

			Wed	Inesday September 6	
9:00				Registration (Main Hall)	
	Room /Track	Chairman	Paper ID	Title	Presenter
		Martyn Hann	291	Simulations of extreme wave load on an oscillating water column wave energy converter	Nhu Nguyen
	Baroja/ Wave device development and testing		298 393	On the survivability of WECs through submergence and passive controllers A probabilistic framework for fatigue damage of lift based wave energy converters	Elie Al Shami Abel Arredondo-Galeana
			382	Preliminary design of an OWC wave energy converter battery charger	D.N. Ferreira
Oral			540 550	Development & performance enhancement of an AUV wave-charging system A methodology to measure the energy flux captured by a submerged U-OWC by using	Brian Rosenberg Luana Gurnari
	Laboa/ Tidal device development and testing	Gustavo Esteban	137	temperature sensors CFD analysis of hydrodynamic force on a horizontal axis tidal turbine	Kai Xu
			150	Dynamic Responses of a 1:5-Scale Ocean Current Energy Converter The Development of a passive blade-pitch mechanism to reduce the loads on a tidal turbine	Shun-Han Yang Thomas Summers
			328 348	in high-flow conditions Effects of non-isotropic blockage on a tidal turbine modeled with the Actuator-Line method	Enzo Mascrier
			400	Intracycle Control Sensitivity of Cross-Flow Turbines	Ari Athair
0:30 presentations	Arriaga/ Tidal resource characterization		402 258	Development of an Unmanned Mobile Current Turbine Platform Validation of the energy resource assessment with experimental data for the site selection of	Manhar Dhanak Bénédicte Hoofd
		Cameron Johnstone Juan Bald	302	a tidal turbine in the Tagus River estuary. On tidal array layout sensitivity to regional and device model representation. Resource assessment using a combination of seabed mounted and semistationary vessel-	Connor Jordan
			457 228	mounted ASSC measurements Measurements of tidal flow variability in Ramsey Sound, Pembrokeshire	Larissa Perez 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		220 623	Siting tidal energy projects through resource characterization and environmental considerations Automated detection of wildlife in proximity to marine renewable energy infrastructure using	Andrea Copping Mckenzie Love
	and appraisal		221	machine learning of underwater imagery Choose Your Own Marine Energy Adventure Game: Collision Risk	Lenaig Hemery
11.00		Pořezaha v ta	284	Measurements of the wake from a floating tidal energy platform	Maricarmen Guerra Paris
11:00	Room /Track	Refreshments, ne Chairman	Paper ID	posters exhibition (Terrace and Chillida room) Title	Presenter
			270	Biofilm prevention in the generator of a direct drive wave energy converter	Nick Baker
	Baroja/	Jochen Weber	330	Hydro-elastic interaction of polymer materials with regular waves Degrees of Freedom Effects on a Laboratory Scale WEC Point Absorber	Krishnendu Puzhukkil Courtney Beringer
	Wave device development and testing		155	Effects of projected wave climate changes on the sizing and performance of OWCs: a focus on the Mediterranean and Atlantic European coastal waters	Irene Simonetti
			211	A multi-PTO Wave Energy Converter for Low Energetic Seas: Ensenada Bay Case. Graphene oxide reinforced room-temperature-vulcanising elastomers for flexible wave energy	Paulino Meneses Gonzalez Xinyu Wang
	Laboa/ Tidal device development and testing	Iñigo Bidaguren	418	converters Design, Manufacture and Testing of an Open-Source Benchmark Composite Hydrokinetic Turbine Blade	Miguel Gonzale-Montijo
12:30 Oral			456	Wake characterization of tidal turbines in the Pentland Firth using vessel-mounted ADCP measurements	Marion Huchet
presentations			553 574	Tidal Turbine Benchmarking Project: Stage I - Steady Flow Experiments Tidal Turbine Benchmarking Project: Stage I - Steady Flow Blind Predictions	S.W. Tucker Harvey R.H.J. Wilden
			567	On the design of a small scale tidal converter for long time deployment at sea	Damiano Alizzio
	Arriaga/ Tidal resource characterization	Vincenzo Nava	323	Influence of the spatial variation of upstream velocity on a vertical-axis tidal turbine	Lilia Flores Mateo
			339	personnance: Pracking a large vortex at a tidal power site Overview of Resource and Turbina Modeling in the Tidal Stream Industry Energiser protect:	Philippe Mercier
			577 165	Overwer of resource and Turbne Modeling in the Tidal Stream Industry Energiser project: TIGER Evaluating the performance of turbulence closure models for tidal stream resource	Edward MacKay Zhaoqing Yang
			296	characterization Tidal turbine wake characterization by vessel-mounted ADCP data analysis	Patxi Garcia Novo
14:00			299 Lunc	Estraction and characterisation of the wave-induced turbulent kinetic energy and turbulent classeation from ADCP data h & posters exhibition acce and Chillida room)	Clément Calvino
	Room /Track	Chairman		Title	Presenter
	Room /Track	Chairman	Paper ID	A Dual Hardware-in-the-Loop (DHIL) platform for testing and validation of WEC subsystems	Giacomo Alessandri
	Baroja/		Paper ID	A Dual Hardware-in-the-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-in-the-loop testing framework for active accumulator wave energy converters Multi wave absorber patform design, modeling and testing: Investigating the integration of multiple wave energy absorbers into a footing offshow wall platform considering a future	
		Chairman Migo Albaina	Paper ID 263 430 354 481	A Dual Hardware-in-the-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-in-the-Loop testing framework for active accumulator wave energy converters. Multi-wave absorber platform design, modeling and testing: Investigating the integration of multiple wave energy absorbers into a faulting offshore will platform considering a future Analysis of data from the full-scale prototype testing of the WASP – A novel wave measuring busy.	Giacomo Alessandri Chen Zeng Nial McLean Brendan Walsh
	Baroja/ Wave device development		Paper ID 263 430 354	A Dual Hardware-in-the-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-in-the-loop testing framework for active accumulator wave energy converters Multi wave absorber patform design, modeling and testing: Investigating the integration of multiple wave energy absorbers into a footing offshow wall platform considering a future	Giacomo Alessandri Chen Zeng Nial McLean
	Baroja/ Wave device development		Paper ID 263 430 354 481 484 576 390	A Dual Hardware-In-the-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-in-the-loop testing framework for active accumulator wave energy conventers. Multi-wave absorber partition design, modeling and testing: investigating the integration of multiple wave energy absorbers to a forbing officion was platform considering a future multiple wave energy absorbers to a forbing officion was platform considering a future busy. One San Tital of Weve-Energy Conventer all Tutions Part — Challenges test (g) for authregod transmissions in wave energy conventers as a development tool for drawning sealing systems. Locker ladge and prediction from feld measurements of waves and bud valence.	Giacomo Alessandri Chen Zeng Nial McLean Brendan Walsh Abdus Samad Anthon Jonsson Hannah Mullings
Oral presentations	Baroja/ Wave device development and testing Arriaga/	Migo Albaina	Paper ID 263 430 354 481 484 576	A Dual Hardware-in-the-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-in-the-loop testing framework for active accumulator wave energy converters Multi wave absorber platform design, modelling and testing: Investigating the integration of multiple wave energy absorbers in a Garding offshore with platform considering a future 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 Tuticoin Port – Challenges Test fig for submerged transmissions in wave energy converters as a development tool for dynamic sealing volvere.	Giacomo Alessandri Chen Zeng Nial McLean Brendan Walsh Abdus Samad Anthon Jonsson
	Barojal Wave device development and testing		Paper ID 263 430 354 481 484 576 390 428 432 467	A Dual Hardware-in-the-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-in-the-Loop testing framework for active accumulator wave energy converters. Multi-wave absorber platform design, modeling and testing: Investigating the integration of multiple wave energy absorbers in a Busting offshore will platform considering a burser. Analysis of data from the full-scale prototype testing of the WASP-A novel wave measuring busy. Open Sea Trial of a Wave-Energy Converter at Tuticon Port — Challenges. The strip for submerged transmissions in wave energy converters as a development tool for dynamic sealing systems. Tuther fatigue boat predictor from field measurements of waves and furbulence. Development of a Tool to Optimize Trial Stream Energy Stess. Principles of ADCP deply yiment methodologies. Assessing wave-budulence separation from ADCP measurements with artifical flow data	Glacomo Alessandri Chen Zeng Nial McLean Brendan Walsh Abdus Samad Anthon Jonsson Hannah Mullings Paul Evans Penny Jeffcoate Michael Togneri
	Baroja/ Wave device development and testing Arriaga/ Tidal resource	Migo Albaina	Paper ID 263 430 354 481 484 576 390 428 432	A Dual Hardware-in-the-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-in-the-Loop testing framework for active accumulator wave energy converters. Multi-wave absorber platform design, modeling and testing: Investigating the integration of multiple wave energy absorbers in a Stating offshore wall platform considering a future. Analysis of data from the full-scale prototype testing of the WASP – A novel wave measuring busy. Open Sea Trial of a Wave-Energy Converter at Tutiori Port – Challenges. The start go for authority of the Stating of the WASP – A novel wave measuring busy. Testing for pubmenged transmissions in wave energy converters as a development tool for dynamic sealing spatiens. Tutions fatigue bod prediction from field ineasurements of waves and furfulence. Development of a Tool to Optimize Tital Stream Energy Stess.	Glacomo Alessandri Chen Zeng Nial McLean Brendan Walsh Abdus Samad Anthon Jonsson Hannah Mullings Paul Evans Penny Jeffcoate
	Baroja/ Wave device development and testing Arriaga/ Tidal resource	Migo Albaina	Paper ID 263 430 354 481 484 576 390 428 432 467 478 563 303	A Dual Hardware-Indie-Loop (DHIL) platform for testing and validation of WEC subsystems Hardware-Indie-Loop testing framework for active accumulator wave energy converters Multi-wave absorber period resign, modeling and testing: Investigating the integration of multiple wave energy boshware has distaling difficient way platform considering a future full platform of state from the full-scale prototype testing of the full-SP – A novel wave measuring busy. Journal of state from the full-scale prototype testing of the full-SP – A novel wave measuring busy. Journal of the full platform of the full platform of the full-scale prototype testing of the full-SP – A novel wave measuring busy. Journal of the full platform the full platform Port — Challenges Test fig for automorphic transmissions in wave energy convertien as a development tool for dynamic selficial spread for the full platform of the full pl	Giacomo Alessandri Chen Zeng Nial McLean Brendan Walsh Abdus Samad Anthon Jonsson Hannah Mullings Paul Evans Penny Jeffcoate Michael Togneri Florian Castillo
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	Baroja/ Wave device development and testing Arriaga/ Tidal resource characterization Oteiza/ Environemental impact and appraisal	Itigo Albaina Luke Biunden Andrea Copping Refreshments, ne	Paper ID 263 430 354 481 481 576 390 428 432 457 478 663 303 326 600 374 554 675 tworking & ITURE OF OC	A Dual Hardware-Indie-Loop (DHIL) platform for testing and validation of WEC subsystems itsicisane in-the-Loop testing framework for active accumulator wave energy converters. Multi-wave absorber platform design, modeling and testing: investigating the integration of recipitive wave energy absorbers to a disting difficient way platform convelleng as future under a distinct of data from the list-scale prototype tessing of the VM-SP — A rever some energy buye. Joseph Sear Tailor of Wew-Energy Converter at Tutcions Pad-Challenges Tast rig for submerged transmissions in wave energy converters as a development tool for dynamic earlier of the Wew-Energy Converters as a development tool for dynamic earlier of the Wew-Energy Converters as a development tool for dynamic earlier of the Wew-Energy Converters as a development tool for dynamic earlier of the Wew-Energy Converters as a development tool for dynamic earlier of the Wew-Energy Converters as a development tool for dynamic earlier of ADCP deployment methodologies Assessing wave-furthering the prototype of the Wew-Energy Converters of the State Converters of the Wew-Energy Converters of the State Converters of the Wew-Energy Planting and development of occasionary of the Wew-Energy Converters on seafour triegity co-Effects of the spacing between two hydrokhelic butches on the bedforms by numerical simular Underwater noise impact assessment of a wave energy converter in the northern Allantic (Spaps) and the Converters of the Converters on seafour triegity co-Effects of the spacing between two hydrokhelic butches on the bedforms by numerical simular underwater noise impact assessment of a wave energy converter in the northern Allantic (Spaps) and the Converters of the Converters on the Converters of the Wew-Energy Person of the Wew-Energy Person of the Read of the Person of the Wew-Energy Converters on the Converters of the Read of the Person of the	Giacomo Alessandri Chen Zeng Nial McLean Brendan Walsh Abdus Samad Anthon Jonsson Hannah Mullings Paul Evans Penny Jeffcoate Michael Togneri Florian Castillo Lilli Enders Juan Bald Ainhize Uriarte Grace Chang Iliigo Muxika Fatima Khaled José Antonio García
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