

SIMULIA Regional User Meeting – EuroNorth

September 14-15, 2022 | The Midland Hotel, Manchester, UK

Agenda

8:00 AM	Registration open		
9:00 AM	Welcome Remarks		
9:15 AM	Simulation Brand Updates & Highlights	Mark Bohm, SIMULIA WW TechSales Senior Director, Structures Dassault Systèmes	
9:45 AM	Keynote 1: Failure of all solid-state Li-ion batteries	Vikram Deshpande, Professor of Materials Engineering Cambridge University	
10:15 AM	Batteries and electric drives: Multiphysics-multiscale-driven design	Joe Amodeo, SIMULIA Industry Process Director & Victor Oancea, SIMULIA R&D Technology Director Dassault Systèmes	
11:00 AM	Break & Exhibition		
11:30 AM	Keynote 2: EM Simulation and the Connected Car	Emma Kowalczyk, Electromagnetics Chapter Lead Jaguar Land Rover	
12:00 PM	Smarter Testing - Data Driven Platform	Neil Loftus, Airbus Tony Goff Dassault Systèmes	
12:30 PM	Lunch including: Gold Sponsor Presentation from new SIMULIA VAR, SIMUSERV UK - Non Parametric Shape Optimisation of Electromagnetic Components using SIMULIA CST Studio Suite and TOSCA		
1:30 PM	Technology Session 1: Structures	Technology Session 2: Electromagnetics	Technology Session 3: Fluids and Computational AeroAcoustics
3:30 PM	Break & Exhibition		
4:00 PM	Round Tables The objective of each session is to participate in a live discussion with our technical experts and managers to discuss, hear and debate SIMULIA's strategy, capabilities and new functionalities. Conference delegates will have the opportunity to attend 3 round tables; each round table session will last for 20 minutes. Choose from: <ul style="list-style-type: none"> • Workforce of the Future • The Future is Electric • The Future is Connected • The Future is Sustainable • The Future is the Cloud • The Future is Simulation-driven Design • Strategy & Future 		
5:00 PM	Day One Ends		
6:30 PM	Drinks Reception, followed by Banquet with the after-dinner game!		

Day Two

8:30 AM	Welcome remarks	
8:45 AM	Keynote 3	
9:15 AM	User Papers Session 1	User Paper Session 2
	1. Researcher Experimentally measured impedance boundary conditions for simulating microwave scattering from ferromagnetic wires, Dmitriy Makhnovskiy Plymouth University	1. Computational Wear Analysis of Different Activities of Daily Living for Reverse Shoulder Replacement, Jessa Mae Canas Liverpool John Moores University
	2. EMC Specialist How to simplify power converter RF Conducted Emission models, Jason Watkiss Rolls Royce Control Systems	2. A Finite Element Study of the Effect of Cross-link Stabilisation in A Lumbar Spine Tumour Model, Damien Lacroix University Of Sheffield
	3. Accelerating Engineering through Democratisation of Simulation at Jaguar Land Rover, Michael Brown Jaguar Land Rover Ltd	3. A parametric model of the human knee optimised for contact Mechanics Laurence Marks Oxford Brookes University
	4. Combining measurement and simulation using a hybrid model, Kilwa Årölä Rand Finland	4. Establishing Model Credibility through WUQ – the Key Element for in-silico Medicine, Nils Götzen 4REALSIM BV
10:35 AM	Break	
11:05 AM	3DEXPERIENCE Cloud Simulation	Adriano Gagliardi, SIMULIA Strategy, Roles Portfolio Engineering Senior Manager Dassault Systèmes
11:35 AM	User Paper Session 3	User Paper Session 4
	1. A functionally graded fractional poroelastic model of the human meniscus explains lubrication mechanisms during loading, Olga BARRERA Oxford Brookes University	1. Conservatism in equivalent static assessment of Dynamic Events, John Sawyer Atkins
	2. Aircraft community noise prediction in 3D environments, Yunusi Fuerkaiiti Technische Universiteit Delft	2. Koroyd® tubular core structure inside helmet to improve safety and comfort - Use of simulation to optimize the performance, Filippi Romain EC2 MODÉLISATION
	3. Brake System Limit Performance Prediction using CFD A simulation of the Grossglockner Mountain Descent with a Bentley Continental GT Speed, Stamatis Angelinas Bentley	3. Finite-element model of fire-protected composite beams with web openings, Nicoletta Galluzzi WSP UK Limited
	4. Using Abaqus to bust the myth or expose the magic of the long screwdriver, Bob Johnson Realistic Engineering Analysis Limited	4. Finite element modeling of interlaminar fracture of thin carbon fiber/polyamide6 laminates with stiffening beams, Sepehr Simaafrookhteh KU LEUVEN
12:55 PM	Lunch	
1:55 PM	User Papers Session 5	User Paper Session 6
	1. Numerical Simulation for the Compressive Behaviour of Carbon Fibre Prepreg under High-pressure Compression Moulding Conditions, Hao Yuan University Of Warwick	1. A thermo-mechanical model of prestressed concrete hollow core slabs under fire, Waleed Hamad WSP UK Limited
	2. Finite element model of Specially-shaped partially encased composite columns under cyclic loading, Qiuyu Xu University Of Lancaster	2. X-ray Computed Tomography and Finite Element Analysis of the Great White Pelican Beak for Lightweight Vehicle Part Design, Nicola Thomas Swansea University
	3. Micromechanics of yarn-level hybrid composites, Giuseppe Romano The University Of Manchester	3. Fatigue life prediction of antivibration products using Abaqus user subroutine, Robert Luo Trelleborg AVS
	4. Aeroacoustics Simulation using SIMULIA PowerFLOW across Dyson Technology Ltd, Dr Kondwani Kanjere CEng MIMechE Dyson Technology Ltd	4. Strategies for Automation of High Variability and Low Repetition Analyses, Matt Clarke TECHNIA
3:15 PM	Dassault Systèmes Presentation	
3:45 PM	Conference Ends	