

		Monday September 4					
08:00-10:00		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		
			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	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	CMIP6 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 Skiarski	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: Sensitivity 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 Overlapping Performance of Multi-stage Overlapping 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 Lafos	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