SIMULIA Regional User Meeting — EuroNorth

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

Day One

8:00 AM	Registration open			
9:00 AM	Welcome Remarks			
9:15 AM	Simulation Brand Updates & Highlights	Mark Bohm, SIMULIA Senior Director, | 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 Kowalczuk, Electromagnetics Chapter Lead | Jaguar Land Rover		
12:00 PM	Guest speaker: 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	**3D**EXPERIENCE 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	**Round Tables** - Conference delegates will have the opportunity to attend 3 round tables; each round table session will last for 20 minutes. Choose from: • **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 driven Design** • **Strategy & Future**			
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	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 Ärölä | **Rand Finland**		4. Establishing Model Credibility through VVUQ – the Key Element for in-silico Medicine, Nils Götzen | **4REALSIM BV**
10:50 AM	Break	
11:15 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. Conservatisms in equivalent static assessment of Dynamic Events, John Sawyer | **Atkins**
2. Koroyd® tubular core structure inside helmet to improve safety and comfort - Use of simulation to optimize the performance, Filippi Romain, Quentin Jorry | **EC2 MODÉLISATION** & Mathilde Nais | **Koroyd**		2. Aircraft community noise prediction in 3D environments, Yunusi Fuerkaiti | **Technische Universiteit Delft**
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**
12:35 PM	Lunch	
1:30 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**
2:50 PM	Upcoming and Future Directions from SIMULIA R&D	Chris Whiting - SIMULIA R&D Senior Director of Structural Simulation & Victor Oancea, SIMULIA R&D Technology Director
3:20 PM	Conference Closing Remarks	

Register Now: https://go.3ds.com/EuroNorth-RUM