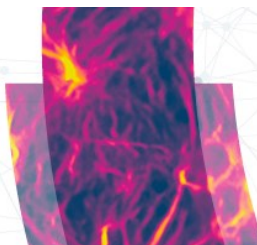


Advances in supramolecular gels

30 April – 2 May 2025 | Glasgow, Scotland



**Faraday
Discussions**

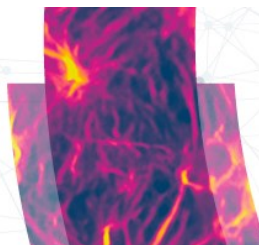
Wednesday 30 April 2025

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 gelator 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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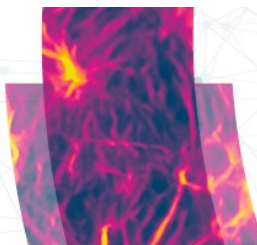
Thursday 1 May 2025

	Session 1 continued: Characterising supramolecular gels (Session chair: Annela Seddon, <i>University of Bristol</i>)
09:30	Phytantriol and monoolein in aqueous deep eutectic solvents and protic ionic liquid solutions Karen Edler <i>Lund University, Sweden</i>
09:35	Exploring the temperature dependence of β-hairpin peptide self-assembly Joel Schneider <i>National Cancer Institute, USA</i>
09:40	Cryo-EM for atomic characterization of supramolecular gels Edward Egelman <i>University of Virginia, USA</i>
09:45	Discussion
11:00	Refreshments
	Session 2: Using supramolecular gels (Session chair: Demetra Giuri, <i>University of Bologna</i>)
11:30	Investigating the co-assembly of amphipathic peptides Aline Miller <i>University of Manchester, UK</i>
11:35	Supramolecular peptidic dopants for inducing photoconductivity and mechanical tunability in digital light processable hydrogels Herdeline Ann Ardoña <i>University of California, Irvine, USA</i>
11:40	Silylated peptides as building blocks for material synthesis using sol-gel polymerization Meital Reches <i>Hebrew University of Jerusalem, Israel</i>
11:45	Impact of counterion and salt form on the properties of long-acting injectable peptide hydrogels for drug delivery Garry Laverty <i>Queen's University Belfast, UK</i>
11:50	Discussion
13:30	Lunch
	Session 3: Design of gelling systems (Session chair: Dave Adams, <i>University of Glasgow</i>)
14:30	Automated Descriptors for High-Throughput Screening of Peptide Self-Assembly Tell Tuttle <i>University of Strathclyde, UK</i>
14:35	Fiber formation seen through the high-resolution computational microscope Tomasz Piskorz <i>Technische Universiteit Delft, Netherlands</i>
14:40	Discussion
15:30	Soft Matter 20 th anniversary celebrations followed by refreshments

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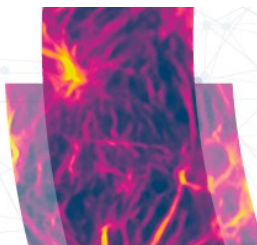


Faraday Discussions

16:10	Designing Anti-bacterial Supramolecular Gels from Primary Ammonium Dicarboxylate (PAD) salts for Self-Delivery Applications Parthasarathi Dastidar <i>Indian Association for the Cultivation of Science, India</i>
16:15	Influence of peptides chirality on their protein-triggered supramolecular hydrogelation Loïc Jierry <i>University of Strasbourg/Institut Charles Sadron CNRS, France</i>
16:20	Discussion
17:10	Close of sessions
19:00	Conference dinner

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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	Can we mimic 3D printing of low molecular weight gels using a rheometer? – a characterisation toolkit for extrusion printed gels Emily Draper <i>University of Glasgow, UK</i>
09:05	Multicomponent Supramolecular Hydrogels Composed of Cationic Phenylalanine Derivatives and Anionic Amino Acids Bradley Nilsson <i>University of Rochester, USA</i>
09:10	Near-infrared responsive three-component supramolecular hydrogels of peptide, agarose and upconversion nanoparticles Bart Jan Ravoo <i>University of Münster, Germany</i>
09:15	Discussion
10:30	Refreshments
11:00	Co-assembled supramolecular hydrogels: Nano-IR sheds light on tripeptide assemblies Silvia Marchesan <i>University of Trieste, Italy</i>
11:05	Programming Two-component Peptides Self-assembly by Tuning the Hydrophobic Linker Huaimin Wang <i>Westlake University, China</i>
11:10	Discussion
12:00	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>
12:30	Acknowledgements
12:45	Close of meeting and refreshments

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