

Friday, 11 September 2026			
	Harbour View Suite	Studio 1	Studio 2
09:00	Plenary: Industrial applications and challenges for textile composites at Short Brothers – A Boeing Company Oran Walsh, Principal Composite Specialist, Short Brothers, A Boeing Company		
09:40	Short break to move rooms		
09:50	Yarn and Fibre Scale Modelling	Manufacturing of Textile Preforms	Experimental Characterisation of Textile Reinforcements
09:50	Theoretical-numerical integrated multi-scale model for fast prediction of impact damage in textile composites Chao Zhang (Northwestern Polytechnical University) Bowen Wu, Haoyuan Dang, Zhenqiang Zhao	Effect of binder state on deformation and defect formation during preforming of unidirectional non-crimp fabrics John Montesano (University of Waterloo) Zohreh Mohammadi	Multi-scale characterization of natural fibers for technical applications to flexible intermediate bulk containers (FIBCs) Kim Lê Giraud (GEMTEX–Génie et Matériaux Textiles) Manuela Ferreira, Romain Benkirane, Ahmad Rashed Labanieh, Damien Soulat
10:10	Finite element analysis of low-velocity impact (LVI) damage in bio-inspired helicoidal CFRP laminates for thin- and thick-wall structures Hongyan Wang (Imperial College London) Erfan Kazemi, Andrea Passariello, Lorenzo Mencattelli, Oran Walsh, Silvestre Pinho	Enabling high-rate aerospace composite manufacturing through optimised dry fibre preform stabilisation Callum Tooley (Advanced Manufacturing Research Centre - University of Sheffield) Thomas Saxby, Oliver Hayes, Jody Turner	Exploring the multifunctional properties of flax fiber/hollow glass microsphere reinforced polyurethane composites Dehenenet Flatie Tassaw (Lodz University of Technology) Marcin Barburski
10:30	High-fidelity image based meso-scale modelling of 3D woven composite Jean Bénézech (DMAS, ONERA, Paris-Saclay University) Guillaume Couégnat, Loïck Saisset, Jean-François Maire	Development of nonwoven composites from mechanically recycled textile fibres Md Toufiquir Rahman (Tallinn University of Technology) Tiia Plamus, Anti Rohumaa, Urve Kallavus	On the impact strength of pineapple fiber reinforced polypropylene Shunsuke Nakatani (University of Doshisha) Tatsuya Tanaka, Masahiro Sasada
10:50	Rotation-free shell element for forming simulation in SimTex using mixed timestep integration Yuncong Feng (University of Bristol) Michael Pei, Stephen Hallett, Jonathan Belnoue	SWaT - Systematically Weaving a digital Thread into composite parts Callum Tooley (Advanced Manufacturing Research Centre - University of Sheffield) Jody Turner, Asimina Manta, Kevin Kerrigan, Thomas Saxby	Passive visual strain sensing in woven glass fibre composites Sakineh Fotouhi (University of the West of England) Oguzhan Kilinc, Fahad Mohammed
11:10	Coffee		
11:40	Manufacturing of Textile Preforms	Yarn and Fibre Scale Modelling	New session
11:40	Full field quantitative correlation of out of plane defects in virtual and experimental composite ply forming data Lachlan Williams (Airbus Operations UK) Adam Thompson, Stephen Hallett, Jonathan Belnoue, Sjoerd Van Der Veen	Improving the simulation accuracy and efficiency of coreless filament winding process with SimTex Hao Yuan (University of Bristol) Yuncong Feng, Sebastian Hügler, Peter Middendorf, Jonathan P.-H. Belnoue	Revitalizing flax as a sustainable alternative to fossil-based fibers Tiia Plamus (Tallinn University of Technology)
12:00	Comparative study on bending stiffness and drapability of coated carbon textile reinforcements for architectural textile reinforced concrete elements Shantanu Bhat (Institut für Textiltechnik of RWTH Aachen University) Umid Bäuerle, Thomas Gries	Experimental and numerical characterisation of 5-harness satin weave composites with void defects using ANN and Monte Carlo simulation Nagappa Siddgonde (Indian Institute of Technology Madras) Anup Ghosh	Structural architecture and thermal bonding design in recycled-fibre nonwovens Katre Worth (Tallinn University of Technology) Tiia Plamus, Jüri Majak
12:20	A solid-shell FE for forming simulation of multi-ply dry textile materials Olivier Polit (Université Paris-Nanterre) Bruno Ribeiro Cotrim, Michele D'Ottavio, Philippe Vidal, Emmanuel Valot	A fully virtual pipeline for textile permeability predictions Jonathan Belnoue (University of Bristol) Ryan Chung, Tomasz Garstka, Stephen Hallett	Development of a model to predict the breakage of carbon fiber in the compounding process using a twin-screw extruder Miyabi Kotouge (Doshisha University) Tatsuya Tanaka, Masahiro Sasada, Takeshi Ishikawa
12:40	Fast and accurate forming simulation of unidirectional non-crimp fabrics using a new kinematic approach Peter Broberg (Aalborg University) Christian Krogh, Bastian Schäfer, Jan Wank, Luise Kärger, Brian Bak, Esben Lindgaard	Modeling of the mechanical response of polymer mooring ropes to investigate the construction effects Tom Armand (ENSTA, Institut Polytechnique de Paris, Bretagne INP, Univ. Brest) Guilhem Bles, Matthieu Le Saux, Yann Marco	Physics-informed machine learning for fatigue delamination with fibre bridging retardation in composites Liaojun Yao (Harbin Institute of Technology) Jiexiong Wang, Stepan V. Lomov, Valter Carvelli
13:00		A stepwise secant cohesive law for efficient representation of matrix damage in fiber-reinforced composites Marcus Welsh (Institut für Textiltechnik of RWTH Aachen) Brett Bednarczyk, Evan J. Pineda, Kumar C. Jois	
13:20	Closing remarks		
13:30	Lunch		
14:30	End of TexComp-2026		