

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 (Main Hall) | | | Registration (Main Hall) | | | | 08:00-08:30 | | | | |
| 08:30-09:00 | | | | | | | | | | | | | | | | 08:30-09:00 | | | |
| 09:00-09:30 | Due desertues to Cohie | | | | Oral Oral Oral | | | 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 (| | | | | | | | | | | | | | | 10:00-10:30 | |
| 10:30-11:00 | | | (WILXCIONG) | | | | | | Refres | eshments, networking & posters exhibition (Terrace and Chillida | | | room) | | | Social programme Guided tour through the | | | |
| 11:00-11:30 | | | Keynote lectur | es + .IRI -ORF | | Oral | Oral | Oral | 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 WDD | presentation TDD | presentation WHM | presentation THM | 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 C | | | | | | | | | | | 13:00-13:30 | | |
| 13:30-14:00 | | | | | | | | | | | | | | | | | | | 13:30-14:00 |
| 14:00-14:30 14:30-15:00 | Puo raturnina to Pilhao | 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 r | | | | | | room) Closing Ceremony | | | | | | 15:30-16:00 | | | | | |
| 16:00-16:30 | | THE ISSUED | | | intents, networking a posters exhibition (remade and criminal | | | 155.11) | | | Clouring Continuity | | | | 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 | | | | | | | | | | | | | | | | | | | 17:00-17:30 |
| 17:30-18:00 | 0.0 | | | | | | | | | | | | | | Technic | cal 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 | n | | | Option 1: MUTRIKU | | | | 18:00-18:30 | | | |
| 18:30-19:00 | Cruise Terminal every 30 minutes (around 6 buses) | WHM | SMF | SMM | GPC | WDD | | WHM | ТНМ | | | | | | Option 2 | 2: BIMEP | | | 18:30-19:00 |
| 19:00-19:30 | | | | | | | Technical Cor | nmittee Meeting | | | | | | | | | | | 19:00-19:30 |
| 19:30-20:00 | Walaama Daaantian | | | | | | | 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) | | | (0,0,0,0,0,0 | 2010gat03) | ľ | | | | | | 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 eltec | | | 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 energy | | | | 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, loadings | | | | | |



| | | | | | Monday September 4 | | | |
|-------------|----------------------|---|---|--|---|---|--|--|
| :00-10:00 | | | | | Registration (Main Hall) | | | 08:00- |
| 0:00-10:50 | Opening Ceremony | Mitxelena Auditorium | Jesús M. Blanco Cameron Johnstone 1 Auditorium Jose L. Villate Gorka Moreno | | ne EWTEC Executive Board Chair 10:10-10:20 Local Committee Chairman 10:20-10:30 | | | |
| 11:00-12:20 | (WILK GIGITA | Mitxelena Auditorium | Arantxa Tapia | | Basque Government IH-Cantabria | Basque Government 10:40-10:50 | | |
| 12:20-12:30 | Auditorium) JRL-ORE | Mitxelena Auditorium | Andrew Scott Eider Robles | | Orbital Marine Power JRL-ORE | 11:40-12:20 12:20-12:30 | | |
| | | | | | Lunch & posters exhibition | | | 12:30- |
| 2:30-14:00 | | | | 1 | (Terrace and Chillida room) | | | 12:30- |
| | | Room/Track Baroja/ Wave hydrodynamic modelling | Chairman Deborah Greaves | 142 192 265 163 153 | Numerical modelling of a box-type and bottom-detache | tl-absorbers | | 14:00- 14:15- 14:30- 14:45- 15:00- 15:15- |
| | Oral | Laboa/ Operations, maintenance and decommissioning | Gregorio Iglesias | | Informing Early Design Decisions Through Functional Renewables Lubrication of Offshore mechanical components: towa SEASNAKE: Impact - Marine operations modelling for new fully dynamic cable design for ocean energy devi | Nathan Algarra Juan Guillermo Zapita Tamayo Ben Kennedy | 14:00- 14:15- 14:30- 14:45- 15:00- 15:15- | |
| 0-15:30 | presentations | Arriaga/ Structural mechanics - materials, fatigue, loadings | Claudio Lugni | 181 469 389 147 222 267 | Anticoling and anticomosive prevention with ceramic coatings on offshore structures for renewable energy David St. Understanding the force motion trade off of rigid and hinged floating platforms for marine renewables* Abel J Reducing the uncertainty of ULS load estimates in offshore structural design Official Feature and Selexister Testing of Cross-Row Rotor Components Fabricated with Additive Manufacturing Fig. 1. Feature and Selexister Testing of Cross-Row Rotor Components Fabricated with Additive Manufacturing | | Yadong Jiang David Salvador Sanz Sanchez Abel Arredondo-Galeana Joao Cruz Rob Cavagnaro | 14:00- 14:15- 14:30- 14:45- 15:00- 15:15- |
| | | Oteiza/ Grid integration, power take-off and control | John Ringwood | 174 288 396 434 590 | Experimental validation of robust-based model predict laut-moored point absorber protein. Control co-design and uncertainty analysis of the LUP Tdat 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 WEC. | Agustina Skiarski Mohammad Rafiei Maria Luisa Celesti | 14:00 14:15 14:30 14:45 15:00 15:15 | |
| :30-16:00 | | | Refreshment | | Results ng & posters exhibition (Terrace and | Chillida room) | T dome Total | 15:30 |
| | | Mitxelena/Side event 1 | "Supergen ORE Hu | b Wave and | l Tidal Energy research and opportun | ities" (by SUPERGEN-ORE HUB - Unive | ersity of Plymouth) | 16:00 |
| :00-17:30 | Side events | Baroja/Side event 2 | "Distribu | ted Embed | ded Energy Conversion Technology (| DEEC-Tec)" (by Wave Energy Scotland | / NREL) | 16:00 |
| | | Arriaga/Side event 3 | | | "Morphing Blades: New-Concept Tide for Unsteady Load Mitigation" (by | | | 16:00 |
| | | Room /Track | Chairman | Paper ID | | Fitle Wavestar Type using Real-Time Hybrid Model Testing | Presenter | 4 |
| | | Baroja/ Wave hydrodynamic modelling | Markel Peñalba | 152 643 534 261 182 272 | Technique Demonstrating real-lime hydrodynamic motion respons ig with a point-absorber WEC Data-base Hydrodynamic Coefficients Interpolator for re- Review of TEAMER Awards for WEC-Sim Support Performance Enhancement of Fluidic Diode for a Wav | e in force control for regular waves in a robotized dry test Control Co-Design of Wave Energy Converters | Dana Salar Yerai Peña-Sanchez Adam Keester Emeel Kerikous | 17:30- 17:45- 18:00- 18:15- 18:30- 18:45- |
| 17:30-19:00 | Oral | Laboa/ Station-keeping, moorings and foundations | lñaki Zabala | 344 582 427 485 | Control synthesis via Impedance-Matching in panchrosystems Hydrodynamic Response of Mocean Wave Energy Co The Dynamic response of Boating offshore renewable Experimental measurements of two elastic taut-slack in | energy devices: Sensitivity to mooring rope stiffness | Vengatesan Venugopal Katie Smith Samuel Draycott | 17:30 17:45 18:00 18:15 18:30 18:45 |
| | presentations | Arriaga/ Structural mechanics - materials, fatigue, loadings | Vincenzo Nava | 410 419 490 584 273 | Beta-version Testing and Demonstration of the Design IEC 02500.2 Standard Design Load Case Analyses Fatigue Like Assessment for Nave Energy Conventor to Numerical Study on Overlooping Performance of Multi A Numerical study on the effect of soliday on the performance. | Aboring Lines under Realistic Wave Climates -stage Overlopping Wave Energy Converters -smance of Transverse Axis Crossflow Tidal Turbines | Daniela Benites-Munoz Vincent Neary Eguzkiñe Martinez Guoliang Zhang Rònán Gallagher | 17:30 17:45 18:00 18:15 18:30 |
| | | Oteiza/ Grid integration, power take-off and control | Jon Lekube | 617 207 315 552 308 375 | Leveragna Explanation Antivial Intelligence for Realthand A comparison of AC and DC collection grids for marine Power quality assessment of a wave energy converter Dimensioning and optimization of multi-source offshorn A novel proposal of PTO direct-drive linear generator, Machine (AMSSM), mechanical, characterization and goosever-Based Fault Estimation Applied to a Point A | current energy using energy storage energy parks enerweble energy parks an Azmuthal Mill-translator Switched Retuctance enformance tests, baocher Wave Energy Converter | Christoffer Fjellstedt Md Imran Ullah Anton Schaap Jorge Nájera Guglielmo Papini | 18:45 17:30 17:45 18:00 18:15 18:30 |
| 0:00-22:00 | Social programme | | | 394 | Control of multiple PTOs in single OWC's air chambers Pintxos Route | | | 18:45 20:00 |



| | | | En | | Tuesday September 5 | |
|-------------------------|---|--|-------------------------------------|---|--|--|
| :00-09:00 | | | | | Registration (Main Hall) | 0 |
| | | Room /Track | Chairman | Paper ID | Title Analysis of Mutriku's OWC performance | Presenter Isabel Casas 0 |
| | | Paraia! | | 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 0 Robert Mayon 0 |
| | | Baroja/ Wave device development and testing | Diego Vicinanza | 352 | Relevance of Robustness and Uncertainties Analysis in the Optimal Design of Wave Energy Converters | Robert Mayon 0 Filippo Giorcelli 0 |
| | | | | 176 466 | Tuning Wave Energy Converters to local wave conditions Enabling the Ocean Internet of Things with Renewable Marine Energy | Wilson Guachamin-Acero 1 Mathew Topper 1 |
| | | | | 166 | Intracycle Active Blade Pitch Control for Cross-Flow Tidal Turbines Using Embedded Electric Drive Systems | Zhao Zhao 0 |
| | | Laboa/ | | 209 | 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 0 Katherine Van Ness 0 |
| | | Tidal device development and testing | Stephanie Ordonez-Sanchez | 264 | Optimal Design of a Submerged Tidal Device for Low Current Environment | Seoung-won Jeong 0 |
| | Oral | | | 343 | Designing Vortex Generators for Tidal Turbine Blades | George Papadakis 1 |
| 0-10:30 pr | presentations | | | 317 | Verification and validation of MoodyMarine - A free simulation tool for modelling moored MRE devices | Johannes Palm 0 |
| | | Arriaga/ | | 321 476 | A hybrid linear potential flow - machine learning model for enhanced prediction of WEC performance Design Wave analysis of the IM wave energy converter device | Claes Eskilsson 0 Cristine Lynggard Hansen 0 |
| | | Wave hydrodynamic modelling | Gareth Tomas | 145 | On the state-of-the-art of OFD simulations for wave energy converters within the open-source numerical framework of Qualis Physics | Alejandro Crespo |
| | | | | 158 | A Study on Wave Energy Conversion Problem of Turbine-Integrated OWC Chamber | Jeong-Seok Kim 1 |
| | | | | 503 195 | Large-eddy simulations of interaction between surface waves and a tidal turbine wake in a turbulent channel Actuator-Line CFD Simulation of Tidal-Stream Turbines in a Compact Array | Tim Stallard 0 |
| | | Oteiza/Tidal hydrodynamic | Tim O'Doherty | 218 | High-fidelity modeling of a vertical axis tidal turbine model under realistic flow conditions | David Apsley 0 Mikaěl Grondeau 0 |
| | | modelling | inii Obuleity | 307 | Synthetic eddy generation and modelling of turbine operation in a turbulent tidal flow A study on tidal rotors under the combined effects of currents and waves using actuator-line CFD simulations | Francesco Salvatore |
| | | | | 334 | Impact of lateral turbine spacing on the performance of a multi-rotor tidal energy device | Federico Zilic de Arcos Bryn Townley 1 |
| 30-11:00 | | Room /Track | Ref Chairman | Paper ID | , networking & posters exhibition (Terrace and Chillida room) Title | Presenter 1 |
| | | | | 167 | Experimental evaluation of phase and velocity control for a cyclorotor wave energy converter | Andrei Ermakov 1 |
| | | Baroja/ | | 169 212 | Wave Energy Power Take-off Validation with a Hydraulichy Actuated Rotary Dynamometer and a Bi-directional High-power DC Supply. Methods for validating wave energy conventerin "mechanical and elicetrical power conversion systems A Removable elevated-hinge wave generator for testing marine energy devices | Casey Nichols 1 Pedro Lomonaco 1 |
| | | Wave device development and testing | Claes Eskilsson | 293 | Wave energy converter power take-off characterization: comparing dynamometer and field data | Curtis Rusch 1 |
| | | | | 448 499 | Limiting the available pneumatic power in a U-OWC HAPIGYM. Two Rapid Protolyping Environments for Wave Energy Control | Joao Henriques 1 Alexandra Price 1 |
| | | | | 285 | A methodology for developing a prediction model for the remaining fatigue life and residual strength of tidal turbine blades | Tenis Ranjan Munaweera Thanthirige |
| | | Laboa/ | | 177 203 | Multi-Actuator Full-Scale Fatigue Test of a Tidal Blade Experimental techniques for evaluating the performance of high-blockage cross-flow turbine arrays | Sergio Lopez Dubon 1 Aidan Hunt 1 |
| | | Laboa/ Tidal device development and testing | Alberto Peña | 277 | Observations from structural testing of full-scale tidal turbine blades | William Finnegan 1 |
| 00-12:30 pr | Oral resentations | | | 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 undusted remotive. | Martin Moreau 1 Saouli 1 |
| " | | | | 496 628 | Appares Smiths of Wave Point Absorbers Connected to a Central Footing Platform Hydrodynamic and Static Stability Analysis of a Hybrid Offshore Wind-Wave Energy Generation: An Expansion of Semisubmersible | Thiago Saksanian Hallak 1 Payam Aboutalebi 1 |
| | | Arriaga/ Wave hydrodynamic modelling | Markel Peñaiba | 626 | The body with Large Eddy Smutations of energy dissipation due to backwash flows in wave overlooping. | Claudio Sandoval 1 |
| | | | | 383 | Nonlinear WED modeling using Sparse I dentification of Nonlinear Dynamics (SINDy) Numerical and Experimental Characterization of Rotational Floating Body Drag | Brittany Lydon 1 Bryson Robertson 1 |
| | | | | 460 | A development and validation of the in-house hydrodynamics code and the DNV software for TALOS wave energy converter | David Ogden 1 |
| | | | | 416 442 | A turbines module adapted to the marine site for tidal farms layout optimization High-fidelity modelling of a six-burbine tidal array in the Shetlands | Mikol Pucci 1 |
| | | Oteiza/Tidal hydrodynami | | 454 | Instabilities in tidal turbine wakes | Anna Young 1 |
| | | modelling | | 505 506 | On the accuracy of BEMT and CFD on the power and trust prediction of tidal turbines The performance of counter-rotating tidal turbine in different sea states | Ignazio Maria Viola 1 Cameron Johnstone 1 |
| | | | | 544 | Comparison of Actuator Line Modelling of Tidal Power Kites with ADCP Measurements | Nomal Prabahar |
| 30-14:00 | | | | | Lunch & posters exhibition (Terrace and Chillida room) | 1 |
| | | Room /Track | Chairman | Paper ID | (Terrace and Crimida room) | Presenter |
| | | om/ridCk | Спантап | 242 | Experimental Investigation into the Air Compressibility Scaling Effect on OWC Performance and Wave Height | André F.L. Governo |
| | | Baroja/ Wave device development and testing | Yago Torre-Enciso Daniel Cotes | 185 260 | Enhancing the efficiency of an axial impulse turbine with a diffusor Numerical performance assessment of a new wave energy conversion system | Geetam Saha 1 André F. L. Governo 1 |
| | | | | 522 | Basin testing of the 1-2-1 M4 WEC | Hugh Wolgamot 1 |
| | Oral presentations | | | 451 268 | Experimental Investigation on Performance of Counter-rotating Impulse Turbine with Middle Vanes for Wave Energy Conversion Design of an integrated generator and heaving buoy | Kichiro Suto 1 Nick Baker 1 |
| | | Laboa/ Tidal device development and testing | | 343 | Designing Vortex Generators for Tidal Turbine Blades | George Papadakis |
| | | | | 366 365 | A two-scale blockage correction for an array of tidal turbines Performance Assessment of a Mutil-Rotor Floating Tidal Energy System | Chris Vogel 1 Nicholas Kaufmann 1 |
| | | | | 391 | The Influence of the Downstream Blade Sweep on Cross-flow Turbine Performance | Abigale Snortland |
| :00-15:30 | | Arriaga/ Wave hydrodynamic | Sara Russo | 420 504 | Additive Manufacturing for Powering the Blue Economy Applications: A Tidal Turbine Blade Case Study Design and Demonstration of a Passive Pitch System for Tidal Turbines | Miguel Gonzalez-Montijo 1 Stefano Gambuzza 1 |
| pr | | | | 164 | Wave Amplification inside an Open Circular Calsson for Wave Energy Conversion in Waters with Medium Energy Density | Jiahn-Horng Chen 1 |
| | | | | 513 198 | System Identification for Modelling MM Wave Energy Conventer Semi-analytical and CFD formulations of a spherical floater | Xuefei Wang 1 Spyridon Zafeiris 1 |
| | | Wave hydrodynamic modelling | | 278 333 | Spectral-Domain Modelling of Wave Energy Converters as an Efficient Tool for Adjustment of PTO Model Parameters | Antonio Jarquin Laguna 1 |
| | | | | 538 | A multiquery analysis of a PeWEC farm Effects of control strategies on the performance of floating WEC point absorbers operating attached to a breakwater by time-domain | Markos Bonovas 1 |
| | | | | 579 676 | Experimental characterisation of the wake of a bottom-mounted two tandem of cylinders placed in a high velocity area Paradoperated a modified BENT model for the analysis of helical bladed unified asks tidal turbines. | Alina Santa Cruz |
| | | Oteiza/Tidal hydrodynamic modelling | AhuRaki Pake | 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 1 Kabir Bashir Shariff 1 |
| | | | AbuBakr Bahaj | 252 283 | Objective Functions for the Blade Shape Optimisation of a Cross-Flow Tidal Turbine under Constraints Investigating the impact of multi-votor structure shadowing on tidal stream turbine performance | Karla Ruiz-Hussmann |
| | | | | 501 | A methodology to capture the single blade loads on a cross-flow tidal turbine flume model | Stefan Hoemer 1 |
| 30-16:00 | | | Ref | reshments | , networking & posters exhibition (Terrace and Chillida room) | 1 |
| | | Mitxelena/Side event 4 | "SUPPORTING THE FUT | URE OF O | CEAN ENERGY HERE AND NOW; A GLIMPSE OF BASQUE PUBLIC INITIATIVES TO FOSTER | SECTOR SCALE-UP" (by EVE) 1 |
| | | | | | | |
| | | | | | | |
| :00-17:30 | Side events | Baroja/Side event 5 | | | Technology Performance Level Assessment (TPL) (by SANDIA LABTPL TEAM-) | 1 |
| | | | | | | |
| | | Arriaga/Side event 6 | | NEMMO | Project, On the Cutting Edge of Tidal Blade Design and Materials (by Ocean Energy Euro | pe) 1 |
| | | | | | | |
| | | Room/Track | Chairman | Paper ID 318 | Title A Novel Hybrid Floating Breakwater- Wave Energy Converter Device: Preliminary Experimental Investigations | Presenter Sara Russo 1 |
| | | | | 329 | Origami-adapted clam design for wave energy conversion | Jingyi Yang |
| | | Baroja/ Wave device development and testing | Luis Gato | 555 274 | 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 sightening technique | Chen-Chou Lin 1 Andreas Asiikkis 1 |
| | | | | 516 | Reliability and Cost Assessment of Critical Components: Electrical generator failure of IDDM wave energy converter | Julia Fernandez Chozas |
| | | | | 286 355 | Heterogeneous WEC array optimization using the Hidden Genes Genetic Algorithm Numerical investigation of a new hybrid floating wind turbine concept | Ossama Abdelkhalik 1 Beatrice Fenu 1 |
| | | | | 376 379 | Quantification of uncertainty in linear wave energy hydrodynamic models from experimental data | Mahdiyeh Farajvand 1 |
| .20 40 0- | Oral | p-i | | 379 | An overview of an experimental campaign for arrays of wave energy conversion systems | |
| :30-19:00 pr | Oral presentations | Arriaga/ Wave hydrodynamic modelling | Jesús M. Blanco | 426 | Solution verification of WECs: comparison of methods to estimate numerical uncertainties in the OES wave energy modelling task | Claes Eskilsson 1 |
| 30-19:00 _{pr} | Oral presentations | Wave hydrodynamic | Jesūs M. Blanco | 426 473 | | Claes Eskilsson 1 David Ogden 1 |
| :30-19:00 _{pr} | Oral presentations | Wave hydrodynamic | Jesús M. Blanco | 426 | Solution verification of WECs: comparison of methods to estimate numerical uncertainties in the OES wave energy modelling task | Claes Eskilsson 1 |
| :30-19:00 pr | Oral presentations | Wave hydrodynamic | Jesús M. Blanco | 426 473 474 407 464 | Subtract or Product of VECOs computation of herbooth to extinate humanial inconditabilities in the OCTS wave energy incodeing bits Physical forms. An Open Source in Engineer and Product Onesian Common Common and Common Common and American Physical Common Commo | Claes Eskilsson 1 David Ogden 1 Jana Orszeghova 1 Huw Edwards 1 Sulaiman Hurubi 1 |
| :30-19:00 _{pr} | Oral oresentations | Wave hydrodynamic modelling | Jesús M. Blanco Pablo Ruiz-Minguela | 426 473 474 407 464 566 316 | States we finance of MECs, comparison of newhold is between however excellentes in the CET using briggy modeling but finances and one of the comparison of the comparison of the project Consort whichear problement and it is belong upon an of difference resistance, and contraved state. Modeling the offsicks of boundary prometty on a title criter using the actuator like method Consortenation of fundament flow and the water of a titled states understanding the a critique Consortenation of fundament (see and the water of a titled states understanding to a origin that substance is made sight water primety a model state of Verification and validation of finishe resolved income flow title further demandations. | Claes Eskilsson 1 David Ogden 1 Jana Orszeghova 1 Huw Edwards 1 |
| :30-19:00 pr | Oral oresentations | Wave hydrodynamic modelling Oteiza/ Tidal hydrodynamic | | 426 473 474 407 464 566 | Nation with all of MECs, are private of method is without forward area states in the CES one energy modeling blad AyesCotton An Open-Source Information private including the Project Consort. Another information of the Assembly splends in definition, makings, and accelerate black. Macketing the efficient of honorability powerfly on a filter detail many the advantar live method. Descriptions of findulated from and the result of a 18th of internal hother in provinting to a 405p. That furthermore in medium depresentation provincy is modell study. | Claes Eskitscon 1 David Oyden 1 Jana Oszaphova 1 Hux Edwards 1 Sutaiman Hurubi 1 Göran Broström 1 |
| pr | Oral presentations Technical programme | Wave hydrodynamic modelling Oteiza/ Tidal hydrodynamic | | 426 473 474 407 464 566 316 | States we finance of MECs, comparison of newhold is between however excellentes in the CET using briggy modeling but finances and one of the comparison of the comparison of the project Consort whichear problement and it is belong upon an of difference resistance, and contraved state. Modeling the offsicks of boundary prometty on a title criter using the actuator like method Consortenation of fundament flow and the water of a titled states understanding the a critique Consortenation of fundament (see and the water of a titled states understanding to a origin that substance is made sight water primety a model state of Verification and validation of finishe resolved income flow title further demandations. | Clase Eskisson David Opten Jane Orszejhova Hive Edwards Sulaiman Hurubi Göran Broström Manuel Rentschler Normal Pabahar |
| 00. 20:00 | resentations | Wave hydrodynamic modelling Oteizal Tidal hydrodynamic modelling | | 426 473 474 407 464 566 316 | Culture or Product of VECOs computation of the Month's extension furnished in the CETS case entury incidency build Applications. At Opini Source information processor product Concess which is hardware at the Name by priving to General medicate, and contributed bears Modeling the effective of boundary processing on a size rother using the actualization method. Concessionation of buildware for which we are all a size in sense buildware to processing to a ridge Total businesse in modeline depth water, privately a model study Application and violation of Modeling of Total Power Kiess with ADCP Measurements. | Cleer Estimate David Option Jana Obstraptore How Edwards Sudeman Hurubi Garan Bosstom Manual Rentschier Norral Prabahar |



| | | | | We | dnesday September 6 | | | | | |
|-----------|-----------------------|--|--|--|---|------------------------------------|--|--|--|--|
| 0-09:00 | | | | | Registration (Main Hall) | | | | | |
| | | Room /Track | Chairman | Paper ID | Title Simulations of extreme wave load on an oscillating water column wave energy converter | Presenter Chris Chartrand | | | | |
| | | | | 298 | On the survivability of WECs through submergence and passive controllers | Elie Al Shami | | | | |
| | | Baroja/ Wave device development | Gareth Tomas | 393 | A probabilistic framework for fatigue damage of lift based wave energy converters* | Abel Arredondo-Galeana | | | | |
| | | and testing | | 382 540 | Preliminary design of an OWC wave energy converter battery charger Development & performance enhancement of an AUV wave-charging system | D.N. Ferreira Brian Rosenberg | | | | |
| | | | | 550 | A methodology to measure the energy flux captured by a submerged U-OWC by using temperature sensors | Luana Gurnari | | | | |
| | | | | 137 | CFD analysis of hydrodynamic force on a horizontal axis tidal turbine | Kai Xu | | | | |
| | | Laborat | | 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 | | | | |
| | | Laboa/ Tidal device development and testing | Gustavo Esteban | 328 348 | in high-flow conditions Effects of non-isotropic blockage on a tidal turbine modeled with the Actuator-Line method | Thomas Summers Enzo Mascrier | | | | |
| | | and testing | | 400 | Intracycle Control Sensitivity of Cross-Flow Turbines | Ari Athair | | | | |
| 30 pre | Oral esentations | | | 402 | Development of an Unmanned Mobile Current Turbine Platform | Manhar Dhanak | | | | |
| | | | | 258 | Valuation of the energy resource assessment with experimental data for the site selection of a tidal turbine in the Tagus River estuary. | Bénédicte Hoofd Connor Jordan | | | | |
| | | 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- | Eloi Droniou | | | | |
| | | Tidal resource characterization | Cameron Johnstone | 228 | 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 | Juan Bald | | | | |
| | | and appraisal | Andrea Copping | 623 | Automated detection of wildlife in proximity to marine renewable energy infrastructure using machine learning of underwater imagery | David Gold | | | | |
| | | | | 221 | Choose Your Own Marine Energy Adventure Game: Collision Risk | Lenaig Hemery | | | | |
| :00 | | | Refreshments, ne | 284 tworking 8 | Measurements of the wake from a floating tidal energy platform a posters exhibition (Terrace and Chillida room) | Maricarmen Guerra Paris | | | | |
| | | Room /Track | Chairman | Paper ID | Title | Presenter | | | | |
| | | | | 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 | 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 | | | | |
| | | une totalig | | 211 | A multi-PTO Wave Energy Converter for Low Energetic Seas: Ensenada Bay Case. | Paulino Meneses Gonzalez | | | | |
| | | | | 216 | Graphene oxide reinforced room-temperature-vulcanising elastomers for flexible wave energy converters Design, Manufacture and Testing of an Open-Source Benchmark Composite Hydrokinetic | Xinyu Wang | | | | |
| | | | | 418 Turbine Blade 456 Wake characterization of tidal turbines in the Pentland Firth using vessel-mounted ADCP | Miguel Gonzale-Montijo Marion Huchet | | | | | |
| :30 | Oral esentations | Laboa/ | | 553 | measurements Tidal Turbine Benchmarking Project: Stage I - Steady Flow Experiments | S.W. Tucker Harvey | | | | |
| pre | esentations | Tidal device development and testing | Iñigo Bidaguren | 574 | Tidal Turbine Benchmarking Project: Stage I - Steady Flow Blind Predictions | Xiaosheng Chen | | | | |
| | | | | 567 | On the design of a small scale tidal converter for long time deployment at sea | Marco Torresi | | | | |
| | | | | 323 | Influence of the spatial variation of upstream velocity on a vertical-axis tidal turbine | Lilia Flores Mateo | | | | |
| | | Arriaga/ Tidal resource | Vincenzo Nava | 339 | performance Tracking a large vortex at a tidal power site | Philippe Mercier | | | | |
| | | | | 577 | Overview of Resource and Turbine Modelling in the Tidal Stream Industry Energiser project: TIGER | Tim Stallard | | | | |
| | | | | 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 characterisation of the wave-induced turbulent kinetic energy and turbulent | Patxi Garcia Novo Clément Calvino | | | | |
| 4:00 | | Room /Track | Chairman | (Ten | ch & posters exhibition race and Chillida room) Title | Presenter | | | | |
| | | ROOM/ITACK | Chairman | Paper ID 263 | A Dual Hardware-In-the-Loop (DHIL) platform for testing and validation of WEC subsystems | Giacomo Alessandri | | | | |
| | | Baroja/ Wave development and testing Arriaga/ Tidal resource characterization | | 430 | Hardware-in-the-loop testing framework for active accumulator wave energy converters | Chen Zeng | | | | |
| | | | 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 Analysis of data from the full-scale prototype testing of the WASP – A novel wave measuring | Nial McLean | | | | |
| | Oral presentations | | | 481 | 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 | Anthon Jonsson | | | | |
| | | | | 390 | Turbine fatigue load prediction from field measurements of waves and turbulence | Hannah Mullings | | | | |
| | | | | 428 | Development of a Tool to Optimise Tidal Stream Energy Sites | Paul Evans | | | | |
| 5:30 pre | | | Rodolfo Olvera-Trejo | 467 478 | Assessing wave-turbulence separation from ADCP measurements with artifical flow data Multi-criteria analysis to evaluate tidal energy potential in France | Michael Togneri Jordi Serret | | | | |
| | | | | 563 | Improved Modeling of Vertical Velocity Profiles at a Tidal Energy Site | Lilli Enders | | | | |
| | | | | | | | | | | |
| | | | | 220 | Siting tidal energy projects through resource characterization and environmental considerations ITSASDRONE, an autonomous marine surface drone for fish monitoring around wave energy | Andrea Copping | | | | |
| | | Oteiza/ | | 326 600 | ITSASDROVE, an autonomous manne sunace drone for lish 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 manner 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 | Sylvain Guillou | | | | |
| 3:00 | | | Refreshments ne | 675 tworking 8 | Underwater noise impact assessment of a wave energy converter in the northern Atlantic (Spain) posters exhibition (Terrace and Chillida room) | José Antonio García | | | | |
| | | Mitxelena/Side event 7 | | | SafeWAVE project (by AZTI / WavEC) | | | | | |
| 17:30 Sid | ide events | Baroja/Side event 8 | Wave Energy Converter Simulator (WEC-Sim) (by SANDIA LABWEC-SIM TEAM-) | | | | | | | |
| | | Arriaga/Side event 9 | | | monitoring for marine energy – instrumentation for devices and y Systems – Environmental and Pacific Northwest National Labor | | | | | |
| | Social | | | | Gala Dinner | | | | | |
| | rogramme | | | | | | | | | |



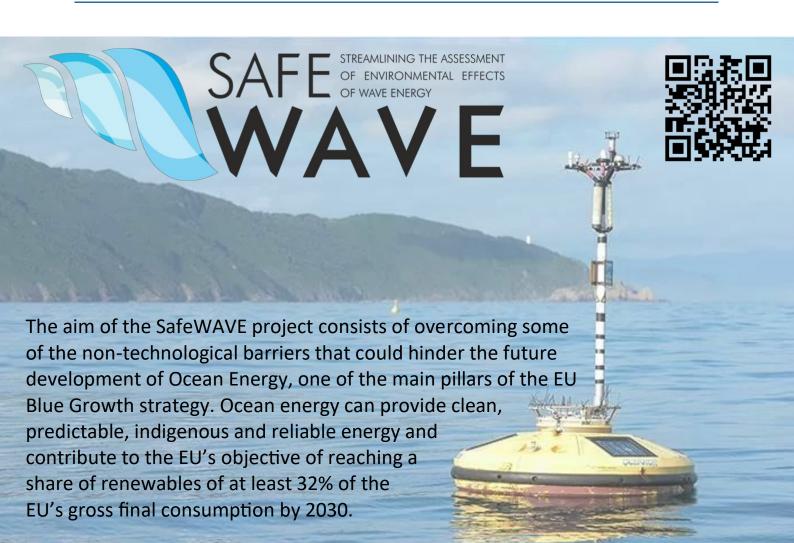
| | | | | | Thursday September 7 | | | |
|--------------|-----------------------|---|---------------------|------------|---|--|--------------|--|
| 0-09:00 | | | | | Registration (Main Hall) | | 08:00 | |
| | ŀ | Room /Track | Chairman | Paper ID | Title | Presenter | - | |
| | | | | 472 493 | A time domain approach for the optimal control of wave energy converter arrays Optimisation of Air turbines for OWC Wave Energy Converters: Sensitivity of Realistic Wave | Mohamed Shabara Ander Zarketa-Astigarraga | 09:0 | |
| | | Laboa/ Grid integration, power | Joao Henriques | 500 | Criminates Integrated hydrodynamic-electrical hardware model for wave energy conversion with M4 ocean demonstrator | Judith Apsley | 09:30 | |
| | | take-off and control | | 409 | On data-based control-oriented modelling applications in wave energy systems The Performance evaluation of 30kW class OWC wave power plant integrated with | Edoardo Pasta | 09:4 | |
| | | | | 592 161 | breakwater Investigation on the extreme peak mooring force distribution of a point absorber wave energy | Kilwom Kim Zahra Shahroozi | 10:0 | |
| | Ì | | | 140 | converter with and without a survivability control system Analysis of the North Atlantic offshore energy flux from different reanalysis and hindcasts | Matias Alday | 09:00 | |
| 0 | Oral | Arriaga/ | | 175 | Wave Spectral Analysis for designing Wave Energy Converters Long term wave load trends against offshore monopile structures: A case study in the Bay of | Jesus Portilla-Yandun | 09:1 | |
| 10:30 presen | entations | Wave resource characterization | Joannes Berque | 275 279 | Biscay Numerical modelling of wave and tidal current interactions and their impact on wave | " Nahia Martinez-Iturricastillo Tian Tan | 09:3 | |
| | | | | 205 | Dataineters On the errors in annual energy yield estimation due to monodirectional wave spectra assumption | Giulia Cervelli | 10:0 | |
| | | | | 305 | Validation of ERA5 Wave Energy Flux through Sallor diagram in Spain (2005-2014) Do recent renewable energy policy changes in Ireland satisfy the requirements of a nascent | Alain Ulazia | 10:1 | |
| | | | | 154 157 | wave energy technology development sector? Integration of wave energy into Energy Systems: an insight to the system dynamics and war forward. | Carrie Anne Barry George Lavidas | 09:00 | |
| | | Oteiza/ Economical, social, legal | Pablo Ruiz-Minguela | 306 | Can Risk-Based Approaches benefit future Marine Renewable Energy deployment, planning and consenting processes? | | 09:30 | |
| | | and political aspects of ocean energy | 3 | 351 362 | Towards increased social acceptability of marine renewable energy Environmental Effects of MRE: Advancing the Industry through Broad Outreach and | Niall P. Dunphy Deborah Rose | 09:4 | |
| | | | | 397 | Engagement Informing development of a socioeconomic data collection toolkit for marine energy: a Illiterature review | Deborah Rose | 10:0 | |
| 0-11:00 | | | Refreshments | , networki | & posters exhibition (Terrace and Chillida room) | | 10:3 | |
| | | Room /Track | Chairman | Paper ID | Title The Impact of Uncertainty on the Control of a Multi-Axis Wave Energy Converter | Presenter Carrie Hall | 44:01 | |
| | | | | 453 | Spectral control co-design of wave energy converter array layout | Yerai Peña-Sanchez | 11:00 | |
| | | Baroja/ Wave device development | Urko Izquierdo | 548 | | Sara Russo | 11:3 | |
| | | and testing | | 549 | Dreakwater | Yusuf Almalki | 11:4 | |
| | | | | 170 | Weight Reduction Methodologies for Wave Energy Devices: A Structural Analysis Approach Wave Excitation Tests on a Fixed Sphere: Comparison of Physical Wave Basin Setups | Michael O'Shea Jacob Andersen | 12:0 12:1 | |
| | | | | 215 | Wave Farms Integration in a 100% renewable isolated small power system -frequency stabil and grid compliance analysis. | Marcos Blanco | 11:0 | |
| | | Laboa/ | | 309 | Wave-to-Wire Control of an Oscillating Water Column Wave Energy System Equipped with a Wells Turbine Maximizing Wave Energy Converter Power Extraction by Utilizing a Variable Negative | Marco Rosati Carlos Michelen | 11:1 | |
| | | Grid integration, power take-off and control | Eider Robles | 510 561 | Stiffness Magnetic Spring Development of control strategies for novel systems of a full scale OWC for the WEDUSEA | James Kelly | 11:3 11:4 | |
| | | take-on and control | | 346 | project Enhancing energy system resilience using tidal stream energy | Danny Coles | 12:0 | |
| | Oral presentations | | | 551 | Analysis of Ocean Energy Integration in Ibero-American Electric Grids | Marcos Lafoz | 12:1 | |
| | | Arriaga/ Wave resource characterization | | 529 | Impact of Resource Uncertainties on the Design of Wave Energy Converters Discussions on Wave energy period in higher wave energy potential marine waters of Taiwa | Markel Peñalba n Shiaw-Yih Tzang | 11:0 11:1 | |
| | | | Jesús M. Blanco | 159 | Internal waves: A potentially untapped marine energy resource | Kastubha Raghukumar | 11:3 | |
| | | | | 197 | Feasibility of wave energy harvesting in the Ligurian Sea Identification of optimal sites for the deployment of wave energy converters: the importance | Manuel Alejandro Corrales-González | | |
| | | | | 378 558 | of a technology-centred approach Operating and Extreme weather conditions for testing Offshore Devices at Marine Renewab | Riccardo Novo Sara Russo | 12:0 12:1 | |
| | | | Yago Torre-Enciso | 399 | Techno-economic optimization of an offshore hybrid power system: Argentine Basin case study | Sarah Palmer | 11:0 | |
| | | Oteiza/ | | 452 340 | Ensuring Resilience in Ocean Energy Power Plants: A Survey of Cybersecurity Measures | Thalita Nazare | 11:1 | |
| | | and political aspects of ocean energy | | 335 | On the complementarity of wave, tidal, wind and solar resources in Ireland A Comparison of the European Regulatory Framework for the deployment of Wave Energy Conventers | Hafiz Ashan Said Claudio Moscoloni | 11:3 11:4 | |
| | | ocean energy | | 507 | Ocean Energy: Markets – Currency – Impact. Dimension of & Choices in the Technology Development Space | Jochem Weber | 12:0 | |
| 0-14:00 | | | | | Lunch & posters exhibition | | 12:1 | |
| | | Room /Track | Chairman | Paper ID | (Terrace and Chillida room) Title | Presenter | | |
| | | Baroja/ Wave device development and testing | Tony Lewis | 350 | Performance enhancement of pitching WECs via oscillating water columns technology Numerical investigation of the energy performance of a wave energy converter comprising a | Marco Fontana Félix Elefant | 14:0 | |
| | | | | 395 | multi-body power take-off Hybrid wind-wave systems: The case of the VoltumUS-S semi-submersible platform | Maximilian Hengstmann | 14:3 | |
| | | | | 439 | Analysis of the viability of a radial Double Decker Turbine for application in Oscillating Water Column devices An Early Design Phase Method for Characterizing and Comparing Wave Energy Converter | Aitor Vega-Valladares | 14:4 | |
| | Oral | | | 445 | Archetypes | Aeron Roach | 15:0 15:1 | |
| | | Arriaga/ Wave resource characterization | | 564 | Upsampling wave temporal resolution: Investigating wave parameters and the influence on WEC power performance | Hannah Mankle | 14:0 | |
| 45.00 | | | Jose L. Villate | 619 | | Leonardo Gambarelli | 14:1 | |
| | entations | | | 310 | The application of temporal gating in the measurement of response amplitude operators Analysis of the impact of floater interactions on the power extraction of a dense WEC array with advantable perspect. | Nataliia Sergiienko Alva Bechlenberg | 14:3 14:4 | |
| | | | | | with adaptable nonlinear PTO New design options for the improvement of the Mutriku power plant | Urko Izquierdo | 15:0 | |
| | | | | 223 | Using human-centered design to develop a national research landscape for marine energy | n | 15:1 | |
| | | | | 385 | the United States Choosing Wave Energy Devices for Community Led Marine Energy Development | Samantha Quinn Molly Grear | 14:0 14:1 | |
| | | Oteiza/ Economical, social, legal | Jochem Weber | 388 | A Socioeconomic, Environmental, and Regulatory Assessment for Current Energy Converte Technologies Environ visor and wave energy technologies; applications, synemies and role in | Jonathan Colby | 14:3 | |
| | | and political aspects of ocean energy | COSIGIII YYEDEI | 413 | Floating wind and wave energy technologies: applications, synergies and role in decarbonization in Portugal Wave energy communication and social opposition: can we improve perception of ocean | Craig White | 14:4 15:0 | |
| | | | | | energy development projects? | Maria C. Uyarra | 15:1 | |
| | | | Iñigo Ansola | Cha | ir EVE (Basque Agency for Energy) 15:40-15:45 | | | |
| | | | Irene Penesis | Ю | COE 2024 Melbourne (Australia) 15:45-15:50 | | | |
| | | | AbuBakr Bahaj | PI | RIMaRE 2024 Southampton (UK) 15:50-15:55 | | | |
| | losing emony | Mitxelena Auditorium | Bruce Cameron | PAN | PAMEC 2024 Barranquilla (Colombia) 15:55-16:00 | | | |
| | | | C H Jo | A | WTEC 2024 Hangzhou (China) 16:00-16:05 | | | |
| | | | Luis Gato | Е | EWTEC 2025 Madeira (Portugal) 16:05-16:10 | | | |
| | | | Cameron Johnstone | | EWTEC Executive Board 16:10-16:15 | | | |
| | | | | | | | 7 | |
| | ocia! | | | | Technical visits: | | | |
| | ocial jramme | | | | Option 1: MUTRIKU | | 16:3 | |
| | | | | | Option 2: BIMEP | | | |
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| | chnical gramme | (Executive Board Meeting and Dinner) | | | | | | |



| Paper ID | Title of the poster | Authors' List |
|----------|---|---|
| 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 | Abbaszadeh; Karla, Ruiz-Hussmann; Timo, Bennecke; Zhao, Zhao; Christian-Tora, Weber; Pierre-Luc, Delafin; |
| 570 | Assessment of tidal energy resources in the Strait of Magellan in southern Chile | Leandro, Suarez Atias; Cristian, Escauriaza; Megan Williams; Maricarmen, Guerra; |
| 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 Kim; 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 |
| 368 | Development of the Exowave Oscillating Wave Surge Converter | Sarah Krogh Iversen; Jacob Andersen; Lars Wigant; Peter Frigaard |
| 682 | An analysis of the German tidal energy resource | Alexander Korte, Christian Windt, and Nils Goseberg |



| Notes | |
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