

4th REMS Annual Conference
“Optimisation of Offshore Wind Structures”
Thursday 23rd May 2019, University of Strathclyde

Offshore wind energy is rapidly being deployed across the UK, Europe and further afield in China, USA and Taiwan. New offshore wind farms are comprised of hundreds of wind turbines spread across large sites, where design conditions can vary significantly. Cost effective deployment of wind energy structures requires an industrialised design approach, in which each structure can be optimised for site specific conditions. This one-day conference presents current approaches to optimisation applied to structural integrity and for the geotechnical design, featuring speakers from industry, academia and the first graduating cohort of the REMS CDT programme.

08:45	Arrival Tea and Coffee	
09:20	Welcome and Introduction	Feargal Brennan University of Strathclyde
09:30	Reliable O&M decision tools and strategies for high LCoE reduction on Offshore wind – the ROMEO project	Robert Jones Scottish Power/Iberdrola
10.00	Optimisation of Floating Supporting Structures	Mareike Leimeister Fraunhofer
10.20	Title TBC	Speaker TBC Atkins
10.40	Corrosion Characterisation and Damage Evolution	Waseem Khodabux Cranfield University
10.50	Tea and Coffee Break	
11.20	Key findings from the LIFES50+ project	Roberts Proscovics ORE Catapult
11.50	How O&M can influence Economic and Investment strategies for Offshore Wind	Anastasia Ioannou University of Strathclyde
12.10	Effective condition monitoring of offshore wind turbines: tailored solutions for diagnosis and prognosis of critical failures	Cristian Rodenas and Elena Gonzales Siemens Gamesa/ADWEN
12.40	Lunch and Poster Session	

Afternoon Session		
14.00	Optimisation on a wind farm scale	Kris Wessel Andersen Ørsted
14.30	Lateral loading of monopile foundations	Peter Houlston Atkins / Oxford University
14.40	Future design challenges in offshore wind	Dr Christian LeBlanc Thilsted Wood Thilsted
15.10	Axial response of steel piles for offshore wind turbines	Trevon Joseph Atkins / Oxford University
Tea and Coffee Break		
15.50	Application of geotechnical analysis for optimised pile design	Prof Lidija Zdravkovic Imperial College
16.20	Use of advanced soil models in design finite element analysis	Scott Whyte Fugro / Oxford University
1630	Application of PISA to a North Sea Wind Farm	Sebastien Manceau Atkins
17:00	Close	