

Tuesday 2 November

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Registration

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Ice breaker event (FEUP)

Wednesday 3 November

	Auditorium	Room A104	Room B032
09:30	<p style="text-align: center;">Opening session</p> <p style="text-align: center;">Academic Keynote 'Offshore wind energy towards 2050'</p> <p style="text-align: center;">Athanasios Kolios Professor in Risk and Asset Management Vice-President of the European Academy of Wind Energy</p>		
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11:00	Coffee Break		
11:30	Braunbehrens, Robert: Identification of intra wind farm flow	Korkos, Panagiotis: Feature extraction investigation and fault detection in a wind turbine hydraulic pitch system	Wynants, Marelle: Experimental study on current- and wave-induced diffraction patterns in the near field of an offshore mono-pile
11:45	Asmuth, Henrik: Lattice Boltzmann Large-eddy Simulation of Neutral Atmospheric Boundary Layers	Pacheco, João: Onshore farm-wide fatigue evaluation based on fleet leader concept: construction of the damage matrix	Dierksen, Niklas: Sensitivity analysis of the natural frequencies of offshore wind turbines with respect to the manufacturing deviations and environmental conditions
12:00	Melani, Pier Francesco: Tailoring the Actuator Line Theory to the Simulation of Vertical-Axis Wind Turbines	Robbelein, Koen: Perspectives on the development of a data-driven lifetime extension methodology with structural health monitoring data as backbone.	Rode, Anna: Comparison of environmental contour methods
12:15	Kale, Baris: Validation of the generalized actuator disk wind turbine parameterization based on wake measurements of the full-scale Vestas V27 wind turbine at the SWiFT test site	Sobrinho, Mário: Monitoring of onshore wind turbine foundation: comparison with advanced numerical simulations	Schuster, Daniel: A new simulation framework for nonlinear aerohydroelastic modeling of large offshore wind turbines; part II: Aerohydrodynamics
12:30	Nyborg, Camilla: Modelling of loudspeaker sound propagation in complex atmospheric flows	Bel-Hadj, Yacine: Automatic event detection of offshore wind turbines based on strain measurements	Satari, Ramish: Modelling and Simulation of Scour Development at Offshore Megastructures: An Overview
12:45	Sebastiani, Alessandro: Wind turbine power performance characterization through aeroelastic simulations and virtual nacelle lidar measurements	Santos, Francisco: Early results for data-driven DEL estimation on monopiles	Martins, David: A new simulation framework for nonlinear aerohydroelastic modeling of large offshore wind turbines ; part I: Structural Model
13:00	Lunch		
14:30	Panagiotou, Emmanouil: AI-based offshore wind turbine design	Iori, Jenna: Design of the power regulation strategy in wind turbine optimization	Muscari, Claudia: A Data-Driven Analysis of Wake Mixing Dynamics
14:45	Papi, Francesco: Challenges in aeroelastic modelling of multi-MW Floating Offshore Wind Turbines	Sinner, Michael: Implementation of Advanced Wind Turbine Controllers for Scaled Turbine Testing in a Wind Tunnel	Messmer, Thomas: Experimental investigation of the wake of a model floating wind turbine under idealized conditions
15:00	Hegazy, Amr: Reduced Non-Linear Model Of A Floating Wind Turbine for Control Purposes	van den Berg, Daniel: Linearized Free Wake Vortex Model for Adjoint Optimization	Hodgson, Emily: A Vortex-Based Smearing Correction Applied to Coupled Aeroelastic - Actuator Method Computations in LES
15:15	Devesse, Koen: Coupling an atmospheric perturbation model to a wake-merging method that incorporates heterogeneous background fields	Korb, Henry: Extending the Helix approach to a wind farm	Benner, Bridget: Experimental study of flow-induced oscillations of a flexible hydrofoil at varying angles of attack
15:30	Lanzlao, Luca: A new fringe region technique for reducing gravity-wave reflection in large-eddy simulations of the atmospheric boundary layer	Bernardoni, Federico: Identification of interacting turbines with time variant wind direction	Ribeiro, Andre: Phase shift on surging wind turbines with a free-wake panel method
15:45	Saeed, Kaiser: Investigating O&M Strategies and Constraints for Floating Offshore Wind	Liew, Jaime: LES verification of HAWC2Farm aeroelastic wind farm simulations with wake steering and fatigue load analysis	Gamberini, Andrea: Preliminary data on Active Trailing Edge Flap aeroelastic models comparison
16:00	Coffee Break		
16:30	Anantharaman, Arjun: Comparing different wake models for wind farms with lidar measurements	Moynihan, Bridget: Estimation of Blade Forces in Wind Turbines Using Strain Measurements Collected on Blades with OpenFAST Verification	Breitkopf, Sophie: The influence of meshing regarding the accuracy of CFD simulations
16:45	Foloppe, Benoit: Development of a dynamic wake model accounting for wake advection delays and mesoscale wind transients	Zúñiga, Manuel: Control-oriented modelling of wind farms based on wind tunnel experiments	Onnen, David: Dynamic wake tracking based on wind turbine blade loads – methodology, simulation and experiments
17:00	Novais, Felipe: Hybrid Testing Methodologies for Floating Offshore Wind Turbines	ZHAOYU, ZHANG: Virtual LIDAR and SOWFA Based Turbulence Prediction Model for A Wind Farm	van der Deijl, Wessel: Experimental study of mean and turbulent velocity fields in the wake of a two-rotor vertical axis wind turbine: Comparison with horizontal axis wind turbines
17:15	Yilmazlar, Kutay: Aerodynamic loading of floating wind turbines: simulations of wind tunnel experiments investigated in OC6 Project Phase III	Kumar, Devesh: Wind turbine power maximization using log-power PIESC	Ribitzky, Daniel: Innovative aerodynamic rotor concepts for demand-oriented power feed in
17:30	Fernández, Ricardo: Effect Of Vortex Shedding Modelling Choice On The Fatigue Loads Of A Wind Turbine Tower	Sood, Ishaan: An optimal wind-farm control framework for power maximization and load mitigation through wake-steering	Buck, Angus: Effects of Cyclically Varying Effective Wind Speed on Power Generation from Secondary Rotor Systems
17:45		Fu, Wei: Atmospheric turbulence characterization using nacelle-lidar measurements	Fontanella, Alessandro: Understanding the wake of floating wind turbines with high-fidelity wind tunnel experiments

Thursday 4 November			
	Auditorium	Room A104	Room B031
09:30	Beniffa, Victor: Development of a genetic algorithm code for the design of cylindrical buoyancy bodies for floating offshore substructures	Batista, Vasco: Characterisation of the terrain coverage over the Perdigão-2017 campaign site: forest size and distribution	Pathan, Shahbaz: Robotic Lidar for Wind Measurements
09:45	Montenegro, Mariana: Implementation of a 3D unsteady free-wake panel method on a floating offshore wind turbine	Elagamy, Mohanad: Optimal autoregressive models for synthetic generation of turbulence. Implications of reproducing the spectrum of the autocovariance function	Diezel, Jan Markus: Meteorological conditions affecting the potential resource estimates of airborne wind energy systems
10:00	Owda, Abdalmenem: Satellite remote sensing for offshore wind energy applications	Vöhringer, Lilén: Optimisation of measurement settings for long-range dual-Doppler Lidar and Radar wind field reconstruction	Trivisi, Filippo: Flight stability of rigid wind Airborne Wind Energy Systems
10:15	Ghirardelli, Mauro: Development and Test of a Multi-rotor Based System Carrying an Ultrasonic Anemometer	Venkatraman, Kartik: Influence of local terrain and vertical height in thermal stability calculations over complex terrain	Anand, Abhinav: Augmenting controller internal model towards a digital twin for economic control of wind-based hybrid generation units
10:30	Savvakis, Vasileios: Identifying aerosol particles in off-shore wind farms using an unmanned aerial system	Coimbra, Isadora: Urban wind flow around a building: lidar measurements and CFD simulations	Martinelli, Cristiano: Extended Definition of Efficiency for Vibration Energy Harvesters
10:45	Bramati, Matteo: Development and validation of a fast response dew-point mirror mounted on a UAS	Hatfield, Daniel: Offshore atmospheric stability from floating lidar systems	Schmitt, Eva Melina: Influence of Clump Weights on Floating Wind Turbine Shared Mooring Line Tension
11:00	Coffee Break		
11:30	Coughlan, Katherine: Catenary vs taut mooring systems for intermediate water depths	Ortens, Marcos: Optimisation of long-range lidar trajectories for wind speed forecast using large eddy simulations	Jin, Liqin: Improve wind Lidars for Wind Energy
11:45	Syed, Abdul Haseeb: Measurement of turbulent fluxes above a large offshore wind farm in the North Sea	Shubham, Shubham: Review of standalone small-scale Darrieus wind turbines – a Nottingham case study	Khan, A. Wasay: Data based numerical mechanics for the analysis of short fiber reinforced adhesives in wind turbine blades
12:00	Gräfe, Moritz: Nacelle based LIDAR Measurements for Floating Offshore Wind Turbines	Zuo, Haichen: Evaluation of Aeolus L2B wind product cross Australia using triple collocation analysis	Correia da Silva, Adriana: Structural analysis of a VAWT with a V-rotor with different blade lengths
12:15	Miranda Garcia, Gabriela: Unmanned Aircraft Systems operation and data analysis guidelines for measurements in offshore wind energy	Rubio, Hugo: Evaluating the performance of numerical models in retrieving wind speeds at greater heights	Gian, Han: Primary study of the integrated design process of offshore support structures
12:30	Vemuri, Adithya: Sensitivity analysis of Storm Ciara to WRF physics parameterizations	Monteiro, Jesus: Canopy models evaluation over forests in flat terrain	Bramati, Matteo: A new calibration procedure for horizontal wind estimation using a hovering multicopter
12:45	Chitteth Ramachandran, Rahul: The role of marine operations in the installation, O&M and decommissioning of large floating offshore windfarms	Vratsinis, Konstantinos: Short-term prediction of wind farm power base on convolution and long short-term memory neural network	Devine, Machar: Investigating thermoplastic composites for wind turbine blade applications
13:00	Lunch		
14:30	EAWC Excellent Young Wind Doctor Award Keynote:		
14:45	"Closing the loop in model-based wind farm control"		
15:00	Bart Matthijs Doekemeijer		
15:15	Research group poster session		
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16:00	Coffee Break		
16:30	Meet the industry:		
16:45	Miguel Gomes, Director Development & Engineering PV/Wind, SMARTENERGY: "Optimizing the Green H2 business case with wind and solar"		
17:00	Martin Kaasgaard, Head of Technology Centre at Porto, VESTAS: "Future of Renewable Energy"		
17:15	Adelino Alves, BoP Engineering Manager, CJR Renewables: "Singular Features of Piled Foundations: CJR Experience in Poland"		
17:30	José Pinheiro, Country Manager Southern Europe, Ocean Winds "Offshore Floating Wind – WindFloat Atlantic"		
17:45	João Sardo, Wind Turbine Expert, GENERG "+1%, the search for the optimal WT performance"		
20:00	Conference Dinner at "Casa da Música"		

Friday 5 November			
	Auditorium	Room A104	Room B031
09:30	Centurelli, Gabriele: Assessing intercluster wakes modeling with in situ measurements and SCADA	Blumendeller, Esther: Experimental quantification of low-frequency sound of onshore Wind Turbines	Fankhänel, Matthias: Evaluation, classification and conditioning of experimental measurement data for structural health monitoring, using a machine learning approach
09:45	Orozco, Priscila: Uncertainties of long-range lidar measurements in the far wake offshore	Dallas, Scott: Do the Scottish economic accounts show the impact of changes in the electricity mix?	Sadeghi, Negin: Comparison of methodologies to combine strain gauge signals to an accumulated damage figure at a point of interest along the circumference of an offshore wind support structure
10:00	Rowell, David: Accessibility of Floating Wind Turbines	Shah, Anik: Low-frequency noise computation from wind turbines using an FW-H acoustic analogy solver coupled with CFD	Pimenta, Francisco: Definition of monitoring strategies for floating offshore wind turbines
10:15	Sander, Aljoscha: Kinematics of Partially Installed Offshore Wind Turbines	Guilloré, Adrien: Environmental impact of wind energy and paths to improvement from design phase	Gebauer, Julia: Geometrically nonlinear cross-sectional deformations of a very large wind turbine blade
10:30	Garcia, Oscar: Offshore wind farm wakes effects on the validation of vertical profiles using mesoscale modeling	White, Craig: Development of a comprehensive cost database for floating offshore wind systems	DeFrancisci, John: Preliminary Investigation on the Limitations of Existing S-N Design Curves
10:45	sajidi, mosaab: Identifying fine turbulent structures in offshore wind farms with In Situ Measurements.		Drexler, Sebastian: On the influence of a pile stick-up towards the dynamic behaviour of a jacket support structure.
11:00	Coffee Break		
11:30	Weil, Maximilian: An autoencoder based methodology for novelty detection in a single offshore wind turbine structure.	Meyer, Jannik: Development of a real-time capable model to investigate coupled motions of work vessel and crane load during offshore wind turbine installation	Becker, Marcus: Connecting the wind farm model FLORIDyn to heterogeneous flow and performing a sensitivity analysis
11:45	Li, Chen: Future material requirements for global offshore wind energy development	Keane, Rachel: Foundations of Offshore Wind Structures	Ntrella, Konstantina: Multi-rate time stepping in wind farm LES with actuator line methods
12:00	Gorostidi, Nicolas: A Deep Learning Model for the Structural Health Monitoring of Floating Offshore Wind Turbine Mooring Lines based on Modal Parameters	Fernandes de Oliveira Junior, Adelmo: Development of a Quasi-Static Testbed for Monopile Models Using State of The Art Sensors	Tamaro, Simone: Numerical simulations for active power control of wind farms
12:15	Marini, Rebeca: Wind Turbine Condition Monitoring System	Drexler, Sebastian: On the influence of a pile stick-up towards the dynamic behaviour of a jacket support structure.	Vad, Andreas: Learning and explaining intra-plant flow features from operational data - Application to the offshore wind farm Anholt
12:30	Closing and feedback session		
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13:00	Lunch		
14:30	Port Cellars visiting tour		
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