

# The 16<sup>th</sup> International Conference on Flow Processes in Composite Materials

## Day 3: Thursday, January 16, 2025

**Morning Keynote:** Prof. Prasad Potluri (University of Manchester, UK)

Session I "Impregnation & Flow"

Session I Chair: SV Lomov, Elena Syerko

Time	Presentation & Author(s)
8:00	All / Mingle
8:30 - 9:20	<b>Keynote: Prof. Prasad Potluri, Textile preforming optimised for infusion with nanoparticles (University of Manchester, UK)</b>
9:20 - 9:40	Hydrogen permeability of carbon fiber reinforced casted polyamide 12 ( <b>Patrick Nowakowski, Faserinstitut University of Bremen, Germany</b> )
9:40 - 10:00	An integrated permeability testing device for textile reinforcements under high temperature ( <b>Bin Yang, Wuhan University of Technology, China</b> )
10:00 - 10:30	<b>Coffee Break</b>
10:30 - 10:50	Distributed fibre optic sensing for real-time monitoring of VARTM manufacturing and processing of composite laminates ( <b>James R. Davidson, Sheffield University, UK</b> )
10:50 - 11:10	Dynamic wetting of polymers on fibers: effect of temperature ( <b>Monica Pucci, IMT Mines Ale, France</b> )
11:10 - 11:30	Modelling the resin flow through fibres during resin transfer moulding ( <b>Shanthar Rajinth, University of Manchester, UK</b> )
11:30 - 11:50	Flow front monitoring and permeability analysis of pneumatically spliced woven fabrics ( <b>Fayyad Amod, Sheffield University, UAE</b> )
11:50 - 12:10	Performance Evaluation of discarded aerospace prepregs for alternate applications ( <b>Sanjeev Rao, Khalifa University, UAE</b> )
12:10 - 12:30	Bonding performance of plasma-treated LDPE/GNP liners with CFRP for high-pressure hydrogen storage systems ( <b>Jabir Ubaid, Khalifa University, UAE</b> )
12:30 - 13:30	<b>Lunch</b>

## Day 3: Thursday, January 16, 2025

**Afternoon Keynote:** Prof. David May (Faserinstitut, University of Bremen, Germany)

Session II "Reinforcement Permeability"

Session II Chair: Suresh Advani

Time	Presentation & Author(s)
13:30 - 14:20	<b>Keynote: Prof. David May, Composite process development: studies on permeability as the basis for a holistic research methodology (Faserinstitut, University of Bremen, Germany)</b>
14:20 - 14:40	Iso-standardized permeability test requirements are on the limit of the achievable measurement precision ( <b>SV Lomov, KU Leuven, Belgium</b> )
14:40 - 15:00	A reference porous medium for calibrating through thickness permeability setup ( <b>Mostafa Nikzad, Swinburne Institute of Technology, Australia</b> )
15:00 - 16:15	Benchmarking and Standardization ( <b>Stepan Lomov, Veronique Michaud, David May, Tim Schmidt, Elena Syerko, Ana Yong</b> )
16:15	<b>Abu Dhabi Tour</b>

**\*Note:** Each presentation is of 17 min duration with 3 min for Q&A (20 min total). The presenter should bring their slides on a USB drive or bring a laptop with HDMI connectivity or adapter. The preferred slide aspect ratio is 16:9