

12th PRIMaRE Conference 2025 - University of Bristol

DRAFT PROGRAMME Vq.0

Day 1 - 2nd July 2025

Session	Chair	ID	Title	Presenter	Affiliation	Time	
Arrival and registration							8:15 - 9:00
Welcome and opening				Andrea Diambra	University of Bristol	9:00	
Technical session 1	Ian Masters	Keynote lecture	Some thoughts on the extraordinary achievements of and present obstacles to renewable energy in the UK	Andrew Garrad	Garrad Balfour	9:10	
		1	RTide: A machine learning enabled implementation of Munk and Cartwright's Response method	Thomas Adcock	University of Oxford	9:40	
		2	Effect of winglets on tidal turbine tip vortices	Anna Young	University of Bath	9:50	
		3	Evaluation of passive flow control jets to reduce loads on tidal devices	Judith Farman	University of Cambridge	10:00	
		4	Assessing the risk of collision between seals and an operating tidal turbine in the Pentland Firth, Scotland	Douglas Gillespie	University of St Andrews	10:10	
		5	Proving Tidal: Real-World Lessons from Installing Marine Energy Systems in Japan and Scotland	Ryan Biggs	Proteus MR	10:20	
		Questions and Answers					10:30
Coffee break						10:45	
Technical session 2	Ahmad El Hajjar	6	Resolving the wakes of offshore wind infrastructure in density stratified tidal flows	Charlie James Lloyd	Loughborough University	11:15	
		7	Floating offshore wind pumps for pumped storage electricity generation in small islands	Tasneem Abdelmagid	Swansea University	11:25	
		8	Hydrodynamical responses of a novel spar-type floating offshore wind turbine: experiments and modelling	Marcin Kapitaniak	University of Aberdeen	11:35	
		9	On the development of a short design events approach for floating wind turbines	Tom Tosdevin	University of Plymouth	11:45	
		10	Finite element-based dynamic characterization of a Tension-Leg Floating Offshore Wind Turbine	Alessandro Cameli	Università Pol. Marche	11:55	
		11	Optimisation of a lazy wave dynamic power cable configuration using a surrogate model assisted genetic algorithm	Anna Holcombe	University of Plymouth	12:05	
		12	Hydrodynamic Loads on Semi-submersible Floating Turbine Platform: Role of Orientation and Air-Water Interface	Nilotpal Dhar	University of Hull	12:15	
		13	Quasi-impulsive reverse wave force on a vertical cylinder	Tianning Tang	University of Manchester	12:25	
		14	Initial results when using unmanned vessels for tidal current survey	Ian Masters	Swansea University	12:35	
		Questions and Answers					12:45
Lunch						13:00	
Technical session 3	Robert Dorrell	Keynote lecture	The Use of a Structured Systems Engineering Strategy for Technology Development of Offshore Renewables	Tom Adcock	Blackfish Engineering	14:00	
		15	Fully Differentiable Fluid-Structure Interaction Solver for Wave Propulsion of a Flapping Foil	Keren Tuv	Cranfield University	14:35	
		16	Q-learning and the control of point absorber wave energy converter arrays	Xuxin Pooley	University of Exeter	14:45	
		17	Rigid and flexible floating plates for wave energy extraction	Emiliano Renzi	Northumbria University	14:55	
		18	Numerical investigation of wave devouring propulsion for stabilisation of floating wind platforms using hydrofoils	Junxian Wang	Cranfield University	15:05	
		Questions and Answers					15:15
Coffee break						15:25	
Technical session 4	Anna Young	19	Nature Inclusive Offshore Wind Joint Industry Project	Tessa Gordelier	Arup	15:55	
		20	Climate and environmental considerations for green hydrogen from Offshore Renewable Energy (ORE)	David Pegler	University of Plymouth	16:05	
		21	Improving the Accessibility of Offshore Wind Infrastructure	Hamish Drain	Heriot Watt University	16:15	
		22	Quantification and attribution of uncertainty in wind power modelling	Francesca Pianosi	University of Bristol	16:25	
		Questions and Answers					16:35
	Paul Haper	Panel discussion - Panelist: Peter Kydd, Kerry Hayes and Deborah Greaves					16:45
Conference Dinner at Brown Bristol						19:15	

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Day 2 - 3rd July 2025

Technical Session 5	Tingfa Liu	Keynote lecture	Floating Offshore Wind update and technology	Alex Argyros	BP	9:00
		23	Uncertainty measurements of laboratory tests used in geotechnical design	Sinthuja Aingaran	University of Bristol	9:30
		24	WET STORAGE OF FLOATING WIND TURBINES	Alan Philip Crowle	University of Exeter	9:40
		25	Multi-rotor wind turbines: a scalable path to lower cost and greener energy?	Abdirahman Sheik Hassan	University of Bristol	9:50
		26	Towards Smarter Wind Turbine Blade Production with Advanced Sensing and Real-Time Modelling	Jack Davies	University of Bristol	10:00
		Questions and Answers				10:10
		Posters - flash presentations and discussion				10:20
Coffee break					10:45	
Technical Session 6	Scott Brown	27	A Novel Machine Learning Model to Fast Predict Nonlinear Wave Forces on Monopile-Type Offshore Wind Turbines	Haoyu Ding	University of Bath	11:15
		28	Scale Modelling and Validation of Inverse Catenary Formation of Embedded Tethers	Rachael Smith	Reflex Marine	11:25
		29	Offshore Electric Vessel Charging: An Engineering Opportunity	Ben Sackey	Blackfish Engineering	11:35
		30	Enhancing Nearshore Wind Estimation with Wave Buoy Data: A UK Southwest Coastal Study	Jiaxin Chen	University of Plymouth	11:45
		31	Advanced Machine Learning PCPT Interpretation in Offshore Geotechnical Investigations	Hin Wong	Geoquip Marine	11:55
		Questions and Answers				12:05
		Keynote lecture	The Use of a Structured Systems Engineering Strategy for Technology Development of Offshore Renewables	Peter Giddins	National Composite Centre	12:15
Prizes, handover and closure			Andrea Diambra	University of Bristol	12:45	
Lunch					13:00	
Supergen ORE Hub Workshop at PRIMaRE 2025 - Creating a Strategic Research Agenda for ORE					14:00	
					17:00	