

DSEC I	
Room: K 4 5	
Opening Plenary	08:30
Coffee Break	11:20
Drivetrain Technology: Performance & Efficiency Raif Dinter	Optimization of power-split hybrid drives and of their operating strategy using dynamic programming Hendrik Hoffmann Engiro GmbH
	Cost Reduction of Four-Point Bending Tests by using an innovative electrohydraulic Drive Concept Timo Jungblut IABG GmbH
	Design of profile corrections and tolerances in cylindrical gears for noise-sensitive applications in line with production efforts Laurenz Roth WZL of RWTH Aachen University
Lunch Break	13:00
Drivetrain Technology: Noise, Vibration, Harshness Marco Ramm	An efficient simulation chain for predicting the vibro-acoustic behavior of industrial gear units Prateek Chavan SEW-EURODRIVE GmbH & Co KG
	Topology Optimization of Nonlinear Elastomer Engine Mounts Considering the Transfer Behavior Sebastian Bahr MSE of RWTH Aachen University
	Validation of Models for Calculating the NVH Behavior of Gearbox Systems in an Elastic Multibody Simulation Stefan Wischmann & Alexander Mann MSE & WZL of RWTH Aachen University
Efficient Simulation of Rotordynamics and Acoustics of an Electric Drive Train with Electromagnetic Coupling Alexander Boucke IST GmbH	15:15
Coffee Break	15:40
Machine Elements: Design & Tribology Lutz Lindemann	Influence of Lubricant Particle Contamination on Premature Failure of Electrical Loaded Radial Cylindrical Roller Bearings in Wind Turbines Peter Rößler & Jörn Harling MSE of RWTH Aachen University
	Machine learning-based prediction of friction losses in textured journal bearings Yujun Wang MSE of RWTH Aachen University
	Geometric Design of Axial Piston Machine Slipper-Bearings made of High-Performance Plastics Felix Schlegel IFAS of RWTH Aachen University
Shuttle Transfer from Eurogress to Conference Dinner	18:00
Conference Dinner TIVOLI Aachen	18:30

DSEC II	
Room: K 7 8 9	
Opening Plenary	08:30
Coffee Break	11:20
SE: Seamless Model-Based Product Development Jens Demtröder	Automated Generation of Drivetrain Components with Model-based Systems Engineering, Variant Modeling and FVA Workbench Ingo Schulz SKF GmbH
	Enabling broader access to MBSE system models using collaborative engineering platforms and SysMLv2 Matthias May MSE of RWTH Aachen University
	ASPICE Compliant Model-based Systems Engineering with 3DEXPERIENCE Platform Olivier Sappin Dassault Systèmes Catia
Lunch Break	13:00
Systems Engineering: MBSE in Practical Application Jeorg Berroth	Realizing Multidisciplinary Verification: Synchronizing System Architecture and Electrical Simulation Domains Morten Huber Dassault Systèmes
	Lightweight User Interface for Model-Based Systems Engineering of Product Architecture Asanka Maithripala Vestas Wind Systems A/S
	Demonstrator Model for an Entity-Based System Modeling Approach Björn Juretzki IME Aachen GmbH
Cube - A SaaS collaboration platform for the development of technical systems Heiko Baum Fluidon GmbH	15:15
Coffee Break	15:40
Systems Engineering: System Models and Model Libraries Mike Nicolai	Practical approach of system engineering to meet the challenges of agricultural machinery Marco Ramm CLAAS Industrietechnik GmbH
	Seamless Model-Based Concept Exploration, Simulation, Design Optimization and Evaluation of Hydrogen-Electric Drivetrains using a Model Library Lukas Irnich, MSE of RWTH Aachen University
	Reusable Solution Element Libraries for Accelerated Application of MBSE in Mechanical Product Development Frederik Moers MSE of RWTH Aachen University
Shuttle Transfer from Eurogress to Conference Dinner	18:00
Conference Dinner TIVOLI Aachen	18:30

CWD I	
Room: Europasaal	
Opening Plenary	08:30
Coffee Break	11:20
Planetary Plain Bearing I Martin Knops	Next Generation Plain Bearing Technology for Wind Turbine Gearboxes Hermann van Lier ZF Wind Power Antwerpen NV
	Simulation and application of hydrodynamic planet bearings for wind turbine Michael Plogmann & Mario Kittsteiner Schaeffler AG & Co. KG
	Analysing and Predicting the Behaviour of Journal Bearings on the Gearbox Operational Behaviour Daniel Piel & Tim Marske Vestas Nacelles Deutschland GmbH
Lunch Break	13:00
Planetary Plain Bearing II Arno Klein-Hitpass	Measurement of operational characteristics inside a planetary plain bearing under wind turbine operating conditions Dennis Witter ZF Wind Power Antwerpen NV
	Failure mechanisms of bronze-based plain bearings implemented in gearbox under presence of foreign particles Akash Deo Rheinmetall, Division Power Systems, BU Bearings
	Detection of particle contamination and lubrication outage in journal bearings in wind turbine gearboxes using surface acoustic wave measurements and machine learning techniques Thomas Decker, CWD of RWTH Aachen University
Effect of adding hard particles to welded sliding material in plain bearings for planetary gears Ryo Asaba Daido Metal Co., Ltd.	15:15
Coffee Break	15:40
Main Bearing I: Plain Bearing Joachim Nitzpon	Miba's Segmented Journal Bearing (SJB™) - an innovative solution for wind turbine main bearings Johannes Hölzl & Patrick Laubichler Miba Gleitlager Austria GmbH
	Fluid-Film-Main-Bearings: An Alternative to Roller Bearings Stefan Haverkamp Waukesha Bearings
	Investigation into the design of a novel conical plain bearing concept with enhanced serviceability Jan Euler CWD of RWTH Aachen University
Shuttle Transfer from Eurogress to Conference Dinner	18:00
Conference Dinner TIVOLI Aachen	18:30



CWD II Room: K 1	
Opening Plenary 08:30	
Coffee Break 11:20	
Gearbox I Andreas Klein	Probabilistic modelling of the tooth root strength of wind gears Jonas Finken Flender GmbH 11:45
	Design of a Tooth Flank Fracture Critical Testing Gear Set under Reverse Loading Johannes Rolzhäuser WZL of RWTH Aachen University 12:10
	Tooth Flank Fracture in a Wind Turbine Gearbox: A Failure Analysis Sascha Rommel FZG of Technical University of Munich 12:35
Lunch Break 13:00	
Gearbox II Andreas Weber	Elastic Interaction in Planetary Stages with Increased Torque Density Sebastian Reisch Flender GmbH - Winergy 14:00
	Dynamic embedding process of friction enhancing hard particles in frictional connections Jonathan Schanner TU Chemnitz 14:25
	High Detail System Level CFD-Lubrication Analysis of Wind Turbine Gearboxes Martin Cardaun NGC Transmission Europe GmbH 14:50
	Multiobjective mechanical wind turbine gearbox design optimization to reduce component damage risk during grid faults Pascal Bußkamp CWD of RWTH Aachen University 15:15
Coffee Break 15:40	
Noise, Vibration, Harshness II Christian Westphal	Synergies of Parametric Optimization and Topology Optimization for Tonality Free Wind Turbines Philip Becht ZF Wind Power Antwerpen NV 16:10
	Deep learning approach to efficiently solve wind turbine acoustic tonalities Philipp Zech Wölfel Engineering GmbH + Co.KG 16:35
	Machine Learning methods for the design of excitation-optimized gears in Wind-Energy gearboxes Frederik Stachowske Eickhoff Bergbautechnik GmbH 17:00
Shuttle Transfer from Eurogress to Conference Dinner 18:00	
Conference Dinner TIVOLI Aachen 18:30	

CWD III Room: K 2	
Opening Plenary 08:30	
Coffee Break 11:20	
Power Electronics and Stray Current Chong Ng	Comparative, Experimental Analysis of Parasitic Currents in DFIG and SCIG based Wind Turbine Drives Amandus Bach PGS of RWTH Aachen University 11:45
	Evaluation of DC Wind Turbine Concepts for coupling Wind Energy with Electrolysis Florian Andresen PGS of RWTH Aachen University 12:10
	Experimental quantification of parasitic currents in the HSS bearings of a wind turbine gearbox Maximilian Zweiffel CWD of RWTH Aachen University 12:35
Lunch Break 13:00	
Digitalization and Artificial Intelligence Christian Kunze	Wind Turbine Gearbox Digitalization Trends and Case Studies to Lower the Cost of Energy Douglas Guthrie Vestas Nacelles Deutschland GmbH 14:00
	DIGIT-BENCH Digital Twin: Advancing the Large-Scale Testing Facilities for the Wind Industry Elif Ecem Bas R&D Test Systems 14:25
	New AI approaches enabling Advanced Condition Monitoring of Wind Turbine Gearboxes Florin Tatar ZF Wind Power Antwerpen NV 14:50
	Framework for AI-Driven Image Analysis Systems for Gearbox endoscopy inspections Lars Osterbrink LATODA 15:15
Coffee Break 15:40	
Floating Turbine Nicholas Kaufmann	Main bearing fatigue sensitivity to wake effects in a waked 15 MW floating wind turbine Veronica Liverud Krathe Norwegian University of Science and Technology 16:10
	A Comparative Fully-Coupled Analysis of Dynamic Behaviours for a 15-MW Wind Turbine on a Bottom-Fixed Monopile and a Semi-Submersible Floating Foundation Jiniqu Pan, CWD of RWTH Aachen University 16:35
	Efficient CFD Simulation & Optimization of a complete Floating Wind Turbine Frederic Spieß SIMERICS GmbH 17:00
Shuttle Transfer from Eurogress to Conference Dinner 18:00	
Conference Dinner TIVOLI Aachen 18:30	

CWD Academic Track Room: K 3	
Opening Plenary 08:30	
Coffee Break 11:20	
Roller Bearing Benjamin Lehmann	Experimental Study of Roller Bearing Raceway Indentation on Bearing Life Xinrun Liu Technical University of Denmark 11:45
	Numerical simulation of ring creep on a wind turbine main shaft Peter Grosse Fraunhofer Institute for Wind Energy Systems 12:10
	Fretting wear test of three-row roller bearings based on equivalent model Chenhao Guan Tsinghua University 12:35
Lunch Break 13:00	
Powertrain Andreas Jöckel	Advancements in Powertrain Test Design and Implementation Jonathan Hughes Offshore Renewable Energy Catapult 14:00
	HyDrive: Continuously Variable Hydraulic Power-Split Drivetrain for Wind Turbines Pascal Seifermann & Alexander Dam Hamburg University of Applied Sciences 14:25
	Characterizing Wind Turbine Drivetrain Nonlinearities for Hybrid Nacelle Tests Muhammad Omer Siddiqui Fraunhofer Institute for Wind Energy Systems 14:50
	Quantification of smearing risk for tapered roller bearings in wind turbine gearboxes during grid faults Emircan Yazici CWD of RWTH Aachen University 15:15
Coffee Break 15:40	
Planetary Plain Bearing Frank Krull	Unique concept of a planetary plain bearing test bench Fabian Renger & Marco Könekamp RENK Test System GmbH, MSE of RWTH Aachen University 16:10
	Efficient dynamic simulations of planetary journal bearings in wind turbine gearboxes Mattheus Lucassen MSE of RWTH Aachen University 16:35
	Optimisation and validation of pin profiling for sliding planet gear bearings Maximilian Pröbß COB Bearing Europe Holding GmbH, TU Clausthal 17:00
Shuttle Transfer from Eurogress to Conference Dinner 18:00	
Conference Dinner TIVOLI Aachen 18:30	