Urtaran; Jesus Maria, Blanco;
578	Experimental Optimization Environment for Developing an Intracycle Pitch Control in Cross Flow Turbines	Stefan, Hoemer; Roberto, Leidhold; Shokoofeh, Abbaszadeh; Karla, Ruiz-Hussmann; Timo, Bennecke; Zhao, Zhao; Christian-Tora, Weber; Pierre-Luc, Delafin;
441	Increase in power generation by calculating maximum amount of drainage water using a real-time water level prediction A.I.	HeeJin, Kwack; SungHun, Lee; ByunJoon, Jun; SangJun, Min; JeonA, Baek; SeoYeong, Lee
570	Assessment of tidal energy resources in the Strait of Magellan in southern Chile	Leandro, Suarez Atias; Cristian, Escauriaza; Megan Williams; Maricarmen, Guerra;
387	Quality Function Deployment methodology as a tool for sustainable design of ocean technologies	Selef Farcia Orozco
325	Marine Renewable Energies and Maritime Spatial Planning: different national proposals for their legal and spatial context	Iratxe Mentxaka; Ibon Galparsoro; Emma Verling; Inés Machado; Enored LebBourhis; Thomas Soulard; Juan Bald
542	A Filtering device for improving the quality of cooling water in turbine generator of Sihwa Tidal Power Plant	Taekyun Kin; Hee Jin Kwak; Jee Hun Bang; Mosol Kim; Bem sug Kim
276	A new type of wave tank: prototype and proof of concept	Joannes Berque; Iñigo Zarate; Jesus Maria Blanco; Iñigo Bidaguren; Imanol Touzon; Luisa Fernandez
488	Comparison of physics-based and machine learning methods for phase-resolved prediction of waves measured in the field	Jialun Chen; Thobani Hlophe; Wenhua Zhao; Ian A. Milne; David Gunawan; Adi Kurniawan; Hyg Wolgamot; Paul H. Taylor; Jana Orszaghova
170	Wave Excitation Tests on a Fixed Sphere: Comparison of Physical Wave Basin Setups	Jacob Andersen; Morten Bech Kramer
368	Development of the Exowave Oscillating Wave Surge Converter	Sarah Krogh Iversen; Jacob Andersen; Lars Wigant; Peter Frigaard

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Supergen, providing research leadership to connect academia, industry, policy & public stakeholders, inspire innovation & maximise societal value in offshore wind, wave and tidal energy.

