



ADVANCED MATERIALS SYMPOSIUM

From Discovery to Additive Manufacturing

7–8 September 2026

Materials Innovation Factory, University of Liverpool

Welcome

Welcome to the Advanced Materials Symposium, an international event bringing together researchers across flow chemistry, soft matter, rheology, complex fluids, fluid dynamics and manufacturing to explore the future of advanced materials manufacturing. The symposium is supported by the University of Liverpool, Anton Paar, and the UKRI Future Leaders Fellowship “*Smart Formulations for Manufacturing of Functional Three-Dimensional Hierarchical Structures*”.

Purpose of the event

In alignment with the aims of the UKRI Future Leaders Fellowship, the Advanced Materials Symposium brings together leaders from the research areas connected through the fellowship, spanning flow chemistry, soft matter, rheology, fluid dynamics and additive manufacturing. The aim is to encourage discussion across disciplines, identify common scientific challenges, and explore new opportunities to bridge the gap between materials discovery and manufacturing.

About the Materials Innovation Factory

The Materials Innovation Factory is a purpose-built facility at the University of Liverpool for materials chemistry, from computational design to discovery and formulated products. The MIF combines specialist academic expertise with cutting-edge automated laboratory capability and advanced analytical facilities, providing an environment designed to accelerate materials discovery, development and translation.

Venue

The symposium will take place at the **Materials Innovation Factory (MIF)**, University of Liverpool.

Address

Materials Innovation Factory
University of Liverpool
51 Oxford Street
Liverpool L7 3NY
United Kingdom

The Materials Innovation Factory is located on the University of Liverpool campus, approximately a 15-minute walk from Liverpool Lime Street station.

Further travel information and campus maps are available here:

<https://www.liverpool.ac.uk/media/livacuk/maps/Campus-Map-December-2025.pdf>.

During the Symposium

- **Registration:** MIF Atrium
- **Lectures:** Gossage Lecture Theatre
- **Posters:** MIF Atrium
- **Sponsor Exhibition:** MIF Atrium
- **Refreshments and Lunch:** MIF Atrium

**This booklet contains the provisional symposium programme. Lecture titles and room allocations may be updated as arrangements are finalised.*

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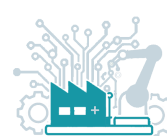
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Monday 7 September

Time	Session
09:00	Registration opens
09:30	Esther Garcia-Tuñón , University of Liverpool <i>Welcome and Opening Remarks</i>
09:40	Anna Slater , University of Liverpool <i>Flow chemistry for the synthesis and crystallisation of porous organic materials</i>
10:25	Patrick Spicer , University of New South Wales <i>Bacterial cellulose as a web connecting formulated products, biological ecosystems, and spatially programmed materials.</i>
11:10	Coffee Break, Posters & Anton Paar Exhibition
11:40	Wilson Poon , University of Edinburgh <i>Seeing inside a print nozzle: towards predicting jamming and liquid migration in suspension extrusion</i>
12:25	Panel Discussion <i>Opportunities and Challenges Across Disciplines</i>
13:00	Lunch & Anton Paar Exhibition
13:30	Optional MIF Tours for Invited Speakers
14:00	Randy Ewoldt , University of Illinois Urbana-Campaign <i>Rheological Intelligence: Discovering and Designing Printable Materials</i>
14:45	Alexandra V Bayles , University of Delaware <i>Flow sculpting: Advancing multimaterial direct ink writing through nozzle design</i>
15:30	Coffee Break & Anton Paar Exhibition
16:00	Posters and Networking
19:00	Symposium Dinner

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Tuesday 8 September

Time	Session
09:00	Gathering and Networking
09:30	Esther Garcia-Tuñón , University of Liverpool <i>Future Leaders Fellowship: Outcomes and Future Directions</i>
10:00	Rishav Agrawal , Schlumberger, Cambridge, UK <i>Rheology of Yield Stress Materials for Direct Ink Writing Applications</i>
10:45	Coffee Break, Posters & Anton Paar Exhibition
11:15	Simon Rogers , University of Illinois Urbana-Campaign <i>Linking structural and rheological memory in disordered soft materials</i>
12:00	Panel Discussion <i>Future Directions in Advanced Materials Manufacturing</i>
13:00	Lunch, Posters & Anton Paar Exhibition
14:00	Amanda Hughes , University of Liverpool <i>From Functional Inks to Functional Devices: Sustainable Manufacturing of Advanced Optoelectronic Materials for Next-Generation Technologies</i>
14:45	Eduardo Saiz , Imperial College London <i>Microstructural Control and Additive Manufacturing of Ceramics</i>
15:30	Coffee Break, Posters & Anton Paar Exhibition
16:00	Closing Remarks & Poster Prizes

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