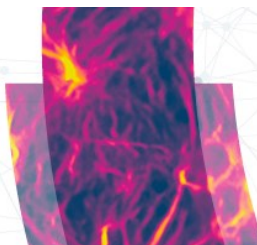


# Advances in supramolecular gels

30 April – 2 May 2025 | Glasgow, Scotland



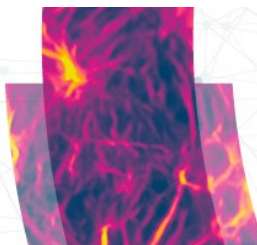
## Faraday Discussions

**Wednesday 30 April 2025**

11:30	Registration and lunch
12:45	<b>Welcome and introductions</b> Dave Adams and Annela Seddon <i>Co-Chairs of Scientific Committee</i>
12:55	<b>Outline of Discussion format</b> Kirstine Anderson and Brian Li <i>Royal Society of Chemistry Publishing Editors</i>
13:00	<b>Introductory lecture – Spiers memorial lecture</b> (Session chair: Dave Adams, <i>University of Glasgow</i> ) Darrin Pochan <i>University of Delaware, USA</i>
	<b>Session 1: Characterising supramolecular gels</b> (Session chair: Annela Seddon, <i>University of Bristol</i> )
14:00	<b>Title TBC</b> Vince Conticello <i>Emory University, USA</i>
14:05	<b>Unveiling the structure of protein-based hydrogels by overcoming Cryo-SEM sample preparation challenges</b> Dimitra Katrantzi <i>University of Leeds, UK</i>
14:10	<b>Autoinduction through the coupling of nucleation-dependent self-assembly of a supramolecular gel and a reaction network</b> Gareth Lloyd <i>Lincoln University, UK</i>
14:15	Discussion
15:30	Refreshments
16:00	<b>Title TBC</b> Karen Edler <i>Lund University, Sweden</i>
16:05	<b>Modulating the phase state of gelating peptides to enable high-resolution structural determination and a structural understanding of immunomodulatory function</b> Joel Schneider <i>National Cancer Institute, USA</i>
16:10	<b>Cryo-EM brings near-atomic resolution to many self-assembled systems</b> Edward Egelman <i>University of Virginia, USA</i>
16:15	Discussion
17:30	Lightning presentations (by invitation of the Scientific Committee)
18:00	Poster session and wine reception
19:00	Close of sessions

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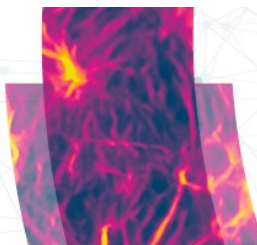
Faraday  
Discussions

Thursday 1 May 2025

	<b>Session 2: Design of gelling systems</b> (Session chair: Dave Adams, <i>University of Glasgow</i> )
09:00	<b>Bridging computational metrics and experimental measures in peptide self-assembly dynamics</b> Tell Tuttle <i>University of Strathclyde, UK</i>
09:05	<b>From molecular assembly to gel formation</b> Jan van Esch <i>Technische Universiteit Delft, Netherlands</i>
09:10	<b>Crystal structures and gelation ability: Is it worth correlating?</b> Parthasarathi Dastidar <i>Indian Association for the Cultivation of Science, India</i>
09:15	Discussion
10:30	Refreshments
11:00	<b>Title TBC</b> Julia Ortony <i>University of California, San Diego, USA</i>
11:05	<b>Mechanistic insights into BSA triggered supramolecular hydrogelation</b> Loïc Jierry <i>University of Strasbourg/Institut Charles Sadron CNRS, France</i>
11:10	<b>Non-equilibrium supramolecular self-assembly</b> Lin, Yiyang <i>Beijing University of Chemical Technology, China</i>
11:15	<b>From peptides to peptoids: advancing hydrogel design for biomedical applications</b> Naomi Crabbe <i>Durham University, UK</i>
11:20	Discussion
13:00	Lunch
	<b>Session 3: Using supramolecular gels</b> (Session chair: Demetra Giuri, <i>University of Bologna</i> )
14:00	<b>Designing peptide hydrogels for controlled drug release</b> Aline Miller <i>University of Manchester, UK</i>
14:05	<b>Supramolecular-guided electroactive hydrogel printing via digital light processing</b> Herdeline Ann Ardoña <i>University of California, Irvine, USA</i>
14:10	<b>Impact of counterion and salt form on the properties of peptide hydrogels for long-acting injectable drug delivery</b> Garry Laverty <i>Queen's University Belfast, UK</i>
14:15	Discussion
15:30	Refreshments
16:00	<b>Title TBC</b> Meital Reches <i>Hebrew University of Jerusalem, Israel</i>
16:05	<b>Self-assembling host defense peptide-based oral hydrogel for the treatment of ulcerative colitis</b> Ruirui Xing

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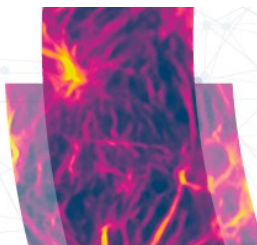


## Faraday Discussions

	<i>Institute of Process Engineering, Chinese Academy of Sciences, China</i>
16:10	<b>Self healing, injectable organogel depots for the localised delivery of lipophilic chemotherapeutics</b> Maria Marlow <i>University of Nottingham, UK</i>
16:15	Discussion
17:30	Close of sessions
18:00	Conference dinner

# Advances in supramolecular gels

30 April – 2 May 2025 | Glasgow, Scotland



## Faraday Discussions

Friday 2 May 2025

	<b>Session 4: Multicomponent systems</b> (Session chair: Krishna Damodran, <i>University of Iceland</i> )
09:00	<b>Characterising printed low molecular weight gelators using small angle neutron scattering and rheology</b> Emily Draper <i>University of Glasgow, UK</i>
09:05	<b>Multicomponent supramolecular hydrogels of self-sorting or coassembling phenylalanine derivatives</b> Bradley Nilsson <i>University of Rochester, USA</i>
09:10	<b>Infrared responsive three-component supramolecular hydrogels</b> Bart Jan Ravoo <i>University of Münster, Germany</i>
09:15	Discussion
10:30	Refreshments
11:00	<b>Co-assembly or self-sorting? Nano-IR spectroscopy and mapping of multi-component gels</b> Slivia Marchesan <i>University of Trieste, Italy</i>
11:05	<b>Dissipative self-assembly of droplets in hydrogel</b> Kai Liu Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China
11:10	<b>Inducing endochondrial ossification with liminal spaces and signal density: reimaging the signalling landscape via self-assembled regenerative hydrogels</b> Richard Williams <i>Deakin University, Australia</i>
11:15	<b>The hydrophobic effects on peptide self-assembly</b> Huaimin Wang <i>Westlake University, China</i>
11:20	Discussion
13:00	<b>Concluding remarks lecture</b> (Session chair: Xuehai Yan, <i>Institute of Process Engineering, Chinese Academy of Science</i> ) Thorri Gunlauggson <i>Trinity College Dublin, Ireland</i>
13:30	<b>Acknowledgements</b>
13:45	<b>Close of meeting and lunch</b>

Please note that this is a draft programme and timings may change.