

# 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, <b>Airbus</b> Tony Goff   <b>Dassault Systèmes</b>		
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	3DEXPERIENCE Cloud Simulation	Adriano Gagliardi, SIMULIA Strategy, Roles Portfolio Engineering Senior Manager   Dassault Systèmes		
2:00 PM	Technology Session 1: Structures	Technology Session 2: Electromagnetics	Technology Session 3: Fluids and Computational AeroAcoustics	Technology Session 4: Vibro-acoustics
4:00 PM	Break & Exhibition			
4:30 PM	<b>Round Tables</b> 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"> <li>• Workforce of the Future</li> <li>• The Future is Electric</li> <li>• The Future is Connected</li> <li>• The Future is Sustainable</li> <li>• The Future is the Cloud</li> <li>• The Future is Simulation-driven driven Design</li> <li>• Strategy &amp; Future</li> </ul>			
5:30 PM	Day One Ends			
6:30 PM	Drinks Reception, followed by Banquet with the after-dinner game!			

**Day Two**

8:45 AM	Welcome remarks	
9:00 AM	Keynote 3	
9:30 AM	<b>User Papers Session 1</b>	<b>User Paper Session 2</b>
	1. Researcher Experimentally measured impedance boundary conditions for simulating microwave scattering from ferromagnetic wires, Dmitriy Makhnovskiy   <b>Plymouth University</b>	1. Computational Wear Analysis of Different Activities of Daily Living for Reverse Shoulder Replacement, Jessa Mae Canas   <b>Liverpool John Moores University</b>
	2. EMC Specialist How to simplify power converter RF Conducted Emission models, Jason Watkiss   <b>Rolls Royce Control Systems</b>	2. A Finite Element Study of the Effect of Cross-link Stabilisation in A Lumbar Spine Tumour Model, Damien Lacroix   <b>University Of Sheffield</b>
	3. Accelerating Engineering through Democratisation of Simulation at Jaguar Land Rover, Michael Brown   <b>Jaguar Land Rover Ltd</b>	3. A parametric model of the human knee optimised for contact Mechanics Laurence Marks   <b>Oxford Brookes University</b>
	4. Combining measurement and simulation using a hybrid model, Kilwa Årölä   <b>Rand Finland</b>	4. Establishing Model Credibility through WUQ – the Key Element for in-silico Medicine, Nils Götzen   <b>4REALSIM BV</b>
10:50 AM	Break	
11:35 AM	<b>User Paper Session 3</b>	<b>User Paper Session 4</b>
	1. A functionally graded fractional poroelastic model of the human meniscus explains lubrication mechanisms during loading, Olga BARRERA   <b>Oxford Brookes University</b>	1. Conservatisms in equivalent static assessment of Dynamic Events, John Sawyer   <b>Atkins</b>
	2. Aircraft community noise prediction in 3D environments, Yunusi Fuerkaiiti   <b>Technische Universiteit Delft</b>	2. Koroyd® tubular core structure inside helmet to improve safety and comfort - Use of simulation to optimize the performance, Filippi Romain   <b>EC2 MODÉLISATION</b>
	3. Brake System Limit Performance Prediction using CFD A simulation of the Grossglockner Mountain Descent with a Bentley Continental GT Speed, Stamatis Angelinas   <b>Bentley</b>	3. Finite-element model of fire-protected composite beams with web openings, Nicoletta Galluzzi   <b>WSP UK Limited</b>
	4. Using Abaqus to bust the myth or expose the magic of the long screwdriver, Bob Johnson   <b>Realistic Engineering Analysis Limited</b>	4. Finite element modeling of interlaminar fracture of thin carbon fiber/polyamide6 laminates with stiffening beams, Sepehr Simaafrookhteh   <b>KU LEUVEN</b>
12:35 PM	Lunch	
1:30 PM	<b>User Papers Session 5</b>	<b>User Paper Session 6</b>
	1. Numerical Simulation for the Compressive Behaviour of Carbon Fibre Prepreg under High-pressure Compression Moulding Conditions, Hao Yuan   <b>University Of Warwick</b>	1. A thermo-mechanical model of prestressed concrete hollow core slabs under fire, Waleed Hamad   <b>WSP UK Limited</b>
	2. Finite element model of Specially-shaped partially encased composite columns under cyclic loading, Qiuyu Xu   <b>University Of Lancaster</b>	2. X-ray Computed Tomography and Finite Element Analysis of the Great White Pelican Beak for Lightweight Vehicle Part Design, Nicola Thomas   <b>Swansea University</b>
	3. Micromechanics of yarn-level hybrid composites, Giuseppe Romano   <b>The University Of Manchester</b>	3. Fatigue life prediction of antivibration products using Abaqus user subroutine, Robert Luo   <b>Trelleborg AVS</b>
	4. Aeroacoustics Simulation using SIMULIA PowerFLOW across Dyson Technology Ltd, Dr Kondwani Kanjere CEng MIMechE   <b>Dyson Technology Ltd</b>	4. Strategies for Automation of High Variability and Low Repetition Analyses, Matt Clarke   <b>TECHNIA</b>
2:50 PM	Upcoming and Future Directions from SIMULIA R&D	Christian Whiting - SIMULIA R&D Senior Director of Structural Simulation & Victor Oancea, SIMULIA R&D Technology Director
3:20 PM	Conference Ends	