

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



	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		Registration (Main Hall)			Registration (Main Hall)			Registration		Registration			08:00-08:30						
08:30-09:00					(Main Hail)			(Main Hall)		(Main Hall)				08:30-09:00					
09:00-09:30	Due desertue to Cotus				Oral Oral Oral		Oral		Oral Oral	Oral		Oral	Oral	Oral		09:00-09:30			
09:30-10:00	Bus departure to Getxo Regatta					presentation WDD	presentation TDD	presentation WHM	presentation THM	presentation WDD	presentation TDD	presentation TRC	presentation EIA		presentation GPC	presentation WRC	presentation ESP		09:30-10:00
10:00-10:30		Opening Ceremony (Mitxelena Auditorium)											10:00-10:30						
10:30-11:00	_	(Mixelena Auditorium)			Refre				eshments, networking & posters exhibition (Terrace and Chillida			room)			Social programme Guided tour through the				
11:00-11:30		Keynote lectures + JRL-ORE		Oral Oral Oral		Oral Oral		Oral Oral Oral			river by BILBOATS	11:00-11:30							
11:30-12:00	Regatta La mar en calma Sailing		(Mitxelena	Auditorium)		presentation presentation presentation WDD TDD WHM presentation THM		procontation	presentation WDD	presentation TDD	presentation TRC		presentation WDD	presentation GPC	presentation WRC	presentation ESP		11:30-12:00	
12:00-12:30	School in Getxo (10:00-15:00h)																	12:00-12:30	
12:30-13:00	, , , ,								Lu	nch									12:30-13:00
13:00-13:30							(Terrace and (13:00-13:30			
13:30-14:00																			13:30-14:00
14:00-14:30 14:30-15:00	Due returning to Pilhae	Oral presentation	Oral presentation	Oral	Oral	Oral presentation	Oral presentation	Oral	Oral	Oral		Oral presentation	Oral	Oral		Oral	Oral		14:00-14:30 14:30-15:00
15:00-15:30	Bus returning to Bilbao	WHM	ONM	SMM	GPC	WDD	TDD	WHM	THM	WDD		TRC	EIA	WDD		WRC	ESP		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					rene	Simerits, netwo	Tring a posters	CAMBILION (707)	acc and Crimica	100111)					Closing	Scremony			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		oldo ovoliti i	Glad Gvolit 2			Cido ovoire i	Cido oroin o			Cido Otolici	oldo ovolit o								17:00-17:30
17:30-18:00															Technic	al visits:			17:30-18:00
18:00-18:30	2 Buses departing to Olatua Building Getxo	Oral presentation	Oral presentation	Oral presentation	Oral presentation	Oral presentation		Oral presentation	Oral presentation							MUTRIKU			18:00-18:30
18:30-19:00	Cruise Terminal every 30 minutes (around 6 buses)	WHM	SMF	SMM	GPC	WDD		WHM	ТНМ							2: BIMEP			18:30-19:00
19:00-19:30							Tashaisal Car	itt Mti											19:00-19:30
19:30-20:00	w.i							nmittee Meeting ar room)											19:30-20:00
20:00-20:30	Welcome Reception (Olatua Building Getxo																		20:00-20:30
20:30-21:00	Cruise Terminal)		Social pro						Opening of the galleries of the Museum (exclusive for Delegates)					I	20:30-21:00				
21:00-21:30	Registration available		Pintxos	Route			(Track Dire	ctors Dinner)			(CACIDATE II	o. Dologatos)	ŀ						21:00-21:30
21:30-22:00														(Ex	ecutive Board N	Meeting and Din	ner)		21:30-22:00
22:00-22:30	All Buses returning to Bilbao				c 2023						Gala	Dinner							22:00-22:30
22:30-23:00		15 entec		BIL	BILBA			(At		ggenheim Museu	um)					1	22:30-23:00		
23:00-23:30				European W Energy Con	Vave and Tidal ference Series		PTEMBER 2												23:00-23:30
Colour code:	Olatua Building	Mitxelena	(440 pax)	Mai	n Hall	Barandiara	án (16 pax)	Elhuyar	(24 pax)	Chillida	(220 m2)	Oteiza	(60 pax)	Terrace (80	0+400 m2)	Baroja (160 pax)	Laboa (110 m2)	Arriaga (60 pax)
			amic modelling			Wave device d				ONM: Operations, maintenance and decommissioning ESP: Economical, social, legal and political aspects of ocean				ergy					
Tracks:			namic modelling Il impact and ap			Grid integration Wave resource						evelopment and characterization		SMF: Station-keeping, moorings and foundations SMM: Structural mechanics - materials, fatigue, loadin					



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3:00-10:00		Registration (Main Hall)						
			Jesús M. Blanco		Local Committee Chairman			
			Cameron Johnstone		EWTEC Executive Board Chair	10:10-10:20		
:00-10:50	Opening Ceremony	Mitxelena Auditorium	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		
	Keynote		lñigo Losada		IH-Cantabria	11:00-11:40		
1:00-12:20	(WILKEIEIIA	Mitxelena Auditorium	Andrew Scott		Orbital Marine Power	11:40-12:20		
2:20-12:30	Auditorium) JRL-ORE	Mitxelena Auditorium	Eider Robles		JRL-ORE	11:40-12:20 12:20-12:30		
2.20-12.30	JKL-OKE	Milkelena Additorium	Eldel Robles			12.20-12.30		
2:30-14:00					Lunch & posters exhibition (Terrace and Chillida room)		1	
		Room /Track	Chairman	Paper ID	1	Title	Presenter	
				142	Numerical modelling of a box-type and bottom-detached device: a comparison with experimental data and between	ed oscillating water column wave energy conversion seen BEM and CFD numerical modelling	Vaibhav Raghavan	
		Baroja/		192 265	Numerical and experimental studies of the effects of Vi Fast time-domain model for an array of interactive point		Hong-Bhin Kim 1 Charitini Stavropoulou 1	
		Wave hydrodynamic modelling	Deborah Greaves	163	A CFD-FEM analysis for Anaconda WEC with mooring	i-absorbers	Yang Huang	
				153	CMIP6 wave climate simulation in the European North	East Atlantic Basin using WaveWatch III	Ponni Maya 1	
							1	
				173 262	A method for the growth inhibition of biofouling in Silve Informing Early Design Decisions Through Functional	va Tidal Power Plant Analysis of Maintenance Drivers: Applications in Marine	Seo Yeong Lee 1 Nathan Algarra 1	
		Laboa/	Concrete late :	259	Renewables Lubrication of offshore mechanical components: towar		Juan Guillermo Zapita Tamayo	
	Oral	Operations, maintenance and decommissioning	Gregorio Iglesias	535	SEASNAKE: Impact - Marine operations modelling for new fully dynamic cable design for ocean energy device	evidence-based results detailing the impact of using a ses.	Ben Kennedy 1	
00-15:30	presentations			181	Structural testing and numerical modelling of a glass fi	bre-reinforced composite demonstrator for turbine blades	Yadong Jiang 1	
		Arriaga/ Structural mechanics - materials, fatigue, loadings	Claudio Lugni	469	Antifouling and anticorrosive prevention with ceramic of		David Salvador Sanz Sanchez	
				389	Understanding the force motion trade off of rigid and h		Abel Arredondo-Galeana	
				147 222	Reducing the uncertainty of ULS load estimates in of Critical Feature and Seawater Testing of Cross-Flow R	fshore structural design of the components Fabricated with Additive Manufacturing	Joao Cruz 1 Rob Cavagnaro 1	
				267	Material characterization of elastomeric bearing element	nts in Wave Energy Converters	Rimmie Duraisamy 1	
	I			174	Experimental validation of rollout-based model predicti taut-moored point absorber prototype	ve control for wave energy converters on a two-body,	Zechuan Lin 1	
				288 Control co-design and uncertainty analysis of the LUPA's PTO using WecOptTool Carlos Michelen Str				
		Oteiza/						
		Oteiza/ Grid integration, power take-off and control	John Ringwood	288 396 434	Control co-design and uncertainty analysis of the LUP Tidal barrage operation optimization using moment-ba Laboratory Tests Assessment of a Mechanical Sensor	sed control	Carlos Michelen Stroter 1 Agustina Skiarski 1 Mohammad Rafiei 1	
		Grid integration, power	John Ringwood	396 434 590	Tidal barrage operation optimization using moment-ba Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform	sed control -less MPPT Control Strategy for Tidal Turbines under energy-maximising control	Agustina Skiarski 1 Mohammad Rafiei 1 Maria Luisa Celesti 1	
5:30-16:00		Grid integration, power		396 434 590 468	Tidal barrage operation optimization using moment-ba Laboratory Tests Assessment of a Mechanical Sensor	sed control -less MPPT Control Strategy for Tidal Turbines under energy-maximising control vis a Cubature Kalman Filter: Improved Design and	Agustina Skiarski 1 Mohammad Rafiei 1	
5:30-16:00		Grid integration, power	Refreshment	396 434 590 468 s, network	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Muti-DoF WEC Results	sed control -less MPPT Control Strategy for Tidal Turbines under energy-maximising control vis a Cubature Kalman Filter: Improved Design and	Agustina Skiarski 1 Mohammad Rafiei 1 Maria Luisa Celesti 1 Paolino Tona 1	
5:30-16:00 6:00-17:30	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2	Refreshment "Supergen ORE Hu	396 434 590 468 s, network	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Mubi-DOF WEC Results ing & posters exhibition (<i>Terrace and</i> d Tidal Energy research and opportunities of the Company of th	sed control Jess MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Fiter. Improved Design and Chillida room) inities" (by SUPERGEN-ORE HUB - Univ	Agustina Skiarski 1 Mohammad Rafiel 1 Maria Luisa Celesti 1 Paolino Tona 1 ersity of Plymouth) 1 I / NREL) 1	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1	Refreshment "Supergen ORE Hu	396 434 590 468 s, network	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Muti-DoF WEO Results ing & posters exhibition (<i>Terrace and</i> d Tidal Energy research and opporture	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) Littles" (by SUPERGEN-ORE HUB - University (by SUPERGEN-ORE HUB -	Agustina Skiarski 1 Mohammad Rafiei 1 Maria Luisa Celesti 1 Paolino Tona 1 ersity of Plymouth) 1	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2	Refreshment "Supergen ORE Hu "Distribu	396 434 590 468 s, network b Wave an	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Muti-DoF WEC Results. Ing & posters exhibition (Terrace and d Tidal Energy research and opportunity of the Company of the	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) inities" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland	Agustina Skiarski 1 Mohammad Rafiel 1 Maria Luisa Celesti 1 Paolino Tona 1 ersity of Plymouth) 1 I / NREL) 1	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3	Refreshment "Supergen ORE Hu	396 434 590 468 s, network	Tidal barrage operation optimization using moment-bat Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DaF WC Results. In Sensor Se	leas MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) ittles" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland al and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing	Agustina Skiarski 1 Mohammad Rafiel 1 Maria Luisa Celesti 1 Paolino Tona 1 ersity of Plymouth) 1 I / NREL) 1	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3	Refreshment "Supergen ORE Hu "Distribu	396 434 590 468 s, network b Wave an ted Embed 152 643	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DoF WEC Results and Sensor Se	sed control less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter. Improved Design and Chillida room) inities" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) (Ittle Wavestor Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized dry test	Agustina Skiarski 1 Mohammad Rafiei 1 Maria Luisa Celesti 1 Paolino Tona 1 ersity of Plymouth) 1 I / NREL) 1 Presenter Yoon-Jin Ha 1 Dana Salar 1	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room /Track Baroja/ Wave hydrodynamic	Refreshment "Supergen ORE Hu "Distribu	396 434 590 468 s, network b Wave an atted Embed Paper ID 152 643 534	Tidal barrage operation optimization using moment-ba- Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DoF WC Classified Results In the Committee of the Commit	sed control less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter. Improved Design and Chillida room) inities" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) (Ittle Wavestor Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized dry test	Agustina Skiarski 1 Mohammad Rafiei 1 Maria Luisa Celesti 1 Paolino Tona 1 ersity of Plymouth) 1 I / NREL) 1 Presenter Yoon-Jin Ha 1 Dana Salar 1 Demian Garcia-Violini 1	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room //Track	Refreshment "Supergen ORE Hu "Distribu	396 434 590 468 s, network b Wave an ted Embed 152 643	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DoF WEC Results and Sensor Se	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) Inities" (by SUPERGEN-ORE HUB - Univ. (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing e in fonce control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters	Agustina Skiarski 1 Mohammad Rafiei 1 Maria Luisa Celesti 1 Paolino Tona 1 ersity of Plymouth) 1 I / NREL) 1 Presenter Yoon-Jin Ha 1 Dana Salar 1	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room /Track Baroja/ Wave hydrodynamic	Refreshment "Supergen ORE Hu "Distribu	396 434 590 468 s, network b Wave an 152 643 534 261 182 272	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Winne Excitation Force Estimation for a Muti-DoF WEC Results Ing & posters exhibition (Terrace and design of the properties of the propertie	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter. Improved Design and Chillida room) inities" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland al and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Teating e in force control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters a Energy System through Genetic Algorithm urbinity to be explosed? A case for a 2-1 wave energy	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 ersity of Plymouth) 1 / NREL) 1 / Presenter Yoon-Jin Ha Demian Garda-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room /Track Baroja/ Wave hydrodynamic	Refreshment "Supergen ORE Hu "Distribu	396 434 590 468 s, network b Wave an 152 643 534 261 182 272 344	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Muti-DoF WEC Results. Ing & posters exhibition (Terrace and design of the properties of the propertie	less MPPT Control Strategy for Tidal Turbines under energy-maximising control wis a Cubature Kalman Filter. Improved Design and Chillida room) inities" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland al and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing as in force control for regular waves in a robolized dry test Control Co-Design of Wave Energy Converters e Energy System through Genetic Algorithm riturity to be exploted? A case for a 2.1 wave energy matic conditions: a generalised framework for moored	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 ersity of Plymouth) 1 / NREL) 1 / NREL) 1 / Dena Salar Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi Bruno Paduano	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room/Track Baroja/ Wave hydrodynamic modelling	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	396 434 590 468 s, network b Wave an 152 643 534 261 182 272	Tidal barrage operation optimization using moment-bat Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-Def WEC Results ing & posters exhibition (Terrace and d Tidal Energy research and opportunity of the Company of the	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) Intities" (by SUPERGEN-ORE HUB - Univ. (DEEC-Tec)" (by Wave Energy Scotland al and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters In Energy System through Genetic Algorithm intunty to be exploited? A case for a 2-1 wave energy malic conditions: a generalised framework for moored inverter in Extreme Waves	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 ersity of Plymouth) 1 / NREL) 1 / Presenter Yoon-Jin Ha Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi	
	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room /Track Baroja/ Wave hydrodynamic modelling	Refreshment "Supergen ORE Hu "Distribu	96 434 590 468 s, network b Wave an 152 643 534 261 182 272 344 582	Tidal barrage operation optimization using moment-batabonotry Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DoF WC Results ing & posters exhibition (Terrace and design of the Comment	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) inties" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland at and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-time Hybrid Model Testing e in force control for regular waves in a robotized day test Control Co-Design of Wave Energy Converters is Energy System through Genetic Algorithm riturity to be explosed? A case for a 2-1 wave energy matic conditions: a generalised framework for moored overfar in Extreme Waves energy devices: Sensitivity to mooring rope stiffness energy devices: Sensitivity to mooring rope stiffness energy devices: Sensitivity to mooring rope stiffness	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 ersity of Plymouth) 1 / NREL) 1 / NREL) 1 / Presenter	
00-17:30	Side events	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room/Track Baroja/ Wave hydrodynamic modelling Laboa/ Station-keeping, moorings	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	396 434 590 468 s, network b Wave an sted Embed 152 643 534 261 182 272 344 582 427	Tidal barrage operation optimization using moment-ba- Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Must-Def WC Classified Results India Sensor India S	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) inties" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland at and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-time Hybrid Model Testing e in force control for regular waves in a robotized day test Control Co-Design of Wave Energy Converters is Energy System through Genetic Algorithm riturity to be explosed? A case for a 2-1 wave energy matic conditions: a generalised framework for moored overfar in Extreme Waves energy devices: Sensitivity to mooring rope stiffness energy devices: Sensitivity to mooring rope stiffness energy devices: Sensitivity to mooring rope stiffness	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 1 Presenter Yoon-Jin Ha Dania Saria-Violini Adam Keesler Emeel Kerikous Giuseppe Giuseppe Giuseppe Giuseppe John Ashlin Samuel Kate Smith Samuel Draycott	
00-17:30		Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room/Track Baroja/ Wave hydrodynamic modelling Laboa/ Station-keeping, moorings	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	986 434 590 468 5, network b Wave an ted Embed 152 643 534 261 182 272 344 582 427 485	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wires Excitation Force Estimation for a Muts-Dor WEC Results in the Property of	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) Littles" (by SUPERGEN-ORE HUB - University (by SUPERGEN-ORE HUB - University (by SUPERGEN-ORE HUB - University of Edinburgh) Little Wavestar Type using Real-Time Hybrid Model Testing in force control for regular waves in a robotized day test Control Co-Design of Wave Energy Converters SE Energy System through Genetic Algorithm intunity to be exploited? A case for a 2-1 wave energy intunity to be exploited? A case for a 2-1 wave energy matric conditions: a generalised framework for moored montrer in Extreme Waves energy devices: Sensitivity to mooring rope stiffness mooring configurations for the multi-float M4 WEC	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 resity of Plymouth) 1 / NREL) 1 / NREL) 1 / NREL) 1 / NREL 1 / NREL	
:00-17:30	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room /Track Baroja/ Wave hydrodynamic modelling Station-keeping, moorings and foundations	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	396 434 590 468 s, network b Wave an sted Embed 152 643 534 261 182 272 344 582 427	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Muts-DeF WEC Results Ing & posters exhibition (Terrace and d Tidal Energy research and opportunity of the Company of the C	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) inties" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland al and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters a Energy System through Genetic Algorithm riturity to be explored? A case for a 2-1 wave energy matic conditions: a generalised framework for moored montrer in Extreme Waves energy devices: Sensitivity to mooring rope stiffness mooring configurations for the multi-float M4 WEC size for a Keating testing pilatform — a numerical approach.	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 1 Presenter Yoon-Jin Ha Dania Saria-Violini Adam Keesler Emeel Kerikous Giuseppe Giuseppe Giuseppe Giuseppe John Ashlin Samuel Kate Smith Samuel Draycott	
:00-17:30	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room /Track Baroja/ Wave hydrodynamic modelling Station-keeping, moorings and foundations	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	396 434 590 468 s, network b Wave an 152 643 261 182 272 344 582 427 485	Tidal barrage operation optimization using moment-bat Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DeF WCC Results Ing & posters exhibition (Terrace and defended on the sensor of the sensor	less MPPT Control Strategy for Tidal Turbines under energy-maximising control wie a Cubature Kalman Filter Improved Design and Chillida room) inities" (by SUPERGEN-ORE HUB - Univ (DEEC-Tec)" (by Wave Energy Scotland al and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing as in force control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters as Energy System through Genetic Algorithm riturity to be explosted? A case for a 2.1 wave energy matic conditions: a generalised framework for moored inverter in Extrame Waves energy devices. Sensitivity to mooring rope stiffness beooring configurations for the multi-float MM WEC table for a floating testing platform — a numerical approach title for a floating testing platform — a numerical approach title for a floating testing platform — a numerical approach title for a floating testing platform — a numerical approach	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 ersity of Plymouth) 1 / NREL) 1 / NREL) 1 / NREL 1 / Presenter Yoon-Jin Ha Dana Salar Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi Bruno Paduano John Ashlie Smith Samuel Tayonati	
:00-17:30	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Barcja/Side event 2 Arriaga/Side event 3 Room/Track Barcja/ Wave hydrodynamic modelling Laboa/ Station-keeping, moorings and foundations	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	986 434 590 468 5, network b Wave an sted Embed 152 643 534 261 182 272 485 410 410 419 490 584	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DoF WC Classification for Estimation for a Multi-DoF WC Classification for Classification for Estimation for Classification for Classification for Classification for Unsteady Load Mittigation" (by Classification for Classification f	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) inties" (by SUPERGEN-ORE HUB - Univ. (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized day test Control Co-Design of Wave Energy Converters e Energy System through Genetic Algorithm riturity to be explosed? A case for a 2:1 wave energy matic conditions: a generalised framework for moored inverter in Extreme Waves energy devices: Sensitivity to mooring rope stiffness mooring configurations for the multi-float M4 WEC ble for a floating testing platform — a numerical approach Loed Case Generator: A Web-based Tool to Support Loofing Lines under Resillatic Wave Citrates stage Overdopping Wave Energy Converters	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 1 Presenter Yoon-Jin Ha Dana Salar Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi Bruno Paduano John Ashlin Samuel Katie Smith Samuel Draycott Daniela Benites-Munoz Vincent Neary Eguzkiñe Martinez Guolang Zhang	
:00-17:30	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room/Track Baroja/ Wave hydrodynamic modelling Laboa/ Station-keeping, moorings and foundations Arriaga/ Structural mechanics - materials, statyee, materials, statyee,	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	Paper ID	Tidal barrage operation optimization using moment-bar Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Must-Def WC Classification for Exercise Classification (Control Sensor Control Sensor Classification Force Estimation	less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Raiman Filter Improved Design and Chillida room) Inities" (by SUPERGEN-ORE HUB - Univ. (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters es Energy System through Genetic Algorithm Infinity to be espoised? A case for a 2:1 wave energy matic conditions: a generalised framework for moored inverter in Extreme Waves energy devices: Senativity to moving rope stiffness booking configurations for the multi-float M4 WEC ble for a Roading testing platform—a examinical approach Load Case Generator A Web-based Tool to Support footing Lines under Realistic Wave Cimates estage Overtopping Wave Energy Converters mandor of Transverse Asis Gosefow Tidal Turbines	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 Paolino Tona 1 1 I / NREL) 1 Presenter Yoon-Jin Ha Dana Salar Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi Bruno Paduano John Ashlin Samuel Katie Smith Samuel Draycott 1 Daniela Benites-Munoz Vincent Neary Eguzkiñe Marinez Gubliang Zhang Rönán Gallagher	
:00-17:30	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room/Track Baroja/ Wave hydrodynamic modelling Laboa/ Station-keeping, moorings and foundations Arriaga/ Structural mechanics - materials, statyee, materials, statyee,	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	986 434 590 468 5, network b Wave an sted Embed 152 643 534 261 182 272 485 410 410 419 490 584	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-DoF WC Classification for Estimation for a Multi-DoF WC Classification for Classification for Estimation for Classification for Classification for Classification for Unsteady Load Mittigation" (by Classification for Classification f	Less MPPT Control Strategy for Tidal Turbines under energy-maximising control wie a Cubature Kalman Filter Improved Design and Chillida room) Littles" (by SUPERGEN-ORE HUB - Univ. (DEEC-Tec)" (by Wave Energy Scotland al and Wind Turbine Blades University of Edinburgh) Cittle Wavestar Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters e Energy System through Genetic Algorithm tritle (Control Co-Design of Wave Energy Converters) e Energy System through Genetic Algorithm triumly to be exploited? A case for a 2.1 wave energy matic conditions a generalised framework for moored eventer in Extrame Waves energy devices: Sensitivity to mooring rope stiffness tooling configurations for the multi-float M4 WEC Load Case Generator: A Web-Dawad Tool to Support tooming Linea under Realatic Wave Cimates stage Overtopping Wave Energy Converters mance of Transverse Airs Cossitors Tidal Turbines (a mail-rolor fidel energy device)	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 1 Presenter Yoon-Jin Ha Dana Salar Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi Bruno Paduano John Ashlin Samuel Katie Smith Samuel Draycott Daniela Benites-Munoz Vincent Neary Eguzkiñe Martinez Guolang Zhang	
	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room /Track Baroja/ Wave hydrodynamic modelling Laboa/ Station-keeping, moorings and foundations Arriaga/ Structural mechanics - materials, tadgue, loadings	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	986 434 590 468 5, network b Wave an ted Embed Paper ID 152 643 534 261 182 272 344 582 427 485	Tidal barrage operation optimization using moment-bar Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Muta-DaP WEC Results Ing & posters exhibition (Terrace and d Tidal Energy research and opportunity of the Company of the C	and control Less MPPT Control Strategy for Tidal Turbines under energy-maximizing control via a Cubature Kalman Filter Improved Design and Chillida room) Littles" (by SUPERGEN-ORE HUB - University of Control (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) Little Wavestar Type using Real-Time Hybrid Model Testing in fonce control for regular waves in a robotized day test Control Co-Design of Wave Energy Converters se Energy System through Genetic Algorithm riturity to be exploted? A case for a 2-1 wave energy matric onditions: a generalised framework for mored moreder in Extreme Waves energy devices: Sensibility to mooring rope stiffness conting configurations for the multi-float M4 WEC Load Case Generator: A Web-based Tool to Support Mooring Lines under Realistic Wave Christes stage Condopping Wave Energy Converters mance of Transverse Aus Crossifice Tidal Turbines for mitigations in the multi-float Turbines for mitigations of Transverse Aus Crossifice Tidal Turbines for mitigations of Transverse Aus Crossifice Tidal Turbines for mitigations of the multi-float Hybrid Turbines for mitigations of Transverse Aus Crossifice Tidal Turbines for mitigations of the control of the contr	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 Paolino Tona 1 1 I NREL) 1 Presenter Yoon-Jin Ha Dana Salar Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giusep	
:00-17:30	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room/Track Baroja/ Wave hydrodynamic modelling Station-keeping, moorings and foundations Arriaga/ Structural mechanics - materials, tatigue, loadings Grid integration, power	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng	Paper ID	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wave Excitation Force Estimation for a Multi-Def WCC Results Image: A posterior of the Estimation for a Multi-Def WCC Results Image: A posterior of the Estimation for a Multi-Def WCC Results Image: A posterior of the Estimation for a Multi-Def WCC Results Image: A posterior of the Estimation of the Image: A posterior of t	and control Less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) Inities" (by SUPERGEN-ORE HUB - Univ. (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized day test Control Co-Design of Wave Energy Converters e Energy System through Genetic Algorithm riturity to be expolated? A case for a 2:1 wave energy matic conditions: a generalised framework for moored rivered in Extrame Waves energy devices: Sensitivity to mooring rope stiffness wording configurations for the multi-float M4 WEC ble for a floating testing platform — a numerical approach Load Case Generator A Web-based Tool to Support boring Linea under Resillatic Waive Citrates slage Overdopping Wave Energy Converters are mail-robot stiff energy device unimance of Transverse Axes Consider Tidal Turbines for mail-robot stiff energy device unimance of Transverse Axes Consider Tidal Turbines for mail-robot stiff energy device unimance of Transverse Axes Consider Tidal Turbines for mail-robot stiff energy device unimal energy parks	Agustina Skiarski Mohammad Rafiei Maria Luisa Celesti Paolino Tona 1 Paolino Tona 1 1 In Paolino Tona 1 Presenter Presenter Yoon-Jin Ha Dana Salar Demian Garcia-Volini Adam Keester Emeel Kerikous Giuseppe Giorgi Bruno Paduano John Ashlin Samuel Kate Smith Samuel Draycott Daniela Benites-Munoz Vincent Neary Eguzkiñe Martinez Guoliang Zhang Rohan Galiagher Rachael Smith Christoffer Fjellstedt Md Imran Ullah Anton Schaap	
:00-17:30	Oral	Grid integration, power take-off and control Mitxelena/Side event 1 Baroja/Side event 2 Arriaga/Side event 3 Room/Track Baroja/ Wave hydrodynamic modelling Station-keeping, moorings and foundations Arriaga/ Structural mechanics - materials, fatigue, loadings	Refreshment "Supergen ORE Hu "Distribu Chairman Siming Zheng Iñaki Zabala	396 434 590 468 s, network b Wave an 152 643 261 182 272 344 582 427 485 410 419 490 584 273 334 207	Tidal barrage operation optimization using moment-bal Laboratory Tests Assessment of a Mechanical Sensor Design considerations for a hybrid wind-wave platform Wilver Excitation Force Estimation for a Muti-DoP WEC Beauths Ing & posters exhibition (Terrace and design of the Control of the Co	and control Less MPPT Control Strategy for Tidal Turbines under energy-maximising control via a Cubature Kalman Filter Improved Design and Chillida room) Intities" (by SUPERGEN-ORE HUB - Univ. (DEEC-Tec)" (by Wave Energy Scotland all and Wind Turbine Blades University of Edinburgh) Title Wavestar Type using Real-Time Hybrid Model Testing e in force control for regular waves in a robotized day test Control Co-Design of Wave Energy Converters as Energy System through Genetic Algorithm Intunty to be explosed? A case for a 2.1 wave energy matic conditions: a generalised framework for moored reverter in Extreme Waves energy devices: Sensitivity to mooring tope stiffness mooring configurations for the multi-float MM WEC bloom a Goating testing platform — a numerical approach Load Case Generator: A Web-based Tool to Support boding Lines under Resistic Wave Cimetes stage Contropping Wave Energy Converters as a Maximulated and in many device current energy using energy storage in measuble energy parks an Azimulatal MMS-translator Switched Reluctance entimence of Tennevers Aust Consider Tidal Turbines of a maximistic staff energy device current energy using energy spriks an Azimulatal MMS-translator Switched Reluctance entimence of Communications of the Constant of	Agustina Skiarski Mohammad Rafiel Maria Luisa Celesti Paolino Tona 1 ersity of Plymouth) 1 / NREL) 1 / NREL) 1 / NREL) 1 / NREL) 1 / NREL 1 / Presenter Yoon-Jin Ha Demian Garcia-Violini Adam Keester Emeel Kerikous Giuseppe Giorgi Bruno Paduano John Ashlie Smith Samuel Draycott 1 / Natie Smith Samuel Draycott 1 / Natie Smith Samuel Dray	



					Tuesday September 5]			
08:00-09:00	8:00-99:00 Registration (Main Hall) 08:00									
		Room /Track	Chairman	Paper ID	Title Analysis of Mutriku's CWC performance	Presenter Isabel Casas	09:00-09:15			
		Baroja/ Wave device development	Diego Vicinanza	144 266	Successful innovation strategies to overcome the technical challenges in the development of wave energy technologies Spatial focussing of wave energy for improved power capture by an oscillating water column	Pablo Ruiz-Minguela Robert Mayon	09:15-09:30 09:30-09:45			
		and testing	Diego vieliuiza	352 176	Relevance of Robustness and Uncertainties Analysis in the Optimal Design of Wave Energy Converters Tuning Wave Energy Converters to local wave conditions	Filippo Giorcelli Wilson Guachamin-Acero	09:45-10:00 10:00-10:15			
				466 166	Enabling the Ocean Internet of Things with Renewable Marine Energy Intracycle Active Blade Pitch Control for Cross-Flow Tdal Turbinas Using Embedded Electric Drive Systems	Mathew Topper Zhao Zhao	10:15-10:30 09:00-09:15			
		Laboa/		209 231	Numerical optimisation of the active lift turbines using OpenFoam's overset method Non-dimensional scaling of passive adaptive blades for a marine current turbine	llan Robin Katherine Van Ness	09:15-09:30 09:30-09:45			
		Tidal device development and testing	Stephanie Ordoñez-Sanchez	264 343	Optimal Design of a Submerged Tidal Device for Low Qurrent Environment Designing Vortex Generators for Tidal Turbine Blades	Seoung-won Jeong George Papadakis	09:45-10:00 10:00-10:15			
09:00-10:30	Oral presentations			617	Leveraging Explainable Artificial Intelligence for Real-time Detection of Tidal Blade Damage Vertication and validation of MoorAfarne - A fine simulation tool for modelling mooned MRE devices	Muslim Jameel Syed Johannes Palm	10:15-10:30 09:00-09:15			
		Arriaga/		321	A hybrid linear potential flow - machine learning model for enhanced prediction of WEC performance Despit Nava analysis of the MK wave energy converter device	Claes Eskilsson Cristine Lynggard Hansen	09:15-09:30 09:30-09:45			
		Wave hydrodynamic modelling	Gareth Tomas	497	Hydrodynamic studies of a 15 MW semi-submorphile FOWT to assess the suitability of the inclusion of a damper system On the data of the art of CFD simulations for wave energy converters within the open-source numerical framework of	Yu Gao Alejandro Crespo	09:45-10:00 10:00-10:15			
				158	Duals PM-vice A Study on Wave Energy Conversion Problem of Turbine-Integrated GWC Chamber	Jeong-Seok Kim Tim Stallard	10:15-10:30			
				195	Large-eddy simulations of interaction between surface waves and a tidal turbine wake in a turbulent channel Actuators.i.ns CFD Simulation of Tidal-Steam Turbines in a Compact Array	David Apsley	09:00-09:15 09:15-09:30			
		Oteiza/Tidal hydrodynamic modelling	Tim O'Doherty	218 307	High-fidelity modeling of a vertical axis tital furthine model under realistic flow conditions Synthetic eddy generation and modeling of turbine operation in a furbulent tital flow	Mikaël Grondeau Matteo Gregori	09:30-09:45 09:45-10:00			
				367	A study on tidal notors under the combined effects of currents and waves using actuator-line CFD simulations	Federico Zilic de Arcos	10:00-10:15 10:15-10:30			
10:30-11:00		Room /Track	Chairman	Paper ID	networking & posters exhibition (<i>Terrace and Chillida room</i>) Title	Presenter	10:30-11:00			
				167	Experimental evaluation of phase and velocity control for a cyclorobr wave energy converter Wave Energy Power Take-Off Valdation with a Hydraukidy Actuated Rotary Dynamometer and a Bi-directional High-power DC Supply Methods for valdating were energy converters' mechanical and electrical power conversion systems	Andrei Ermakov Casey Nichols	11:00-11:15 11:15-11:30			
		Baroja/ Wave device development and testing	Claes Eskilsson	212 293	A Removable elevated-hinge wave generator for testing marine energy devices Wave energy converter power take-off characterization: comparing dynamometer and field data	Pedro Lomonaco Curtis Rusch	11:30-11:45 11:45-12:00			
				448 499	Limiting the available pneumatic power in a U-OWC ISAPIGYM: Two Rapid Prototyping Environments for Wave Energy Control	Joao Henriques Alexandra Price	12:00-12:15 12:15-12:30			
				285 177	A methodology for developing a prediction model for the remaining fatigue life and residual strength of tidal turbine blades Muti-Actuator Full-Scale Fatigue Test of a Tidal Blade	Tenis Ranjan Munaweera Thanthirige Sergio Lopez Dubon	11:00-11:15 11:15-11:30			
		Laboa/ Tidal device development and testing	Alberto Peña	203 277	Experimental techniques for evaluating the performance of high-blockage cross-flow turbine arrays Observations from structural testing of full-scale tidal turbine blades	Aidan Hunt William Finnegan	11:30-11:45 11:45-12:00			
11:00-12:30	Oral presentations			322 498	Experimental flow conditions effects on a bottom-mounted ducted twin vertical axis tidal turbine compared to real sea conditions Experimental comparison of the flow-induced loading between a ducted bottom-mounted twin vertical axis tidal turbine at still and an undivided monthless.	Martin Moreau Saouli	12:00-12:15 12:15-12:30			
	presentations			496 628	Dynamic Simulation of Wave Point Absorbers Connected to a Control Roating Platform Hydrodynamic and Static Stating Analysis of a Hydrid Offshore Wind-Wave Energy Generator: An Expansion of Semisubmensible Expansion Wind Fire Semisor Controls.	Thiago Saksanian Hallak Payam Aboutalebi	11:00-11:15 11:15-11:30			
		Arriaga/ Wave hydrodynamic modelling	Markel Peñalba	626 383	Northear WEC modeling using Spare Identification of Northear Dynamics (SINDy) Northear WEC modeling using Spare Identification of Northear Dynamics (SINDy)	Claudio Sandoval Brittany Lydon	11:30-11:45 11:45-12:00			
				392 460	Numerical and Experimental Characterization of Rotational Floating Body Drag A development and validation of the is-house hydrodynamics code and the DNV software for TALOS wave energy converter.	Bryson Robertson Wanan Sheng	12:00-12:15 12:15-12:30			
				416 442	A turbines-module adapted to the makine site for tidal farms layout optimization High-fidelity modeling of a six-turbine tidal array in the Sheftands	Mikol Pucci	11:00-11:15 11:15-11:30			
		Oteiza/Tidal hydrodynamic modelling	Gustavo Esteban	454	Instabilities in tidal turbine wakes On the accuracy of BEMT and CFD on the power and trust prediction of tidal turbines	Pablo Ouro Amanda Smyth	11:30-11:45 11:45-12:00			
				506 544	On the accuracy or better and over on the power and tools production or sour assente. The performance of counter-ordating islal studies in different sea states. Comparison of Actuator Line Modeling of Tisal Power Ribe with ADCP Measurements.	Yabin Liu Song Fu	12:00-12:15			
				544	Companion of Aduator Line Modeling of Tissa Power Kies with AUCH Measurements Lunch & posters exhibition	Nomal Prabahar	12:15-12:30			
12:30-14:00		<u> </u>			(Terrace and Chillida room) Title	Presenter	12:30-14:00			
		Room /Track Baroja/ Wave device development	Chairman	Paper ID	Experimental Investigation into the Air Compressibility Scaling Effect on OWC Performance and Wave Height	André F.L. Governo	14:00-14:15			
			Yago Torre-Enciso	185 260	Enhancing the efficiency of an axial impute bubble with a offuser Numerical performance assessment of a new wave energy conversion system	Geetam Saha André F. L. Governo	14:15-14:30 14:30-14:45			
		and testing		522 451	Basin testing of the 1-2-1 M4 WEC Experimental Investigation on Performance of Counter-rotating Impulse Turbine with Middle Vanes for Wave Energy Conversion	Damon Howe Kichiro Sulo	14:45-15:00 15:00-15:15			
				268 343	Design of an integrated generator and heaving buoy Designing Vortex Generators for Tidal Turbine Blades	Nick Baker Marinos Manolesos	15:15-15:30 14:00-14:15			
		Laboa/	Daniel Coles	366 365	A hara-scale blodkage comection for an amay of tidal turbines Performance Assessment of a Multi-Rotor Floating Tidal Energy System	Daniel Dehtyriov Nicholas Kaufmann	14:15-14:30 14:30-14:45			
		and testing		391 420	The Influence of the Downstream Blade Sweep on Cross-flow Turbine Performance Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study	Abigale Snortland Miguel Gonzalez-Montijo	14:45-15:00 15:00-15:15			
14:00-15:30	Oral presentations	Arriaga/ Wave hydrodynamic modelling	Bare Russo Abulbake Bahaj	504 164	Design and Demonstration of a Passive Pitch System for Tidal Turbines Wave Amplification inside an Open Circular Calsson for Wave Energy Convenion in Waters with Medium Energy Density	Stefano Gambuzza Jiahn-Horng Chen	15:15-15:30 14:00-14:15			
				513 198	System Identification for Modelling M4 Wave Energy Convener Semi-enalytical and CFD formulations of a spherical fibrater	Xuefei Wang Spyridon Zafeiris	14:15-14:30 14:30-14:45			
				278 333	Spectral Domain Modeling of Wave Energy Conventers as an Efficient Tool for Adjustment of PTO Model Parameters A multiquery analysis of a PeWEC Issm	Jian Tan Beatrice Battisti	14:45-15:00 15:00-15:15			
				538 579	Effects of control strategies on the performance of floating WEC point absorbers operating attached to a breakwater by time domain Experimental characterisation of the wake of a bottom-mounted two tandem of cylinders placed in a high velocity area	Markos Bonovas Alina Santa Cruz	15:15-15:30 14:00-14:15			
		Oteiza/Tidal hydrodynamic		676 199	Development of a modified BEMT model for the analysis of helical bladed vertical axis tidal turbines A comparative study of power production using a generic empirical model in a tidal farm	Mohammad Fereidoonnezhad Kabir Bashir Shariff	14:15-14:30 14:30-14:45			
		modelling		252 283	Objective Functions for the Blade Shape Optimisation of a Cross-Flow Tidal Turbine under Constraints Investigating the impact of multi-rotor structure shadowing on tidal stream turbine performance	Karla Ruiz-Hussmann Bryn Townley	14:45-15:00 15:00-15:15			
15:30-16:00			Ref	501	A methodology to capture the single blade loads on a cross-flow tidal turbine flume model networking & posters exhibition (Terrace and Chillida room)	Stefan Hoemer	15:15-15:30 15:30-16:00			
		Mitxelena/Side event 4			CofeMANE analysis (by ATTI (May FC)		46.00 47.20			
		Mitxelena/Side event 4			SafeWAVE project (by AZTI / WavEC)		16:00-17:30			
16:00-17:30	Side events	Baroja/Side event 5			Technology Performance Level Assessment (TPL) (by SANDIA LABTPL TEAM-)		16:00-17:30			
		Arriaga/Side event 6		NEMMO	Project, On the Cutting Edge of Tidal Blade Design and Materials (by Ocean Energy Europ	е)	16:00-17:30			
		Room /Track	Chairman	Paper ID	Title A Novel Hybrid Floating Breakwater Wave Energy Converter Device: Preliminary Experimental Investigations	Presenter Sara Russo	17:30-17:45			
		Baroja/		329	Orgami-adapted clam design for wave energy conversion	Jingyi Yang	17:30-17:45 17:45-18:00 18:00-18:15			
		Wave device development and testing	Luis Gato	274	The Geometrical Design of the L-shaped Oscillating Water Column Using Artificial Neural Network Maximizing the surge amplitude of a floater through an adaptable mooring tightening technique	Chen-Chou Lin Andreas Asiikkis	18:15-18:30			
				516 286	Relability and Cost Assessment of Critical Components: Electrical generator failure of IDOM wave energy converter Heterogeneous WEC array optimization using the Hidden Genes Genetic Algorithm	Julia Fernandez Chozas Habeebullah Abdulkadir	18:30-18:45 18:45-19:00			
	Oral			355 376	Numerical Investigation of a new hybrid Roating wind furbline concept Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data	Beatrice Fenu Mahdiyeh Farajyand	17:30-17:45 17:45-18:00			
17:30-19:00	presentations	Arriaga/ Wave hydrodynamic modelling	Jesús M. Blanco	379 426	An overview of an experimental campaign for arrays of wave energy convention systems. Solution verification of WECs: comparison of methods to estimate numerical uncertainties in the OES wave energy modelling task.	Nicolas Faedo Claes Eskilsson	18:00-18:15 18:15-18:30			
				473 474	NydroChenne: An Open-Source Hydrodynamics Package for Project Chrono Nanthear hydrodynamics of a heaving sphere in diffraction, radiation, and combined tests	David Ogden Jana Orszaghova	18:30-18:45 18:45-19:00			
				407 464	Modeling the effects of boundary proximity on a stidal rotor using the actuator line method Characterisation of furbulent flow and the wake of a stidal stream turbine in proximity to a ridge	Huw Eduards Sulaiman Hurubi	17:30-17:45 17:45-18:00			
		Oteiza/ Tidal hydrodynamic modelling	mic Pablo Ruiz-Minguela	566 316	Tidal turbulence in medium depth water, primarify a model study Verification and validation of blade-resolved viscous-flow tidal turbine simulations	Göran Broström Manuel Rentschler	18:00-18:15 18:15-18:30			
				544	Comparison of Actuator Line Modeling of Tidal Power Kiles with ADCP Measurements	Nomal Prabahar	18:30-18:45 18:45-19:00			
19:00-20:00	Technical programme	Elhuyar			Technical Committee meeting		19:00-20:00			
20:00-22:00	Social programme				Track Directors Dinner		20:00-22:00			
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				Wednesday September 6				
99:00				Registration (Main Hall)				
	Room /Track	Chairman	Paper ID	Title Simulations of extreme wave load on an oscillating water column wave energy converter	Presenter Nhu Nguyen			
			298	On the survivability of WECs through submergence and passive controllers	Elie Al Shami			
	Baroja/ Wave device development	Gareth Tomas	393 382	A probabilistic framework for fatigue damage of lift based wave energy converters	Abel Arredondo-Galeana D.N. Ferreira			
	and testing		540	Preliminary design of an OWC wave energy converter battery charger 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			
			137 150	CFD analysis of hydrodynamic force on a horizontal axis tidal turbine Dynamic Responses of a 1:5-Scale Ocean Current Energy Converter	Kai Xu Shun-Han Yang			
	Laboa/	Gustavo Esteban	328	The Development of a passive blade-pitch mechanism to reduce the loads on a tidal turbine in high- flow conditions	Thomas Summers			
	Tidal device development and testing		348	Effects of non-isotropic blockage on a tidal turbine modeled with the Actuator-Line method	Enzo Mascrier			
Oral			400	Intracycle Control Sensitivity of Cross-Flow Turbines Development of an Unmanned Mobile Current Turbine Platform	Ari Athair Manhar Dhanak			
0:30 presentations			258	Validation of the energy resource assessment with experimental data for the site selection of a tidal turbine in the Tagus River estuary.	Bénédicte Hoofd			
	Arriaga/		302 457	On tidal array layout sensitivity to regional and device model representation Resource assessment using a combination of seabed mounted and semi-stationary vessel-mounted	Connor Jordan Larissa Perez			
	Tidal resource characterization	Cameron Johnstone	228	ADCP measurements Measurements of tidal flow variability in Ramsey Sound, Pembrokeshire	Jon Miles			
			171	Investigation of Low Order Parameters Affecting Tidal Stream Energy Resource Assessments	Misha Patel			
			178 187	Mapping the Unresolved Tidal Resource in Estuaries Acoustic Characterization around the CalWave Wave Energy Converter	Matt Lewis Kaustubha Raghukumar			
			214	A conditional probabilistic encounter-impact model for fish-turbine interactions	Jezella Peraza			
	Oteiza/ Environemental impact	Andrea Copping	303	SafeWAVE The contribution of the SafeWAVE EU project to the future development of ocean energy Automated detection of wildlife in proximity to marine renewable energy infrastructure using machine	Juan Bald			
	and appraisal		623 221	Jeaming of underwater imagery Choose Your Own Marine Energy Adventure Game: Collision Risk	David Gold Lenaig Hemery			
			284	Measurements of the wake from a floating tidal energy platform	Maricarmen Guerra Paris			
11:00	Room /Track	Refreshment	Paper ID	ng & posters exhibition (Terrace and Chillida room) Title	Presenter			
	John / Hadis	- Chamman	270	Biofilm prevention in the generator of a direct drive wave energy converter	Nick Baker			
	Baroja/		330	Hydro-elastic interaction of polymer materials with regular waves	Krishnendu Puzhukkil			
	Wave device development and testing	Urko Izquierdo	380 155	Degrees of Freedom Effects on a Laboratory Scale WEC Point Absorber Effects of projected wave climate changes on the sizing and performance of OWCs: a focus on the Mediterranean and Atlantic European coastal waters	Courtney Beringer Irene Simonetti			
			211	A multi-PTO Wave Energy Converter for Low Energetic Seas: Ensenada Bay Case.	Paulino Meneses Gonzalez			
			216 418	Graphene oxide reinforced room-temperature-vulcanising elastomers for flexible wave energy converters Design, Manufacture and Testing of an Open-Source Benchmark Composite Hydrokinetic Turbine	Xinyu Wang Miguel Gonzale-Montijo			
			456	Blade Wake characterization of tidal turbines in the Pentland Firth using vessel-mounted ADCP measurements	Marion Huchet			
·12:30 Oral presentations	Laboa/ Tidal device development	Iñigo Bidaguren	553	Tidal Turbine Benchmarking Project: Stage I - Steady Flow Experiments	S.W. Tucker Harvey			
	and testing		574 567	Tidal Turbine Benchmarking Project: Stage I - Steady Flow Blind Predictions On the design of a small scale tidal converter for long time deployment at sea	R.H.J. Wilden Damiano Alizzio			
			323 339	Influence of the spatial variation of upstream velocity on a vertical-axis tidal turbine performance Tracking a large vortex at a tidal power site	Lilia Flores Mateo Philippe Mercier			
	Arriaga/		577	Overview of Resource and Turbine Modelling in the Tidal Stream Industry Energiser project: TIGER	Edward MacKay			
	Tidal resource characterization	Vincenzo Nava	165	Evaluating the performance of turbulence closure models for tidal stream resource characterization	Zhaoqing Yang			
			296 299	Tidal turbine wake characterization by vessel-mounted ADCP data analysis Estimation and characterization of the wave-induced turbulent kinetic energy and turbulent dissipation	Patxi Garcia Novo Clément Calvino			
-14:00		<u>'</u>		Lunch & posters exhibition (Terrace and Chillida room)				
	Room /Track	Chairman	Paper ID	Title	Presenter			
			430	A Dual Hardware-in-the-Loop (UHIL) platform for testing and validation of WEC subsystems Hardware-in-the-loop testing framework for active accumulator wave energy converters	Chen Zeng			
	Baroja/ Wave device development	Iñigo Albaina	354	Multi wave absorber platform design, modelling and testing: Investigating the integration of multiple wave energy absorbers into a floating offshore wind platform considering a future wind and wave	Nial McLean			
	and testing		481	Analysis of data from the full-scale prototype testing of the WASP – A novel wave measuring buoy. Open Sea Trial of a Wave-Energy Converter at Tuticorin Port – Challenges	Brendan Walsh Abdus Samad			
			576	Test rig for submerged transmissions in wave energy converters as a development tool for dynamic sealing	Anthon Jonsson			
			390	Turbine fatigue load prediction from field measurements of waves and turbulence Development of a Tool to Optimise Tidal Stream Energy Sites	Hannah Mullings Paul Evans			
Oral presentations	Arriaga/		428	Development of a Tool to Optimise Tidal Stream Energy Sites Principles of ADCP deployment methodologies	Paul Evans Penny Jeffcoate			
prosoniations	Tidal resource characterization	Luke Blunden	467	Assessing wave-turbulence separation from ADCP measurements with artifical flow data	Michael Togneri			
			478 563	Multi-criteria analysis to evaluate tidal energy potential in France Improved Modelling of Vertical Velocity Profiles at a Tidal Energy Site	Florian Castillo Lilli Enders			
			220	Siting tidal energy projects through resource characterization and environmental considerations	Andrea Copping			
	Oteiza/		326 600	ITSASDRONE, an autonomous marine surface drone for fish monitoring around wave energy devices Empowering communities to participate in marine energy planning and development	Ainhize Uriarte			
	Environemental impact and appraisal	Juan Bald	374	Empowering communities to participate in marine energy planning and development Assessing the effect of onshore and offshore Wave Energy Converters on seafloor integrity combining image-based and acoustic methods	Grace Chang Iñigo Muxika			
			554	Effects of the spacing between two hydrokinetic turbines on the bedforms by numerical simulations	Fatima Khaled			
16:00		Refreshment	675 ts, networki	Underwater noise impact assessment of a wave energy converter in the northern Atlantic (Spain) ng & posters exhibition (Terrace and Chillida room)	José Antonio García			
				CEAN ENERGY HERE AND NOW; A GLIMPSE OF BASQUE PUBLIC INITIA	TIVES TO FOSTED SECTOR			
	Mitxelena/Side event 7	SOLI OKTING THE PU	.ORE OF O	CEAN ENERGY HERE AND NOW; A GLIMPSE OF BASQUE PUBLIC INITIA SCALE-UP" (by EVE)	20 TO POSITION SECTION			
-17:30 Side events	Baroja/Side event 8	Wave Energy Converter Simulator (WEC-Sim) (by SANDIA LABWEC-SIM TEAM-)						
	Arriaga/Side event 9	Instrumentation for	Environme	"Instrumentation ntal Monitoring around Marine Energy Devices" (by Coastal Science Div	ision-PNNL and WavEC)			
Social programme	Gala Dinner e (Atrium of the Guggenheim Museum)							



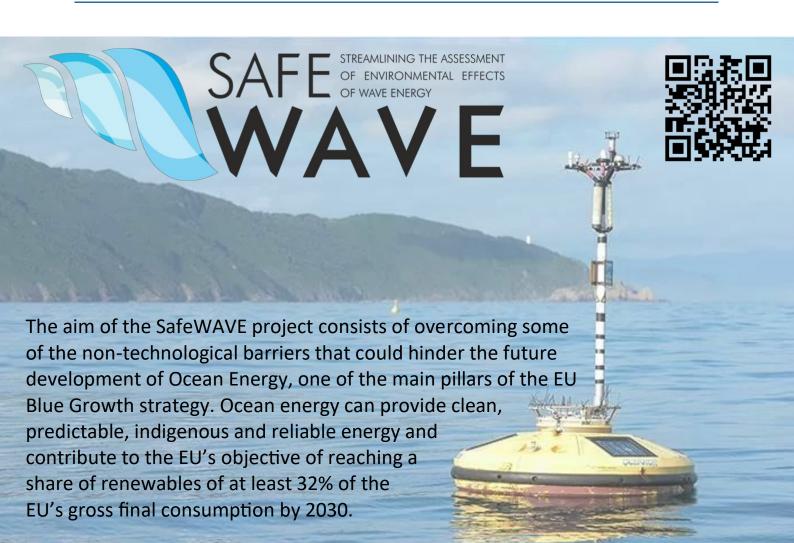
Oral presentations	Room /Track Labos/ Grid integration, power take-off and control	Chairman Joao Henriques	Registration (Main Hall) aper ID Title Prese 472 A time domain approach for the optimal control of wave energy converter arrays Mohammed 493 Optimises on of Air turbines for OWC Wave Energy Convertens. Sensibility of Realistic Wave controls. 600 Integrated hydrodynamic-electrical hardware model for wave energy conversion with M4	08
	Laboa/ Grid integration, power		472 A time domain approach for the optimal control of wave energy converter arrays Mohamed 493 Optimisation of Air turbines for OWC Wave Energy Converters: Sensibility of Realistic Wave Controls Ander Zarketa	
	Grid integration, power	Joao Henriques	493 Optimisation of Air turbines for OWC Wave Energy Converters: Sensitivity of Realistic Wave Ander Zarketa	enter
	Grid integration, power	Joao Henriques	Climates Alidel Zalketa	Shabara 09
	Grid integration, power	Joao Henriques		a-Astigarraga 09
		oodo Homiquoo	500 ocean demonstrator Judith A	Apsley 09
			409 On data-based control-oriented modelling applications in wave energy systems Edoardo	o Pasta 09
			The Performance evaluation of 30kW class OWC wave power plant integrated with breakwater Kilwon	m Kim 10
			161 Investigation on the extreme peak mooring force distribution of a point absorber wave energy converter with and without a survivability control system	hahroozi 10
			Analysis of the North Atlantic offshore energy flux from different reanalysis and hindcasts Matias	Alday 09
			175 Wave Spectral Analysis for designing Wave Energy Converters Jesus Portil	lla-Yandun 09
	Arriaga/ Wave resource	Pasquale Contestabile	275 Long term wave load trends against offshore monopile structures: A case study in the Bay of Biscay Nahia Martine:	ez-Iturricastillo 09
	characterization	Pasquale Contestabile	279 Numerical modelling of wave and tidal current interactions and their impact on wave parameters Tian	Tan 09
			On the errors in annual energy yield estimation due to monodirectional wave spectra assumption On the errors in annual energy yield estimation due to monodirectional wave spectra assumption Giulia C	Cervelli 10
			305 Validation of ERA5 Wave Energy Flux through Sallor diagram in Spain (2005-2014) Jon S.	
			Do recent renewable energy policy changes in Ireland satisfy the requirements of a nascent wave energy technology development sector? Carrie An	
	Oteiza/		157 Integration of wave energy into Energy Systems: an insight to the system dynamics and ways forward George I	
	Economical, social, legal	Pablo Ruiz-Minguela	306 Can Risk-Based Approaches benefit future Marine Renewable Energy deployment, planning and consenting processes?	
	and political aspects of ocean energy		351 Towards increased social acceptability of marine renewable energy Niall P. D.	
			362 Environmental Effects of MRE: Advancing the Industry through Broad Outreach and Engagement Mikaela F	
			397 Informing development of a socioeconomic data collection toolkit for marine energy: a Deboral literature review	h Rose 10
1:00			tworking & posters exhibition (Terrace and Chillida room)	10
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			453 The Impact of Uncertainty on the Control of a Multi-Axis Wave Energy Converter Carrie	•
	Parola/		531 Spectral control co-design of wave energy converter array layout Yerai Peña For A supposition for the block of the control control of the control of t	
	Baroja/ Wave device development	Urko Izquierdo	548 A new seawater low-head turbine for the OBREC Pasquale Co Exp Experimental investigation on the hydrodynamic performance of a pile-supported OWC-type Vicunt A	
	and testing		breakwater Tusur A	
			661 Weight Reduction Methodologies for Wave Energy Devices: A Structural Analysis Approach Michael	
			170 Wave Excitation Tests on a Fixed Sphere: Comparison of Physical Wave Basin Setups Jacob An Wave Farms Integration in a 100% renewable isolated small power system-frequency stability Marcos:	
			and grid compliance analysis.	•
	Labori		Wells Turbine Males	
	Laboa/ Grid integration, power	Eider Robles	Stiffness Magnetic Spring	
	take-off and control		project Sames	
Oral			346 Enhancing energy system resilience using tidal stream energy Danny	
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			of a technology-centred approach Operating and Extreme weather conditions for testing Offshore Devices at Marine Renewable Pasquale Cr	
			Energy Lab (MSRELab) 398 Techno-economic analysis of marine hybrid clusters in two potential Latin American markets Emillian G	
			399 Techno-economic optimization of an offshore hybrid power system: Argentine Basin case Sarah F	•
	Oteiza/ Economical, social, legal		study 452 Ensuring Resilience in Ocean Energy Power Plants: A Survey of Cybersecurity Measures Thalita !	
	and political aspects of	Yago Torre-Enciso		
	ocean energy		340 Un the compelmentanty of wave, total, who and solar resources in reland Hafiz Ash 335 A Comparison of the European Regulatory Framework for the deployment of Wave Energy Converters Claudio M	nan oaid
			Converters Converters Craudio M	
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4.00	Room /Track	Chairman	(Terrace and Chillida room) aper ID Title Prese	
		>100111111	350 Performance enhancement of pitching WECs via oscillating water columns technology Marco F	
	Baroja/ Wave device development and testing		Numerical investigation of the energy performance of a wave energy converter comprising a	
			multi-body power take-off 395 Hybrid wind-wave systems: The case of the VoltumUS-S semi-submersible platform Maximilian H	
		Tony Lewis	439 Analysis of the viability of a radial Double Decker Turbine for application in Oscillating Water Aito Vega-\	-
			Column devices An Early Design Phase Method for Characterizing and Comparing Wave Energy Converter Another Phase Method for Characterizing and Comparing Wave Energy Converter Aeron F	
			read Styles	15
			564 Upsampling wave temporal resolution: Investigating wave parameters and the influence on Hannah	
			619 On spatial interpolation of ocean energy source variables: A comparative analysis Leonardo G	
5:30 Oral	Arriaga/		475 The application of temporal gating in the measurement of response amplitude operators Natallia Sc	
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			with adaptable nonlinear PTO	
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			223 Using human-centered design to develop a national research landscape for marine energy in the United States Samanth	na Quinn 14
			385 Choosing Wave Energy Devices for Community Led Marine Energy Development Molly 0	ia quiiii
	Oteiza/ Economical, social, legal	100	388 A Socioeconomic, Environmental, and Regulatory Assessment for Current Energy Converter Technologies Jonathan	Crour
	and political aspects of ocean energy	Jochem Weber	Floating wind and wave energy technologies: applications, synergies and role in decarbonization in Portugal Craig V	
	Tan one 199		436 Wave energy communication and social opposition: can we improve perception of ocean energy development projects? Maria C.	45
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		Iñigo Ansola	Chair EVE (Basque Agency for Energy) 15:40-15:45	•
		Irene Penesis	ICOE 2024 Melbourne (Australia) 15:45-15:50	
		AbuBakr Bahaj	PRIMARE 2024 Southampton (UK) 15:50-15:55	
		Bruce Cameron	PAMEC 2024 Barranquilla (Colombia) 15:55-16:00	
:15 Closing	Mitxelena Auditorium			
Closing ceremony	Mitxelena Auditorium	011.1-	AWTEC 2024 Hangzhou (China) 16:00-16:05	
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	Mitxelena Auditorium	C H Jo	EWTEC 2025 Madeira (Portugal) 16:05-16:10	
	Mitxelena Auditorium		EWTEC 2025 Madeira (Portugal) 16:05-16:10 EWTEC Executive Board 16:10-16:15	
	Mitxelena Auditorium	Luis Gato		
	Mitxelena Auditorium	Luis Gato		
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ceremony ceremony	Mitxelena Auditorium	Luis Gato	Technical visits:	16
ceremony ceremony	Mitxelena Auditorium	Luis Gato	Technical visits: Option 1: MUTRIKU	16
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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, Tolleifsen; 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 wafe flume and circulating water channel	Iñigo, Bidaguren; Natalia, Montalban; 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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