

18/09/2018			
Room	Room D0.02	Room E0.05	Room E0.06
9:30	Opening		
9:45	Academic Keynote: "Understanding and Controlling Turbine Wakes" , by Carlo Botasso		
10:45	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
11:00	Aerodynamics: "Challenges and Opportunities in Wind Farm Modelling Using the Lattice Boltzmann Method" , by Henrik Asmuth	O&M: "Identification of Unexpected Patterns and Relationships in Wind Turbine SCADA Data Using Dynamic Structural Equation Modelling" , by Baher Azzam	Turbulence: "Characterization of Wind Turbine Siting Parameters in Complex Terrain Using Multi-LiDAR Measurements" , by Pedro Santos
11:15	Aerodynamics: "High-Fidelity Analysis of Wind Turbines in Complex Terrain with Focus on Solver Coupling and Structural Modelling" , by Phillip Bucher	O&M: "SCADA Based Anomaly Detection - Challenges for Automated ANN Applications" , by Simon Letzgas	Turbulence: "Investigation into Boundary Layer Transition on the MEXICO Blade" , by Brandon Arthur Lobo
11:30	Aerodynamics: "Design of Wind Turbines for Low Wind" , by Helena Canet Tarrés	O&M: "Machine Learning Method for IPC Controller Selection from Wind Features" , by David Collet	Turbulence: "Coupling the Actuator Disc Flow Model to a High Order Meteorological LES Solver in order to Study Wind Farm Flows over Complex Terrains" , by Pierre-Antoine Joulin
11:45	Aerodynamics: "Electronic TellTale (E-penon) Sensor to Detect Flow Separation on Wind Turbine's Blades" , by Antoine Soulier	O&M: "Automatic Detection of Events Critical for Drivetrain Monitoring Using Machine Learning" , by Pieter-Jan Daems	Turbulence: "Modelling the Influence of Atmospheric Stability on the Wind Resources of a Complex Terrain Site" , by Chuka Nwabunike
12:00	LUNCH - VUB RESTO	LUNCH - VUB RESTO	LUNCH - VUB RESTO
13:30	Aerodynamics: "Fluid Structure Interaction for Wind Turbines in Atmospheric Flow" , by Christian Grinderslev	Modelling: "Global Sensitivity Analysis of Offshore Wind Turbine Foundation Fatigue Loads" , by Joey Velarde	Reliability: "Fatigue Reliability Analysis of Onshore Wind Turbine Foundations" , by Amol Mankar
13:45	Aerodynamics: "Fluid-Structure Interaction Simulations of a Large Horizontal Axis Wind Turbine in the Atmospheric Boundary Layer" , by Gilberto Santo	Modelling: "Cross-Correlation-based Approach to Align Turbulent Inflow Between CFD and Lifting-Line-Codes in Wind Turbine Simulations" , by Florian Wenz	Reliability: "Robust Design Simulation for a Horizontal Axis Wind Turbine Rotor Design" , by Hazal Altug
14:00		Modelling: "Integration of Controllers in Wind Farm Simulations" , by Chengyu Wang	Reliability: "Using SCADA in Updating Failure Probability of a Monopile Offshore Wind Turbine Support Structure" , by Quang Mai
14:15	Senior Ph.D. Workshop: "Working with SCADA Data" , by Elena Gonzalez and Sofia Koukoura	Senior Ph.D. Workshop: "Marine Ecology" , by Paul Causon	Senior Ph.D. Workshop: "Airborne Wind Energy" , by Thomas Haas
15:00	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK

15:30	Geotechnics: "Model Predictive Control of Fatigue" , by Stefan Loew	Hydro&Floating: "Characterising Wave-Tidal Current-Turbulence Parameters for Fatigue Design of Tidal Turbine Components" , by Marilou Jourdain de Thieulloy	Electricity: "Comparison Between Different VSC Controllers Connected to a Weak Grid" , by Matthieu Kervyn
15:45	Geotechnics: "Innovative Explicit Method to Account for Cyclic Degradation: Different Applications for OWT foundations" , by Gianluca Zorzi	Hydro&Floating: "Wave Tank Model Testing of Floating Wind Turbines: Reproducing Aerodynamic Loads" , by Vincent Arnal	Electricity: "An Assessment of PLL based Controllers for Converters in Weak AC Systems" , by Leo May
16:00	Geotechnics: "Large Scale Physical Modelling of Monopile Wind Turbine Scour Protection" , by Minghao Wu	Hydro&Floating: "Experimental Measurements the of Fluid Forces on Bio-Inspired Tidal Energy Harvesters" , by Marlee Nathalie Basurto Macavilca	Electricity: "Cost Reduction of Subsea Cables in Offshore Wind-farms through the Use of Energy Storage" , by Rebecca Hall
16:15	Geotechnics: "Subsoil Stress Reconstruction for Fatigue Monitoring of Offshore Wind Turbines Using Accelerometers on the Tower" , by Maximilian Henkel	Hydro&Floating: "Design Optimization of Floating Offshore Wind Turbine Blades" , by Evan Gaertner	Electricity: "Integrating Temporary Energy Storage for Renewable Energy Devices" , by Peter Taylor
16:30	Geotechnics: "Corrosion Fatigue in Offshore Structures" , by Jie Zhang		Electricity: "Wind Turbine Conversion Chain - A Control Contribution" , by Abdellah Dergal

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9:30	Senior Ph.D. Workshop: "Turbine Modelling" , by Clemens Huebler and Benedikt Hofmeister	Senior Ph.D. Workshop: "Working with LiDAR Data" , by Elliot Simon	Senior Ph.D. Workshop: "Vertical Axis Wind Turbines" , by Bruce Leblanc and Vincent Leroy
10:15	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
10:45	Aerodynamics: "Assessment of Transition Modelling for Wind Turbine Flows" , by Konstantinos Diakakis	New Concepts: "A Novel Method for Synthetic Wind Data" , by Daniele D'Ambrosio	O&M: "Diagnosis of In-Service Wind Turbine DFIGs through Current Signature Analysis" , by Estefania Artigao
11:00	Aerodynamics: "Laminar-Turbulent Transition Prediction by High Frequency Microphone Measurements" , by Özge Sinem Özçakmak	New Concepts: "Wind Flow Modelling for Airborne Wind Energy Systems" , by Markus Sommerfeld	O&M: "Model Predictive Control-Based Reduction of the Tower Bottom Bending Moment" , by Thorben Kallen
11:15	Aerodynamics: "Reduced-Order Modelling of Vortex Generators: Can Auto-Encoding Neural Networks Do Better Than POD?" , by Gael de Oliveira	New Concepts: "Optimal Operation and the Power Curve of a Flexible-Kite, Pumping Airborne Wind Energy System" , by Mark Schelbergen	O&M: "Potential OPEX and Availability Changes from the Introduction of Larger Offshore Wind Turbines" , by James Stirling
11:30	Aerodynamics: "Microtabs for Load Alleviation in Horizontal-Axis Wind Turbines" , by Ali Ghandour	New Concepts: "Electrical Systems for Multi-Rotor System-based Wind Turbines" , by Paul Pirrie	O&M: "Development of Methods for Risk Assessment of Wind Turbine Support Structures" , by Sima Rastayesh
11:45	Aerodynamics: "Identifying Strategic Opportunities for Blade Load Alleviation Using Constrained Optimization" , by Jon Lewis	New Concepts: "Performance Enhancement of Incompressible Solvers in OpenFOAM for Faster Steady and Unsteady Simulations Around Wind Turbines" , by Nelly El Achkar	O&M: "Finding a Connection between Load Exposure and Reliability of Wind Turbines in a Wind Farm" , by Laura Schroeder
12:00	LUNCH - FOYER BUILDING D	LUNCH - FOYER BUILDING D	LUNCH - FOYER BUILDING D
13:00	Meet the Industry		
15:15	NETWORK BREAK - FOYER BUILDING D	NETWORK BREAK - FOYER BUILDING D	NETWORK BREAK - FOYER BUILDING D
15:45	O&M: "Retrofit Control Concepts for Lifetime Extension" , by Vasilis Pettas	Turbulence: "Characterization of Anomalous Wind Events in Observations and in the ERA5 Reanalysis over the North Sea" , by Peter Kalverla	Modelling: "Towards Numerical Simulation of Offshore Wind Turbines Using Anisotropic Mesh Adaptation" , by Louis Douteau
16:00	O&M: "Development of New Strategies for Optimized Structural Monitoring of Wind Farms" , by João Pacheco	Turbulence: "On the Selection of Tracking Variables at the Interface between Wind-Farm and Turbine Controllers in a Hierarchic Wind Farm Control Approach" , by Ishaan Sood	Modelling: "Experimental Analysis of the Wake Behavior During Yaw Variation Imposed through Wind Farm Control Strategies" , by Stefano Macri

16:15	O&M: "Development of a Discretized Vibration Model to Investigate Vibration Monitoring of a Composite Cantilever Beam based on a Change in Local Damping" , by Sharif Khoshmanesh	Turbulence: "Simultaneous Observation of Wind Shears and Misalignments from Rotor Loads: First wind Tunnel Validation" , by Marta Bertelè	Modelling: "Variable Speed Variable Pitch Control for a Wind Turbine Scale Model" , by Alessandro Fontanella and Federico Taruffi
16:30	Industrial Keynote: "Offshore Wind - Growing Ever Bigger" , by Cedric Vanden Haute		
17:30			
19:00	CONFERENCE DINNER - ROYAL BELGIAN INSTITUTE OF NATURAL SCIENCE		

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9:30	Aerodynamics: "Delayed Detached-eddy Simulation around NREL S826 Blade Section for Transition Prediction" , by Özgür Yalçın	New Concepts: "Feasibility Study of a Hybrid Renewable Energy System Combining Small-Scale Wind and Solar on a Rooftop in the Brussels Region" , by Quentin Deltenre	Modelling: "Quantification of Influencing Factors onto the Annual Energy Product with Respect to the Wind Farm Layout" , by Bjoern Roscher
9:45	Aerodynamics: "Numerical Simulation of Ice Accretion on Coated Wind Turbine Blades" , by Khaled Yassin	New Concepts: "Design, Manufacturing and Experimental Validation of a Pair of Vertical-Axis Wind Turbines for Wind Tunnel Tests" , by Antoine Vergaerde	Modelling: "Verification of Structural Properties for Bend-Twist Coupled Wind Turbine Blades" , by Mareen Tiedemann
10:00	Aerodynamics: "Analytical and Experimental Investigation of Icing Phenomena on Wind Turbine Blades" , by Adriana Enache	New Concepts: "Assessment of Load and Cost Reduction Capabilities of a 10MW-Scale Wind Turbine through Ply and Angle Orientation" , by Giannis Serafeim	Modelling: "Cost-Accuracy Analysis of Wind Turbine Simulations with Geometrically Nonlinear Blade Models" , by Ozan Gozcu
10:15	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
10:30	Aerodynamics: "An Unsteady Actuator Annulus Relationship for Simplified Multi-Kite Systems" , by Rachel Leuthold	O&M: "Thermal Network Modelling of a Wind Turbine Gearbox Using Matrix Inverse Method for Condition Monitoring" , by Becky Corley	Turbulence: "Development of Wake Meandering Detection Algorithms and their Application to Large Eddy Simulations of an Isolated Wind Turbine" , by Nicolas Coudou
10:45	Aerodynamics: "Experimental and Numerical Study on the Unsteady Aerodynamics of HAWT Rotors" , by Luca Bernini	O&M: "Comparing Rule Based and Machine Learning Based Vibration Condition Monitoring for Wind Turbine Gearboxes" , by Sofia Koukoura	Turbulence: "Characterization of Turbulence Spectra Using Long Range Pulsed Wind LiDAR" , by Yiyin Chen
11:00	Aerodynamics: "Vortex Ring State Prediction for Floating Offshore Wind Turbines" , by Jing Dong	O&M: "Wind Turbine Gearbox Failure Prediction Using Deep Learning" , by Conor McKinnon	Turbulence: "Space-Time Characterization of Large-Scale Atmospheric Structures from LiDAR Measurements" , by Leonardo Alcayaga
11:15	Aerodynamics: "CFD simulation of Floating Offshore Wind Turbines" , by Marion Cormier	O&M: "Long Term Modal Parameter Estimation on Wind Turbine Drivetrains" , by Nicoletta Gioia	Turbulence: "LES Based 4D-Var Data Assimilation of a Turbulent Atmospheric Boundary Layer Using Virtual LiDAR Sensors" , by Pieter Bauweraerts
11:30	Closing Session		
12:00	Feedback Session		

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