Agenda Regional User Meeting - EuroCentral | Day 2 - May 10th

Time (EST)

| 8:30 AM | Registration open | 30 minutes |

Plenary

9:00 AM	Keynote: EMC shielding and thermal – In search of the best Solution - Gold Sponsoring – *Jochen KINZIG, CENIT AG*
9:30 AM	SIMULIA Update – Florian JURECKA, Dassault Systèmes
10:00 AM	The Power of Unified Modelling and Simulation in Revolutionizing Product Development From Concept to Detailed Design: Success Stories and Future Directions – *Gregor JUDEX, Dassault Systèmes*

| 10:30 AM | Coffee Break | 30 minutes |

	Track 1	Track 2	Track 3	Track 4
	Sponsor Presentations	**EMAG: EMC I**	**MBS: Wind**	**EMAG: EMC II & EMC Overview**
11:00 AM	Building simulation credibility: what gain can we expect from data fusion? The example of solid mechanics – *Florent MATHIEU, EikoSim*	Design and validation of a simulation methodology for the virtual evaluation of magnetic fields on component level – *Marcel MESSER, Audi AG*	Modsim Workflow for Wind Energy – *Steve MULSKI, Dassault Systèmes*	Electromagnetic Simulation for Non Electrical Engineers – *Waldemar SCHULZ, Dassault Systèmes* **- in person only -**
11:25 AM	Latest Development in post-processing large FEA models with Animator4 – *Christoph KAULICH, GNS mbH*	CST 2023 Recent Enhancement on EMC Simulation – *Richard SJIARIEL, Dassault Systèmes*	Key Applications of FEA and MBS in Wind Turbine Gearboxes – *Lars GEUKES, Flender GmbH*	
11:50 AM	Accelerating the Impact of ABAQUS, fesafe & CST Results Through Rapid Results Processing, Reporting, Sharing, and Interactive 3D Results Reviews – *Prasad MANDAVA, Visual Collaboration Technoloigies Inc.*	Conducted emission simulation on complex steering system – *Dávid SZERENCSÉS, thyssenkrupp Components technology Hungary Kft.*	Tool chain for nonlinear modeling of elastomer engine mounts in multibody simulation – *Tobias RAPP & Sebastian BAHR, MSE - Institute for Machine Elements and Systems Engineering, RWTH Aachen University*	Computation of bearing voltages by using CST microwave studio – *Radoslav JANKOSKI, MAGNA Powertrain, Engineering center Steyr* **- recorded -**

| 12:15 PM | Lunch Break | 60 minutes |

	Track 1	Track 2	Track 3	Track 4
	Structure: Life Science	**EMAG: EMC III**	**MBS: Wind & Optimization**	**Fluids I**
1:15 PM	Validation of a detailed lumbar spine model for the analysis of office chair designs – *Kushagra UPADHYAY, SIMUSERV GmbH*	Electrostatic Particle-In-Cell Simulation for Analysis of Initiation of Insulator Surface Flashover in Vacuum – *Svetlana GOSSMANN, Siemens AG*	Use of multibody system simulation models to investigate load distribution in gearboxes of wind turbines – *Thomas ROSENLÖCHER, TU Dresden*	Dust and exhaust emission management in railway tunnels during grinding operations with a 1D/3D simulation approach – *Evangelos ANTONIOU, Dassault Systèmes*
1:40 PM	Detailed and Functional Simulation Models of the Human Body for the Development of Medical Devices – *Tilmann WITTIG, Dassault Systèmes*	Macromodeling for EMC Simulation – *Andreas BARCHANSKI, Dassault Systèmes*	Optimization and Identification of Parameters in Simpack Models using Isight – *Valentin KEPPLER, CENIT AG*	HVAC Vent Noise Simulation – *Dirk KEHRWALD, Stellantis*
2:05 PM	Soft Tissue Simulation with Abaqus on the Example of the Periodontal Ligament – *Albert H. KAISER*	Modeling and validation of a vibrating intrinsic reverberation chamber for immunity testing on vehicle level – *Timo KAISER*	Greybox Virtual Sensors: Combining Physics and Data for Online Loads Estimation of Wind Turbine Drivetrains – *Stefan HAUPTMANN, MesH Engineering GmbH*	Aeroacoustic analysis of a centrifugal fan cooktop extractor system with comparison to real measurement data – *Matthias THALHAMMER, Bora Vertriebs GmbH & Co. KG*

| 2:30 PM | Short Break | 10 minutes |

	Track 1	Track 2	Track 3	Track 4
	Structure: Optimization	**EMAG: ADAS & Machine Learning & AI**	**MBS: Fuel Cells, NVH & Automotive**	**Fluids II**
2:40 PM	Optimization of an additive manufactured combustion unit using Tosca and Abaqus – *Johannes GRIMMINGER, Rolls-Royce Solutions GmbH*	Enabling Radar Sensor Vehicle Integration by electromagnetic simulations – *Yadhu KRISHNAN M K, Continental AG*	Simulation of a high speed compressor supported in airfoil bearings for fuel cell application – *Gerrit NOWALD, Dassault Systèmes for Thomas MAUZ, ZF Friedrichshafen AG*	Aerodynamic Development for the 2026 Olympic Winter Games - System Coupling of a 1D-Mathematic Model and 3D SIMULIA PowerFLOW Simulation – *Christoph FISCHER, Institut für Forschung und Entwicklung von Sportgeräten - FES*
3:05 PM	Non-parametric optimization with multiphysic objectives – *Martin SCHULZ, Dassault Systèmes*	Radar Sensor Integration into Vehicles using 3DEXPERIENCE Platform – *Jan EICHLER, Dassault Systèmes*	Simulation of Foil Air Bearings in Fuel-Cell Applications – *Martin BUSCH, Schaeffler Technologies AG & Co. KG*	Fluid Simulation of Bioreactors with the Lattice-Boltzmann Solver PowerFLOW® – *Daniel MUTLYASHKI, Dassault Systèmes*
3:30 PM	Preform Design Optimization – *Narendran ANUMULA, ALPLA Werke Alwin Lehner GmbH & Co KG*	Machine-Learning Models of Components in Electromagnetic Compatibility – *Jan HANSEN, Graz University of Technology*	Digital Suspension Controller Design for adjustable Damper – *Brix TEGEDER, Mercedes-Benz Group AG*	Investigation on the Ventilation Drag of HDV Wheels – *Carlos PEIRÓ FRASQUET, FKFS Forschungsinstitut für Kraftfahrwesen und Fahrzeugmotoren Stuttgart*
3:55 PM	Using Simulia Isight to speed up valvetrain spring design in motorcycle engine – *Pavel GONDA, Ricardo GmbH*	AI software and SIMULIA – How to connect and use AI software with CST – *Thomas BRESSNER, Ericsson*	Optimization of NVH launching performance of a heavy duty truck using SIMPACK as FMU in interdisciplinary co-simulation – *Marc LÄSSING, Daimler Truck AG*	Thermal Behavior of Vehicle Seats – Using Simulation to enhance Thermal Comfort – *Thorsten HANS, LEAR Corporation & Faron HESSE, Dassault Systèmes*

| 4:20 PM | Coffee Break | 30 minutes |

Plenary

| 4:50 PM | Physics-based Design via Machine Learning – *Victor OANCEA, Dassault Systèmes* |

	Track 1	Track 2	Track 3	Track 4
	Structure	**EMAG**	**MBS**	**MBS**
5:20 PM	R&D Outlook: Structural Mechanics, Tosca – *Chris WHITING & Peter ALLINGER, Dassault Systèmes*	R&D Outlook: Electromagnetics – *Peter HAMMES, Dassault Systèmes*	R&D Outlook: MBS – *Wolfgang TRAUTENBERG, Dassault Systèmes*	R&D Outlook: Fluids – *Benjamin DUDA, Dassault Systèmes*
6:05 PM	Discussion – *Chris WHITING & Peter ALLINGER, Dassault Systèmes*	Discussion: Electromagnetics – *Peter HAMMES, Dassault Systèmes*	Discussion – *Wolfgang TRAUTENBERG, Dassault Systèmes*	Discussion – *Benjamin DUDA, Dassault Systèmes*

| 6:30 PM | **Evening Networking Reception – Come Together Day 2** |