

3rd REMS Annual Conference – Day Two

Offshore Wind: The Next 10 Years

Tuesday 19th September 2017, Vincent Building, Cranfield University

08:45 Arrival Tea and Coffee		
09:00 Welcome and Overview		Prof Feargal Brennan (C)
09:05 Session A – Floating Structures		Chair: Prof Byron Byrne (O)
9:05	Introduction to Floating Wind	Prof Byron Byrne (Oxford)
9:10	Industry Perspective	Ben Smith (Atkins)
9:25	Carbon Trust Floating Wind Joint Industry Project	Dan Kyle Spearman (Carbon Trust)
9:45	ORE Catapult Project Lifes50+	Dr Roberts Proskovics (ORE Catapult)
10:05	REMS CDT Research on Floating Wind	Marieke Leimeister / Dawn Ward (REMS)
10:15	Discussion	
10.35 Tea/Coffee Break		
11.00 Session B – Operational Management		Chair: Dr Athanasios Kolios (C)
11:00	Unmanned Inspection of Offshore Wind Turbines	Prof Antonios Tsourdus (Cranfield)
11:20	Structural Integrity – Smart Asset Management Software for Data Protection and Analysis	Andrew Scullion (Straininstall)
11:40	An Update on the Levenmouth Research Wind Turbine	Dr Roberts Proskovics (ORE Catapult)
12:00	Improving Confidence and Minimising Storage Space for Fatigue Life Monitoring of Monopiles	Waseem Khodabux (REMS)
12:15	Impact of Structural Motion on Operations and Maintenance of Floating Offshore wind turbines	Matti Scheu (REMS)
12:30 Lunch		
14.00 Session C – Relifing and Repower		Chair: Dr Ali Mehmanparast (C)
14:00	Standards and Codes for Relifing and Life-Extension	Prof Feargal Brennan (Cranfield)
14:15	Flange Design for Life Extension	Luke Fussell, Diego Cocco (LIC Energy)
14:40	Consequences of Improved Monopile Design Procedures	Prof Byron Byrne (Oxford)
15:00	Life Enhancement of Monopiles Through Residual Stress Engineering	Dr Ali Mehmanparast (Cranfield)
15:10	Residual Stress Measurement Techniques	Dr Joe Kelleher (RAL-STFC)
15:20	Welding Residual Stress Effects on Fatigue Life	Anais Jacob (REMS)
15:30 Tea/Coffee Break		
16.00 Session D – Panel and Floor Discussion		Chair: Prof Feargal Brennan (C)
Training and research needs to support the next 10 years of offshore wind		
17:30 Close – Drinks Reception		