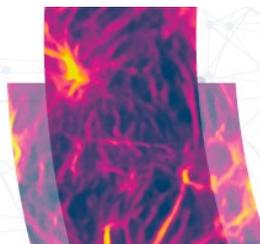


Advances in supramolecular gels

30 April - 2 May 2025 | Glasgow, Scotland



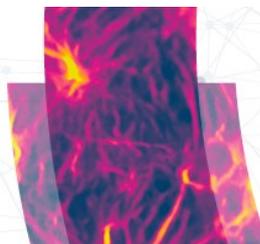
Faraday Discussions

Wednesday 30 April 2025

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| 11:30 | Registration and lunch |
| 12:45 | Welcome and introductions Dave Adams and Annela Seddon <i>Co-Chairs of Scientific Committee</i> |
| 12:55 | Outline of Discussion format Kirstine Anderson and Brian Li <i>Royal Society of Chemistry Publishing Editors</i> |
| 13:00 | Introductory lecture – Spiers memorial lecture (Session chair: Dave Adams, <i>University of Glasgow</i>) Darrin Pochan <i>University of Delaware, USA</i> |
| | Session 1: Characterising supramolecular gels (Session chair: Annela Seddon, <i>University of Bristol</i>) |
| 14:00 | Title TBC Vince Conticello <i>Emory University, USA</i> |
| 14:05 | Unveiling the structure of protein-based hydrogels by overcoming Cryo-SEM sample preparation challenges Dimitra Katrantzi <i>University of Leeds, UK</i> |
| 14:10 | Autoinduction through the coupling of nucleation-dependent self-assembly of a supramolecular gel and a reaction network Gareth Lloyd <i>Lincoln University, UK</i> |
| 14:15 | Discussion |
| 15:30 | Refreshments |
| 16:00 | Title TBC Karen Edler <i>Lund University, Sweden</i> |
| 16:05 | 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> |
| 16:10 | Cryo-EM brings near-atomic resolution to many self-assembled systems 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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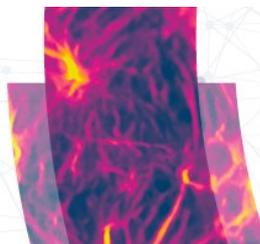
Faraday Discussions

Thursday 1 May 2025

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

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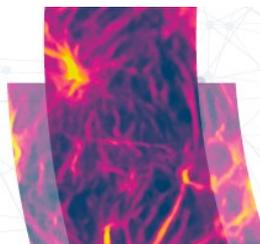


Faraday Discussions

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

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Faraday Discussions

Friday 2 May 2025

| | |
|-------|--|
| | Session 4: Multicomponent systems (Session chair: Krishna Damodran, <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 Slivia 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 | Inducing endochondrial ossification with liminal spaces and signal density: reimagining the signalling landscape via self-assembled regenerative hydrogels Richard Williams <i>Deakin University, Australia</i> |
| 11:15 | The hydrophobic effects on peptide self-assembly Huaimin Wang <i>Westlake University, China</i> |
| 11:20 | Discussion |
| 13:00 | 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> |
| 13:30 | Acknowledgements |
| 13:45 | Close of meeting and lunch |

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