## Ice Breaker event

			Wednesday 6 September		
	Building 3703, Room 023	Building 3701, Room 268	Building 3701, Room 267	Building 3702, Room 031	Building 3703, Room 335
8:30	Registration				
9:00	<b>Opening Session</b> Raimund Rolfes Athanasios Kolios				
10:00			Coffee		
10:30	Production, O&M, decommissioning and lifetime extension	Control of wind turbines and wind farms	General topics of wind energy	Reliability, monitoring and sensing technology	Support structures and geotechnics
	Kainz Samuel: Tradeoffs between economics and climate-related impacts in the design of offshore wind farms	Onnen David: Comparison of load- and lidar- based wake estimation in simulations, wind tunnel and field experiments	Obradovic Katarina: Physical design of hybrid power plants	Dierksen Niklas: Uncertainty quantification in model updating with Monte Carlo sampling and global optimisation	Qian Han: Data-driven assistant for conceptual design of offshore jacket substructures
	Guilloré Adrien: Tradeoffs between economics and climate-related impacts in the design of wind turbines and airborne kites	Bohrer Jan Kai: Wind field reconstruction and prediction for adaptable wind farm control optimisation	Schubert Jenny: Numerical Accuracy of Principal Geodesic Analysis on the Sphere	Ragnitz Jasper: Model Updating for damage localisation and quantification using a multi- objective extension of the Global Pattern search	Drexler Sebastian: Analytical integration of Dirklik's distribution for bilinear S-N curves
	Hübner Martin: Hybrid use of LTT welding filler metals for fatigue strength improvement of hight-strength steel components	Afanasieva Nadiia: Improving the Quality of Wind Field Reconstruction Techniques for Lidar- assisted Control of Wind Turbines	Märtins David: Derivation of a nonlinear coupling element for the modelling of the soil structure interaction of large offshore wind turbines	Galhardo António: Safety control and lifetime prediction of wind turbines based on digital twins and structural health monitoring	Mclaughlin Emmet: A review of the existing methods of phase field modelling for fatigue life predictions
	Großmann Friederike: Investigation of Leading edge erosion and its mitigation on the levelized cost of energy for horizontal axis wind turbines	Gori Filippo: Wind farm power maximisation via wake steering using Gaussian process-driven yaw-dependent parameter tuning	Wenske Anne-Kathrin: On the way to high(er) fidelity FSI simulations	Yildirim Busra: Uncertainty quantification of the floating wind turbine modelling chain	Raúl Beltrán: Hysteretic Nonlinear Model for Describing Fatigue Behavior of Concrete in Hybrid Towers
	Khalid Omer: Cost-benefit analysis for robotics- driven inspection of floating offshore wind farms	Janssens Nick: Towards real-time optimal control of wind farms using large-eddy simulations	Khan Mehtab: Guidelines on Accurate Numerical Simulation of Atmospheric Gravity Waves in Wind Farm Applications	Reinhardt Tim: Influence of the rotor nacelle assembly modelling on the eigenfrequencies of offshore wind turbines with monopile foundations	Borgelt Jakob: Fatigue crack development in axially loaded grouted connections
		Flanagan David: Control-Oriented modelling of Wind Farms using Computationally Efficient Methods	Syed Huzaifa: Optimisation of dynamic cable configuration for FOWT	Shadmani Alireza: Probabilistic peridynamics model for damage calculation of wind turbine blades	
12:00			Lunch		
13:15	Wind farm and wakes	Wind resources, turbulence and acoustics	Hydrodynamics of offshore wind turbines	Reliability, monitoring and sensing technology	Aero-elastics and blade technology
	Daenens Simon: Reinforcement learning for health-aware fleet control of wind farms	Bock Marcel: Investigation of intermittency in LES with synthetic turbulent inflow	Meyer Jannik: The simulation of nonlinear crane load motion during offshore operations using Heavy Lift Vessels	measures on the fatigue behaviour of rotor blades	Schuster Daniel: Verification of a new mid- fidelity aeroelastic simulation tool for large wind turbines
	Jané-Ippel Christian: Bayesian optimisation of a two-turbine layout around a 2D hill using Large Eddy Simulations	Moreno Daniela: Center of Wind Pressure: A comparison between atmospheric and standard synthetic wind fields	experimental study	applying a Langevin Analysis to model wind turbine measurement data	Antunes Ana: Validation of structural models for wind turbine blades with different levels of fidelity
	Ruck Nico: Optimisation of flexible wind farm control strategies under consideration of uncertainties	Pinilla Sebastian: Reconstruction of wind fields by a superstatistical synthetic model constrained on wind tunnel measurements	Mcmillan Ailsa: Design, assembly, and characterisation of a floating offshore wind turbine for hydrodynamic assessment using physical model tank testing.	De Pascali Marco: Design of a 1m-rotor wind turbine model for wind tunnel testing	Cespedes Moreno Juan Felipe: Quantification of performance difference between two and three- dimensional flows around blade root sections
	Martins Flavio: 3D Unsteady CFD Model for Multi-Rotor Multi-Body Fluid Structure Interaction	Borowski Johanna: Predicting future wind speeds based on climate projections and MCP- methods	Herdayanditya Ivandito: PreliminaryExperimentalStudyofWaveFieldArou ndMonopile		Ntrelia Konstantina: Multirate coupling in aeroelastic simulations using the actuator line model
14:15			Coffee		
14:45	<b>Diversity Session</b> James Gilbert and Kane Needham Joana Rieck				

## Thursday 7 September

	Building 3703, Room 023	Building 3701, Room 268	Building 3701, Room 267	Building 3702, Room 031	Building 3703, Room 335		
9:00	<b>Keynote Session</b> Jos Beurskens Julia Gottschall Nikhar Abbas						
10:30			Coffee				
11:00	Meet the Industry ENERCON GmbH JÖRSS-BLUNCK-ORDEMANN GmbH Ramboll GmbH wpd windmanager GmbH & Co. KG Wölfel Holding GmbH						
12:45			Networking Lunch				
14:00	Aero-elastics and blade technology	Wind resources, turbulence and acoustics	Electrical converison, energy system and wind power-to-X	Floating wind turbines			
	optimization of a rotor blade for an upscaled 25 MW reference wind turbine	Propagation Model	Riofrio Jonathan: Current Trends for Optimal Sizing and Design of Hybrid Energy Systems Under the Context of Power-to-X	Messmer Thomas: Wind tunnel investigation of the wake dynamics of a floating offshore wind turbine			
		Adeel-Ur-Rehman Arslan: Improved performance of k- Omega SST turbulence model in predicting airfoil characteristics for a large range of airfoil thicknesses	Buckhold Sarah: Feasibility Analysis of Using Stranded Wyoming Wind Resource for Green Hydrogen Production	Hubert Antonin: Wake dynamics study of a floating wind turbine model through phase-averaging			
	aerodynamic wind turbine optimization using CFD with script-based meshing and parametric CAD in-the-loop	Preamsakul Wasina: Roughness effects on the aerodynamics of inboard and outboard sections of a wind turbine blade	electrolyzers using EMT simulations	Sripathy Kiran: Experimental study of the dynamic induction of a surging actuator disc			
	Pamfil Bogdan: Wind turbine stability analysis with rotating modes	Hegab Mohamed: The Spatial Development of Turbulence and its Effect on Aerodynamics	Nguyen Thuy-Hai: Adequacy Computations for Power Systems with a High Share of Offshore Wind Generation: Application to Belgium				
15:00			Coffee				
15:30	Wind farm and wakes	Control of wind turbines and wind farms	General topics of wind energy	Reliability, monitoring and sensing technology	Support structures and geotechnics		
		Malyi Max: Wind Turbine Lifetime Extension- Oriented Control System Based on Machine Learning	Kaliske Malte: Innovative combination approach for environmental parameters of offshore wind turbines		Geng Fei: Study on Scour Around Monopiles Under Coupling Effects of Periodic Tides and Monopile Vibration		
		Zengler Clemens: RANS simulation of a wind turbine in complex terrain - impact of flow deceleration and acceleration in combination with turbine modeling on power, thrust and induction	Mohamed Omar: Assessing the performance of the ALM in close-proximity Darrieus turbines: a critical analysis	Faller Luca: Domain Generalization Potential of Data-Driven Methods for Predictive Maintenance in Wind Energy Systems	Zinas Orestis: 3D Probabilistic Site Characterization		
	Mohammadi Mohammad Mehdi: Onward toward the aeroelastic coupling of an actuator sector model	Cioni Stefano: Development of an open-source controller for small stall-regulated horizontal-axis wind turbines	Prigge Felix: Numerical buckling analysis of rotor blade sandwich panels with spatially distributed material uncertainties	Oliveira Catarina: Safety control through intelligent population-based structural health monitoring and transfer learning	Sanders Immo: Numerical Simulation of Suction Caissons under Axial Loading		
	Wellmann Anna: Modeling and simulating wind- induced loads on wind turbines with the Lattice- Boltzmann method		Orbay Akcengiz Ezgi: Transition Predictions of DU 00-W-212 and Investigation of Linear Solver Methods for High Reynolds Numbers	Edler Amelie: Comparison of the dynamic behaviour of the tower of an onshore and an offshore wind turbine	Elahi Seyed Ahmad: Thermometric investigation of fatigue crack initiation from corrosion pits in structural steel used in offshore wind turbines		
	Meijer Jorrit: Al-based refinement of mesoscale simulations for wind energy applications	Visbech Jens: Mitigating leading edge erosion in wind farms through optimal erosion-safe mode control		Saxena Isha: Data Driven Infrastructure Planning For Offshore Wind Farms	Goldau Norman: Model testing of a gravity foundation in sand		
			Gebauer Julia: Impact of geometrically non- linear cross-sectional deformations of rotor blades on aerodynamic properties		Eichner Lukas: Design of offshore jacket support structure for experimental fatigue life evaluation		
19:00							
			Dinner				

## Friday 8 September

	Building 3703, Room 023	Building 3701, Room 268	Building 3701, Room 267	Building 3702, Room 031	Building 3703, Room 335			
9:00	Wind farm and wakes	Wind resources, turbulence and acoustics	Emerging technologies	Floating wind turbines				
	Schøler Jens Peter : RANS based PINN wake surrogate	Abdulrazek Abdulkarim: High resolution measurements of turbulent structures in atmospheric flows using a met mast array	Panagiotou Emmanouil: Synthetic Design Alternatives for Offshore Wind Turbine Substructures	Novais Felipe: Aerodynamic Design of Floating Offshore Wind Turbines Scaled Models for Wave Basin and Wind Tunnel Testing				
	Korb Henry: How to keep it fast - Upholding Computational Performance While Increasing Complexity in Wind Farm Simulations	Uluocak Sinem: Effect of the probe volume on wind speed measured by short-range continuous wave lidars in a free-field test site	Kouaissah Otman: VAWTs in tilt condition: A comparative CFD study of different concepts	Lee Kai: An investigation of the interaction between floating wind turbines and direct drive generators air gaps.				
	Kherlen Jigjid: Data-Driven RANS Closures for Wind Farms Under Neutral Atmospheric Conditions	Meyer Paul: Tackling turbulence intensity from a lidar perspective	Yahaya Taiwo: Computational study of vortex induced wind turbine for electricity generation in low latitude tropical regions	Philipp Christian: Floativin - Langevin analysis of floating wind turbines				
			Edirisinghe Dylan S: Droplet impact modelling to predict the rain-induced Erosion of wind turbine blades	Minne Leon Jan: Implementation and Evaluation of a Simplified Mooring Line Model for Offshore Wind Turbines				
10:00			Coffee					
10:30	Wind farm and wakes	Emerging technologies	Electrical converison, energy system and wind power-to-X	Reliability, monitoring and sensing technology				
	Bührend Lukas: Numerical Simulations of Boundary Layer Processes relevant for Wind Parks	Lochhead Robert: Thermoplastic Blades for Multi-Rotor Wind Turbine Application	Keslake Rachael: Feasibility of production of synthetic fuel in an offshore environment	Fernandes De Oliveira Junior Adelmo: Improving Acoustic Emission Measurement Reliability in Remote Sites by Using a Mobile Verification Setup				
	Centurelli Gabriele: Assessing cluster wake description in engineering models and WRF with Lidar and SCADA	Pynaert Niels: Unsteady aerodynamic simulations of an airborne wind energy system in realistic flight and environmental conditions using computational fluid dynamics	Isbister Callum: Evaluation of Acoustic Noise Emitted by Power Electronic Equipment in a Variable-Speed Wind Turbine	Bartels Jan-Hauke: Hardware Redundancy for Sensor Degradation Detection in SHM Systems using Strain Gauge Measurements				
	Devesse Koen: Atmospheric Perturbation Model for Modelling Wind-Farm Gravity-Wave Interaction	Crismer Jean-Baptiste: Large Eddy Simulation of Airborne Wind Energy Systems flying optimal trajectories in turbulent wind	Wagner Martin: Langevin analysis of control parameters in wind turbines	Rodrigues Faria Bruno: Lifetime counting of a wind turbine tower based on fatigue accumulation				
	Paulsen Johannes: Mesoscale effects of the interactions between wind farm clusters with large innovative rotor concepts and the boundary layer		Souza De Alencar Mauricio: Graph-based diffusion solvers for wind farm collection system layout optimization	Xu Ronghua: Energy spectral analysis of wire breaks in post-tensioned tendons for wind turbines				
11:30	Closing Session							
12:00								
	Lunch							
13:00								
	Excursions							