Renovables

Projet eurorégional dans les énergies marines renouvelables
Proyecto eurorregional en energías marinas renovables
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HYDRODYNAMICS OF WAVE ENERGY CONVERTERS (HYWEC) WORKSHOP

27 - 30 June 2022

Scientific Committee

Jesus Maria Blanco, UPV/EHU

Gustavo Esteban, UPV/EHU

David Lannes, University of Bordeaux

Vincenzo Nava, BCAM & TECNALIA

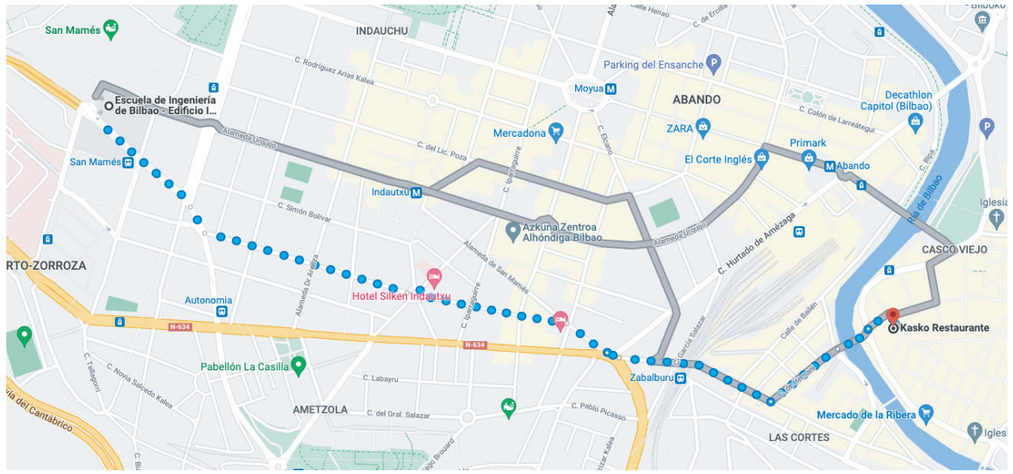
Martin Parisot, INRIA

Mario Ricchiuto, INRIA

Social Dinner

Social dinner for speakers and invited guests at KASKO Restaurant on June 28, 2022 at 20.30h.

Andra Maria Street, 16, 48005 Bilbao, Biscay



Wifi - UPV/EHU

WIFI: EHU-wGuest
User: HYWECS
Password: ehu2022?

Time schedule

Monday, June 27th, 2022

09:00-11:00 Short Course on Design of Wave Energy Devices.
Mathematical modelling for the design of wave energy converters, Markel Peñalba.

11:00-11:30 COFFEE BREAK

11:30-12:30 Wave Energy Developer Perspective.
Modelling for design: nonlinear hydrodynamics and unexpected behavior of floating wave energy converters", Giuseppe Giorgi

Modelling the Turbine-Wave Interaction", Rafa Urrutia Arrue

Reflections on the current status of floating device modelling", Iñaki Zabala

13:30 - 15:00 LUNCH

15:00-17:00 Technical Session

Multi-fidelity numerical modelling for wave energy converters, Beatrice Battisti.

Optimisation of Marine Renewable Energy Systems integration to micro-grids, Neil Luxcey.

Floating body simulations using large scale modeling, Martin Parisot.

Excitation force estimation and forecasting for wave energy control applications, Yerai Peña Sanchez.

Tuesday, June 28th, 2022

09:00-11:00 Short Course on Mooring system design and high-fidelity modelling.
Mooring system design and high-fidelity modelling, for wave energy applications, Johannes Palm.

11:00-11:30 COFFEE BREAK

11:30-13:30 Short Course on Data-based modelling and control of WECS.

Data-based modelling and control of wave energy converters, John Ringwood.

13:30-15:00 LUNCH

15:00-17:00 Brainstorming on Hydrodynamics Modelling of WECs.
Moderator: Francesco Ferri.

Wednesday, June 29th, 2022

09:00-13:30 - DTOceanPlus demonstration session.
Lead by : Francesco Ferri
Neil Luxcey
Emma Araignous
Nicolas Michelet
Vincenzo Nava

13:30-15:00 LUNCH BREAK

15:00-17:00 Ideas Lab.
Moderated by : Vincenzo Nava
Giuseppe Giorgi
Emma Araignous

Thursday, June 30th, 2022

09:00-13:30 DTOceanPlus demonstration session.
Lead by : Francesco Ferri
Neil Luxcey
Emma Araignous
Nicolas Michelet
Vincenzo Nava

HYDRODYNAMICS OF WAVE ENERGY CONVERTERS (HYWEC) WORKSHOP

27 - 30 June 2022

Developments of new numerical and mathematical model for thesimulation of WECs in shallow water and of non-linear effects with heavy swell.

Registration starts on Monday 27th from 8:30 to 9:00h

Participants are not allowed to take pictures during the sessions without explicit permission of the speakers.

	Monday, June 27T	Tuesday, June 28	Wednesday, June 29	hursday, June 30	
9:00 - 11:00	**Short Course on Design of Wave Energy Devices**	**Short Course on Mooring Lines modelling**	**DTOceanPlus Demonstration**	**DTOceanPlus Demonstration**	
11:00 - 11:30	*Coffee Break*				
11:30 - 13:30	**Wave Energy Davelopers perpective**	**Short Course on Data-based modelling and control of WECs**	**DTOceanPlus Demonstration**	**DTOceanPlus Demonstration**	
13:30 - 15:00	*Lunch*				
15:00 - 17:00	**Technical presentations**	**Brainstorming on Hydrodynamics Modelling**	**Ideas Lab**		

Room: *P0E1* Room: *P0B19I*

Intructions to access the “Conferences room” School of Engeneering, Building I

School of Engineering Building I
Ingeniero Torres Quevedo square 1, Bilbao

Figure 1. General view of the School of Engineering (Buildings I and II) and entrance.