

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	Gareth Tomas	291	Simulations of extreme wave load on an oscillating water column wave energy converter	Chris Chartrand	09:00-09:15		
				298	On the survivability of WECs through submergence and passive controllers	Elie Al Shami	09:15-09:30		
				393	A probabilistic framework for fatigue damage of lift based wave energy converters"	Abel Arredondo-Galeana	09:30-09:45		
				382	Preliminary design of an OWC wave energy converter battery charger	D.N. Ferreira	09:45-10:00		
				540	Development & performance enhancement of an AUV wave-charging system	Brian Rosenberg	10:00-10:15		
				550	A methodology to measure the energy flux captured by a submerged U-OWC by using temperature sensors	Luana Gumari	10:15-10:30		
		Laboa/ Tidal device development and testing	Gustavo Esteban	137	CFD analysis of hydrodynamic force on a horizontal axis tidal turbine	Kai Xu	09:00-09:15		
				150	Dynamic Responses of a 1.5-Scale Ocean Current Energy Converter	Shun-Han Yang	09:15-09:30		
				328	The Development of a passive blade-pitch mechanism to reduce the loads on a tidal turbine in high-flow conditions	Thomas Summers	09:30-09:45		
				348	Effects of non-isotropic blockage on a tidal turbine modeled with the Actuator-Line method	Enzo Mascrier	09:45-10:00		
				400	Intracycle Control Sensitivity of Cross-Flow Turbines	Ari Athair	10:00-10:15		
				402	Development of an Unmanned Mobile Current Turbine Platform	Manhar Dhanak	10:15-10:30		
		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 Tagus River estuary	Bénédicte Hooft	09:00-09:15		
				302	On tidal array layout sensitivity to regional and device model representation	Connor Jordan	09:15-09:30		
				457	Resource assessment using a combination of seabed mounted and semi-stationary vessel-mounted ADCP measurements	Eloi Droniou	09:30-09:45		
				228	Measurements of tidal flow variability in Ramsey Sound, Penobscot Bay	Jon Miles	09:45-10:00		
				171	Investigation of Low Order Parameters Affecting Tidal Stream Energy Resource Assessments	Misha Patel	10:00-10:15		
				178	Mapping the Unresolved Tidal Resource in Estuaries	Matt Lewis	10:15-10:30		
		Oteiza/ Environmental impact and appraisal	Andrea Copping	187	Acoustic Characterization around the CalWave Wave Energy Converter	Kaustubha Raghukumar	09:00-09:15		
				214	A conditional probabilistic encounter-impact model for fish-turbine interactions	Jezella Peraza	09:15-09:30		
				303	SafeWAVE: The contribution of the SafeWAVE EU project to the future development of ocean energy	Juan Bald	09:30-09:45		
				623	Automated detection of wildlife in proximity to marine renewable energy infrastructure using machine learning of underwater imagery	David Gold	09:45-10:00		
				221	Choose Your Own Marine Energy Adventure Game: Collision Risk	Lenaig Hemery	10:00-10:15		
				284	Measurements of the wake from a floating tidal energy platform	Maricarmen Guerra Paris	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	Urko Izquierdo	270	Biofin prevention in the generator of a direct drive wave energy converter	Nick Baker	11:00-11:15		
				330	Hydro-elastic interaction of polymer materials with regular waves	Krishnendu Puzhukilli	11:15-11:30		
				380	Degrees of Freedom Effects on a Laboratory Scale WEC Point Absorber	Courtney Beringer	11:30-11:45		
				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	11:45-12:00		
				211	A multi-PTO Wave Energy Converter for Low Energetic Seas: Ensenada Bay Case	Paulino Meneses Gonzalez	12:00-12:15		
				216	Graphene oxide reinforced room-temperature-vulcanising elastomers for flexible wave energy converters	Xinyu Wang	12:15-12:30		
		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	11:00-11:15		
				456	Wake characterization of tidal turbines in the Pentland Firth using vessel-mounted ADCP measurements	Marion Huchet	11:15-11:30		
				553	Tidal Turbine Benchmarking Project: Stage I - Steady Flow Experiments	S.W. Tucker Harvey	11:30-11:45		
				574	Tidal Turbine Benchmarking Project: Stage I - Steady Flow Blind Predictions	R.H.J. Wilden	11:45-12:00		
				567	On the design of a small scale tidal converter for long time deployment at sea	Damiano Alizzio	12:00-12:15		
								12:15-12:30	
		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	11:00-11:15		
				339	Tracking a large vortex at a tidal power site	Philippe Mercier	11:15-11:30		
				577	Overview of Resource and Turbine Modeling in the Tidal Stream Industry Engineer project: TIGER	Tim Stallard	11:30-11:45		
				165	Evaluating the performance of turbulence closure models for tidal stream resource characterization	Zhaoping Yang	11:45-12:00		
				296	Tidal turbine wake characterization by vessel-mounted ADCP data analysis	Pablo Garcia Novo	12:00-12:15		
				299	Estimation and characterisation of the wave-induced turbulent kinetic energy and turbulent dissipation from ADCP data	Clément Calvino	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	Iñigo Albaina	263	A Dual Hardware-In-the-Loop (DHIL) platform for testing and validation of WEC subsystems	Giacomo Alessandri	14:00-14:15
						430	Hardware-in-the-loop testing framework for active accumulator wave energy converters	Chen Zeng	14:15-14:30
						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	Nial McLean	14:30-14:45
						481	Analysis of data from the full-scale prototype testing of the WASP - A novel wave measuring buoy	Brendan Walsh	14:45-15:00
484	Open Sea Trial of a Wave-Energy Converter at Tutuorin Port - Challenges					Abdus Samad	15:00-15:15		
576	Test rig for submerged transmissions in wave energy converters as a development tool for dynamic sealing systems					Anthony Jonsson	15:15-15:30		
Arriaga/ Tidal resource characterization	Rodolfo Olvera-Trejo			390	Turbine fatigue load prediction from field measurements of waves and turbulence	Hannah Mullings	14:00-14:15		
				428	Development of a Tool to Optimize Tidal Stream Energy Sites	Paul Evans	14:15-14:30		
				432	Principles of ADCP deployment methodologies	Penny Jeffcoat	14:30-14:45		
				467	Assessing wave-turbulence separation from ADCP measurements with artificial flow data	Michael Tognetti	14:45-15:00		
				478	Multi-criteria analysis to evaluate tidal energy potential in France	Jordi Serrat	15:00-15:15		
				563	Improved Modelling of Vertical Velocity Profiles at a Tidal Energy Site	Lilli Enders	15:15-15:30		
Oteiza/ Environmental impact and appraisal	Juan Bald			220	Siting tidal energy projects through resource characterization and environmental considerations	Andrea Copping	14:00-14:15		
				326	ITSASDRONE, an autonomous marine surface drone for fish monitoring around wave energy devices	Ainhize Uriarte	14:15-14:30		
				600	Empowering communities to participate in marine energy planning and development	Grace Chang	14:30-14:45		
				374	Assessing the effect of onshore and offshore Wave Energy Converters on seabed integrity combining image-based and acoustic methods	Iñigo Muxika	14:45-15:00		
				554	Effects of the spacing between two hydrokinetic turbines on the bedforms by numerical simulations	Fatima Khaled	15:00-15:15		
				675	Underwater noise impact assessment of a wave energy converter in the northern Atlantic (Spain)	José Antonio García	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 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 Instrumentation for Environmental Monitoring around Marine Energy Devices" (by Coastal Science Division-PNNL & WavEC)			16:00-17:30	
20:00-22:00	Social programme			Gala Dinner (Atrium of the Guggenheim Museum)				20:00-22:00	