

08:00-10:00	Monday September 4						08:00-10:00
	Registration (Main Hall)						
	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	
				Aranxa 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	Baroja/ Wave hydrodynamic modelling	Deborah Greaves	Paper ID	Title	Presenter	
				142	Numerical modeling 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	
				192	Numerical and experimental studies of the effects of WEC motion on a combined wind-wave energy platform	WeonCheol Koo	
				265	Fast time-domain model for an array of interactive point-absorbers	Charitini Stavropoulou	
				547	Farm Layout Optimization of an innovative type of Hybrid Floating Breakwater	Sara Russo	
		Laboa/ Operations, maintenance and decommissioning	Gregorio Iglesias	163	A CFD-FEM analysis for Anaconda WEC with mooring lines	Yang Huang	
				153	CMIP6 wave climate simulation in the European North East Atlantic Basin using WaveWatch III	Ponni Maya	
				173	A method for the growth inhibition of biofouling in Sihwa Tidal Power Plant	SeoYeong Lee	
				262	Informing Early Design Decisions Through Functional Analysis of Maintenance Drivers: Applications in Marine Renewables	Nathan Algarra	
				259	Lubrication of offshore mechanical components: towards sustainable & reliable power production	Juan Guillermo Zapata Tamayo	
		Arriaga/ Structural mechanics - materials, fatigue, loadings	Claudio Lugni	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	
		Oteiza/ Grid integration, power take-off and control	John Ringwood	181	Structural testing and numerical modelling of a glass fibre-reinforced composite demonstrator for turbine blades	Yadong Jiang	
				469	Antifouling and anticorrosive prevention with ceramic coatings on offshore structures for renewable energy	David Sanchez	
				389	Understanding the force motion trade off of rigid and hinged floating platforms for marine renewables	Abel Arredondo-Galeana	
				147	Reducing the uncertainty of ULS load estimates in offshore structural design	Joao Cruz	
				222	Critical Feature and Seawater Testing of Cross-Flow Rotor Components Fabricated with Additive Manufacturing	Rob Cavagnaro	
				267	Material characterization of elastomeric bearing elements in Wave Energy Converters	Rimmis Duraisamy	
				174	Experimental validation of rollout-based model predictive control for wave energy converters on a two-body, taut-moored point absorber prototype	Zechuan Lin	
		15:30-16:00	Refreshments, networking & posters exhibition (Terrace and Chillida room)	288	Control co-design and uncertainty analysis of the LUPA's PTO using WecOptTool	Carlos Michelen Strofer	
				396	Tidal barrage operation optimization using moment-based control	Agustina Skarski	
434	Laboratory Tests Assessment of a Mechanical Sensorless MPPT Control Strategy for Tidal Turbines			Mohammad Rafiei			
590	Design considerations for a hybrid wind-wave platform under energy-maximising control			Maria Luisa Celesti			
468	Wave Excitation Force Estimation for a Multi-DoF WEC via a Cubature Kalman Filter: Improved Design and Results			Jiamin Zhu			
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	Baroja/ Wave hydrodynamic modelling	Siming Zheng	Paper ID	Title	Presenter	
				152	An Experimental Study for Wave Energy Converter of WaveStar Type using Real-Time Hybrid Model Testing Technique	Yoon-Jin Ha	
				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	
				534	Data-base Hydrodynamic Coefficients Interpolator for Control Co-Design of Wave Energy Converters	Demian Garcia-Violini	
				261	Review of TEAMER Awards for WEC-Sim Support	Beatrice Battisti	
		Laboa/ Station-keeping, moorings and foundations	Iñaki Zabala	182	Performance Enhancement of Fluidic Dodeca for a Wave Energy System through Genetic Algorithm	Emeel Kenikous	
				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	
				344	Control synthesis via Impedance-Matching in panchromatic conditions: a generalised framework for moored systems	Bruno Paduano	
				582	Hydrodynamic Response of Mocean Wave Energy Converter in Extreme Waves	John Ashlin Samuel	
				427	The Dynamic response of floating offshore renewable energy devices: Sensitivity to mooring rope stiffness	Katie Smith	
		Arriaga/ Structural mechanics - materials, fatigue, loadings	Vincenzo Nava	485	Experimental measurements of two elastic taut-slack mooring configurations for the multi-float M4 WEC	Samuel Draycott	
		Oteiza/ Grid integration, power take-off and control	Jon Lekube	410	Fatigue-life prediction methods of a dynamic power cable for a floating testing platform - a numerical approach	Daniela Benites-Munoz	
				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	
				490	Fatigue Life Assessment for Wave Energy Converter Mooring Lines under Realistic Wave Climates	Eguzkifte Martinez	
				501	A methodology to capture the single blade loads on a cross-flow tidal turbine flume model	Timo Bennecke	
20:00-22:00	Social programme	Pintxos Route	207	A comparison of AC and DC collection grids for marine current energy	Christoffer Fjellstedt		
			315	Power quality assessment of a wave energy converter using energy storage	Md Imran Ullah		
			552	Dimensioning and optimization of multi-source offshore renewable energy parks	Anton Schaap		
			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		
			375	Observer-Based Fault Estimation Applied to a Point Absorber Wave Energy Converter	Guglielmo Papini		
			394	Control of multiple PTOs in single OWCs air chambers	Juan Portillo		