

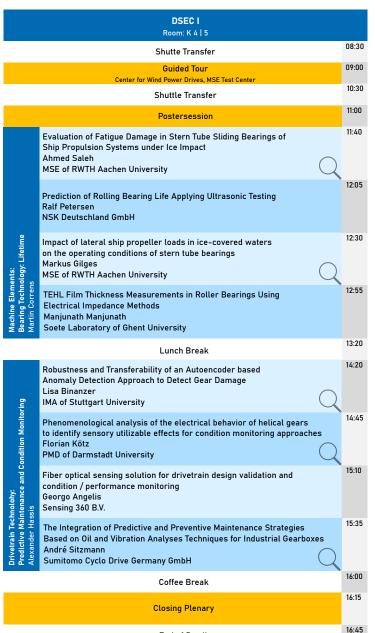




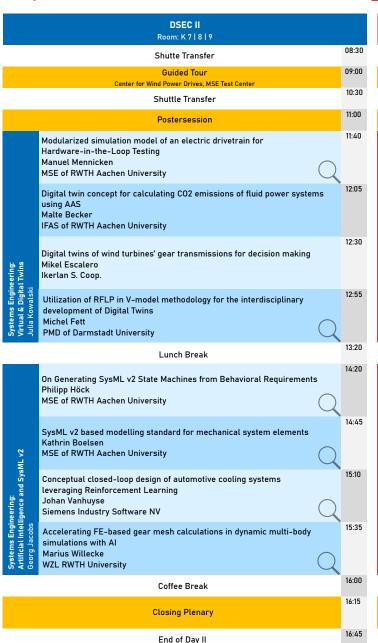




Conference Program March 12, 2025



End of Day II







16:45

CWD peer-reviewed paper at link.springer.com/collections/eehgdcbhda



DSEC peer-reviewed paper at link.springer.com/collections/ebaaidfffi



	OMP-H		
CWD II Room: K 1			
Shutte Transfer			
Guided Tour		09:00	
Center for Wind Power Drives, MSE Test Center Shuttle Transfer			
Postersession			
	Prototype testing of wind gearboxes on test bench and turbine Martin Reuter Flender GmbH - Winergy	11:40	
	Field validation of dynamic mechanical torque measurements using fiber-optic strain sensors for geared wind turbines Unai Gutierrez-Santiago National Renewable Energy Laboratory	12:05	
	Optical Fiber Sensing to measure the gear load distribution in a planetary stage of a wind turbine gearbox Jelle Bosmans ZF Wind Power Antwerpen NV	12:30	
Powertrain I Alf Trede	Experimental Validation of a High Torque Density Flange Connection Björn Juretzki & Daniel Kleef IME Aachen GmbH	12:55	
Lunch Break			
	Trends and technology in wind turbine powertrain systems Ralf Hambrecht Flender GmbH	14:20	
	System integration in an advanced 3 point suspension wind turbine drive train Alf Trede bewind GmbH	14:45	
	Speedy_HTS: Design and Benefits of Medium-Speed Superconducting Generators with Oil-Cooled Stators Rolang Zeichfüßl Flender GmbH - Winergy	15:10	
Powertrain II Anders Hanser	Reliability and Wind (Gearbox) Industry Christopher Sous ZF Wind Power Antwerpen NV	15:35	
Coffee Break			
Closing Plenary			

End of Day II

	CWD III			
	Room: K 2	08:30		
Shutte Transfer Guided Tour				
Center for Wind Power Drives, MSE Test Center				
Shuttle Transfer				
Postersession				
Component Fatigue and Life Extension Roland Zeichfüßl	Component Specific Fatigue Strenght Determination using Hollow Drill Samples for Limit State Design in Drive Train Components Felix Weber IWM of RWTH Aachen University	11:40		
	Technical and physical investigations of used wind turbine gearbox oils - a perspective for lifetime lubrication? Gernot Bayer IMKT of Leibniz University Hannover	12:05		
	On Confidence Interval-Based Anomaly Detection Approach for Temperature Predictions of Wind Turbine Drivetrains to Assist in Lifetime Extension Assessment Kelly Tartt, University of Strathclyde, NTNU	12:30		
	Prognosis of Journal Bearing Wear Using Machine Learning-Based Surrogate Models for Predictive Maintenance Florian Wirsing MSE of RWTH Aachen University	12:55		
1 Lunch Break				
	Quality Management Approach Considering Sustainability Aspects Within the Design of Wind Turbines Lisa-Marie Nettlenbusch Chemnitz University of Technology	14:20		
	Navigating Sustainability: A Journey of Strategy Development Allan Korsgaard Poulsen Vestas Wind Systems A/S	14:45		
	Driving Sustainable Solutions in the Wind Industry: Connecting Value Chains and Customer Needs Sara Nassehi Nejad Vestas Wind System A/S	15:10		
Sustainability Yi Guo	Enhancing Wind Turbine Availibility & Longevity: The Impact of Lightweight Modular Generator Systems Joseph Burchell, CGEN Engineering	15:35 16:00		
Coffee Break				
Closing Plenary				

End of Day II

CWD Academic Track Room: K 3				
Shutte Transfer				
Guided Tour Center for Wind Power Drives, MSE Test Center				
Shuttle Transfer				
Postersession				
Gearbox Dieter Mevissen	Component fatique strength testing on a down-scaled cast iron turbine gearbox planet carrier Vitali Züch CWD of RWTH Aachen University	11:40		
	Thermo-Elastohydrodynamic Gearbox Simulations Jochen Lang IST Ingenieurgesellschaft für Strukturanalyse und Tribologie mbH	12:05		
	Quasistatic Modelling of Long-wave Axial Deviations in Planetary Gears for Vibroacoustic Condition Monitoring Systems Simon Nohl WZL of RWTH Aachen University	12:30		
	Influence of Hydrodynamic Planetary Journal Bearings on the NVH-Behavior of Wind Turbines Moataz Sabry CWD of RWTH Aachen University	12:55		
Lunch Break				
Turbine Design and Control Thorsten Reichartz	Identifying Path Ahead for Tackling Future Challenges in Direct-drive Wind Turbine Generator's Electro-Mechanical Design and Manufacturing Kelly Tartt University of Strathclyde, NTNU	14:20		
	Farm-wide dynamic drivetrain event and diagnosis tracking using multi-modal data Jan Helsen Vrije University Brussels	14:45		
	Towards wind turbine control for adaptive optimization of energy production and rotor blade noise Paul Piechnick & Andrés V. Gimeno-García IRT & AIA of RWTH Aachen University	15:10		
	Evaluation of Wind Field Reconstruction for Lidar-Assisted Control of a 2 MW Wind Turbine David Schlipf Flensburg University of Applied Sciences	15:35		
Coffee Break				
Closing Plenary				
End of Day II				