

PRIMaRE Seminar Series

Partnership for Research in Marine Renewable Energy



Offshore Renewable Energy Research: Supergen ORE Hub

Speaker: Prof. Deborah Greaves, is Director of the Interdisciplinary Research Centre for Decarbonisation and ORE, Director of the COAST Laboratory and was Head of the School (2017-2022) at the University of Plymouth. She is Director of the Supergen ORE Hub, has led many national and international research projects in ORE in collaboration with industrial and academic partners and has secured over £27 million research income.



In the Queen's Birthday Honours List, 2018, she was awarded an OBE for services to Marine Renewable Energy, Equalities, and Higher Education and in 2020, she was elected to be a Fellow of the Royal Academy of Engineering. She was appointed as a Member of EPSRC Council in 2022.

Abstract: Offshore renewable energy (ORE) has long been recognised as having huge potential. The UK's offshore wind capacity target is 50GW by 2030, and the Crown Estate recently published plans to support Floating Offshore Wind in the Celtic Sea to deliver 4GW by 2035, extending to 20GW by 2045. Prof. Greaves will outline the key areas of research in developing our offshore renewable energy. She will introduce the Supergen ORE Hub highlights and future plans and will also present on a new initiative to support High End Computing in Wave Structure interaction.

Wave Hub Cornwall – Site history, development and planned future activity



Speaker: Stuart Herbert is the Chief Technical Officer at Celtic Sea Power. Stuart joined Wave Hub in 2013 to lead negotiations with companies planning to use the site and identify business opportunities. Prior this, Stuart worked as commercial and operational manager for the SGS Renewable energy services division and business development manager for the ORE Catapult. Stuart now focusses on providing

technical support for floating offshore wind developers and lead negotiations relating to the operation and future development of the large battery storage facility.

Abstract: The infrastructure at the Wave Hub offshore test site in Hayle Cornwall was installed in 2010. In 2008 it was predicted that arrays of wave energy devices producing up to 20MW could be operational by 2020. This has not happened and so the Wave Hub site has been repurposed to support the deployment of Floating Offshore Wind Turbines. This presentation will discuss the development of the original Wave Hub site infrastructure and the work carried out to make the site suitable for the deployment of Floating Wind Turbine technology.

Time: 13.00 – 14:00 (GMT)

18 April 2023

(on Zoom)

Chair: Prof. Jun Zang

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