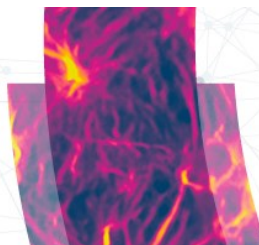


Advances in supramolecular gels

30 April – 2 May 2025 | Glasgow, Scotland



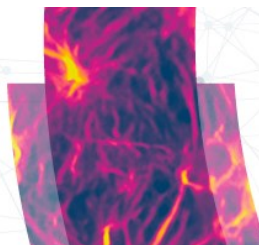
Faraday Discussions

Wednesday 30 April 2025

12:00	Registration and lunch
13:00	Welcome and introductions Dave Adams and Annela Seddon <i>Co-Chairs of Scientific Committee</i>
13:10	Outline of Discussion format Kirstine Anderson and Brian Li <i>Royal Society of Chemistry Publishing Editors</i>
13:15	Introductory lecture – Spiers memorial lecture (Session chair: Dave Adams, <i>University of Glasgow</i>) Darrin Pochan <i>University of Delaware, USA</i>
14:15	Refreshments
	Session 1: Characterising supramolecular gels (Session chair: Annela Seddon, <i>University of Bristol</i>)
14:45	Surfactant-like peptide gels are based on cross-β amyloid fibrils Vince Conticello <i>Emory University, USA</i>
14:50	Unveiling the structure of protein-based hydrogels by overcoming Cryo-SEM sample preparation challenges Dimitra Katrantzi <i>University of Leeds, UK</i>
14:55	Autoinduction through the coupling of nucleation-dependent self-assembly of a supramolecular gel and a reaction network Gareth Lloyd <i>Lincoln University, UK</i>
15:00	Discussion
16:15	Lightning poster presentations (by invitation of the Scientific Committee)
16:30	Poster session and wine reception Sponsored by <i>Soft Matter</i>
18:00	Close of sessions

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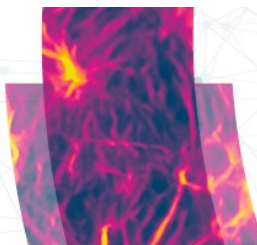
Faraday Discussions

Thursday 1 May 2025

	Session 1: Characterising supramolecular gels (Session chair: Annela Seddon, <i>University of Bristol</i>)
09:00	Phytantriol and monoolein in aqueous deep eutectic solvents and protic ionic liquid solutions Karen Edler <i>Lund University, Sweden</i>
09:05	Modulating the phase state of gelating peptides to enable high-resolution structural determination and a structural understanding of immunomodulatory function Joel Schneider <i>National Cancer Institute, USA</i>
09:10	Cryo-EM brings near-atomic resolution to many self-assembled systems Edward Egelman <i>University of Virginia, USA</i>
09:15	Discussion
10:30	Refreshments
	Session 2: Design of gelling systems (Session chair: Dave Adams, <i>University of Glasgow</i>)
11:00	Bridging computational metrics and experimental measures in peptide self-assembly dynamics Tell Tuttle <i>University of Strathclyde, UK</i>
11:05	From molecular assembly to gel formation Jan van Esch <i>Technische Universiteit Delft, Netherlands</i>
11:10	Crystal structures and gelation ability: Is it worth correlating? Parthasarathi Dastidar <i>Indian Association for the Cultivation of Science, India</i>
11:15	Discussion
12:30	Lunch
13:30	Title TBC Julia Ortony <i>University of California, San Diego, USA</i>
13:35	Mechanistic insights into BSA triggered supramolecular hydrogelation Loïc Jierry <i>University of Strasbourg/Institut Charles Sadron CNRS, France</i>
13:40	Discussion
14:30	<i>Soft Matter</i> 20 th anniversary celebrations and refreshments
	Session 3: Using supramolecular gels (Session chair: Demetra Giuri, <i>University of Bologna</i>)
15:10	Designing peptide hydrogels for controlled drug release Aline Miller <i>University of Manchester, UK</i>
15:15	Supramolecular-guided electroactive hydrogel printing via digital light processing Herdeline Ann Ardoña <i>University of California, Irvine, USA</i>
15:20	Silylated peptides as building blocks for material synthesis using sol-gel polymerization Meital Reches

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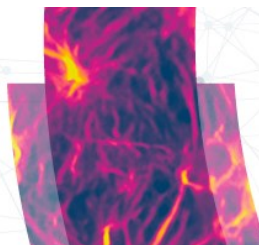


Faraday Discussions

	<i>Hebrew University of Jerusalem, Israel</i>
15:25	Impact of counterion and salt form on the properties of peptide hydrogels for long-acting injectable drug delivery Garry Lavery <i>Queen's University Belfast, UK</i>
15:30	Discussion
17:10	Close of sessions
19:00	Conference dinner

Advances in supramolecular gels

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**Faraday
Discussions**

Friday 2 May 2025

	Session 4: Multicomponent systems (Session chair: Krishna K. Damodaran, <i>University of Iceland</i>)
09:00	Characterising printed low molecular weight gelators using small angle neutron scattering and rheology Emily Draper <i>University of Glasgow, UK</i>
09:05	Multicomponent supramolecular hydrogels of self-sorting or coassembling phenylalanine derivatives Bradley Nilsson <i>University of Rochester, USA</i>
09:10	Infrared responsive three-component supramolecular hydrogels Bart Jan Ravoo <i>University of Münster, Germany</i>
09:15	Discussion
10:30	Refreshments
11:00	Co-assembly or self-sorting? Nano-IR spectroscopy and mapping of multi-component gels Silvia Marchesan <i>University of Trieste, Italy</i>
11:05	Dissipative self-assembly of droplets in hydrogel Kai Liu Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China
11:10	The hydrophobic effects on peptide self-assembly Huaimin Wang <i>Westlake University, China</i>
11:15	Discussion
12:30	Concluding remarks lecture (Session chair: Xuehai Yan, <i>Institute of Process Engineering, Chinese Academy of Science</i>) Thorri Gunlauggson <i>Trinity College Dublin, Ireland</i>
13:00	Acknowledgements
13:15	Close of meeting and refreshments

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